

**SITE INVESTIGATION AND CLOSURE
REPORT**

**HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN
BRRTS# 02-41-307576**

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Infrastructure, buildings, environment, communications

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**Site Investigation and
Closure Report**

Hoffman's Valet Cleaners
7215 West Center Street
Wauwatosa, Wisconsin

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Introduction

ARCADIS has completed site investigation activities at the Hoffman's Valet Cleaners facility located at 7215 West Center Street in Wauwatosa, Wisconsin (site). Based on the investigation results, limited impacts are present, and do not warrant active remediation. No volatile organic compounds were detected in the groundwater samples collected from the three monitoring wells installed on the property. This report has been prepared to document the results of the site investigation in accordance with Chapter NR 716, Wis. Admin. Code, and to request closure per the requirements set forth in Chapter NR 726.

The report summarizes the site background and the results of the previous site activities, describes the investigation activities completed at the site, and presents the findings and recommendations. An evaluation of the NR 726 site closure criteria is also presented along with recommendations that the site be closed in accordance with Chapter NR 726.

Property Description

Hoffman's Valet Cleaners is located at 7215 West Center Street in the city of Wauwatosa, Wisconsin. The property is located in the northeast quarter of the southwest quarter, Section 15, Township 7 North, Range 21 East in Milwaukee County. The location of the property is illustrated on Figure 1.

The property is developed with a two-story building of masonry construction, which occupies almost the entire property. A driveway is located along the east side of the building, and a parking area is located on the south side of the building. The building has a partial basement, in which the dry cleaning machine is located. Dry cleaning operations are still currently conducted on-site. Tetrachloroethene (PCE) has historically been used as the dry cleaning solvent throughout the operating life of the dry cleaners. The building layout is illustrated on Figure 2.

The subject property is located in a mixed residential and commercial area. The property is bordered to the north by West Center Street and to the south by an alley. Residential dwellings are located to the east and south. A commercial building is located on the west adjacent property. It is understood that a tailor previously occupied the west adjacent building, and that the east adjacent residence formerly housed a beauty salon. The layout of the property and adjoining properties is depicted on Figure 3.

The property and its vicinity are serviced by municipal water supply and sewerage systems. Overhead lines are located along the south side of the property. The locations of the site utilities are depicted on Figure 3.

Investigation Activities

ARCADIS has completed soil and groundwater investigation activities at the Hoffman's Valet Cleaners property. The work was completed in three phases. The details of these activities are described in the following sections.

February 2002 Investigation

The initial scope of work was completed in accordance with a work plan dated September 27, 2001. Two interior soil borings (GP-1 and GP-2) were advanced inside the building in the vicinity of the dry cleaning machine on February 7, 2002 using portable coring equipment. The soil boring locations are illustrated on Figure 3. The interior borings were advanced to a depth of 10 feet below land surface (ft bls), the maximum depth that could be attained given the limitations of the portable equipment. Soil samples were collected from each boring, screened with a flame ionization detector (FID), and logged in the field by ARCADIS. Groundwater was not encountered in the borings. Copies of the soil boring logs are included in Appendix A.

Based on the FID screening results, one soil sample was collected from each boring for laboratory analysis. Each sample was placed into clean, laboratory-supplied containers with the appropriate preservative, and placed in a cooler with ice. The samples were transported on-ice to EnChem under standard chain-of-custody procedures for chemical analysis. The soil samples were analyzed for Volatile Organic Compounds (VOC)s using United States Environmental Protection Agency (US EPA) Method 8260. Groundwater was not encountered in the interior soil borings.

After the soil sampling activities were completed, the borings were abandoned in accordance with NR 141. Copies of the borehole abandonment forms are included in Appendix A.

September 2002 Investigation

The analytical results from the February 2002 sampling activities detected PCE in the soil at concentrations ranging from 51 to 240 micrograms per kilogram ($\mu\text{g}/\text{kg}$). At the

request of Mr. Ralph Hoffmann, ARCADIS reported the release to the Wisconsin Department of Natural Resources (WDNR) in a letter dated May 30, 2002.

Based on the February 2002 results, additional investigation was necessary to evaluate the limits of impacted soil and to evaluate groundwater quality. Five additional soil borings were advanced at the property on September 12, 2002 in accordance with the September 2001 work plan. Four borings (GP-101, GP-102, GP-103 and GP-105) were advanced on the exterior of the building using a truck-mounted Geoprobe® drilling unit. One boring (GP-104) was advanced inside the building to the south of Soil Borings GP-1 and GP-2, using portable equipment. The boring locations are illustrated on Figure 3. Soil samples were collected from each boring, screened with an FID, and logged in the field by ARCADIS. Copies of the soil boring logs are included in Appendix A.

The exterior borings were advanced to depths ranging from 22.5 to 30.5 ft bls. The interior boring was advanced using a hand probe until refusal was encountered at a depth of 9 ft bls. Based on the FID screening results, one to two soil samples were collected from each boring for laboratory analysis. Each sample was placed into clean, laboratory-supplied containers with the appropriate preservative, and placed in a cooler with ice. The samples were transported on-ice to EnChem under standard chain-of-custody procedures for chemical analysis. The soil samples were analyzed for VOCs using US EPA Method 8260.

Temporary monitoring wells were installed in all exterior borings to provide preliminary groundwater quality data. To maximize the potential for groundwater recovery in the temporary wells, 15-foot screens were used. Groundwater samples were collected from Temporary Wells GP-102, GP-103 and GP-105. Temporary Well GP-101 did not yield any groundwater over a period of 8 hours. Groundwater was not encountered in the interior soil boring. Groundwater samples were collected using a disposable bailer, placed into laboratory-supplied containers with preservative, and placed into a cooler with ice. The samples were submitted to EnChem for analysis of VOCs.

After the sampling activities were completed, the temporary wells were removed and the borings were abandoned in accordance with NR 141. Copies of the borehole abandonment forms are included in Appendix A.

January 2005 Investigation

Based on the results of the 2002 investigation, supplemental investigation was necessary to further evaluate soil and groundwater conditions at the property and off-site. ARCADIS submitted a work plan for the supplemental investigation to Gina Keenan of the WDNR on March 28, 2003. The work plan recommended the advancement of four additional Geoprobe borings for the collection of soil and groundwater samples. In a letter dated July 13, 2003, Ms. Keenan provided conditional approval of the work plan. The conditional approval letter requested that monitoring wells be installed instead of Geoprobe borings, and also reduced the number of sampling points to three. Because costs associated with the investigation are eligible for reimbursement through the DERP, ARCADIS submitted a revised work plan and cost estimate to Ms. Keenan on September 17, 2003. Ms. Keenan approved the revised work plan in an electronic mail message dated January 13, 2004.

Monitoring Well Installation and Development

Two of the monitoring well locations were potentially in the right-of-way; therefore, ARCADIS obtained an access permit from the City of Wauwatosa. The permit was issued on December 10, 2004. The three monitoring wells (MW-1, MW-2, and MW-3) were installed on January 19, 2005. The wells were installed by Giles Engineering Associates using hollow-stem auger drilling techniques. Monitoring Well MW-1 was installed to a depth of 24 feet, and MW-2 and MW-3 were each installed to a depth of 20 feet. Each well was installed with a 10-foot section of well screen. Soil cuttings generated during the drilling activities were stored on-site in 55-gallon drums pending identification of a disposal facility.

Monitoring Well MW-1 was installed along the north side of the property to evaluate the northern extent of impacted soil and groundwater, MW-2 was installed near GP-103 to further evaluate groundwater quality in the eastern portion of the property, and MW-3 was installed south of GP-101 to evaluate soil and groundwater conditions south of the property. Monitoring Well MW-3 was initially planned for installation further south. However, its location was moved in the field due to the presence of underground and overhead utilities. The well locations are illustrated on Figure 3.

Following the installation of the soil borings and collection of soil samples, the monitoring wells were installed. Each monitoring well consists of a 2-inch diameter Schedule 40 polyvinyl chloride (PVC) riser and a 10-foot length of 2-inch diameter Schedule 40 PVC well screen. Upon positioning the well screen and riser within the borehole, the annular space between the well screen and borehole was filled with a

silica sand filter pack and filter pack seal. The remainder of the annular space was sealed with bentonite, and a flush-mount well vault was installed at the ground surface.

After construction, the monitoring wells were developed on January 28, 2005 in accordance with the requirements of NR 141. Since the monitoring wells did not yield a significant amount of groundwater, well development consisted of bailing the monitoring wells dry several times during the day. Groundwater generated during development and sampling activities was also stored on-site in a 55-gallon drum pending identification of a disposal facility. Monitoring well construction and well development forms are included in Appendix A.

Soil Sample Collection

Soil samples were collected from the borings at 2-foot vertical intervals to provide a continuous profile of the subsurface materials. Logs were prepared for each boring and monitoring well in accordance with WDNR requirements and are included in Appendix A. The soils were also screened with an FID to provide a qualitative assessment of impacts. The work plan included provisions for the collection of two soil samples from each boring for analysis. However, none of the soil samples exhibited elevated FID readings. As a result, one soil sample was collected from the depth interval nearest the water table at each boring (10 to 12 ft bls) for analysis. The soil samples were placed into clean, laboratory supplied containers with the appropriate preservative and placed in a cooler with ice. The samples were shipped on ice to TestAmerica under standard chain-of-custody protocol for analysis of VOCs.

Surveying

ARCADIS surveyed the elevation of the ground surface at each well location and the elevation of the top of each well casing on February 15, 2005. Elevations were measured relative to a benchmark set at 100 feet. The survey information was used to evaluate the direction of groundwater flow at the property.

Collection of Groundwater Samples

Following the development of the monitoring wells, groundwater samples were collected on January 28, 2005. Due to drawdown in the monitoring wells and the lack of sufficient groundwater recharge, conventional bailer sampling methods were used, instead of low flow sampling techniques, to sample the wells. Groundwater elevations were measured in the wells prior development and sampling. The monitoring wells

were developed using disposable bailers and allowed to recharge prior to sampling. Groundwater samples were collected for VOCs and submitted to EnChem for analysis.

Evaluation of Regulatory Standards

The WDNR has not developed soil cleanup standards for PCE or its related biodegradation daughter products. The US EPA has developed a website for calculating soil screening levels (SSLs) for the ingestion, inhalation, and groundwater pathways. The WDNR has developed a guidance document, entitled "Determining Residual Contaminant Levels Using the EPA Soil Screening Level Web Site" for using the US EPA website with WDNR default input parameters that are based on NR 700 and associated Wisconsin State Statutes. ARCADIS used the US EPA website and WDNR guidance document to calculate SSLs for the VOCs detected in soil samples at the site.

The site is currently zoned for commercial land use. However, if industrial-based SSLs are used to support closure, a soil deed restriction is required as a condition for closure. ARCADIS calculated the SSLs using the residential land use default parameters to develop SSLs that can be used without a soil deed restriction. The results of the calculations are summarized in Table 1, and the calculations are included in Appendix B.

The groundwater analytical results were compared to the groundwater quality standards promulgated in NR 140.

Investigative-Derived Waste Management

Soil cuttings generated during the drilling activities were stored on-site in 55-gallon drums prior to disposal. Groundwater generated during development and sampling activities was also stored on-site in a 55-gallon drum prior to disposal. The analytical results were reviewed to characterize the waste. The soil VOC concentrations were less than the industrial direct contact SSLs, and none of the groundwater samples contained detectable VOCs. As a result, the investigative-derived waste will be managed as a solid waste.

In accordance with the DERP requirements bids were solicited from three disposal firms. The investigative derived waste will be transported by Badger Disposal to the Environmental Quality Company facility in Wayne, Michigan for disposal. A copy of the disposal documentation is included in Appendix C.

Results

Hydrogeology

ARCADIS prepared geologic cross sections for the property based on the boring log data. The cross section locations are illustrated on Figure 4, and the cross sections are presented on Figures 5 and 6. Soils at the site consist of clays to a depth of approximately 7 feet, overlying a sand layer that is approximately 4 to 6 feet thick. A second clay layer was encountered beneath the sand layer, and extended to a depth of at least 20 feet. Discontinuous seams of sand and silty sand were observed within the clay units.

Groundwater was encountered at a depth of approximately 14 ft bls, within the lower clay unit. Groundwater elevations are presented in Table 2. Groundwater flow data for the January 2005 sampling event is presented on Figure 7. The direction of groundwater flow at the site was to the north-northeast.

Analytical Results

The following sections present the soil and groundwater analytical data collected during the investigation activities performed at the site.

Soil Analytical Results

Sixteen soil samples were collected during the investigation for VOC analysis. The analytical results are presented in Table 1, and summarized on Figure 8. A copy of the laboratory report is included in Appendix D.

In general, low concentrations of VOCs were detected in the soil samples. The primary constituent of interest was PCE. During the 2002 investigation, the PCE analytical results ranged from nondetect to 400 micrograms per kilogram ($\mu\text{g}/\text{kg}$), suggesting the presence of limited soil impacts. One of the purposes of the 2005 investigation was to define the lateral extent of these low-level concentrations. However, higher concentrations of PCE were detected in the soil samples collected in January 2005. The soil sample collected from MW-1, located on the north side of the property, contained PCE at a concentration of 2,800 $\mu\text{g}/\text{kg}$. The soil sample collected from MW-2 contained PCE at a concentration of 3,700 $\mu\text{g}/\text{kg}$, the highest concentration detected at the property. The soil sample collected from MW-3, along the south side of the property did not contain detectable VOCs, defining the lateral extent of impacted soil to the south.

The soil analytical results from MW-1 and MW-2 were unexpected, given the low VOC concentrations detected in 2002 and the locations of the 2005 borings. Monitoring Well MW-1 is located near the storefront entrance; dry cleaning solvent is delivered to the south side of the building. Monitoring Well MW-2 was installed approximately 10 feet from GP-103, yet the PCE concentration at in the soil sample from MW-2 is nearly an order of magnitude higher than was detected at GP-103. Further, the soil samples collected from adjacent to the dry cleaning equipment contained among the lowest PCE concentrations detected at the property. The soil analytical results indicate that PCE is present in sporadic locations across the property, and is not indicative of a definitive source area. Further investigation is not warranted, as the soil data indicates that the concentrations detected at MW-1 and MW-2 are limited in extent.

The soil analytical data was also compared to the SSLs. The results of the comparison are presented in Table 1. In summary, all but two of the soil samples contained VOCs at concentrations less than the ingestion or inhalation SSLs. The soil samples collected from MW-1 and MW-2 contained PCE at concentrations higher than the ingestion and inhalation SSLs. It is noted that these samples were collected at a depth of 10 to 12 ft bls. Soil impacts located at depths greater than 4 ft bls are not considered a direct contact risk. Further, the soil samples collected from beneath the building contained VOCs at concentrations well below the inhalation SSLs. Although the land use at the property is commercial, the SSLs were calculated using residential default input parameters. It is noted that none of the samples contain VOCs at concentrations exceeding the industrial SSLs for ingestion and inhalation. Based on the VOC results and sample depths, the affected soils at the property do not pose an ingestion or inhalation risk. Thus, active remediation or the use of engineered barriers is not warranted to address these potential exposure pathways.

Eleven soil samples contained PCE at concentrations exceeding the groundwater migration SSL of 4.1 µg/kg. As described in the following section, the groundwater data was used to assess the soil-to-groundwater migration risk.

Groundwater Analytical Results

Groundwater samples were collected from the temporary wells on September 12, 2002 and from the monitoring wells on January 28, 2005. A summary of the groundwater sample analytical results is presented in Table 3. The laboratory analytical results are attached in Appendix D.

Three groundwater samples were collected during the September 2002 sampling event. Only one sample, from GP-103, contained detectable VOCs. The groundwater sample collected from GP-103 contained one compound, PCE. The detected concentration of PCE was 2.9 micrograms per liter ($\mu\text{g/L}$), which is less than the NR 140 Enforcement Standard (ES) but greater than the NR 140 Preventive Action Limit (PAL).

None of the groundwater samples collected from the monitoring wells in January 2005 contained detectable VOCs. It is noted that Monitoring well MW-3 was installed approximately 15 feet to the south and east of GP-103. The groundwater data indicates that the lateral extent of groundwater impacts is defined, and is limited to the immediate area of GP-103.

As discussed earlier, the soil samples collected from MW-1 and MW-2 contained PCCE at concentrations exceeding the groundwater migration SSL. Even though the soil samples collected from these locations contained PCE at concentrations up to 3,720 $\mu\text{g/kg}$, the groundwater samples from MW-1 and MW-2 did not contain detectable concentrations of VOCs. These results indicate that the VOCs in soil are limited in extent and are not partitioning from soil to groundwater. The groundwater data demonstrates that the VOC concentrations in soil are protective of groundwater quality.

Evaluation of Utility Corridors

The locations of the utilities near the property are depicted on Figure 3. Natural gas and water enter the building from the north, from mains beneath Center Street. The sewer lateral extends south from the building to the sewer main that runs beneath the alley. Electrical and communication service enters the building from an overhead line along the south of the building.

The underground utilities are expected to be present at a depth of 4 to 6 feet. These utilities are located above the water table, and are not expected to serve as migration conduits. It is also noted that no groundwater impacts were identified at the property, further limiting the potential for off-site migration.

Summary of Findings

The following summarizes the activities conducted at the site, and the results of the investigation:

- Soil and groundwater investigation activities have been performed at the site by ARCADIS during 2002 and 2005.
- The soil analytical data indicates that low-level PCE impacts are generally present at the property. Two soil samples collected in January 2005 contained higher than anticipated concentrations of PCE, as these samples were collected to define the lateral extent of soil impacts. In contrast, soil samples collected from adjacent to the dry cleaning equipment did not contain elevated concentrations of PCE. The soil data suggests that VOCs are sporadically distributed across the property, and are not indicative of a definitive source area.
- Only two of the soil samples contained PCE at concentrations exceeding the inhalation or ingestion SSLs. These samples were collected at a depth greater than 4 ft bls, and should therefore not pose a direct contact risk. Thus, the lateral extent of impacted soil is defined with respect to these SSLs. Active remediation or engineered barriers is not warranted based on these SSLs. Eleven soil samples contained PCE at concentrations exceeding the groundwater migration SSL. The groundwater data was used to further assess this pathway.
- The extent of impacted groundwater has been defined. One sample collected from a temporary well contained PCE at a concentration above the NR 140 PAL. None of the samples collected from the monitoring wells contained detectable VOCs.
- Based on the groundwater monitoring data, the PCE-affected soils are not adversely affecting groundwater quality. Based on the absence of VOCs in groundwater, the existing VOC concentrations in soil are sufficiently protective of groundwater.

Based on the absence of detectable VOCs in groundwater and the generally low concentrations of VOCs in soil, sufficient investigation has been completed at the property.

Evaluation of Closure Criteria

As discussed above, the VOC concentrations in soil do not exceed the inhalation or ingestion SSLs, and are not affecting groundwater quality. VOCs are not present in the groundwater. Based on these results, active remediation is not warranted and sufficient data exists to evaluate pursuit of project closure. Because there are no NR 140 ES exceedances, the requirements of NR 726.05(2)(b) are not applicable. The site conditions were evaluated using the closure criteria for groundwater established in NR

726.05(3)(a), and the closure criteria for soil established in NR 726.05(3)(b). The following sections present an evaluation of the site activities with respect to the NR 726 closure requirements.

Compliance with Groundwater Standards

The following closure criteria for groundwater are established in NR 726.05(3)(a)1, 2, 3 and 4:

- Demonstration that the site investigation has been completed.
- Documentation of remedial action.
- Completion of quarterly sampling, where applicable.
- Registration of the site on the Geographic Information System (GIS) of closed remedial sites, where applicable.

Only one of three groundwater samples collected from the temporary wells contained a constituent at a concentration above the NR 140 PALs, and none of the groundwater samples collected from the three monitoring wells contained detectable VOCs. The groundwater data supports the conclusion that the site investigation has been completed with respect to evaluating groundwater quality. No interim or remedial actions are warranted, as NR 140 groundwater quality exceedances are not present. Quarterly groundwater monitoring is also not warranted, as there were no detected VOCs in the groundwater samples from the monitoring wells. Registration of the site on the GIS registry of closed remediation sites is also not warranted, since there are no NR 140 groundwater quality exceedances.

In summary, the investigation results demonstrate that groundwater at the site is in compliance with NR 140 groundwater quality standards. The groundwater at the site meets the closure criteria established in NR 726.05(3)(a).

Compliance with Soil Standards

The following closure criteria for soil are established in NR 726.05(3)(b)1, 2, 3, and 4:

- Demonstration that the site investigation has been completed.
- Documentation of remedial action.

- Demonstration that the remedial action taken satisfies the requirements of NR 720 and NR 722.
- Registration of the site on the GIS of closed remedial sites, where applicable

The following sections provide a description of how these criteria have been satisfied at the site.

Completeness of Site Investigation

During the site investigation activities, low-level PCE was detected in most of the soil samples collected from the site. Only two soil samples contained VOCs at concentrations over the ingestion or inhalation SSLs, and both samples were collected from a depth greater than 4 ft bls. Although the land use at the property is commercial, the SSLs were calculated using residential default input parameters. It is noted that none of the samples contain VOCs at concentrations exceeding the industrial SSLs for ingestion and inhalation.

Eleven soil samples contained VOCs at concentrations greater than the groundwater migration SSL, which is independent of land use. As noted above, none of the groundwater samples collected from the monitoring wells contained detectable VOCs, including two wells that were installed in areas with the highest concentrations of PCE.

The groundwater monitoring results indicate that the concentrations of VOCs present at the property are not adversely impacting groundwater quality. Thus, the detected soil concentrations are in compliance with the groundwater migration pathway. Further, groundwater is not used as a potable water source at the property. Based on the SSL calculations and the groundwater monitoring data, the investigation activities performed to date have sufficiently defined the extent of the soil impacts at the site.

Summary of Remedial Actions

Because the VOC concentrations in soil do represent a risk based on their depth and concentrations, active remedial measures are not warranted. There are no exceedances of the ingestion or inhalation SSLs at depths of 4 ft bls or less. Thus, engineered barriers or institutional controls are not warranted. Natural attenuation should be effective at addressing the identified soil impacts.

Compliance with NR 720

As previously discussed, an Residual Contaminant Level has not been established by the WDNR in NR 720 for the detected constituents. SSLs were developed for the site utilizing the US EPA website and WDNR guidance document. The concentration of PCE detected in eleven samples exceeded the groundwater migration SSL. Only two of the soil sample concentrations exceeded the ingestion or inhalation SSLs. However, these samples are located at a depth greater than 4 ft bls.

NR 720 allows the use of performance standards for addressing impacted soil. The identified soil impacts are limited in extent, and contain relatively low concentrations of PCE. Further, none of the groundwater samples collected from the monitoring wells contained detectable VOCs. Natural attenuation will be used as the performance-based standard for addressing the soil impacts. The use of this performance standard is based on the absence of PCE at concentrations above the ingestion and inhalation SSLs within the 0 to 4 foot depth interval, and the absence of groundwater concentrations above the ESs. Natural attenuation should be effective at managing the limited soil impacts and be protective of human health and the environment.

Geographic Information System Registry

Although the groundwater samples from the monitoring wells did not contain detectable concentrations of VOCs, soil samples collected from the property did exceed the groundwater migration SSL, and two soil samples did exceed the ingestion and inhalation SSLs. In accordance with NR 726.05(3)(b)4, the site will be recorded in the Soil GIS registry for closed remediation sites.

Recommendations

In summary, no groundwater impacts are present at the property, and the residual soil constituents at the site do not present a significant threat to human health, safety, welfare, or the environment. Therefore, the closure criteria established in NR 726 have been satisfied.

Based upon the data presented in this report, ARCADIS recommends closure of the site in accordance with NR 726. ARCADIS has completed a WDNR "*Case Summary and Close Out Form*" (WDNR Form 4400-202) for this project. A copy of the completed form was enclosed as a separate attachment to this report, using documentation (i.e., tables and figures) included in this report. A soil GIS registry packet has also been completed, and is enclosed as a separate document.

This report has been prepared in accordance with NR 700. A submittal certification, prepared in accordance with NR 712, is enclosed in Appendix E.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-1	GP-2	GP-101		GP-102		GP-103	
Sample Depth (ft bls)	6-8	4-6	7-11	11-15	4-8	12-16	8-12	12-16
Sample Date	02/07/02	02/07/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02
VOCs								
cis-1,2-Dichloroethene	53	<10	<25	<25	<25	<25	<25	<25
Fluorotrichloromethane	NA	NA	<25	<25	<25	<25	<25	<25
Methylene Chloride	21 Q	14 Q	<25	<25	<25	<25	<25	<25
Naphthalene	NA	NA	50 Q	<25	<25	<25	<25	<25
Tetrachloroethene	51	240	<25	<25	150	<25	400	<25

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

53 Concentration exceeds the Soil Screening Level for the protection of groundwater.

italics Concentration exceeds the soil screening level for vapor inhalation.

Bold Concentration exceeds the soil screening level for ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-104		GP-105		MW-1	MW-2	MW-3	SSL
	4-6	8-9	8-12	12-16	10-12	10-12	10-12	
Sample Depth (ft bls)								
Sample Date	09/12/02	09/12/02	09/12/02	09/12/02	01/19/05	01/19/05	01/19/05	Ingestion
VOCs								
cis-1,2-Dichloroethene	<25	<25	<25	<25	<29	<28	<31	156,000
Fluorotrichloromethane	61	<25	<25	<25	<29	<28	<31	4,690,000
Methylene Chloride	<25	<25	<25	<25	72	96	<62	8,520
Naphthalene	<25	<25	<25	<25	<29	<28	<31	313,000
Tetrachloroethene	41 Q	45 Q	130	<25	2,800	3,720	<31	1,230

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

□ Concentration exceeds the Soil Screening Level for the protection of groundwater.

italics Concentration exceeds the soil screening level for vapor inhalation.

Bold Concentration exceeds the soil screening level for ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL	
	Vapor	Groundwater
Sample Depth (ft bls)	Inhalation	Protection
VOCs		
cis-1,2-Dichloroethene	1,300,000	27
Fluorotrichloromethane	410,000	9,200
Methylene Chloride	2,700	0.98
Naphthalene	68,000	340
Tetrachloroethene	2,100	4.1

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

□ Concentration exceeds the Soil Screening Level for the protection of groundwater.

italics Concentration exceeds the soil screening level for vapor inhalation.

Bold Concentration exceeds the soil screening level for ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

ARCADIS

Table 2. Static Groundwater Elevation Data, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa,

Monitoring Well	Ground Surface Elevation (ft msl)	Top-of-Casing Elevation (ft msl)	Screened Interval (ft msl)	Measurement Date	Depth to Water (feet)	Water Level Elevation (ft msl)
MW-1	734.85	733.91	723.85 - 713.85	1/28/05	16.53	717.38
MW-2	733.73	733.01	723.73 - 713.73	1/28/05	14.42	718.59
MW-3	733.49	733.13	723.49 - 713.49	1/28/05	14.61	718.52

* Ground surface elevation is based USGS elevation datum and standard leveling techniques.
ft msl Feet above mean sea level.

ARCADIS

Table 3. Groundwater Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-102	GP-103	GP-105	MW-1	MW-2	MW-3	NR 140	NR 140
Sample Date	09/12/02	09/12/02	09/12/02	01/28/05	01/28/05	01/28/05	PAL	ES
VOCs								
Tetrachloroethene	<0.63	2.9	<0.63	<0.50	<0.50	<0.50	0.5	5

Constituent concentrations are reported in micrograms per liter (µg/L).

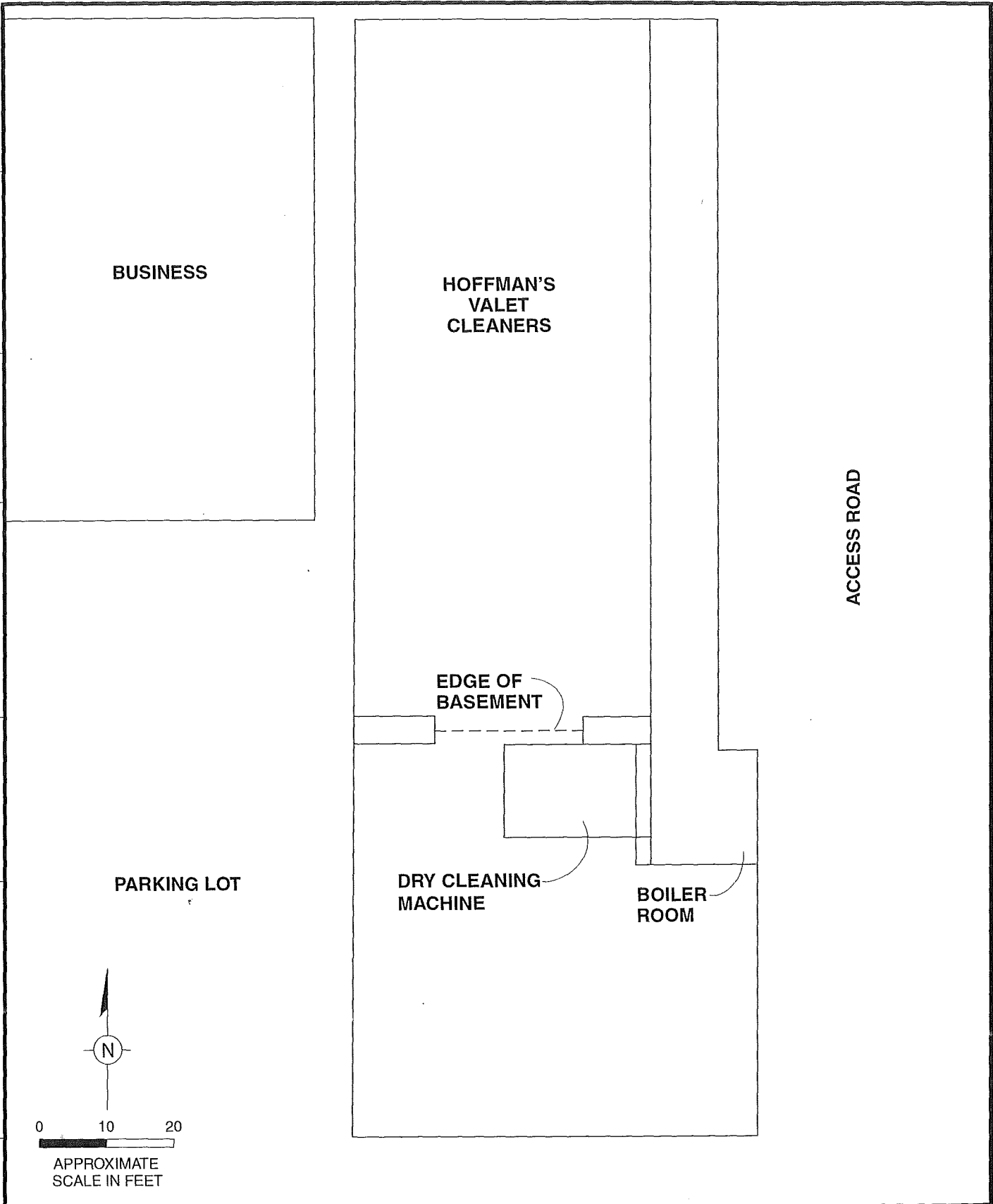
 Concentration exceeds the NR 140 PAL.

ID Identification.

ES NR 140 Enforcement Standard.

PAL NR 140 Preventive Action Limit.

DWG DATE: 11FEB05 | PN: HOFFMANW10943WAWATOSA | FILE NO.: GRAPHICS | DRAWING: SITE LAYOUT.AI | CHECKED: EAB | APPROVED: | DRAFTER: LMB

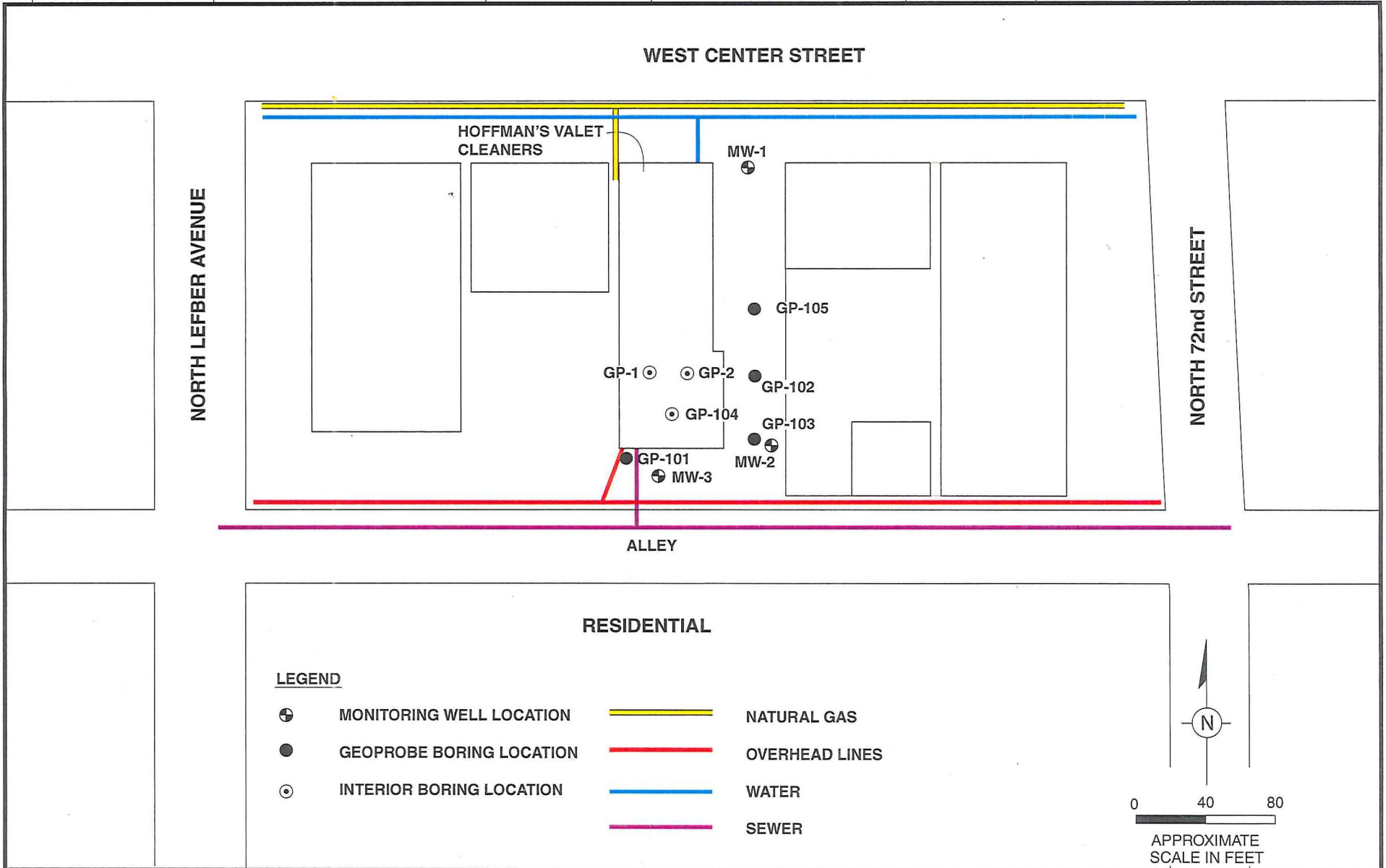


SITE LAYOUT

HOFFMAN'S VALET CLEANERS
WAWATOSA, WISCONSIN

FIGURE

2



SOIL BORING AND MONITORING WELL LOCATIONS

FIGURE



HOFFMAN'S VALET CLEANERS
WAWWATOSA, WISCONSIN

3

ARCADIS

Table 3. Groundwater Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-102	GP-103	GP-105	MW-1	MW-2	MW-3	NR 140	NR 140
Sample Date	09/12/02	09/12/02	09/12/02	01/28/05	01/28/05	01/28/05	PAL	ES
VOCs								
Tetrachloroethene	<0.63	2.9 *	<0.63	<0.50	<0.50	<0.50	0.5	5

Constituent concentrations are reported in micrograms per liter (µg/L).

 Concentration exceeds the NR 140 PAL.

ID Identification.

ES NR 140 Enforcement Standard.

PAL NR 140 Preventive Action Limit.

ARCADIS

Table 2. Static Groundwater Elevation Data, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa,

Monitoring Well	Ground Surface Elevation (ft msl)	Top-of-Casing Elevation (ft msl)	Screened Interval (ft msl)	Measurement Date	Depth to Water (feet)	Water Level Elevation (ft msl)
MW-1	734.85	733.91	723.85 - 713.85	1/28/05	16.53	717.38
MW-2	733.73	733.01	723.73 - 713.73	1/28/05	14.42	718.59
MW-3	733.49	733.13	723.49 - 713.49	1/28/05	14.61	718.52

* Ground surface elevation is based USGS elevation datum and standard leveling techniques.
 ft msl Feet above mean sea level.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL	
	Vapor Inhalation	Groundwater Protection
VOCs		
cis-1,2-Dichloroethene	1,300,000	27
Fluorotrichloromethane	410,000	9,200
Methylene Chloride	2,700	0.98
Naphthalene	68,000	340
Tetrachloroethene	2,100	4.1

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

□ Concentration exceeds the Soil Screening Level for the protection of groundwater.

italics Concentration exceeds the soil screening level for vapor inhalation.

Bold Concentration exceeds the soil screening level for ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-104		GP-105		MW-1	MW-2	MW-3	SSL Ingestion
	4-6	8-9	8-12	12-16	10-12	10-12	10-12	
Sample Date	09/12/02	09/12/02	09/12/02	09/12/02	01/19/05	01/19/05	01/19/05	
VOCs								
cis-1,2-Dichloroethene	<25	<25	<25	<25	<29	<28	<31	156,000
Fluorotrichloromethane	61	<25	<25	<25	<29	<28	<31	4,690,000
Methylene Chloride	<25	<25	<25	<25	72	96	<62	8,520
Naphthalene	<25	<25	<25	<25	<29	<28	<31	313,000
Tetrachloroethene	41 Q	45 Q	130	<25	2,800	3,720	<31	1,230

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

 Concentration exceeds the Soil Screening Level for the protection of groundwater.

italics Concentration exceeds the soil screening level for vapor inhalation.

Bold Concentration exceeds the soil screening level for ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-1	GP-2	GP-101		GP-102		GP-103	
Sample Depth (ft bls)	6-8	4-6	7-11	11-15	4-8	12-16	8-12	12-16
Sample Date	02/07/02	02/07/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02
VOCs								
cis-1,2-Dichloroethene	53	<10	<25	<25	<25	<25	<25	<25
Fluorotrichloromethane	NA	NA	<25	<25	<25	<25	<25	<25
Methylene Chloride	21 Q	14 Q	<25	<25	<25	<25	<25	<25
Naphthalene	NA	NA	50 Q	<25	<25	<25	<25	<25
Tetrachloroethene	51	240	<25	<25	150	<25	400	<25

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

53 Concentration exceeds the Soil Screening Level for the protection of groundwater.

italics Concentration exceeds the soil screening level for vapor inhalation.

Bold Concentration exceeds the soil screening level for ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

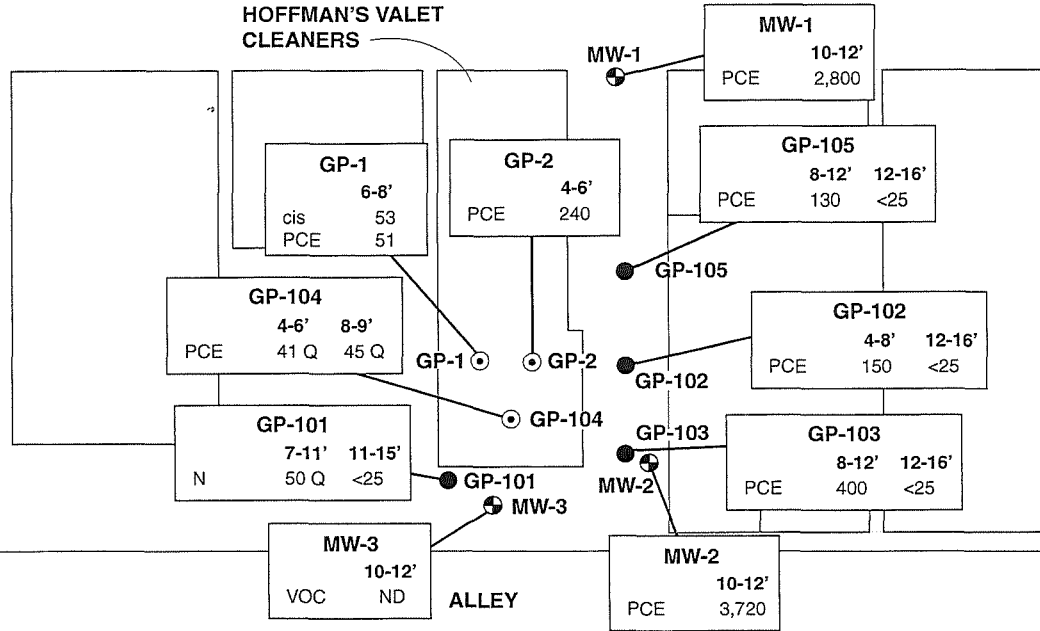
VOCs Volatile organic compounds.

WEST CENTER STREET

NORTH LEFBER AVENUE

NORTH 72nd STREET

HOFFMAN'S VALET CLEANERS



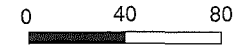
RESIDENTIAL

LEGEND

- ⊕ MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION

- cis cis-1,2-Dichloroethene
- PCE Tetrachloroethene
- N Naphthalene
- VOC Volatile Organic Compounds
- ND Not Detected
- Q Detected at a concentration between the limit detection and limit of quantitation.

Concentrations are expressed as micrograms per kilogram.



APPROXIMATE SCALE IN FEET



SOIL ANALYTICAL RESULTS

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

FIGURE

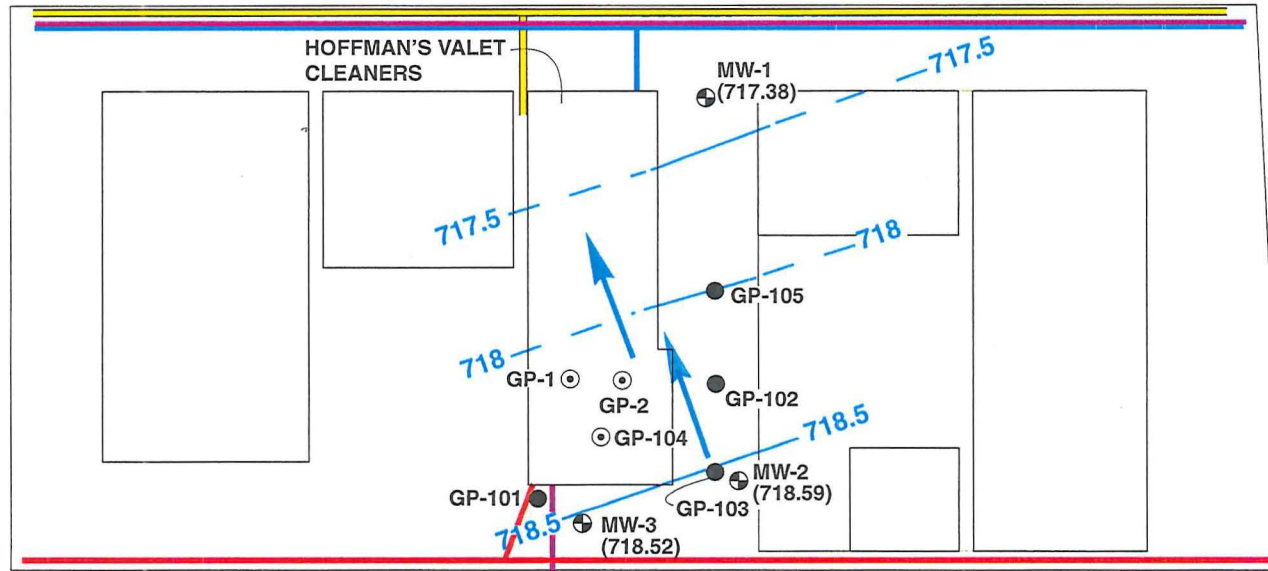
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WEST CENTER STREET

NORTH LEFBER AVENUE

NORTH 72nd STREET

HOFFMAN'S VALET CLEANERS

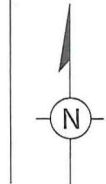


ALLEY

RESIDENTIAL

LEGEND

- ⊕ MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION
- NATURAL GAS
- OVERHEAD LINES
- WATER
- SEWER
- (718.52) DEPTH TO GROUNDWATER (ft msl)
- ft msl FEET ABOVE MEAN SEA LEVEL
- 718.5 — GROUNDWATER ELEVATION CONTOUR



0 40 80

APPROXIMATE SCALE IN FEET



POTENTIOMETRIC SURFACE MAP
JANUARY 28, 2005

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

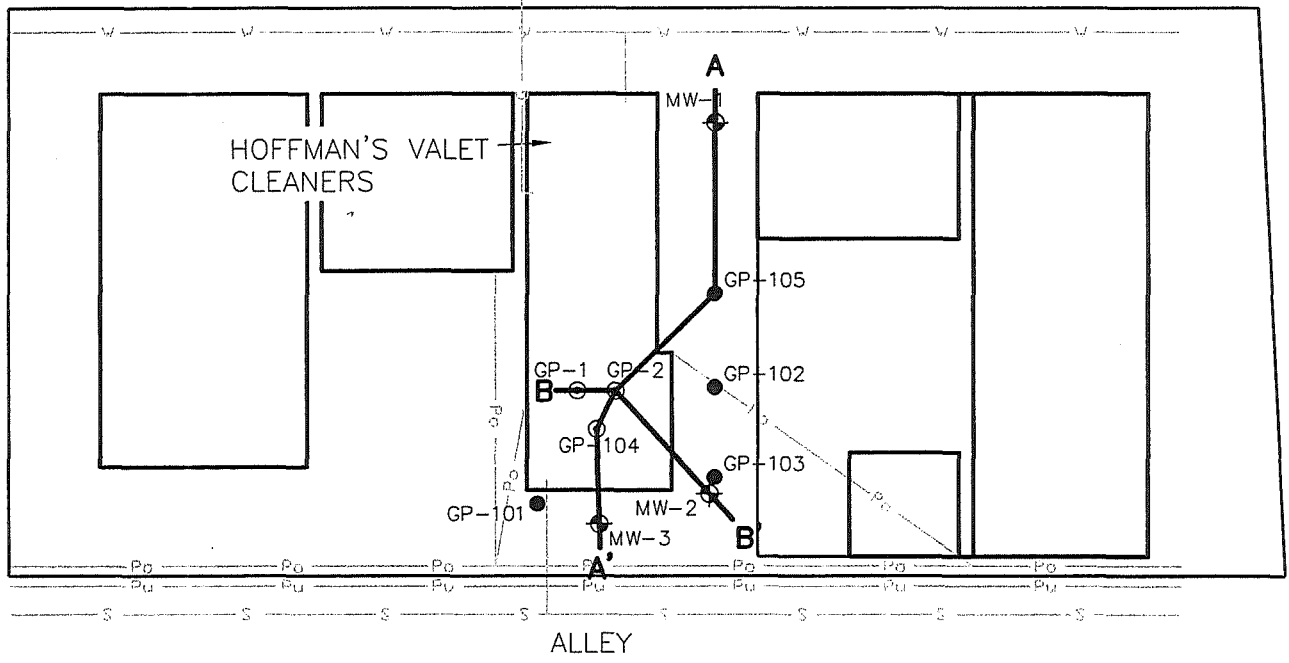
FIGURE

7

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 Acad Version : R16.1s (LUS Tech)
 © 2005 ARCADIS G&M, Inc.
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NORTH LEFEBER AVENUE

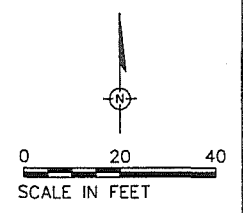
NORTH 72nd STREET



RESIDENTIAL

LEGEND

- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION
- ⊕ MONITORING WELL LOCATION
- G— GAS UTILITY LINE
- Po— POWER OVERHEAD LINE
- Pu— POWER UNDERGROUND LINE
- S— STORM SEWER LINE
- W— WATER MAIN LINE
- A—A' GEOLOGIC CROSS-SECTION LOCATION



CROSS-SECTION LOCATIONS

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

Area Manager	M. MAIERLE
Project Director	E. BUC
Task Manager	B. MAILLET
Technical Review	A. MUMPY



126 North Jefferson Street, Suite 400
 Milwaukee, Wisconsin 53202
 Tel: 414-276-7742 Fax: 414-276-7603
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Project Number	WI000943.0002
Drawing Date	3/11/05
Figure	1

DRAFTER: LMB

APPROVED:

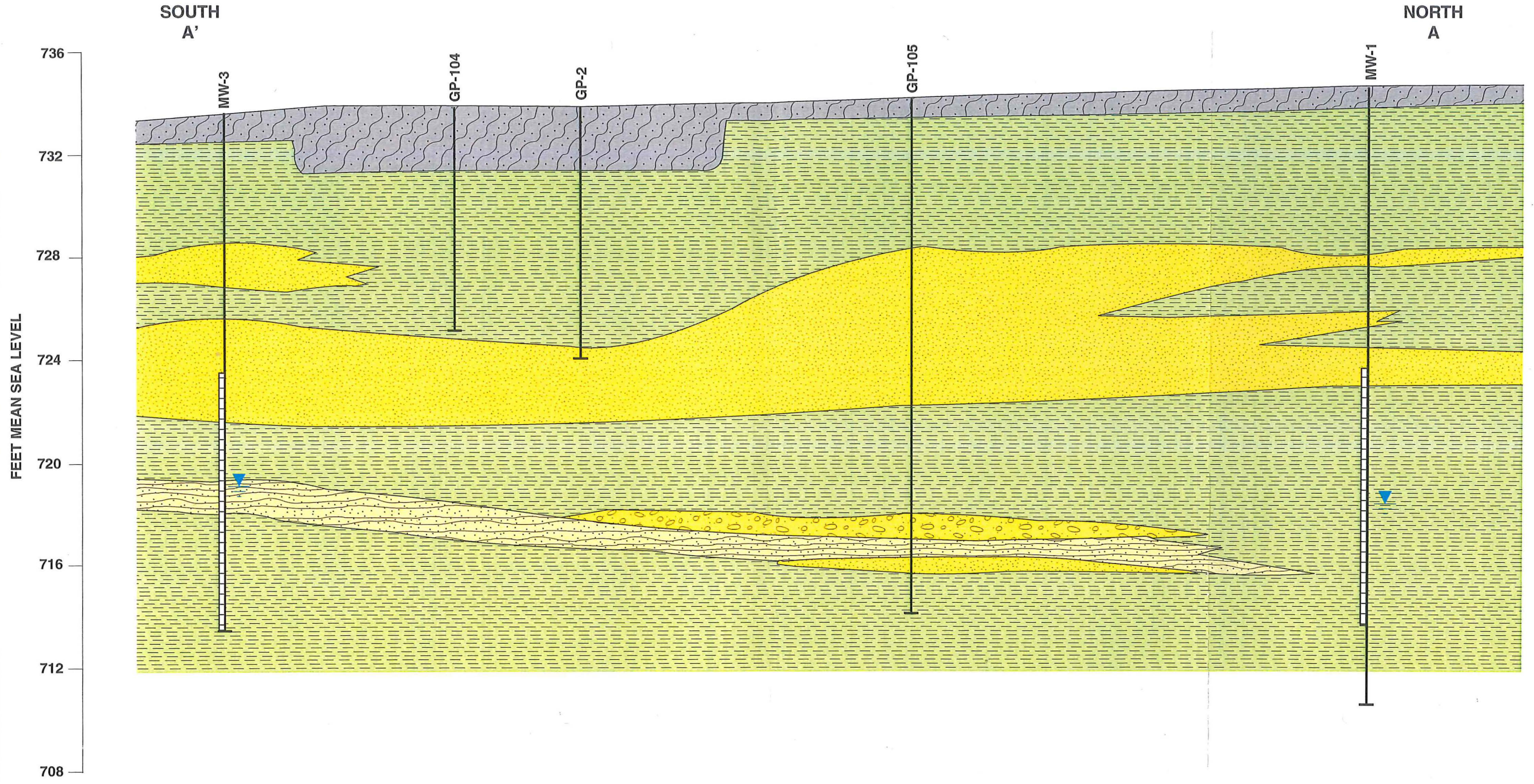
CHECKED: BMJ

DRAWING: XSEC_A'A.A1

FILE NO.: GRAPHICS

PN: HOFFMANW10943WAUWATOSA

DWG DATE: 21MA405



EXPLANATION



CLAY - with variable silt content, traces of sand.



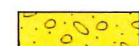
FILL/CONCRETE



SAND - (predominantly fine) silty in places.



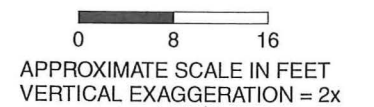
SANDY SILT



SAND & GRAVEL



WELL/BORING LOCATION



NORTH/SOUTH GEOLOGIC CROSS-SECTION

FIGURE

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

5

DRAFTER: LMB

APPROVED:

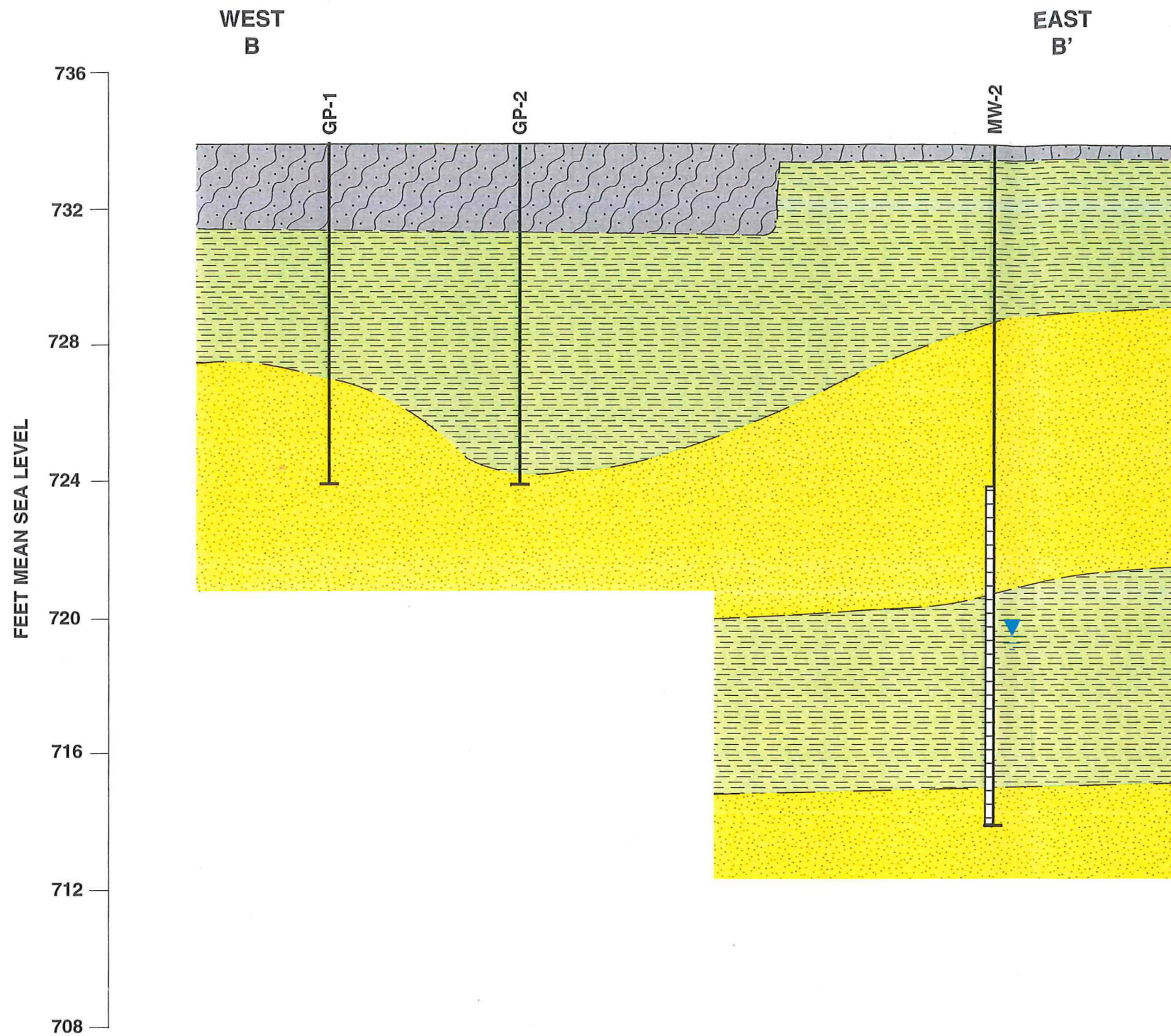
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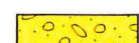
FILE NO.: GRAPHICS

PN: HOFFMANW0943WAUWATOSA

DWG DATE: 11MA405



EXPLANATION

- | | | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
|  | CLAY - with variable silt content, traces of sand. |  | FILL/CONCRETE |
|  | SAND - (predominantly fine) silty in places. |  | SANDY SILT |
|  | SAND & GRAVEL | | |

WELL/BORING LOCATION



APPROXIMATE SCALE IN FEET
VERTICAL EXAGGERATION = 2x



WEST/EAST GEOLOGIC CROSS-SECTION

FIGURE

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

6

DRAFTER: LMB

APPROVED:

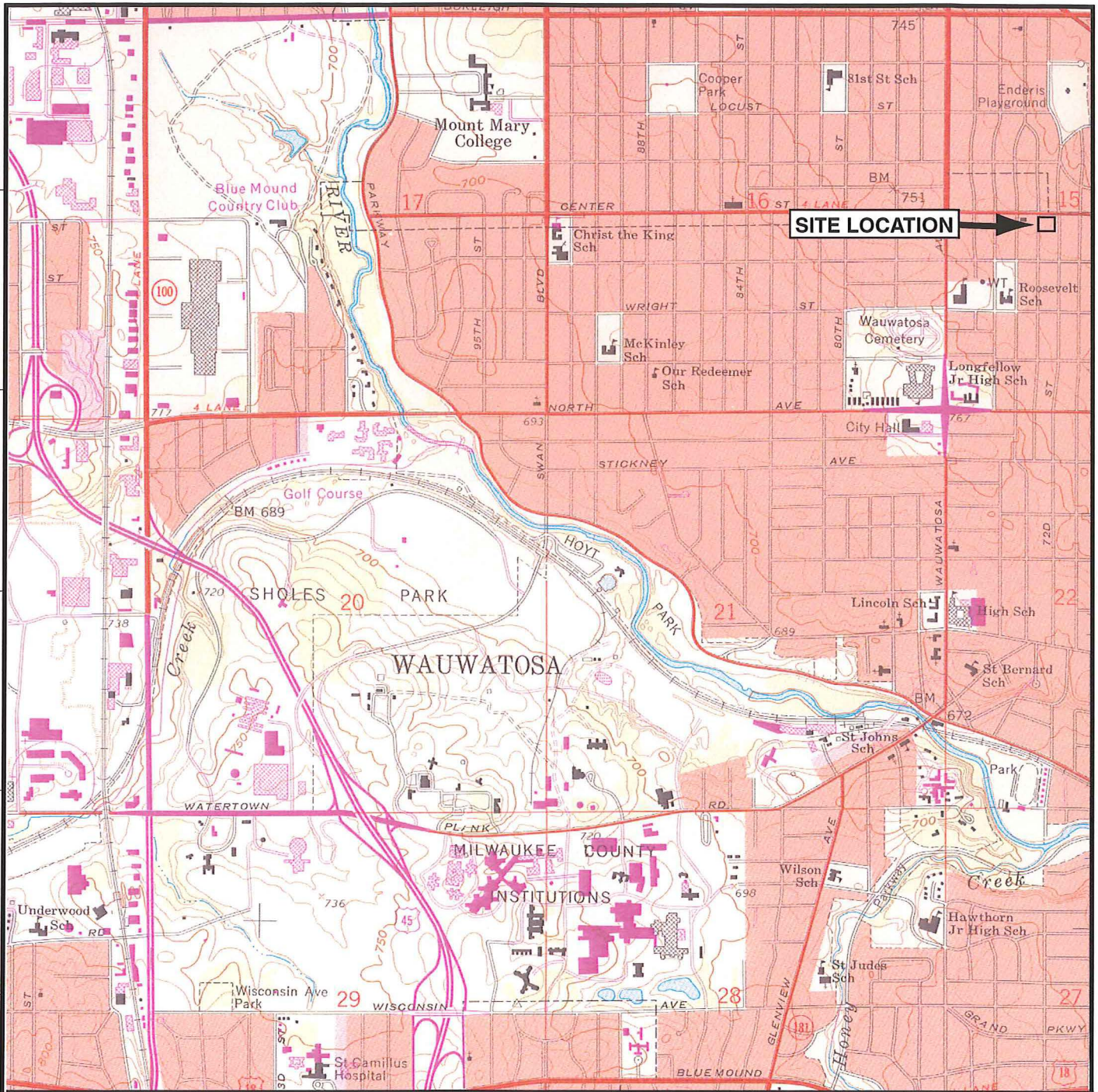
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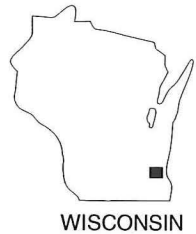
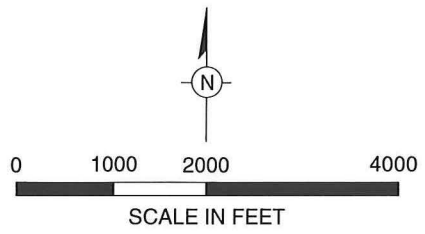
FILE NO.: GRAPHICS

PN: HOFFMANW0943\WAUWATOSA

DWG DATE: 11FEB05



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



SITE LOCATION MAP

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

FIGURE

1



DRAFTER: LMB

APPROVED:

CHECKED: EAB

DRAWING: SITE LAYOUT.AI

FILE NO.: GRAPHICS

PN: HOFFMANWI0943WAUWATOSA

DWG DATE: 11FEB05

BUSINESS

HOFFMAN'S
VALET
CLEANERS

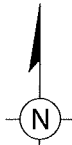
ACCESS ROAD

EDGE OF
BASEMENT

PARKING LOT

DRY CLEANING
MACHINE

BOILER
ROOM



0 10 20

APPROXIMATE
SCALE IN FEET



SITE LAYOUT

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

FIGURE

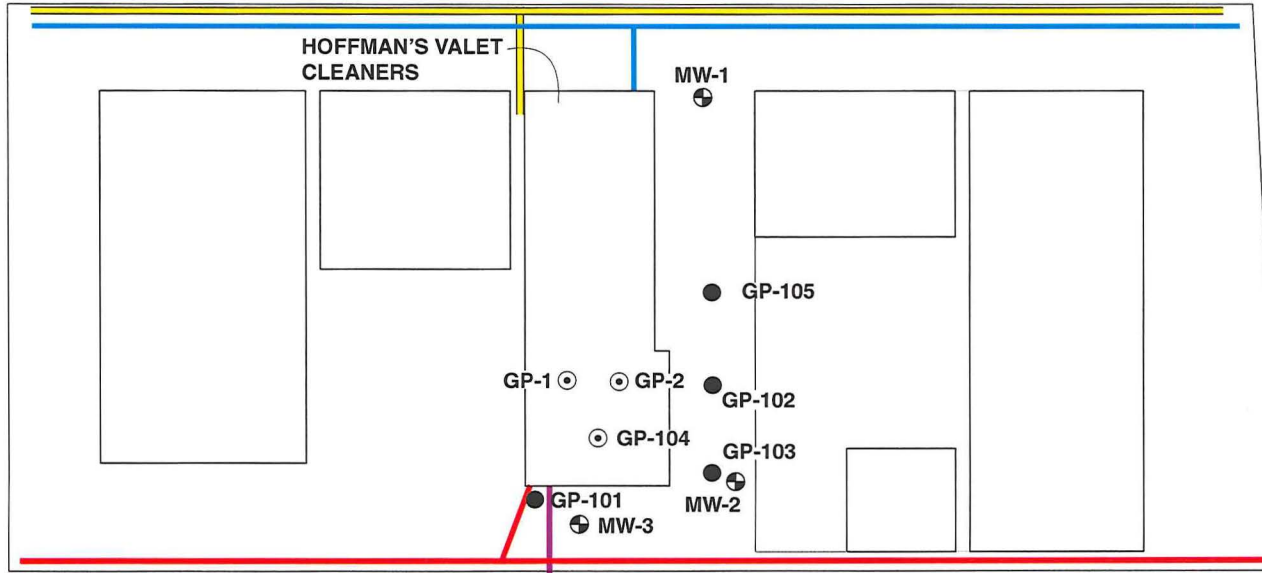
2

WEST CENTER STREET

NORTH LEFBER AVENUE

NORTH 72nd STREET

HOFFMAN'S VALET CLEANERS

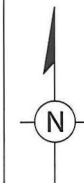


ALLEY

RESIDENTIAL

LEGEND

- ⊕ MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION
- ==== NATURAL GAS
- ==== OVERHEAD LINES
- ==== WATER
- ==== SEWER



0 40 80

APPROXIMATE SCALE IN FEET

SOIL BORING AND MONITORING WELL LOCATIONS

FIGURE



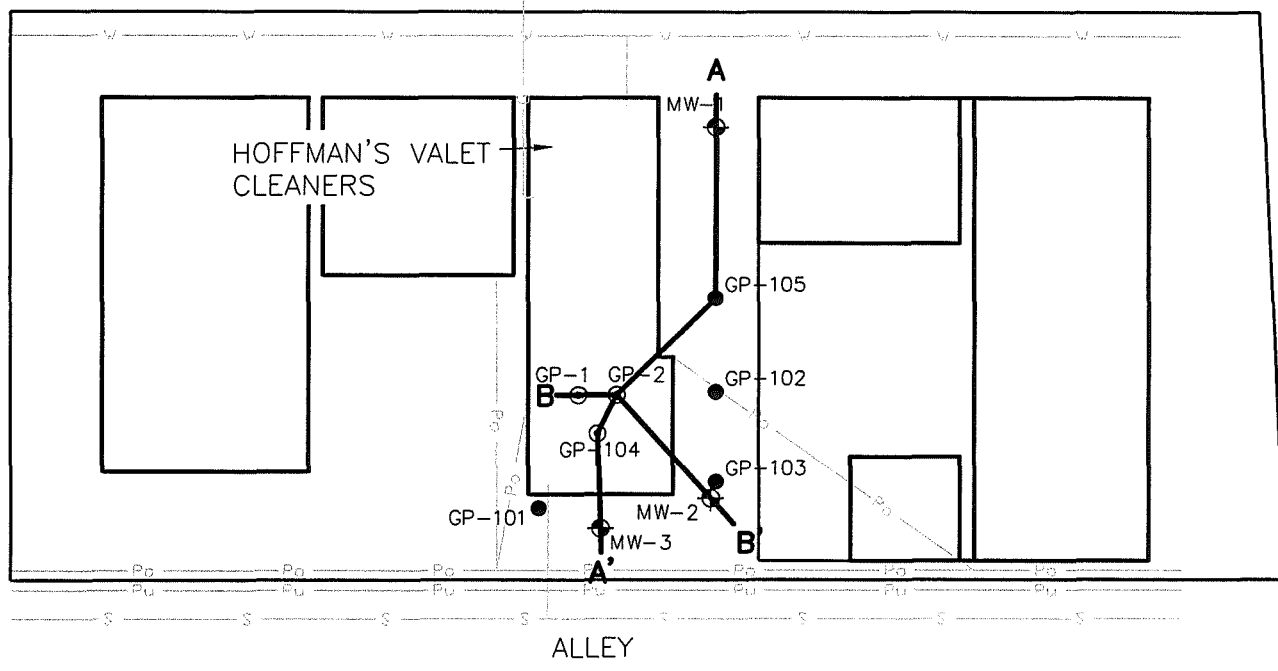
HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

3

NORTH LEFEBER AVENUE

WEST CENTER STREET

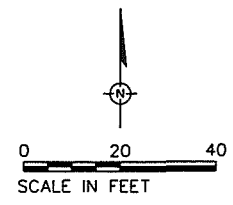
NORTH 72nd STREET



RESIDENTIAL

LEGEND

- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION
- ⊕ MONITORING WELL LOCATION
- G — GAS UTILITY LINE
- P_O — POWER OVERHEAD LINE
- P_U — POWER UNDERGROUND LINE
- S — STORM SEWER LINE
- W — WATER MAIN LINE
- A — A' GEOLOGIC CROSS-SECTION LOCATION



CROSS-SECTION LOCATIONS

**HOFFMAN'S VALET CLEANERS
 WAUWATOSA, WISCONSIN**

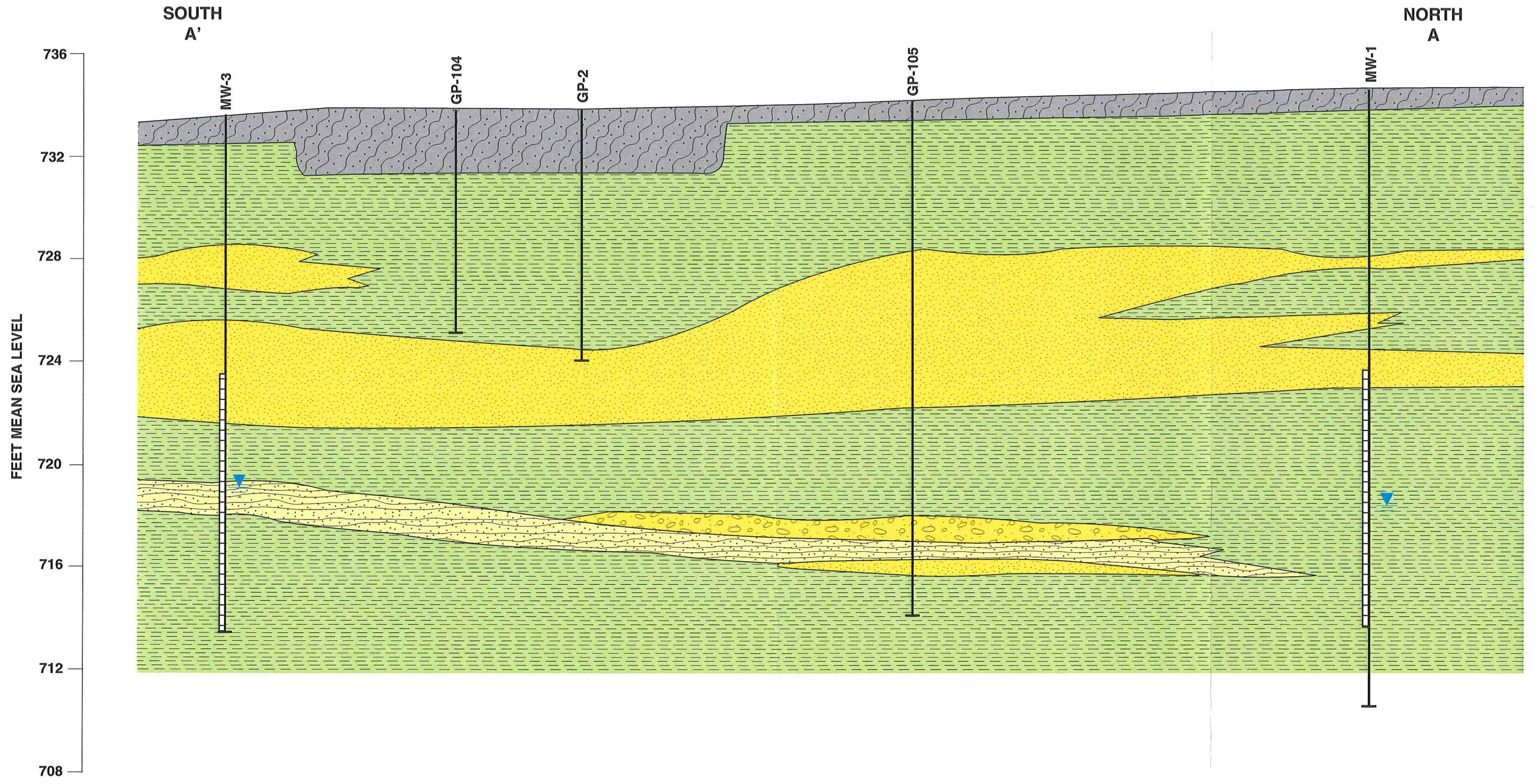
Area Manager	M. MAIERLE
Project Director	E. BUC
Task Manager	B. MAILLET
Technical Review	A. MUMPY







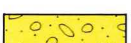
126 North Jefferson Street, Suite 400
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Project Number	WI000943.0002
Drawing Date	3/11/05
Figure	1


DWG DATE: 21MA405 | PN: HOFFMAN\10943\WAUWATOSA | FILE NO.: GRAPHICS | DRAWING: XSEC_A'A.A1 | CHECKED: BMJ | APPROVED: | DRAFTER: LMB



EXPLANATION

- | | | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
|  | CLAY - with variable silt content, traces of sand. |  | FILL/CONCRETE |
|  | SAND - (predominantly fine) silty in places. |  | SANDY SILT |
|  | SAND & GRAVEL | | |

WELL/BORING LOCATION



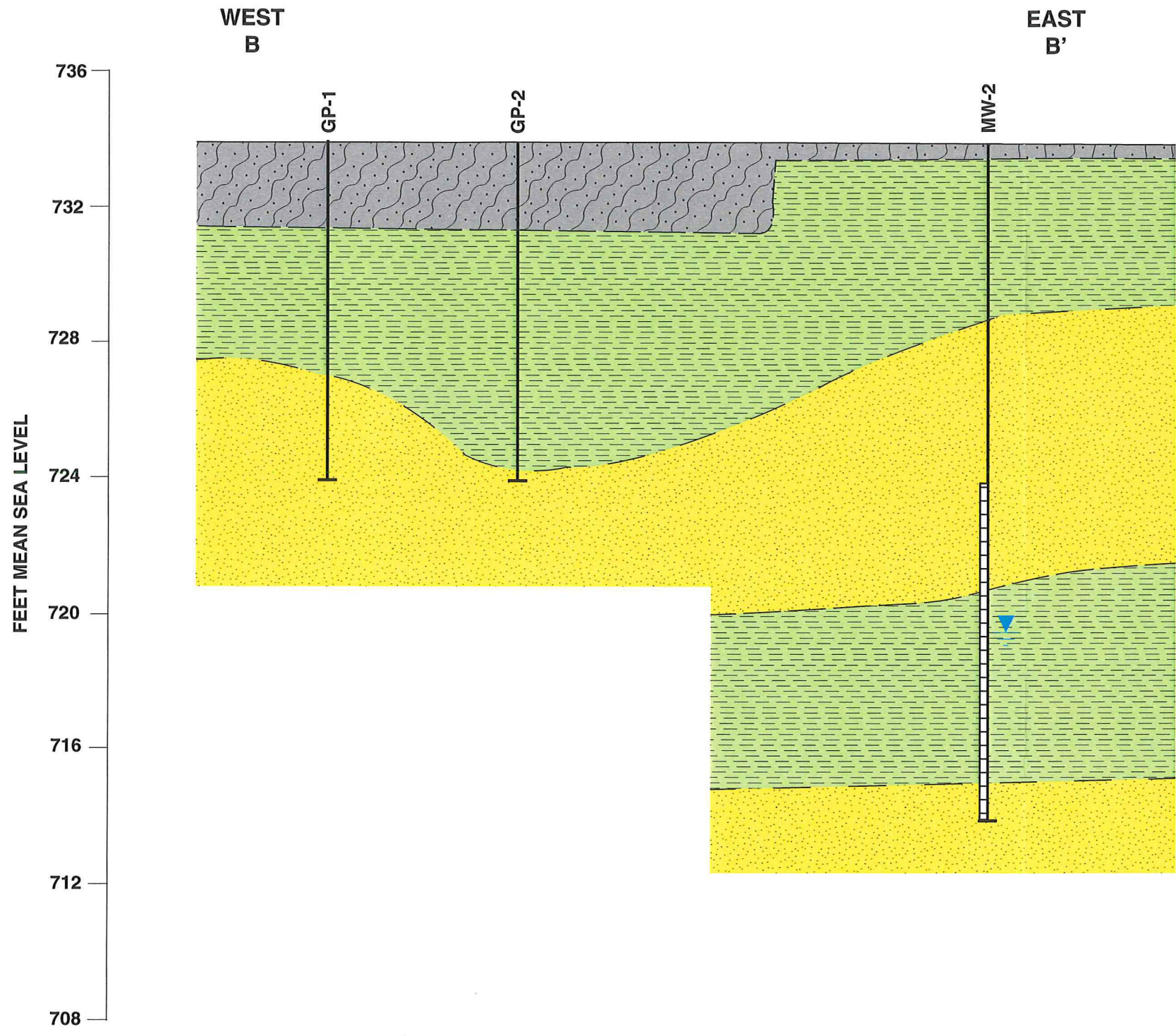

NORTH/SOUTH GEOLOGIC CROSS-SECTION

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN





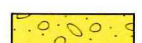
FIGURE

5


DWG DATE: 11MA405 | P.N: HOFFMAN\10943\WAUWATOSA | FILE NO.: GRAPHICS | DRAWING: XSEC_BB.AI | CHECKED: BMJ | APPROVED: | DRAFTER: LMB



EXPLANATION

- | | | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
|  | CLAY - with variable silt content, traces of sand. |  | FILL/CONCRETE |
|  | SAND - (predominantly fine) silty in places. |  | SANDY SILT |
|  | SAND & GRAVEL | | |

 **WELL/BORING LOCATION**


 APPROXIMATE SCALE IN FEET
 VERTICAL EXAGGERATION = 2x



WEST/EAST GEOLOGIC CROSS-SECTION

FIGURE

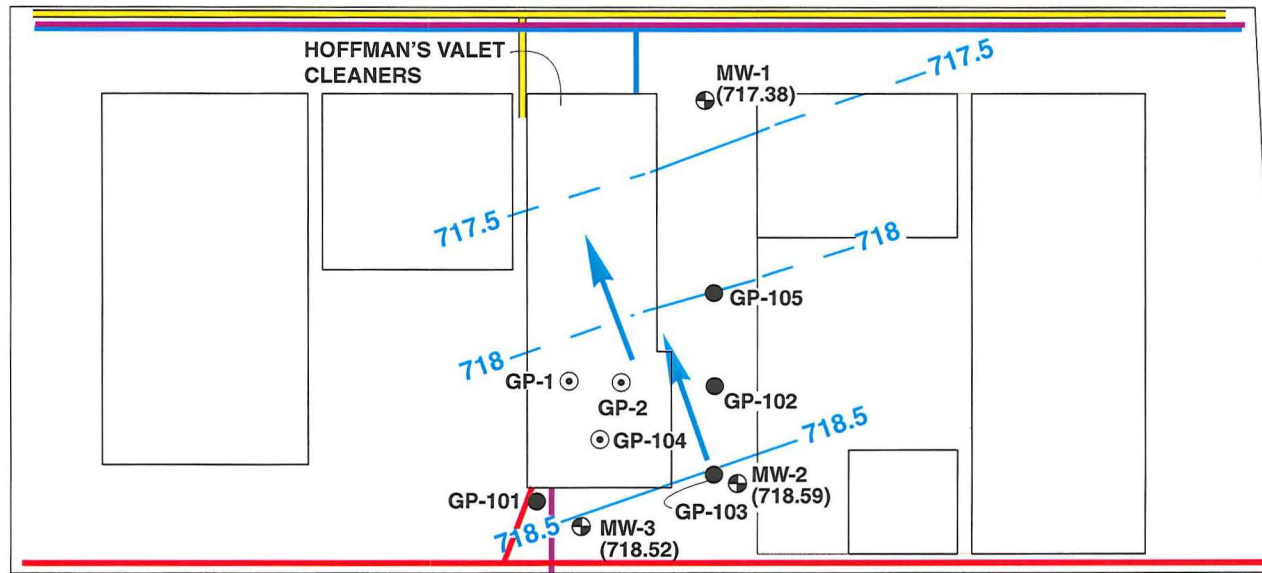
HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

6

WEST CENTER STREET

NORTH LEFBER AVENUE

NORTH 72nd STREET

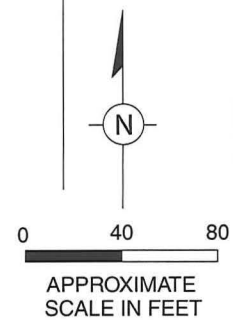


ALLEY

RESIDENTIAL

LEGEND

- ⊕ MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION
- NATURAL GAS
- OVERHEAD LINES
- WATER
- SEWER
- (718.52) DEPTH TO GROUNDWATER (ft msl)
- ft msl FEET ABOVE MEAN SEA LEVEL
- 718.5 — GROUNDWATER ELEVATION CONTOUR



POTENTIOMETRIC SURFACE MAP
JANUARY 28, 2005

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

FIGURE

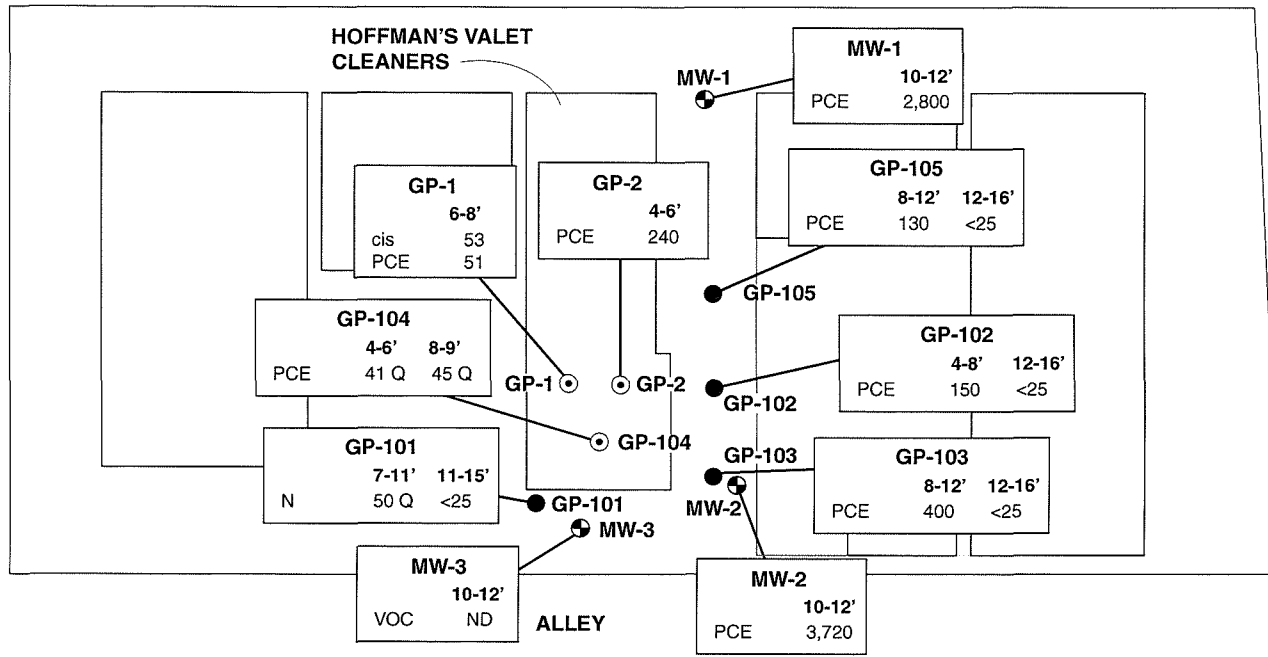
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WEST CENTER STREET

NORTH LEFBER AVENUE

NORTH 72nd STREET

HOFFMAN'S VALET CLEANERS



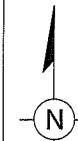
RESIDENTIAL

LEGEND

- ⊕ MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION

- cis cis-1,2-Dichloroethene
- PCE Tetrachloroethene
- N Naphthalene
- VOC Volatile Organic Compounds
- ND Not Detected
- Q Detected at a concentration between the limit detection and limit of quantitation.

Concentrations are expressed as micrograms per kilogram.



0 40 80

APPROXIMATE SCALE IN FEET



SOIL ANALYTICAL RESULTS

HOFFMAN'S VALET CLEANERS
WAUWATOSA, WISCONSIN

FIGURE

8

ARCADIS

Appendix A

Soil Boring and Monitoring
Well Construction and
Development Forms

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other **7215 W. Center Street**

Facility/Project Name: **Hoffman's Valet** License/Permit/Monitoring Number: _____ Boring Number: **MW-1**

Boring Drilled By: Name of crew chief (first, last) and Firm
 First Name **Ryan/Ted** Last Name _____ Date Drilling Started: **1/19/05** Date Drilling Completed: **1/19/05** Drilling Method: **Hollow Stem Auger**
 Firm **Giles Engineering Associates**


WI Unique Well No. _____ DNR Well ID No. _____ Well Name _____ Final Static Water Level _____ Surface Elevation **NA** Feet MSL Borehole Diameter **8** inches

Local Grid Origin (estimated:) or Boring Location
 State Plane _____ N, _____ E S /C /N Lat _____ N E
 _____ 1/4 of **SW** 1/4 of Section **15**, T **7** N, R **21** E W Long _____ Feet S _____ Feet W

Facility ID _____ County: **Milwaukee** County Code: **41** Civil Town/City/or Village: **Wauwatosa**

Sample Number and Type	Length All. & 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					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	12	19 23	0	0-2/ 0-1' Concrete.											
			2	1-2' Silt and Clay: Yellowish brown (10 YR 6/4), frozen, trace fine to coarse sand, crumbly, fissle, medium dense, no odor.				0.0							
			4	2-4/ 0-2.0' Clay: Color as above, small silt nodules with strong brown color, trace coarse sand, silt in places, somewhat cohesive to crumbly, moist, no odor, till.				0.0							
			6	4-6/ 0-2.0' Clay: As above, but color changes to dark yellowish brown (10 YR 4/3) downward, also trace angular gravel up to 0.5", sweet, plastic-like odor, odor may be natural.				0.0							
			8	6-8/ 0-0.3' Clay: As above. 0.3-2.0' Clay: Dark grayish brown (10 YR 4/2), trace silt, trace coarse sand, trace fine angular gravel, medium dense, somewhat plastic, fairly uniform, moist, odor as above.				0.0							
5	21.6	8 8 9 10	10	8-10/ 0-1.8' Clay: As above, but two sand lenses at 1.4 and 1.6, lenses contain very fine to medium sand and silt, poorly sorted, loose, moist, lenses are thin (<0.25"), odor as above.				0.0							
			10	10-12/ 0-0.2' Clay: As above.											

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

Signature: 

Firm: **ARCADIS**
 126 N. Jefferson St, Suite 400
 Milwaukee, WI (414)276-7742

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

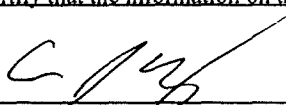
Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other **7215 W. Center Street**

Facility/Project Name Hoffman's Valet			License/Permit/Monitoring Number		Boring Number MW-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Ryan/Ted Last Name Firm Giles Engineering Associates			Date Drilling Started 1/19/05	Date Drilling Completed 1/19/05	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation NA Feet MSL	Borehole Diameter 8 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u> </u> N, <u> </u> E S <input type="checkbox"/> C <input type="checkbox"/> N <input type="checkbox"/>			Lat <u> </u> <input type="checkbox"/> N <input type="checkbox"/> E		
<u> </u> 1/4 of <u>SW</u> 1/4 of Section <u>15</u> , T <u>7</u> N, R <u>21</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W			Long <u> </u> Feet <input type="checkbox"/> S <u> </u> Feet <input type="checkbox"/> W		
Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa		

Sample Number and Type	Length All. & 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					RQD/ Comments		
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200			
1	15.6	16 8	0	0-2/ 0-0.7' Concrete.				0.0								
			2	0.7-1.3' Clay: Yellowish brown (10 YR 5/6), some silt, trace fine to coarse sand, trace gravel subangular to angular up to 1", frozen, crumbly, no odor.												
			4	2-4/ 0-2.0' Clay: Yellowish brown as above, some silt, strong brown mottling where silty, trace fine to coarse sand, sand seam at 0.4 very fine to medium, poorly sorted, 0.25" thick, trace gravel subround to angular up to 1", cohesive, damp, till, no odor.												
			6	4-6/ 0-1.4' Clay: As above, but color changes to brown (10 YR 5/3). 1.4-2.0' Sand: Yellowish brown (10 YR 5/6), very fine to fine grain, well sorted, loose, damp, slight odor.												
			8	6-8/ 0-1.0' Sand: As above, odor, damp.												
5	9.6	pushed	8	8-10/ 0-0.8' Sand: As above, moist.				0.0								
			10	10-12/ 0-0.3' Sand: Grayish brown (10 YR 5/2).												

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

Signature



Firm

ARCADIS
126 N. Jefferson St, Suite 400
Milwaukee, WI (414)276-7742

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other **7215 W. Center Street**

Page 1 of 2

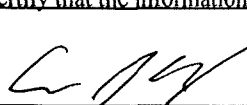
Facility/Project Name Hoffman's Valet			License/Permit/Monitoring Number		Boring Number MW-3
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Ryan/Ted Last Name Firm Giles Engineering Associates			Date Drilling Started 1/19/05	Date Drilling Completed 1/19/05	Drilling Method Hollow Stem Auger
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation NA Feet MSL	Borehole Diameter 8 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> /C <input type="checkbox"/> /N <input type="checkbox"/> Lat _____ _____ 1/4 of SW 1/4 of Section 15 , T 7 N,R 21 <input checked="" type="checkbox"/> W Long _____			Local Grid Location _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		

Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa
-------------	----------------------------	--------------------------	------------------------------------------------

Sample Number and Type	Length All. & 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						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1	12	15 10	0	0-2/ 0-1.0' Concrete.											
			2	1-2' Silty Clay: Yellowish brown (10 YR 5/4), trace medium to coarse sand, trace gravel angular to subangular up to 1", strong brown mottling associated with silt, frozen, crumbly, no odor.											
2	24	5 8 14 12	2	2-4/ 0-2.0' Silty Clay: As above, but not frozen, damp, no odor.											
			4	4-6/ 0-1.1' Silty Clay: As above, glacial till.											
3	24	8 9 10 15	4	1.1-1.7' Sand: Dark yellowish brown (10 YR 4/6), very fine grain, approaching silt size, well sorted, loose, damp, no odor, contains a few minor silt lenses.											
			6	1.7-2.0' Silty Clay: As above.											
4	8.4	6 6 7 8	6	6-8/ 0-0.7' Sand: As above.											
			8	8-10/ 0-1.6' Sand: Yellowish brown (10 YR 5/6), fine grain, very well sorted, loose, damp, no odor.											
5	19.2	6 6 7 8	8												
			10	10-12/ 0-0.4' Sand: As above.											

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

Signature



Firm **ARCADIS**

**126 N. Jefferson St, Suite 400
Milwaukee, WI (414)276-7742**

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other **7215 W. Center**

Facility/Project Name Hoffman's Valet	County Name Milwaukee	Well Name MW-2
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____
3. Time spent developing well 60 min.
4. Depth of well (from top of well casing) 19.5 ft.
5. Inside diameter of well 2.07 in.
6. Volume of water in filter pack and well casing 5 gal.
7. Volume of water removed from well 11 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
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. <u>14.42</u> ft.	<u>Dry</u> ft.
Date	b. <u>01/28/05</u> m m / d d / y y y y	<u>01/28/05</u> m m / d d / y y y y
Time	c. <u>9:00</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:00</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Clear, then silty/turbid toward bottom</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Clear, slightly silty at bottom</u>

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

16. Well developed by: Name (first, last) and Firm
First Name: **Andrew** Last Name: **Mumpy**
Firm: **ARCADIS**

17. Additional comments on development:
Purged MW-2 dry 3 times with bailer allowing for approximately 70 percent recharge between purges.

Name and Address of Facility Contact/Owner/Responsible Party

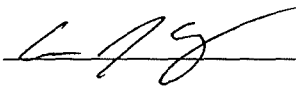
First Name: Ralph Last Name: Hoffman

Facility/Firm: Hoffman's Valet Cleaners

Street: 7215 W. Center Street

City/State/Zip: Wauwatosa, WI

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

Signature: 

Print Name: Andrew Mumpy

Firm: ARCADIS Geraghty & Miller

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other **7215 W. Center**

Facility/Project Name Hoffman's Valet	County Name Milwaukee	Well Name MW-1
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other XXXX

3. Time spent developing well 65 min.
4. Depth of well (from top of well casing) 20 ft.
5. Inside diameter of well 2.07 in.
6. Volume of water in filter pack and well casing 5 gal.
7. Volume of water removed from well 4 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____

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

17. Additional comments on development:
Purged MW-1 dry 3 times with bailer allowing for approximately 70 percent recharge between purges.

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>16.53</u> ft.	<u>Dry</u> ft.
Date	b. <u>1/28/05</u> m m / d d / y y y y	<u>1/28/05</u> m m / d d / y y y y
Time	c. <u>8:50</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>9:55</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0</u> inches	<u>0</u> inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe) <u>Clear.</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Clear.</u>

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

16. Well developed by: Name (first, last) and Firm
First Name: **Andrew** Last Name: **Mumpy**
Firm: **ARCADIS**

Name and Address of Facility Contact/Owner/Responsible Party

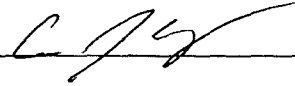
First Name: **Ralph** Last Name: **Hoffman**

Facility/Firm: **Hoffman's Valet Cleaners**

Street: **7215 W. Center Street**

City/State/Zip: **Wauwatosa, WI**

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

Signature: 

Print Name: **Andrew J. Mumpy**

Firm: **ARCADIS Geraghty & Miller**

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other **7215 W. Center**

Facility/Project Name Hoffman's Valet	County Name Milwaukee	Well Name MW-3
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other XXXX
3. Time spent developing well 50 min.
4. Depth of well (from top of well casing) 19.5 ft.
5. Inside diameter of well 2.07 in.
6. Volume of water in filter pack and well casing 5 gal.
7. Volume of water removed from well 8 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
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. <u>14.61</u> ft.	<u>Dry</u> ft.
Date	b. <u>01/28/05</u> m m / d d / y y y y	<u>01/28/05</u> m m / d d / y y y y
Time	c. <u>9:15</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:05</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Clear, but slightly turbid at bottom.</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Clear.</u>

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

16. Well developed by: Name (first, last) and Firm
First Name: **Andrew** Last Name: **Mumpy**
Firm: **ARCADIS**

17. Additional comments on development:
Purged MW-3 dry 3 times with bailer allowing for approximately 70 percent recovery between purges.

Name and Address of Facility Contact/Owner/Responsible Party

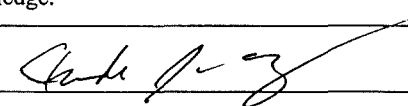
First Name: Ralph Last Name: Hoffman

Facility/Firm: Hoffman's Valet Cleaners

Street: 7215 W. Center Street

City/State/Zip: Wauwatosa, WI

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

Signature: 

Print Name: Andrew Mumpy

Firm: ARCADIS Geraghty & Miller

NOTE: See instructions for more information including a list of county codes and well type codes.

Facility/Project Name Hoffman's Valet		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-3	
Facility License, Permit or Monitoring Number		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well Number	
Facility ID		Lat. _____ Long. _____ or		DNR Well Number	
Type of Well		St. Plane _____ ft. N, _____ ft. E		Date Well Installed 1/19/05	
Well Code MW		Section Location of Waste/Source 1/4 of SW 1/4 of Sec. 15 T. 7 N.R. 21 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm Andrew Mumpy ARCADIS	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot #	
Enf. Stds. Apply <input type="checkbox"/>					

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **NA** ft. MSL
- D. Surface seal, bottom _____ ft MSL or _____ ft.

12. USCS classification of soil near screen:

GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

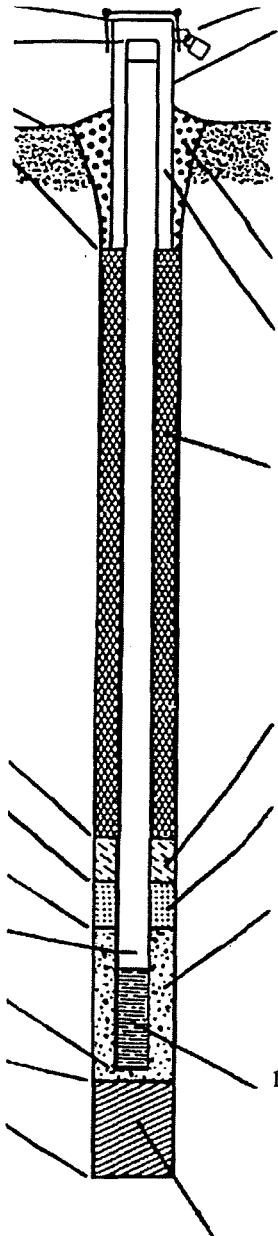
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of Water (attach analysis if required):



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: **12** in.
 b. Length: **1** ft.
 c. Material: Steel 04
Flush mount 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
Red Flint #40 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. **4 bags** Ft³ 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. **bentonite chips** Other
7. Fine sand Material: Manufacturer, product name & mesh size
 a. **Red Flint #10**
 b. Volume added **1 bag** ft³
8. Filter pack material: Manufacturer, product name and mesh size
 a. **Ref flint #40**
 b. Volume added **6 bags** ft³
9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
10. Screen material: **Sch 40 PVC**
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer _____
 c. Slot size: **.010** in.
 d. Slotted length: **10** ft.
11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or **1** ft.
- F. Fine sand, top _____ ft. MSL or **8** ft.
- G. Filter pack, top _____ ft. MSL or **10** ft.
- H. Screen joint, top _____ ft. MSL or **10** ft.
- I. Well bottom _____ ft. MSL or **20** ft.
- J. Filter pack, bottom _____ ft. MSL or **20** ft.
- K. Borehole bottom _____ ft. MSL or **20** ft.
- L. Borehole diameter **8** in.
- M. O.D. well casing **2.36** in.
- N. I.D. well casing **2.07** in.

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

Signature 	Firm ARCADIS 126 N. Jefferson Street Milwaukee, WI (414) 276-7742
---------------	-----------------------------------------------------------------------------------

Facility/Project Name Hoffman's Valet		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-2	
Facility License, Permit or Monitoring Number		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well Number	
Facility ID		Lat. _____ Long. _____ or		DNR Well Number	
Type of Well		St. Plane _____ ft. N, _____ ft. E		Date Well Installed 1/19/05	
Well Code MW		Section Location of Waste/Source 1/4 of <u>SW</u> 1/4 of Sec. <u>15</u> T. <u>7</u> N,R <u>21</u> <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm Andrew Mumpy ARCADIS	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot #	
Enf. Stds. Apply <input type="checkbox"/>					

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation _____ ft. MSL
- C. Land surface elevation **NA** ft. MSL
- D. Surface seal, bottom _____ ft MSL or _____ ft.

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

13. Sieve analysis attached? Yes No

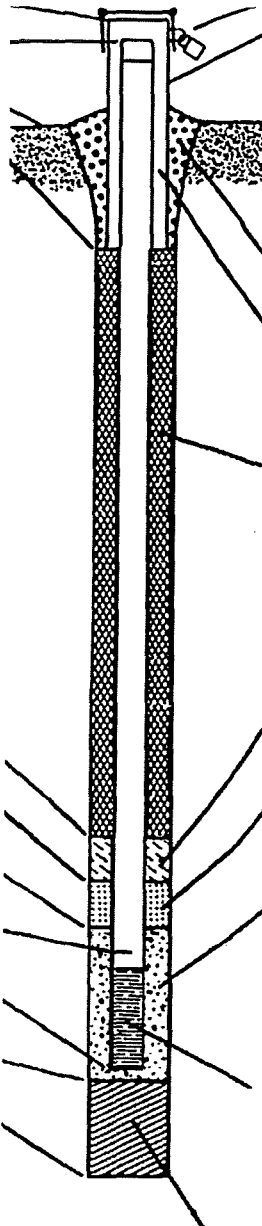
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of Water (attach analysis if required):



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: 12 in.
 b. Length: 1 ft.
 c. Material: Steel 0 4
Flush mount Other
 d. Additional protection? Yes No
 If yes, describe: _____
3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other
4. Material between well casing and protective pipe:
 Bentonite 3 0
 Annular space seal
Red Flint #40 Other
5. Annular space seal:
 a. Granular Bentonite 3 3
 b. _____ Lbs/gal mud weight... Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight... Bentonite slurry 3 1
 d. _____ % Bentonite..... Bentonite-cement grout 5 0
 e. 4 bags Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8
6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 c. **Bentonite Chips** Other
7. Fine sand Material: Manufacturer, product name & mesh size
 a. **Red Flint #10**
 b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
 a. **Red Flint #40**
 b. Volume added 6 bags ft³
9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
10. Screen material: **Sch. 40 PVC**
 a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other
 b. Manufacturer _____
 c. Slot size: 0.10 in.
 d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None 1 4
 Other

- E. Bentonite seal, top _____ ft. MSL or 1 ft.
- F. Fine sand, top _____ ft. MSL or 8 ft.
- G. Filter pack, top _____ ft. MSL or 10 ft.
- H. Screen joint, top _____ ft. MSL or 10 ft.
- I. Well bottom _____ ft. MSL or 20 ft.
- J. Filter pack, bottom _____ ft. MSL or 20 ft.
- K. Borehole bottom _____ ft. MSL or 20 ft.
- L. Borehole diameter 8 in.
- M. O.D. well casing 2.36 in.
- N. I.D. well casing 2.07 in.

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

Signature 	Firm ARCADIS 126 N. Jefferson Street Milwaukee, WI (414) 276-7742
---------------	-----------------------------------------------------------------------------------

Facility/Project Name Hoffman's Valet		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW-1	
Facility License, Permit or Monitoring Number		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well Number	
Facility ID		Lat. _____ Long. _____ or		DNR Well Number	
Type of Well Well Code MW		St. Plane _____ ft. N, _____ ft. E		Date Well Installed 1/19/05	
Distance from Waste/ Source _____ ft.		Section Location of Waste/Source 1/4 of SW 1/4 of Sec. 15 T. 7 N,R 21 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.		Well Installed By: Name (first, last) and Firm Andrew Mumpy ARCADIS	
Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot #	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation **NA** ft. MSL

D. Surface seal, bottom _____ ft MSL or _____ ft.

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

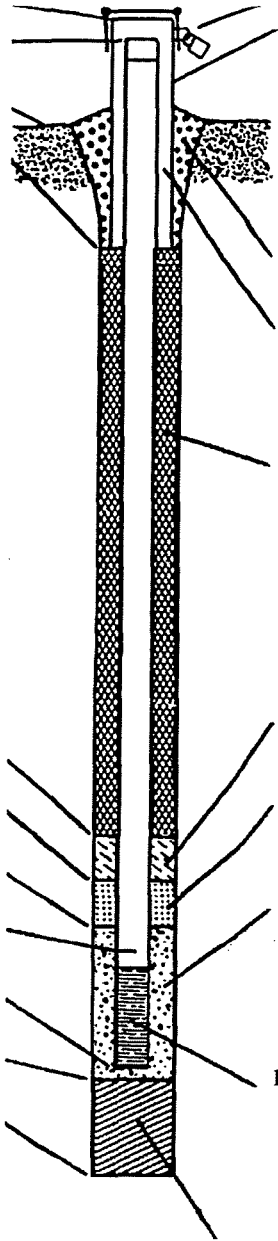
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
Hollow Stem Auger 4 1
Other

15. Drilling fluid used: Water 0 2 Air 0 1
Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
Describe _____

17. Source of Water (attach analysis if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1** ft.
c. Material: Steel 0 4
Flush Mount Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 3 0
Concrete 0 1
Other

4. Material between well casing and protective pipe:
Bentonite 3 0
Annular space seal
Red Flint #40 Other

5. Annular space seal: a. Granular Bentonite 3 3
b. _____ Lbs/gal mud weight... Bentonite-sand slurry 3 5
c. _____ Lbs/gal mud weight... Bentonite slurry 3 1
d. _____ % Bentonite..... Bentonite-cement grout 5 0
e. **4 bags** Ft³ volume added for any of the above
f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
c. **Bentonite Chips** Other

7. Fine sand Material: Manufacturer, product name & mesh size
a. **Red Flint #10**
b. Volume added **1 bag** ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. **Red Flint #40**
b. Volume added **7 bags** ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
Flush threaded PVC schedule 80 2 4
Other

10. Screen material: **Sch 40 PVC**
a. Screen type: Factory cut 1 1
Continuous slot 0 1
Other
b. Manufacturer _____
c. Slot size: **.010** in.
d. Slotted length: **10** ft.

11. Backfill material (below filter pack): None 1 4
3 feet Other

E. Bentonite seal, top _____ ft. MSL or **1** ft.

F. Fine sand, top _____ ft. MSL or **9** ft.

G. Filter pack, top _____ ft. MSL or **11** ft.

H. Screen joint, top _____ ft. MSL or **11** ft.

I. Well bottom _____ ft. MSL or **21** ft.

J. Filter pack, bottom _____ ft. MSL or **21** ft.

K. Borehole bottom _____ ft. MSL or **24** ft.

L. Borehole diameter **8** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.07** in.

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

Signature 	Firm ARCADIS 126 N. Jefferson Street Milwaukee, WI (414) 276-7742
---------------	-------------------------------------------------------------------------------------------------

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other 7215 W. Center Street

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 2/7/02	Date Drilling Completed 2/7/02	Drilling Method Geoprobe (hand held)	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 1 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane <u> </u> N, <u> </u> E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>			Lat <u> </u> <input type="checkbox"/> N <input type="checkbox"/> E			
<u> </u> 1/4 of <u> </u> 1/4 of Section <u> </u> , T <u> </u> N, R <u> </u>			Long <u> </u> Feet <input type="checkbox"/> S <u> </u> Feet <input type="checkbox"/> W			

Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa
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Sample Number and Type	Length All. & 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	6		0	0-0.25': Concrete. 0.25-0.5': Gravel mixed in with concrete fragments, abundant concrete flour, gravel fragments may not be native, dry (fill).				1.75						
2	13.2		2	0-1.1': Gravel fill, grayish white, some very fine to medium sand present, gravel approximately 1/4 to 1/2" in diameter, subrounded to subangular, loose, poorly sorted, dry.				2						
3	9.6		4	0-0.6': Gravel fill as above (gravel composed of cryptocrystalline quartz) 0.6-0.8': Rock fragments, black, some clay clinging to rock fragments, trace to some very fine sand/silt (clay/sand is very dark gray to black with slight odor, wet), clay very plastic, very soft.				22.5						
4	15.6		6	0-0.2': Black stained gravel fragments (quartz?). 0.2-1.1': Clay, very dark gray to black, definite odor present, some sand (very fine to fine), trace to some silt, clay is very soft and very plastic, wet to saturated, trace very fine gravel (approximately 2 mm).				17						
5	9		8	1.1-1.3': Sand, dark reddish brown, very fine to fine, some silt to silty, well rounded and sorted, slightly cohesive, damp.				2.5						
			10	8-10/ 0-0.75': Sand as above.										
				END OF BORING AT 10'										

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

Signature	Firm ARCADIS 126 North Jefferson St, Suite 400 Milwaukee, WI 414 276 7742
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other 7215 W. Center Street

Page 1 of 1

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-2
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 2/7/02	Date Drilling Completed 2/7/02	Drilling Method Geoprobe (hand held)
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 1 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/> Lat _____ _____ 1/4 of _____ 1/4 of Section _____, T _____, N, R _____ <input type="checkbox"/> E <input type="checkbox"/> W Long _____			Local Grid Location _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa		

Sample Number and Type	Length All. & 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	6		0	0-0.25': Concrete floor. 0.25-0.5': Gravel intermixed with concrete fragments, concrete flour present, dry (fill).				1.75						
2	12		2	0-1': Gravel fill, grayish white, some very fine to fine, trace medium sand present, gravel (1/4 to 1/2" in diameter) is subrounded to subangular (gravel composed primarily of chert-cryptocrystalline quartz).				1.75						
3	19.2		4	0-0.7': Gravel fill as above. 0.7-1.6': Clay, reddish brown, some very fine to fine sand, some silt, trace to some very fine gravel (approximately 2 mm), subrounded to subangular, some brown to dark brown mottling within the clay, moderately soft, plastic to moderately plastic (last 2-3" clay becomes very hard (HP >4) and very stiff), dry to moist.				2.5						
4	16.8		6	0-1.4': Clay, yellowish brown, some to abundant sand (very fine to fine), some silt, trace very fine gravel (approximately 2 mm), soft to very soft, very plastic, moist.				2.75						
5	24		8	0-1.95': Clay, as above 1.95-2': Sand, dark reddish brown, very fine to fine, perhaps trace medium, some silt to silty, well rounded and sorted, slightly cohesive, moist.				2.25						
			10	END OF BORING AT 10'										


I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature _____ Firm **ARCADIS**
126 North Jefferson St, Suite 400
Milwaukee, WI 414 276 7742

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-101	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 9/12/02	Date Drilling Completed 9/12/02	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>			Lat _____ <input type="checkbox"/> N <input type="checkbox"/> E			
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ <input type="checkbox"/> E <input type="checkbox"/> W			Long _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			
Facility ID		County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa		

Sample Number and Type	Length All. & 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	41		0	0.0 Datum at base of concrete and aggregate.										
			2	0-4/ 0-2.5': Gravelly silt, yellowish-brown (10 YR 5/4), gravel fine grain, some clay, friable, somewhat cohesive, moist, no odor. 2.5-3.4': Silty clay, brown (10YR 5/3), trace fine gravel, firm, cohesive to somewhat cohesive, moist, no odor.				0.0						
2	35		4	4-7/ 0-2.9': Apparent fill, silty clay intermixed with sand layers, yellowish-brown (10 YR 5/6), sand predominately fine grain, trace fine gravel throughout, trace coarse to medium sand, iron staining 0.9-1.3', somewhat cohesive to loose, moist, no odor.										
			6				0.0							
3	38		8	7-11/ 0-0.9': Apparent fill, as above. 0.9-3.0': Sand, light yellowish-brown (10 YR 6/4), fine grain 0.9-1.7', sand/silt 1.7-2.1', medium to fine grain 2.1-3.0', loose, moist to very moist, no odor.										
			10	3.0-3.2': Silty clay, brown (10 YR 5/3), soft, cohesive, moist, no odor.				0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature  Firm **ARCADIS**
126 North Jefferson St, Suite 400
Milwaukee, WI 414 276 7742


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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-102	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 9/12/02	Date Drilling Completed 9/12/02	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane <u> </u> N, <u> </u> E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>			Lat <u> </u> <input type="checkbox"/> N <input type="checkbox"/> E			
<u> </u> 1/4 of <u> </u> 1/4 of Section <u> </u> , T <u> </u> N,R <u> </u> <input type="checkbox"/> E <input type="checkbox"/> W			Long <u> </u> Feet <input type="checkbox"/> S <u> </u> Feet <input type="checkbox"/> W			
Facility ID		County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa		

Sample Number and Type	Length All. & 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	40		0	0.0 Datum at base of concrete and aggregate.										
			2	0-4/ 0-2.8': Gravelly silt, yellowish-brown (10 YR 5/6), gravel is coarse to fine grain, some clay, friable, somewhat cohesive to loose, moist, no odor, iron precipitation in places. 2.8-3.3': Clayey silt, brown (10 YR 5/3), some coarse to fine gravel, somewhat cohesive, moist, no odor.				0.0						
2	46		4	4-8/ 0-1.9': Clayey silt, as above, gravel throughout is fine grain, moist, no odor.										
			6	1.9-3.3': Sand, brownish-yellow (10 YR 6/6), fine grain, loose, moist, no odor. 3.3-3.8': Silty sand, yellowish-brown (10 YR 5/6), fine grain, loose, moist, no odor.				0.0						
3	34		8	8-12/ 0-0.3': Silty sand, as above. 0.3-0.4': Silty clay, yellowish-brown (10 YR 5/4), soft, cohesive to somewhat cohesive, moist, no odor. 0.4-2.3': Sand, light yellowish-brown (10 YR 6/4), medium to fine grain, trace fine gravel, iron staining throughout, significant iron and										
			10				0.0							

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

Signature 

Firm **ARCADIS**
126 North Jefferson St, Suite 400
Milwaukee, WI 414 276 7742

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Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-103
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 9/12/02	Date Drilling Completed 9/12/02	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/> Lat _____ _____ 1/4 of _____ 1/4 of Section _____, T _____, N, R _____ E <input type="checkbox"/> W <input type="checkbox"/>			Local Grid Location _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		

Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa
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Sample Number and Type	Length All. & 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					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	43		0	0.0 Datum at base of concrete an aggregate.										
			2	0-4/ 0-3.6': Silt, yellowish-brown (10 YR 5/4) becoming brown (10 YR 5/3) at 3.0', some fine gravel, some clay, trace coarse gravel, somewhat cohesive, moist, no odor.				0.0						
2	40		4	4-8/ 0-0.4': Silt, as above, moist, no odor. 0.4-3.3': Sand, light yellowish-brown (10 YR 6/4), fine grain, silty sand layer 2.5-2.8', iron staining, loose, moist, no odor.										
			6				0.0							
3	38		8	8-12/ 0-0.4': Silty sand, yellowish-brown (10 YR 5/6), fine grain, loose, moist, no odor. 0.4-0.5': Silty clay, yellowish-brown (10 YR 5/4), some fine sand, soft, cohesive to somewhat cohesive, moist, no odor. 0.5-1.9': Sand, light yellowish-brown (10 YR 6/4), medium to fine grain, significant iron										
			10				0.3							

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

Signature  Firm **ARCADIS**
126 North Jefferson St, Suite 400
Milwaukee, WI 414 276 7742

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-104
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 9/12/02	Date Drilling Completed 9/12/02	Drilling Method Hand probe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u> </u> N, <u> </u> E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/>			Lat <u> </u> <input type="checkbox"/> N <input type="checkbox"/> E		
<u> </u> 1/4 of <u> </u> 1/4 of Section <u> </u> , T <u> </u> N, R <u> </u>			Long <u> </u> Feet <input type="checkbox"/> S <u> </u> Feet <input type="checkbox"/> W		

Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa
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Sample Number and Type	Length All. & 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					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1			0	4" concrete, 0.0 datum at 0.5 ft bls. 0-2/ Fill (aggregate) not sampled.											
2	16		2	2-4/ 0-0.7': Pulverized concrete and aggregate. 0.7-1.3': Silty clay, yellowish-brown (10 YR 5/6), some coarse to fine gravel, iron precipitation in places, cohesive to somewhat cohesive, moist, no odor.				0.0							
3	12		4	4-6/ 0-1.0': Silty clay, as above, gravelly (coarse to fine grain), moist, no odor.											
4	13		6	6-8/ 0-1.1': Silty clay, as above, moist, no odor.				0.0							
5	10		8	8-9/ 0-0.8': Silty clay becoming sandy silt, color as above, gravelly (coarse to fine grain) somewhat cohesive to loose, moist, no odor. Note: Insufficient recovery for field screen sample.											
			10	END OF BORING AT 9' (refusal)											

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

Signature  Firm **ARCADIS**
126 North Jefferson St, Suite 400
Milwaukee, WI 414 276 7742

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Route to: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Facility/Project Name Hoffman's Valet Cleaners/WI000943.0001			License/Permit/Monitoring Number		Boring Number GP-105
Boring Drilled By: Name of crew chief (first, last) and Firm First Name Denny Last Name Firm On-Site Environmental Services			Date Drilling Started 9/12/02	Date Drilling Completed 9/12/02	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> /C <input type="checkbox"/> /N <input type="checkbox"/> Lat _____ _____ 1/4 of _____ 1/4 of Section _____, T _____, N, R _____ W _____			Local Grid Location _____ N _____ E _____ S _____ W		

Facility ID	County Milwaukee	County Code 41	Civil Town/City/or Village Wauwatosa
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Sample Number and Type	Length All. & 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	47		0	0.0 Datum at base of concrete and aggregate										
			2	0-4/ 0-3.9': Gravelly silt, yellowish-brown (10 YR 5/6) becoming brown (10 YR 5/3) at 3.4', gravelly coarse to fine grain, abundant clay 0-0.7' and 3.4-3.9', iron precipitation in places, cohesive to somewhat cohesive, moist, no odor.				0.0						
			4	4-8/ 0-0.8': Gravelly silt, as above, abundant clay 0-0.5', cohesive to somewhat cohesive, moist, no odor. 0.8-3.3': Sand, yellowish-brown (10 YR 5/6), fine grain, silty 1.1-1.3' and 2.7-3.0', loose, moist, no odor.				0.0						
3	32		8	8-12/ 0-1.9': Sand, as above, becoming medium to fine grain at 0.4', moist, no odor.										
			10	1.9-2.6': Sand, color as above, coarse to fine grain, trace silt, several visible bands of iron				0.0						

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

Signature *Dal M B* Firm **ARCADIS**
126 North Jefferson St, Suite 400
Milwaukee, WI 414 276 7742

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

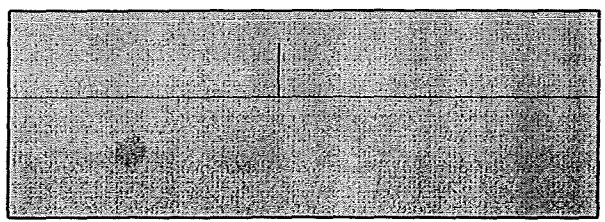
(1) GENERAL INFORMATION			(2) FACILITY / OWNER NAME	
WI Unique Well No.	DNR Well ID No.	County Milwaukee	Facility Name Hoffman's Valet Cleaners/WI000943.0001	
Common Well Name GP-101		Gov't Lot (If applicable)	Facility ID	License/Permit/Monitoring No.
Grid Location 1/4 of _____ 1/4 of Sec. _____ ; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S, _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone	Street Address of Well 7215 W. Center Street	
Reason For Abandonment Completed sampling		WI Unique Well No. of Replacement Well	City, Village or Town Wauwatosa	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING & SEALING MATERIAL		
Original Construction Date 9/12/02	If a Well Construction Report is available, please attach.	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) 30 Casing Diameter (in.) 2 (From ground surface) Casing Depth (ft.) _____	Lower Drillhole Diameter (in.) _____	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	Depth to Water (Feet) -- Feet	Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____		
		Sealing Materials		For monitoring wells and monitoring well boreholes only
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite-Sand Slurry " "		<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry

(5)	Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Concrete	Surface	0.25		
	Vita Plus 3/8"	0.25	30	0.7 ft (3)	
	Bentonite chips				

(6) Comments **2.5' concrete and aggregate at the surface.**

(7) Name of Person or Firm Doing Sealing Work On-Site Environmental		Date of Abandonment 9/12/02
Signature of Person Doing Work	Date Signed	
Street or Route P.O. Box 280	Telephone Number 608 837-8992	
City, State, Zip Code Sun Prairie, WI 53590		



Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295 and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

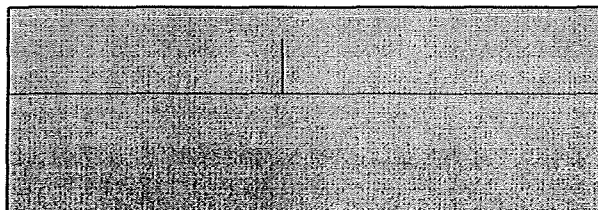
(1) GENERAL INFORMATION			(2) FACILITY / OWNER NAME	
WI Unique Well No.	DNR Well ID No.	County Milwaukee	Facility Name Hoffman's Valet Cleaners/WI000943.0001	
Common Well Name GP-102 Gov't Lot (If applicable)			Facility ID	License/Permit/Monitoring No.
Grid Location _____ 1/4 of _____ 1/4 of Sec. _____; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			Street Address of Well 7215 W. Center Street	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or			City, Village or Town Wauwatosa	
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Present Well Owner Ralph Hoffman	Original Owner Ralph Hoffman
Reason For Abandonment Completed sampling			Street Address or Route of Owner 7215 W. Center Street	
WI Unique Well No. of Replacement Well			City, State, Zip Code Wauwatosa, WI	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING & SEALING MATERIAL
Original Construction Date 9/12/02	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Total Well Depth (ft.) 22 Casing Diameter (in.) 2 (From ground surface) Casing Depth (ft.) _____	Was casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lower Drillhole Diameter (in.) _____	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Depth to Water (Feet) 16 Feet	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____
	Sealing Materials For monitoring wells and monitoring well boreholes only
	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite-Sand Slurry " " <input checked="" type="checkbox"/> Bentonite Chips
	<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Concrete	Surface	0.25		
Vita Plus 3/8"	0.25	22	0.5 ft (3)	
Bentonite chips				

(6) Comments **2.5' concrete and aggregate at the surface.**

(7) Name of Person or Firm Doing Sealing Work On-Site Environmental		Date of Abandonment 9/12/02
Signature of Person Doing Work	Date Signed	
Street or Route P.O. Box 280	Telephone Number 608 837-8992	
City, State, Zip Code Sun Prairie, WI 53590		



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Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

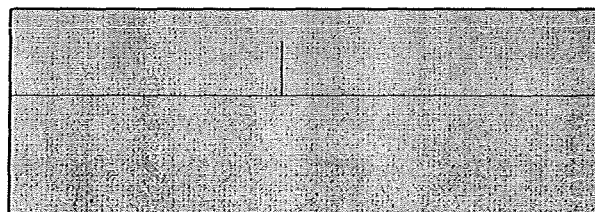
(1) GENERAL INFORMATION			(2) FACILITY / OWNER NAME	
WI Unique Well No.	DNR Well ID No.	County Milwaukee	Facility Name Hoffman's Valet Cleaners/WI000943.0001	
Common Well Name GP-103		Gov't Lot (If applicable)	Facility ID	License/Permit/Monitoring No.
Grid Location _____ 1/4 of _____ 1/4 of Sec. _____ ; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.			Street Address of Well 7215 W. Center Street	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>			City, Village or Town Wauwatosa	
Lat. _____ Long. _____ or			Present Well Owner Ralph Hoffman	Original Owner Ralph Hoffman
St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Street Address or Route of Owner 7215 W. Center Street	
Reason For Abandonment Completed sampling		WI Unique Well No. of Replacement Well	City, State, Zip Code Wauwatosa, WI	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING & SEALING MATERIAL
Original Construction Date 9/12/02 <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) 22 Casing Diameter (in.) 2 (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet Depth to Water (Feet) 16 Feet	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Was casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____ Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite - Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry " " <input checked="" type="checkbox"/> Bentonite Chips

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Concrete	Surface	0.25		
Vita Plus 3/8"	0.25	22	0.5 ft (3)	
Bentonite chips				

(6) Comments 2.5' concrete and aggregate at the surface.

(7) Name of Person or Firm Doing Sealing Work On-Site Environmental		Date of Abandonment 9/12/02
Signature of Person Doing Work		Date Signed
Street or Route P.O. Box 280		Telephone Number 608 837-8992
City, State, Zip Code Sun Prairie, WI 53590		



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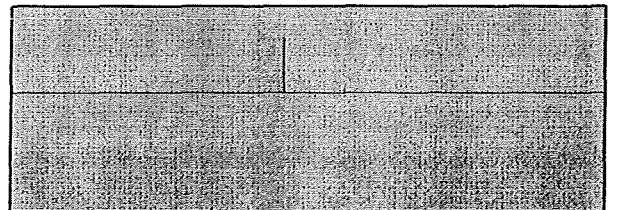
(1) GENERAL INFORMATION			(2) FACILITY / OWNER NAME	
WI Unique Well No.	DNR Well ID No.	County Milwaukee	Facility Name Hoffman's Valet Cleaners/WI000943.0001	
Common Well Name GP-105 Gov't Lot (If applicable)			Facility ID	License/Permit/Monitoring No.
Grid Location _____ 1/4 of _____ 1/4 of Sec. _____ ; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone			Street Address of Well 7215 W. Center Street City, Village or Town Wauwatosa	
Reason For Abandonment Completed sampling			Present Well Owner Ralph Hoffman	Original Owner Ralph Hoffman
WI Unique Well No. of Replacement Well			Street Address or Route of Owner 7215 W. Center Street	
			City, State, Zip Code Wauwatosa, WI	

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING & SEALING MATERIAL	
Original Construction Date 9/12/02 <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft.) 22 Casing Diameter (in.) 2 (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet Depth to Water (Feet) 16 Feet		If a Well Construction Report is available, please attach. Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Was casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____ Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite-Sand Slurry " " <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry	

(5)	Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Concrete	Surface	0.25		
	Vita Plus 3/8"	0.25	22	0.5 ft (3)	
	Bentonite chips				

(6) Comments **2.5' concrete and aggregate at the surface.**

(7) Name of Person or Firm Doing Sealing Work		Date of Abandonment	
On-Site Environmental		9/12/02	
Signature of Person Doing Work		Date Signed	
Street or Route P.O. Box 280		Telephone Number 608 837 8992	
City, State, Zip Code Sun Prairie, WI 53590			



ARCADIS

Appendix B

Soil Screening Level (SSL)
Calculations



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Soil Screening Guidance for Chemicals

Equation Values for Ingestion

Noncarcinogenic Parameter	Value	Carcinogenic Age-adjusted Parameter	Value	Carcinogenic Nonadjusted Parameter	Value
Target Hazard Quotient (unitless)	0.2	Target Risk (unitless)	1.0E-7	Target Risk (unitless)	1.0E-6
Body Weight (kg)	15	Adult Body Weight (kg)	70	Body Weight (kg)	70
		Child Body Weight (kg)	15		
Exposure Duration (yr)	6	Adult Exposure Duration (yr)	24	Exposure Duration (yr)	25
		Child Exposure Duration (yr)	6		
Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	250
Intake Rate (mg/day)	200	Adult Intake Rate (mg/day)	100	Intake Rate (mg/day)	100
		Child Intake Rate (mg/day)	200		
		Average Lifetime (yr)	70	Average Lifetime (yr)	70
		Age-adjusted Ingestion Factor (mg-yr/kg-day)	114.29		

Soil Screening Levels for Ingestion (mg/kg)

Analyte	Gas Number	Oral RfD	Oral Slope Factor	Noncarcinogenic	Carcinogenic (Age-adjusted)	Carcinogenic (Nonadjusted)
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Dichloroethylene, 1,2-cis-	156592	1.00E-02 ^b	1.56E+02		
Methylene Chloride	75092	6.00E-02 ^a 7.50E-03 ^a	9.39E+02	8.52E+00	3.82E+02
Naphthalene	91203	2.00E-02 ^a	3.13E+02		
Tetrachloroethylene	127184	1.00E-02 ^a 5.20E-02 ^v	1.56E+02	1.23E+00	5.50E+01

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Soil Screening Guidance for Chemicals

Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter	Value
Surface Area (acres)	0.5			Target Hazard Quotient (unitless)	0.2	Target Risk (unitless)	1.0E-7
City (climate zone)	Chicago (VII)			Exposure Duration (yr)	30	Exposure Duration (yr)	30
Q/C (g/m ² -s per kg/m ³)	97.78			Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	350
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr)	70
Dry soil bulk density (g/cm ³)	1.5	Dry soil bulk density (g/cm ³)	1.5				
Soil particle density (g/cm ³)	2.65	Soil particle density (g/cm ³)	2.65				
Water-filled soil porosity (L _{water} /L _{soil})	0.2	Water-filled soil porosity (L _{water} /L _{soil})	0.2				
Exposure interval (s)	9.5e08						

Soil Screening Levels for Inhalation of Volatiles (mg/kg)



Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carcinogenic
Dichloroethylene, 1,2-cis-	156592			5.9E+03	1.3E+03		
Methylene Chloride	75092	3.0E+00 ^b	4.7E-07 ^a	5.2E+03	2.8E+03	3.3E+03	2.7E+00
Naphthalene	91203	3.0E-03 ^a		1.1E+05		6.8E+01	
Tetrachloroethylene	127184	6.0E-01 ^v	5.8E-07 ^v	5.0E+03	2.4E+02	6.2E+02	2.1E+00

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Soil Screening Guidance for Chemicals

Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter	Value
Surface Area (acres)	0.5			Target Hazard Quotient (unitless)	0.2	Target Risk (unitless)	1.0E-7
City (climate zone)	Chicago (VII)			Exposure Duration (yr)	30	Exposure Duration (yr)	30
Q/C (g/m ² -s per kg/m ³)	97.78			Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	350
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr)	70
Dry soil bulk density (g/cm ³)	1.5	Dry soil bulk density (g/cm ³)	1.5				
Soil particle density (g/cm ³)	2.65	Soil particle density (g/cm ³)	2.65				
Water-filled soil porosity (L _{water} /L _{soil})	0.2	Water-filled soil porosity (L _{water} /L _{soil})	0.2				
Exposure interval (s)	9.5e08						

Soil Screening Levels for Inhalation of Volatiles (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carcinogenic
Trichlorofluoromethane	75694	7.0E-01 <small>b,c</small>		2.8E+03	1.6E+03	4.1E+02	

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Soil Screening Guidance for Chemicals

Equation Values for Ingestion

Noncarcinogenic Parameter	Value	Carcinogenic Age-adjusted Parameter	Value	Carcinogenic Nonadjusted Parameter	Value
Target Hazard Quotient (unitless)	0.2	Target Risk (unitless)	1.0E-7	Target Risk (unitless)	1.0E-6
Body Weight (kg)	15	Adult Body Weight (kg)	70	Body Weight (kg)	70
Exposure Duration (yr)	6	Child Body Weight (kg)	15	Exposure Duration (yr)	25
		Adult Exposure Duration (yr)	24		
Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)	250
Intake Rate (mg/day)	200	Adult Intake Rate (mg/day)	100	Intake Rate (mg/day)	100
		Child Intake Rate (mg/day)	200		
		Average Lifetime (yr)	70	Average Lifetime (yr)	70
		Age-adjusted Ingestion Factor (mg-yr/kg-day)	114.29		

Soil Screening Levels for Ingestion (mg/kg)

Analyte	Cas Number	Oral RfD	Oral Slope Factor	Noncarcinogenic	Carcinogenic (Age-adjusted)	Carcinogenic (Nonadjusted)
---------	------------	----------	-------------------	-----------------	-----------------------------	----------------------------

Trichlorofluoromethane	75694	3.00E-01 ^a	4.69E+03
------------------------	-------	-----------------------	----------

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Equation Values for Soil to Ground Water

Partitioning Equation Parameter	Value
Dilution factor (unitless)	1.27
Fraction organic carbon in soil (unitless)	0.001
Water-filled soil porosity ($L_{\text{water}}/L_{\text{soil}}$)	0.2
Dry soil bulk density (kg/L)	1.5
Soil particle density (kg/L)	2.65

Soil Screening Levels for Soil to Ground Water (mg/kg)

Analyte	Cas Number	Ground Water Concentration* (mg/L)	Ground Water Concentration Source	Soil Screening Level
Trichlorofluoromethane	75694	1.4E+01	HBL	9.2E+00

*Ground Water Concentration=Ground Water Concentration Source × Dilution Factor

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Equation Values for Soil to Ground Water

Partitioning Equation Parameter	Value
Dilution factor (unitless)	2
Fraction organic carbon in soil (unitless)	0.001
Water-filled soil porosity (L_{water}/L_{soil})	0.2
Dry soil bulk density (kg/L)	1.5
Soil particle density (kg/L)	2.65

Soil Screening Levels for Soil to Ground Water (mg/kg)

Analyte	Cas Number	Ground Water Concentration* (mg/L)	Ground Water Concentration Source	Soil Screening Level
Tetrachloroethylene	127184	1.0E-02	MCL	4.1E-03

*Ground Water Concentration=Ground Water Concentration Source × Dilution Factor

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Equation Values for Soil to Ground Water

Partitioning Equation Parameter	Value
Dilution factor (unitless)	.22
Fraction organic carbon in soil (unitless)	0.001
Water-filled soil porosity (L_{water}/L_{soil})	0.2
Dry soil bulk density (kg/L)	1.5
Soil particle density (kg/L)	2.65

Soil Screening Levels for Soil to Ground Water (mg/kg)

Analyte	Cas Number	Ground Water Concentration* (mg/L)	Ground Water Concentration Source	Soil Screening Level
Naphthalene	91203	1.6E-01	HBL	3.4E-01

*Ground Water Concentration=Ground Water Concentration Source × Dilution Factor

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Equation Values for Soil to Ground Water

Partitioning Equation Parameter	Value
Dilution factor (unitless)	2
Fraction organic carbon in soil (unitless)	0.001
Water-filled soil porosity (L_{water}/L_{soil})	0.1
Dry soil bulk density (kg/L)	1.5
Soil particle density (kg/L)	2.65

Soil Screening Levels for Soil to Ground Water (mg/kg)

Analyte	Cas Number	Ground Water Concentration* (mg/L)	Ground Water Concentration Source	Soil Screening Level
Methylene Chloride	75092	1.0E-02	MCL	9.8E-04

* Ground Water Concentration = Ground Water Concentration Source × Dilution Factor

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Equation Values for Soil to Ground Water

Partitioning Equation Parameter	Value
Dilution factor (unitless)	2
Fraction organic carbon in soil (unitless)	0.001
Water-filled soil porosity ($L_{\text{water}}/L_{\text{soil}}$)	0.2
Dry soil bulk density (kg/L)	1.5
Soil particle density (kg/L)	2.65

Soil Screening Levels for Soil to Ground Water (mg/kg)

Analyte	Cas Number	Ground Water Concentration* (mg/L)	Ground Water Concentration Source	Soil Screening Level
Dichloroethylene, 1,2-cis-	156592	1.4E-01	MCLG	2.7E-02

*Ground Water Concentration=Ground Water Concentration Source × Dilution Factor

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ARCADIS

Appendix C

Investigative-Derived Waste
Disposal Documentation

5611 W. HEMLOCK STREET
MILWAUKEE, WI 53223

WS Number: _____
Approval #: _____

Badger Disposal of WI., Inc.

(414) 760-9175 1-866-271-0961 WID988580056

A. Generator Name: Hoffman Valet Cleaners Customer # _____
Address: 7215 West Center Street
City, State, Zip: Wauwatosa WI 53213 SIC Code: _____
Contact: Ralph Hoffman Title: owner
Telephone: 440-451-6110 Ext. _____ FAX #: N/A
EPA ID: N/A

Bill to: ARCADIS
Billing Address: 126 N. Jefferson Street, Suite 400
City, State, Zip: Milwaukee, WI 53202
Contact: Ed Buc Title: Senior Engineer
Phone Number: 414-276-7742 FAX #: 414-276-7603

This profile sheet was completed using: General Knowledge Analysis (attached) MSDS Both

B. WASTE DESCRIPTION AND GENERAL CHARACTERISTICS

Name of Waste: Soil cuttings
Process Generating Waste: maintaining well installation
Color: brown Odor: none None Mild Strong Single Layer Double Layer Multi-Layer
Free Phases: Liquid 0 % Powder _____ % Solid 100 % Sludge _____ %

C. RCRA AND DOT INFORMATION

Is this a USEPA Hazardous Waste? Yes No Please list the USEPA Hazardous waste codes: _____
Is this a DOT Hazardous Material? Yes No Anticipated Annual Volume: 7 / Units: 55 gal drums
Proper Shipping Name: non-regulated waste
Hazardous Class #: _____ PG #: _____ UN/NA #: _____ Additional Description: _____
Method of Shipment: Bulk Liquid Bulk Solid Drum Container Type: metal Size: 55 gal

D. SPECIAL HANDLING INSTRUCTIONS

If Special handling techniques are required, specify: lift gate needed for pickup - no dock or forklift
Treatment: _____ Is a representative sample provided? Yes No

E. METALS (Indicate in parts per million [ppm] if this waste contains any of the following using):

Metal	Less than	or Actual	Metal	Less than	or Actual	Metal	Less than	or Actual
Arsenic	<input checked="" type="checkbox"/> <5	<input type="checkbox"/> <500	Mercury	<input checked="" type="checkbox"/> <0.2	<input type="checkbox"/> <0.20	Nickel	<input checked="" type="checkbox"/> <5	<input type="checkbox"/> <134
Barium	<input checked="" type="checkbox"/> <100	_____	Selenium	<input checked="" type="checkbox"/> <1	<input type="checkbox"/> <100	Thallium	<input checked="" type="checkbox"/> <5	<input type="checkbox"/> <130
Cadmium	<input checked="" type="checkbox"/> <1	<input type="checkbox"/> <100	Silver	<input checked="" type="checkbox"/> <5	_____	Zinc	<input checked="" type="checkbox"/> <5	_____
Chromium	<input checked="" type="checkbox"/> <5	_____	Chromium-Hex	<input checked="" type="checkbox"/> <5	<input type="checkbox"/> <500			
Lead	<input checked="" type="checkbox"/> <5	<input type="checkbox"/> <500	Copper	<input checked="" type="checkbox"/> <5	_____			

F. PHYSICAL/CHEMICAL PROPERTIES

Specific Gravity: <0.8 0.8-1.0 1.0-1.2 1.2-1.4 1.4-1.7 >1.7 Actual: _____
Total Suspended Solids: 0.5 0.5-2.0 2.0-5.0 5.0-20 >20 Actual: _____
pH: <2 2-6 6-8 8-10 10-12.5 >12.5 Actual: _____
BTU's: <1 1-4 4-8 8-12 12-16 Actual: _____
Flash Point Degree F: <73°F 73-140°F >140-200°F >200°F Actual: _____
Sulfur (WT): <0.5 0.5-2.0 2-5 >5.0 Actual: _____

G. HAZARDOUS CHARACTERISTICS AND OTHER COMPONENTS

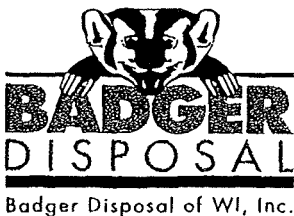
Reactivity: None Explosive Pyrophoric Shock Sensitive Water Reactive Etiological Radioactive Acutely Hazardous Waste
Viscosity: Low Medium High Are TC Codes present? Yes No (if yes, please list in USEPA Waste Code Section).
Halogens: <1 % Chlorine _____ % Fluorine _____ % Bromine _____ % Iodine
Cyanides (ppm) _____ PCB's (ppm) _____ Pesticides: (ppm) _____ Sulfides: (ppm) _____ Phenolics: (ppm) _____

H. CHEMICAL COMPOSITION (MUST TOTAL 100%)

Component	%	%	%	%	%	%
Soil	>99	%				
Tetrachloro Benz	<1	%				
		%				
		%				
		%				
		%				
		%				
		%				

I hereby certify that all information submitted in this and all attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. The Generator further recognizes that for reasons of efficiency and speed in processing it is desirable to name Badger Disposal of WI, Inc. as Generator's agent for disposal of waste. Accordingly Generator specifically authorizes office and/or employees of Badger Disposal of WI, Inc. to sign forms and/or contract in respect to waste disposal utilizing only information and matters that appear on the Badger Disposal "master sheet" above. In this respect, Badger Disposal of WI, Inc. is in no manner change or alter the data on the above master sheet. The Generator specifically acknowledges that it has carefully reviewed the above master sheet data and information. With the above limitations, Generator further consents and directs that the officer and/or employee of Badger Disposal sign the name of the undersigned agent of Generator to any and all such forms and/or contracts respecting processing and disposal of Generator's waste.

SIGNATURE OF GENERATOR'S OFFICER AND/OR AGENT _____ TITLE _____ DATE _____



To: Ed Buc
 Arcadis, G & M Inc.
 126 N. Jefferson St., Suite 400
 Milwaukee, WI 53202

 FAX: 414-276-7603

Date: March 31, 2005
 Technical Representative:
 Henry J. Krier
 Telephone Number:
 414-760-9175/866-271-0961

PRICE PROPOSAL

WS DESCRIPTION

DISPOSAL PRICE

Non-Haz. Soil Drums – Wauwatosa
 Transportation
 Stop Fee

\$75.00/55 gal. drum
 \$15.00/drum
 \$35.00

Stated prices for all services are firm for thirty (30) days from the date of this quotation. Invoices are issued on waste pick-up dates and are payable 15 days after received. Customer is responsible for all costs of collection, including reasonable attorney fees. Any deviation of waste from the stated constituents on the Waste Profile Sheet can result in rejection of the load or off-spec charges.

We appreciate the opportunity to be of service. If you should have any questions, please contact me.

Please indicate acceptance of this quotation by signing in the space provided below, including a purchase order number, and mailing or faxing a copy to the above address/number.

Quotation by: Henry J. Krier Accepted by: _____ Date: _____
 Henry J. Krier

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. WI000943.0002

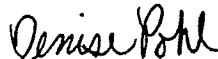
WAUWAUTOSA, WI

Lot #: A5B170265

Ed Buc

ARCADIS Geraghty & Miller, Inc
126 North Jefferson Street
Suite 400
Milwaukee, WI 53202

SEVERN TRENT LABORATORIES, INC.



Denise Pohl
Project Manager

March 2, 2005

CASE NARRATIVE

A5B170265

The following report contains the analytical results for one solid sample submitted to STL North Canton by ARCADIS Geraghty & Miller, Inc from the Wauwautosa, WI Site, project number WI000943.0002. The sample was received February 17, 2005, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Brian Maillet and Ed Buc on March 01, 2005. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 6.0°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), North Carolina (#39702), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



Y:\Barb\STL headers\Qc846-Narrative_060204.doc, Revised06/02/04 DJL

EXECUTIVE SUMMARY - Detection Highlights

A5B170265

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
DRUMS 02/09/05 13:50 001				
Chloroform	0.0021	0.025	mg/L	SW846 8260B
	Qualifiers: J,B			

ANALYTICAL METHODS SUMMARY

A5B170265

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A5B170265

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
G4MCP	001	DRUMS	02/09/05	13:50

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ARCADIS Geraghty & Miller, Inc.

Client Sample ID: DRUMS

TCLP GC/MS Volatiles

Lot-Sample #...: A5B170265-001 Work Order #...: G4MCP1AA Matrix.....: SO
 Date Sampled...: 02/09/05 13:50 Date Received...: 02/17/05
 Leach Date.....: 02/23/05 Prep Date.....: 02/25/05 Analysis Date...: 02/25/05
 Leach Batch #...: P505410 Prep Batch #...: 5056388
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Benzene	ND	0.025	mg/L
Carbon tetrachloride	ND	0.025	mg/L
Chlorobenzene	ND	0.025	mg/L
Chloroform	0.0021 J,B	0.025	mg/L
1,2-Dichloroethane	ND	0.025	mg/L
1,1-Dichloroethylene	ND	0.070	mg/L
Methyl ethyl ketone	ND	0.050	mg/L
Tetrachloroethylene	ND	0.070	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.025	mg/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(86 - 125)
1,2-Dichloroethane-d4	88	(80 - 122)
Toluene-d8	103	(90 - 122)
4-Bromofluorobenzene	96	(84 - 125)

NOTE (S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**SEVERN
TRENT**

STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: A5B170265 Work Order #...: G46E21AD Matrix.....: SOLID
 MB Lot-Sample #: A5B250000-388
 Leach Date.....: 02/23/05 Prep Date.....: 02/25/05 Analysis Date...: 02/25/05
 Leach Batch #...: P505410 Prep Batch #...: 5056388
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260B
Chlorobenzene	ND	0.025	mg/L	SW846 8260B
Chloroform	0.0034 J	0.025	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260B
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260B
Methyl ethyl ketone	0.0051 J	0.050	mg/L	SW846 8260B
Tetrachloroethylene	ND	0.070	mg/L	SW846 8260B
Trichloroethylene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.025	mg/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(86 - 125)
1,2-Dichloroethane-d4	86	(80 - 122)
Toluene-d8	101	(90 - 122)
4-Bromofluorobenzene	97	(84 - 125)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A5B170265 Work Order #...: G46E21AA-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A5B250000-388 G46E21AC-LCSD
 Prep Date.....: 02/25/05 Analysis Date...: 02/25/05
 Prep Batch #...: 5056388
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	97	(76 - 118)			SW846 8260B
	99	(76 - 118)	1.5	(0-30)	SW846 8260B
Chlorobenzene	100	(76 - 113)			SW846 8260B
	100	(76 - 113)	0.38	(0-30)	SW846 8260B
1,1-Dichloroethylene	112	(67 - 128)			SW846 8260B
	105	(67 - 128)	6.3	(0-30)	SW846 8260B
Trichloroethylene	98	(76 - 119)			SW846 8260B
	95	(76 - 119)	2.8	(0-20)	SW846 8260B
Toluene	96	(72 - 117)			SW846 8260B
	96	(72 - 117)	0.28	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(86 - 124)
	98	(86 - 124)
1,2-Dichloroethane-d4	86	(80 - 122)
	89	(80 - 122)
Toluene-d8	100	(90 - 122)
	103	(90 - 122)
4-Bromofluorobenzene	105	(84 - 125)
	104	(84 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A5B170265 Work Order #...: G40V21AP-MS Matrix.....: SOLID
 MS Lot-Sample #: A5B230191-007 G40V21AQ-MSD
 Date Sampled...: 02/11/05 10:25 Date Received...: 02/23/05
 Leach Date.....: 02/23/05 Prep Date.....: 02/25/05 Analysis Date...: 02/25/05
 Leach Batch #...: P505410 Prep Batch #...: 5056388
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	97	(76 - 117)			SW846 8260B
	96	(76 - 117)	0.21	(0-30)	SW846 8260B
Chlorobenzene	90	(72 - 114)			SW846 8260B
	95	(72 - 114)	5.5	(0-30)	SW846 8260B
1,1-Dichloroethylene	101	(67 - 129)			SW846 8260B
	99	(67 - 129)	1.6	(0-30)	SW846 8260B
Trichloroethylene	90	(72 - 121)			SW846 8260B
	91	(72 - 121)	0.89	(0-30)	SW846 8260B
Toluene	89	(67 - 113)			SW846 8260B
	91	(67 - 113)	2.3	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	101	(86 - 125)
	98	(86 - 125)
1,2-Dichloroethane-d4	90	(80 - 122)
	89	(80 - 122)
Toluene-d8	103	(90 - 122)
	100	(90 - 122)
4-Bromofluorobenzene	104	(84 - 125)
	101	(84 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

STL Cooler Receipt Form/Narrative

Lot Number: ASB170265

North Canton Facility

Client: ARCADIS Project: Way Wautosa, WVA Quote#: 6311
 Cooler Received on: 2-17-05 Opened on: 2-17-05 by: [Signature]
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# _____ Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity 1
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 12.0 °C (see back of form for multiple coolers/temp)
 METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
 Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot # 101104HNO₃; Sulfuric Acid Lot # 102804-H₂SO₄; Sodium Hydroxide Lot # -082404-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials



STL

END OF REPORT

ARCADIS

Appendix D

Laboratory Analytical Reports

ANALYTICAL REPORT

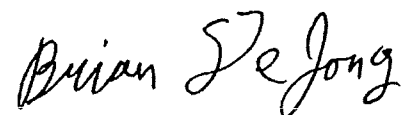
Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

02/07/2005
Job No: 05.00589
Page 1 of 16

The following samples were received by TestAmerica for analysis:

WI000943.0002 Hoffman Cleaners

Sample Number	Sample Description	Date Taken	Date Received
604536	MW-1	01/28/2005	01/31/2005
604537	MW-2	01/28/2005	01/31/2005
604538	MW-3	01/28/2005	01/31/2005
604539	Trip Blank	01/28/2005	01/31/2005



Brian DeJong
Organic Operations Manager

ARCADIS
Job No: 05.0058902/07/2005
Page 2 of 16

KEY TO DATA FLAGS

The attached 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
E = TCLP extraction outside of method required temperature range	
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
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
* = See Case Narrative	

KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
090	ILNELAC 200006; WDNR - 399031270
130	WDNR - 632021390
147	WDNR - 721026460
148	WDNR - 399017190
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown Certifications: WI DNR - 128053530; IL NELAC - 100453; IA DNR - 294; MN DoH - 055-999-366; ND DoH R-046; AR DEQ - 88-0808

Unless sub-contracted (see above), volatiles analyses (including VOC, PVOC, GRO, BTEX and TPH Gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at 602 Commerce Drive, Watertown WI 53094.

Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

ANALYTICAL REPORT

Mr. Ed Buc
 ARCADIS
 126 N Jefferson Street
 Suite 400
 Milwaukee, WI 53202

02/07/2005
 Job No: 05.00589
 Sample No: 604536
 Account No: 32050
 Page 3 of 16

JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
 PROJECT DESCRIPTION: Groundwater Analysis
 SAMPLE DESCRIPTION: MW-1
 Wauwatosa, WI
 Rec'd on ice

Date/Time Taken: 01/28/2005 10:15

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae	7089
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

02/07/2005
Job No: 05.00589
Sample No: 604536
Account No: 32050
Page 4 of 16

JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-1
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/28/2005 10:15

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae		7089
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Surr: Dibromofluoromethane	104	%		89-119	SW 8260B	02/04/2005	mae		7089
Surr: Toluene-d8	100	%		91-109	SW 8260B	02/04/2005	mae		7089
Surr: Bromofluorobenzene	100	%		89-114	SW 8260B	02/04/2005	mae		7089

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

02/07/2005
Job No: 05.00589
Sample No: 604537
Account No: 32050
Page 5 of 16

JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-2
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/28/2005 10:30

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
VOC - AQUEOUS - EPA 8260B								
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae	7089
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089

ANALYTICAL REPORT

Mr. Ed Buc
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126 N Jefferson Street
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02/07/2005
Job No: 05.00589
Sample No: 604537
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-2
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/28/2005 10:30

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae	7089	
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089	
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089	
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089	
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089	
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089	
Surr: Dibromofluoromethane	105	%		89-119	SW 8260B	02/04/2005	mae	7089	
Surr: Toluene-d8	99	%		91-109	SW 8260B	02/04/2005	mae	7089	
Surr: Bromofluorobenzene	99	%		89-114	SW 8260B	02/04/2005	mae	7089	

ANALYTICAL REPORT

Mr. Ed Buc
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02/07/2005
Job No: 05.00589
Sample No: 604538
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: MW-3
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/28/2005 10:45

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae		7089
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae		7089
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae		7089
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae		7089

ANALYTICAL REPORT

Mr. Ed Buc
 ARCADIS
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02/07/2005
 Job No: 05.00589
 Sample No: 604538
 Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
 PROJECT DESCRIPTION: Groundwater Analysis
 SAMPLE DESCRIPTION: MW-3
 Wauwatosa, WI
 Rec'd on ice

Date/Time Taken: 01/28/2005 10:45

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae	7089
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7089
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7089
Xylenes, Total	0.86	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7089
Surr: Dibromofluoromethane	107	%		89-119	SW 8260B	02/04/2005	mae	7089
Surr: Toluene-d8	102	%		91-109	SW 8260B	02/04/2005	mae	7089
Surr: Bromofluorobenzene	102	%		89-114	SW 8260B	02/04/2005	mae	7089

ANALYTICAL REPORT

Mr. Ed Buc
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02/07/2005
Job No: 05.00589
Sample No: 604539
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Groundwater Analysis
SAMPLE DESCRIPTION: Trip Blank
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/28/2005 UNKNOWN

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
VOC - AQUEOUS - EPA 8260B								
Benzene	0.35	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae	7086
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
1,4-Dichlorobenzene	0.28	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086

ANALYTICAL REPORT

Mr. Ed Buc
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 126 N Jefferson Street
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02/07/2005
 Job No: 05.00589
 Sample No: 604539
 Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
 PROJECT DESCRIPTION: Groundwater Analysis
 SAMPLE DESCRIPTION: Trip Blank
 Wauwatosa, WI
 Rec'd on ice

Date/Time Taken: 01/28/2005 UNKNOWN

Date Received: 01/31/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	Batch
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
Methylene Chloride	L 1.2	ug/L	1.0	3.3	SW 8260B	02/04/2005	mae	7086	7086
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
Naphthalene	0.31	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086	7086
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
Styrene	1.4	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086	7086
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
Toluene	1.4	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086	7086
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086	7086
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	02/04/2005	mae	7086	7086
Trichloroethene	0.25	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
1,2,4-Trimethylbenzene	0.32	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	02/04/2005	mae	7086	7086
Xylenes, Total	3.1	ug/L	0.50	1.7	SW 8260B	02/04/2005	mae	7086	7086
Surr: Dibromofluoromethane	101	%		89-119	SW 8260B	02/04/2005	mae	7086	7086
Surr: Toluene-d8	101	%		91-109	SW 8260B	02/04/2005	mae	7086	7086
Surr: Bromofluorobenzene	101	%		89-114	SW 8260B	02/04/2005	mae	7086	7086

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

02/07/2005

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

Job No: 05.00589
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits
VOC - AQUEOUS - EPA 8260B					
Benzene	7086	50.0	52.1	104	80 - 120
Bromoform	7086	50.0	47.2	94	80 - 120
Chlorobenzene	7086	50.0	51.2	102	80 - 120
Chloroform	7086	50.0	53.2	106	80 - 120
Chloromethane	7086	50.0	43.5	87	80 - 120
1,1-Dichloroethane	7086	50.0	53.4	107	80 - 120
1,1-Dichloroethene	7086	50.0	52.8	106	80 - 120
1,2-Dichloropropane	7086	50.0	51.9	104	80 - 120
Ethylbenzene	7086	50.0	51.0	102	80 - 120
Methyl-t-butyl ether	7086	50.0	51.7	103	80 - 120
1,1,2,2-Tetrachloroethane	7086	50.0	53.6	107	80 - 120
Toluene	7086	50.0	50.5	101	80 - 120
Trichloroethene	7086	50.0	50.6	101	80 - 120
1,2,4-Trimethylbenzene	7086	50.0	53.2	106	80 - 120
1,3,5-Trimethylbenzene	7086	50.0	52.6	105	80 - 120
Vinyl Chloride	7086	50.0	48.9	98	80 - 120
Xylenes, Total	7086	150	152	101	80 - 120
Surr: Dibromofluoromethane	7086	50.0	50.6	101	88 - 112
Surr: Toluene-d8	7086	50.0	49.3	99	89 - 112
Surr: Bromofluorobenzene	7086	50.0	51.9	104	90 - 114
VOC - AQUEOUS - EPA 8260B					
Benzene	7089	50.0	52.5	105	80 - 120
Bromoform	7089	50.0	49.5	99	80 - 120
Chlorobenzene	7089	50.0	50.3	101	80 - 120
Chloroform	7089	50.0	52.5	105	80 - 120
Chloromethane	7089	50.0	52.0	104	80 - 120
1,1-Dichloroethane	7089	50.0	53.1	106	80 - 120
1,1-Dichloroethene	7089	50.0	50.7	101	80 - 120
1,2-Dichloropropane	7089	50.0	50.1	100	80 - 120
Ethylbenzene	7089	50.0	48.2	96	80 - 120
Methyl-t-butyl ether	7089	50.0	48.8	98	80 - 120
1,1,2,2-Tetrachloroethane	7089	50.0	50.6	101	80 - 120
Toluene	7089	50.0	50.2	100	80 - 120
Trichloroethene	7089	50.0	50.4	101	80 - 120
1,2,4-Trimethylbenzene	7089	50.0	49.4	99	80 - 120
1,3,5-Trimethylbenzene	7089	50.0	49.5	99	80 - 120
Vinyl Chloride	7089	50.0	49.5	99	80 - 120
Xylenes, Total	7089	150	150	100	80 - 120
Surr: Dibromofluoromethane	7089	50.0	53.1	106	88 - 112
Surr: Toluene-d8	7089	50.0	51.1	102	89 - 112
Surr: Bromofluorobenzene	7089	50.0	50.9	102	90 - 114

QUALITY CONTROL REPORT

BLANKS

02/07/2005

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

Job No: 05.00589
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
VOC - AQUEOUS - EPA 8260B						
Benzene		7086	<0.20	0.20	0.67	ug/L
Bromobenzene		7086	<0.20	0.20	0.67	ug/L
Bromochloromethane		7086	<0.50	0.50	1.7	ug/L
Bromodichloromethane		7086	<0.20	0.20	0.67	ug/L
Bromoform		7086	<0.20	0.20	0.67	ug/L
Bromomethane		7086	<0.20	0.20	0.67	ug/L
n-Butylbenzene		7086	<0.20	0.20	0.67	ug/L
sec-Butylbenzene		7086	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		7086	<0.20	0.20	0.67	ug/L
Carbon Tetrachloride		7086	<0.50	0.50	1.7	ug/L
Chlorobenzene		7086	<0.20	0.20	0.67	ug/L
Chlorodibromomethane		7086	<0.20	0.20	0.67	ug/L
Chloroethane		7086	<1.0	1.0	3.3	ug/L
Chloroform		7086	<0.20	0.20	0.67	ug/L
Chloromethane		7086	<0.20	0.20	0.67	ug/L
2-Chlorotoluene		7086	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		7086	<0.20	0.20	0.67	ug/L
1,2-Dibromo-3-Chloropropane		7086	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		7086	<0.20	0.20	0.67	ug/L
Dibromomethane		7086	<0.20	0.20	0.67	ug/L
1,2-Dichlorobenzene		7086	<0.20	0.20	0.67	ug/L
1,3-Dichlorobenzene		7086	<0.20	0.20	0.67	ug/L
1,4-Dichlorobenzene		7086	<0.20	0.20	0.67	ug/L
Dichlorodifluoromethane		7086	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		7086	<0.50	0.50	1.7	ug/L
1,2-Dichloroethane		7086	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		7086	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		7086	<0.50	0.50	1.7	ug/L
trans-1,2-Dichloroethene		7086	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		7086	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		7086	<0.25	0.25	0.83	ug/L
2,2-Dichloropropane		7086	<0.50	0.50	1.7	ug/L
1,1-Dichloropropene		7086	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		7086	<0.20	0.20	0.67	ug/L
trans-1,3-Dichloropropene		7086	<0.20	0.20	0.67	ug/L
Di-isopropyl ether		7086	<0.50	0.50	1.7	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT BLANKS

02/07/2005

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

Job No: 05.00589
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Ethylbenzene		7086	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		7086	<0.50	0.50	1.7	ug/L
Isopropylbenzene		7086	<0.20	0.20	0.67	ug/L
p-Isopropyltoluene		7086	<0.20	0.20	0.67	ug/L
Methylene Chloride		7086	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		7086	<0.50	0.50	1.7	ug/L
Naphthalene		7086	<0.25	0.25	0.83	ug/L
n-Propylbenzene		7086	<0.50	0.50	1.7	ug/L
Styrene		7086	<0.20	0.20	0.67	ug/L
1,1,1,2-Tetrachloroethane		7086	<0.25	0.25	0.83	ug/L
1,1,2,2-Tetrachloroethane		7086	<0.20	0.20	0.67	ug/L
Tetrachloroethene		7086	<0.50	0.50	1.7	ug/L
Toluene		7086	<0.20	0.20	0.67	ug/L
1,2,3-Trichlorobenzene		7086	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		7086	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		7086	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		7086	<0.25	0.25	0.83	ug/L
Trichloroethene		7086	<0.20	0.20	0.67	ug/L
Trichlorofluoromethane		7086	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		7086	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		7086	<0.20	0.20	0.67	ug/L
1,3,5-Trimethylbenzene		7086	<0.20	0.20	0.67	ug/L
Vinyl Chloride		7086	<0.20	0.20	0.67	ug/L
Xylenes, Total		7086	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		7086	101.2		89-119	%
Surr: Toluene-d8		7086	99.8		91-109	%
Surr: Bromofluorobenzene		7086	100.8		89-114	%
VOC - AQUEOUS - EPA 8260B						
Benzene		7089	<0.20	0.20	0.67	ug/L
Bromobenzene		7089	<0.20	0.20	0.67	ug/L
Bromochloromethane		7089	<0.50	0.50	1.7	ug/L
Bromodichloromethane		7089	<0.20	0.20	0.67	ug/L
Bromoform		7089	<0.20	0.20	0.67	ug/L
Bromomethane		7089	<0.20	0.20	0.67	ug/L
n-Butylbenzene		7089	<0.20	0.20	0.67	ug/L
sec-Butylbenzene		7089	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		7089	<0.20	0.20	0.67	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT

BLANKS

02/07/2005

Mr. Ed Buc
 ARCADIS
 126 N Jefferson Street
 Suite 400
 Milwaukee, WI 53202

Job No: 05.00589
 Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Carbon Tetrachloride		7089	<0.50	0.50	1.7	ug/L
Chlorobenzene		7089	<0.20	0.20	0.67	ug/L
Chlorodibromomethane		7089	<0.20	0.20	0.67	ug/L
Chloroethane		7089	<1.0	1.0	3.3	ug/L
Chloroform		7089	<0.20	0.20	0.67	ug/L
Chloromethane		7089	<0.20	0.20	0.67	ug/L
2-Chlorotoluene		7089	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		7089	<0.20	0.20	0.67	ug/L
1,2-Dibromo-3-Chloropropane		7089	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		7089	<0.20	0.20	0.67	ug/L
Dibromomethane		7089	<0.20	0.20	0.67	ug/L
1,2-Dichlorobenzene		7089	<0.20	0.20	0.67	ug/L
1,3-Dichlorobenzene		7089	<0.20	0.20	0.67	ug/L
1,4-Dichlorobenzene		7089	<0.20	0.20	0.67	ug/L
Dichlorodifluoromethane		7089	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		7089	<0.50	0.50	1.7	ug/L
1,2-Dichloroethane		7089	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		7089	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		7089	<0.50	0.50	1.7	ug/L
trans-1,2-Dichloroethene		7089	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		7089	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		7089	<0.25	0.25	0.83	ug/L
2,2-Dichloropropane		7089	<0.50	0.50	1.7	ug/L
1,1-Dichloropropene		7089	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		7089	<0.20	0.20	0.67	ug/L
trans-1,3-Dichloropropene		7089	<0.20	0.20	0.67	ug/L
Di-isopropyl ether		7089	<0.50	0.50	1.7	ug/L
Ethylbenzene		7089	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		7089	<0.50	0.50	1.7	ug/L
Isopropylbenzene		7089	<0.20	0.20	0.67	ug/L
p-Isopropyltoluene		7089	<0.20	0.20	0.67	ug/L
Methylene Chloride		7089	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		7089	<0.50	0.50	1.7	ug/L
Naphthalene		7089	<0.25	0.25	0.83	ug/L
n-Propylbenzene		7089	<0.50	0.50	1.7	ug/L
Styrene		7089	<0.20	0.20	0.67	ug/L
1,1,1,2-Tetrachloroethane		7089	<0.25	0.25	0.83	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT BLANKS

02/07/2005

Mr. Ed Buc
 ARCADIS
 126 N Jefferson Street
 Suite 400
 Milwaukee, WI 53202

Job No: 05.00589
 Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
1,1,2,2-Tetrachloroethane		7089	<0.20	0.20	0.67	ug/L
Tetrachloroethene		7089	<0.50	0.50	1.7	ug/L
Toluene		7089	<0.20	0.20	0.67	ug/L
1,2,3-Trichlorobenzene		7089	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		7089	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		7089	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		7089	<0.25	0.25	0.83	ug/L
Trichloroethene		7089	<0.20	0.20	0.67	ug/L
Trichlorofluoromethane		7089	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		7089	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		7089	<0.20	0.20	0.67	ug/L
1,3,5-Trimethylbenzene		7089	<0.20	0.20	0.67	ug/L
Vinyl Chloride		7089	<0.20	0.20	0.67	ug/L
Xylenes, Total		7089	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		7089	102.0		89-119	%
Surr: Toluene-d8		7089	98.6		91-109	%
Surr: Bromofluorobenzene		7089	98.6		89-114	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

02/07/2005

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

Job No: 05.00589
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Analyte	Prep	Run	Sample Result	Spike Amount	Units	Matrix	MSD Result	MS	MSD	Relative Control Limits	Percent Difference
	Batch Number	Batch Number				Spike		MSD Percent Recovery	MSD Percent Recovery		
VOC - AQUEOUS - EPA 8260B											
Benzene		7086	0.51	50.0	ug/L	50.8	51.4	101	102	80 - 121	1.2
Chlorobenzene		7086	<0.20	50.0	ug/L	54.0	50.3	108	101	85 - 116	7.1
1,1-Dichloroethene		7086	<0.50	50.0	ug/L	52.2	42.9	104	86	72 - 131	20
Ethylbenzene		7086	0.96	50.0	ug/L	53.5	51.0	105	100	83 - 118	4.8
Methyl-t-butyl ether		7086	1.8	50.0	ug/L	51.0	52.4	98	101	71 - 127	2.7
Toluene		7086	1.8	50.0	ug/L	51.4	51.6	99	100	82 - 116	0.4
Trichloroethene		7086	0.21	50.0	ug/L	49.9	49.4	99	98	80 - 117	1.0
1,2,4-Trimethylbenzene		7086	5.0	50.0	ug/L	55.6	55.2	101	100	80 - 122	0.7
1,3,5-Trimethylbenzene		7086	1.6	50.0	ug/L	55.3	55.8	107	108	83 - 122	0.9
Xylenes, Total		7086	10	150	ug/L	161	157	101	98	84 - 119	2.5
Surr: Dibromofluoromethane		7086	51.1	50.0	ug/L	50.8	51.0	102	102	88 - 112	0.4
Surr: Toluene-d8		7086	50.4	50.0	ug/L	49.9	50.2	100	100	89 - 112	0.6
Surr: Bromofluorobenzene		7086	50.0	50.0	ug/L	50.3	51.6	101	103	90 - 114	2.6
VOC - AQUEOUS - EPA 8260B											
Benzene		7089	<0.20	50.0	ug/L	47.7	54.0	95	108	80 - 121	12
Chlorobenzene		7089	<0.20	50.0	ug/L	45.3	50.8	91	102	85 - 116	11
1,1-Dichloroethene		7089	<0.50	50.0	ug/L	47.7	53.0	95	106	72 - 131	11
Ethylbenzene		7089	<0.50	50.0	ug/L	43.9	49.0	88	98	83 - 118	11
Methyl-t-butyl ether		7089	<0.50	50.0	ug/L	46.5	52.8	93	106	71 - 127	13
Toluene		7089	<0.20	50.0	ug/L	45.8	51.7	92	103	82 - 116	12
Trichloroethene		7089	<0.20	50.0	ug/L	46.2	52.5	92	105	80 - 117	13
1,2,4-Trimethylbenzene		7089	<0.20	50.0	ug/L	45.0	50.8	90	102	80 - 122	12
1,3,5-Trimethylbenzene		7089	<0.20	50.0	ug/L	45.2	50.7	90	101	83 - 122	12
Xylenes, Total		7089	<0.50	150	ug/L	137	153	91	102	84 - 119	11
Surr: Dibromofluoromethane		7089	53.2	50.0	ug/L	52.2	52.8	104	106	88 - 112	1.1
Surr: Toluene-d8		7089	50.5	50.0	ug/L	51.1	50.7	102	101	89 - 112	0.8
Surr: Bromofluorobenzene		7089	50.5	50.0	ug/L	51.1	50.6	102	101	90 - 114	1.0

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

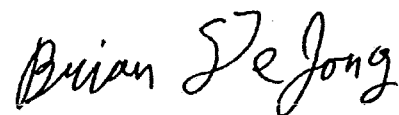
01/27/2005
Job No: 05.00327
Page 1 of 16

The following samples were received by TestAmerica for analysis:

WI000943.0002 Hoffman Cleaners

Sample Number	Sample Description	Date Taken	Date Received
603598	MW-1 10-12	01/19/2005	01/20/2005
603599	MW-2 10-12	01/19/2005	01/20/2005
603600	MW-3 10-12	01/19/2005	01/20/2005

Soil results reported
on a dry weight basis.



Brian DeJong
Organic Operations Manager

ARCADIS
Job No: 05.00327

01/27/2005
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KEY TO DATA FLAGS

The attached 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
E = TCLP extraction outside of method required temperature range	
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
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
* = See Case Narrative	

KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
090	ILNELAC 200006; WDNR - 399031270
130	WDNR - 632021390
147	WDNR - 721026460
148	WDNR - 399017190
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown Certifications: WI DNR - 128053530; IL NELAC - 100453; IA DNR - 294; MN DoH - 055-999-366; ND DoH R-046; AR DEQ - 88-0808

Unless sub-contracted (see above), volatiles analyses (including VOC, PVOC, GRO, BTEX and TPH Gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at 602 Commerce Drive, Watertown WI 53094.

Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005
Job No: 05.00327
Sample No: 603598
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: MW-1 10-12
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/19/2005 09:19

Date Received: 01/20/2005

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	85.8	%	n/a	SW 5035	01/24/2005	amf	5940	
VOC - METHANOL - 8260B								
Benzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Bromobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Bromochloromethane	<41	ug/kg	35	SW 8260B	01/26/2005	eml	3230	
Bromodichloromethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Bromoform	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Bromomethane	<117	ug/kg	100	SW 8260B	01/26/2005	eml	3230	
n-Butylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
sec-Butylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
tert-Butylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Carbon Tetrachloride	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Chlorobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Chlorodibromomethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Chloroethane	<58	ug/kg	50	SW 8260B	01/26/2005	eml	3230	
Chloroform	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Chloromethane	<58	ug/kg	50	SW 8260B	01/26/2005	eml	3230	
2-Chlorotoluene	<58	ug/kg	50	SW 8260B	01/26/2005	eml	3230	
4-Chlorotoluene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,2-Dibromo-3-Chloropropane	<58	ug/kg	50	SW 8260B	01/26/2005	eml	3230	
1,2-Dibromoethane (EDB)	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Dibromomethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,2-Dichlorobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,3-Dichlorobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,4-Dichlorobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Dichlorodifluoromethane	<58	ug/kg	50	SW 8260B	01/26/2005	eml	3230	
1,1-Dichloroethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,2-Dichloroethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,1-Dichloroethene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
cis-1,2-Dichloroethene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
trans-1,2-Dichloroethene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,2-Dichloropropane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,3-Dichloropropane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
2,2-Dichloropropane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
1,1-Dichloropropene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
cis-1,3-Dichloropropene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
trans-1,3-Dichloropropene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Di-isopropyl ether	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	
Ethylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230	

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005
Job No: 05.00327
Sample No: 603598
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: MW-1 10-12
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/19/2005 09:19

Date Received: 01/20/2005

Parameter	Results	Units	Reporting		Date		Prep/Run
			Limit	Method	Analyzed	Analyst	Batch
Hexachlorobutadiene	<41	ug/kg	35	SW 8260B	01/26/2005	eml	3230
Isopropylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
p-Isopropyltoluene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Methylene Chloride	L 72	ug/kg	50	SW 8260B	01/26/2005	eml	3230
Methyl-t-butyl ether	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Naphthalene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
n-Propylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Styrene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,1,1,2-Tetrachloroethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,1,2,2-Tetrachloroethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Tetrachloroethene	2,800	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Toluene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,2,3-Trichlorobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,2,4-Trichlorobenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,1,1-Trichloroethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,1,2-Trichloroethane	<41	ug/kg	35	SW 8260B	01/26/2005	eml	3230
Trichloroethene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Trichlorofluoromethane	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,2,3-Trichloropropane	<117	ug/kg	100	SW 8260B	01/26/2005	eml	3230
1,2,4-Trimethylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
1,3,5-Trimethylbenzene	<29	ug/kg	25	SW 8260B	01/26/2005	eml	3230
Vinyl Chloride	<41	ug/kg	35	SW 8260B	01/26/2005	eml	3230
Xylenes, Total	<41	ug/kg	35	SW 8260B	01/26/2005	eml	3230
Surr: Dibromofluoromethane	96	%	82-112	SW 8260B	01/26/2005	eml	3230
Surr: Toluene-d8	105	%	91-106	SW 8260B	01/26/2005	eml	3230
Surr: Bromofluorobenzene	95	%	89-110	SW 8260B	01/26/2005	eml	3230

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005
Job No: 05.00327
Sample No: 603599
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: MW-2 10-12
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/19/2005 12:38

Date Received: 01/20/2005

Parameter	Results	Units	Reporting		Date		Prep/Run	
			Limit	Method	Analyzed	Analyst	Batch	
Solids, Total	88.8	%	n/a	SW 5035	01/24/2005	amf		5940
VOC - METHANOL - 8260B								
Benzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Bromobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Bromochloromethane	<39	ug/kg	35	SW 8260B	01/25/2005	aba		3228
Bromodichloromethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Bromoform	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Bromomethane	<113	ug/kg	100	SW 8260B	01/25/2005	aba		3228
n-Butylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
sec-Butylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
tert-Butylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Carbon Tetrachloride	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Chlorobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Chlorodibromomethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Chloroethane	<56	ug/kg	50	SW 8260B	01/25/2005	aba		3228
Chloroform	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Chloromethane	<56	ug/kg	50	SW 8260B	01/25/2005	aba		3228
2-Chlorotoluene	<56	ug/kg	50	SW 8260B	01/25/2005	aba		3228
4-Chlorotoluene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,2-Dibromo-3-Chloropropane	<56	ug/kg	50	SW 8260B	01/25/2005	aba		3228
1,2-Dibromoethane (EDB)	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Dibromomethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,2-Dichlorobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,3-Dichlorobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,4-Dichlorobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Dichlorodifluoromethane	<56	ug/kg	50	SW 8260B	01/25/2005	aba		3228
1,1-Dichloroethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,2-Dichloroethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,1-Dichloroethene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
cis-1,2-Dichloroethene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
trans-1,2-Dichloroethene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,2-Dichloropropane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,3-Dichloropropane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
2,2-Dichloropropane	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
1,1-Dichloropropene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
cis-1,3-Dichloropropene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
trans-1,3-Dichloropropene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Di-isopropyl ether	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228
Ethylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba		3228

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005
Job No: 05.00327
Sample No: 603599
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: MW-2 10-12
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/19/2005 12:38

Date Received: 01/20/2005

Parameter	Results	Units	Reporting		Date		Prep/Run
			Limit	Method	Analyzed	Analyst	Batch
Hexachlorobutadiene	<39	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Isopropylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
p-Isopropyltoluene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Methylene Chloride	L 96	ug/kg	50	SW 8260B	01/25/2005	aba	3228
Methyl-t-butyl ether	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Naphthalene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
n-Propylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Styrene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,1,2-Tetrachloroethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,2,2-Tetrachloroethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Tetrachloroethene	3,720	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Toluene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2,3-Trichlorobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2,4-Trichlorobenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,1-Trichloroethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,2-Trichloroethane	<39	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Trichloroethene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Trichlorofluoromethane	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2,3-Trichloropropane	<113	ug/kg	100	SW 8260B	01/25/2005	aba	3228
1,2,4-Trimethylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,3,5-Trimethylbenzene	<28	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Vinyl Chloride	<39	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Xylenes, Total	<39	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Surr: Dibromofluoromethane	91	%	82-112	SW 8260B	01/25/2005	aba	3228
Surr: Toluene-d8	102	%	91-106	SW 8260B	01/25/2005	aba	3228
Surr: Bromofluorobenzene	98	%	89-110	SW 8260B	01/25/2005	aba	3228

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005
Job No: 05.00327
Sample No: 603600
Account No: 32050
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JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: MW-3 10-12
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/19/2005 13:56

Date Received: 01/20/2005

Parameter	Results	Units	Reporting		Date		Prep/Run
			Limit	Method	Analyzed	Analyst	Batch
Solids, Total	80.5	%	n/a	SW 5035	01/24/2005	amf	5940
VOC - METHANOL - 8260B							
Benzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Bromobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Bromochloromethane	<43	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Bromodichloromethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Bromoform	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Bromomethane	<124	ug/kg	100	SW 8260B	01/25/2005	aba	3228
n-Butylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Chlorobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Chloroethane	<62	ug/kg	50	SW 8260B	01/25/2005	aba	3228
Chloroform	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Chloromethane	<62	ug/kg	50	SW 8260B	01/25/2005	aba	3228
2-Chlorotoluene	<62	ug/kg	50	SW 8260B	01/25/2005	aba	3228
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	01/25/2005	aba	3228
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Dibromomethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Dichlorodifluoromethane	<62	ug/kg	50	SW 8260B	01/25/2005	aba	3228
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Ethylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228

ANALYTICAL REPORT

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005
Job No: 05.00327
Sample No: 603600
Account No: 32050
Page 8 of 16

JOB DESCRIPTION: WI000943.0002 Hoffman Cleaners
PROJECT DESCRIPTION: Soil Analysis
SAMPLE DESCRIPTION: MW-3 10-12
Wauwatosa, WI
Rec'd on ice

Date/Time Taken: 01/19/2005 13:56

Date Received: 01/20/2005

Parameter	Results	Units	Reporting	Method	Date		Prep/Run
			Limit		Analyzed	Analyst	Batch
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Isopropylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Methylene Chloride	<62	ug/kg	50	SW 8260B	01/25/2005	aba	3228
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Naphthalene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
n-Propylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Styrene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Tetrachloroethene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Toluene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,1,2-Trichloroethane	<43	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Trichloroethene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,2,3-Trichloropropane	<124	ug/kg	100	SW 8260B	01/25/2005	aba	3228
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	01/25/2005	aba	3228
Vinyl Chloride	<43	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Xylenes, Total	<43	ug/kg	35	SW 8260B	01/25/2005	aba	3228
Surr: Dibromofluoromethane	91	%	82-112	SW 8260B	01/25/2005	aba	3228
Surr: Toluene-d8	100	%	91-106	SW 8260B	01/25/2005	aba	3228
Surr: Bromofluorobenzene	96	%	89-110	SW 8260B	01/25/2005	aba	3228

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Mr. Ed Buc
ARCADIS
126 N Jefferson Street
Suite 400
Milwaukee, WI 53202

01/27/2005

Job No: 05.00327
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits
VOC - METHANOL - 8260B					
Benzene	3228	50.0	48.8	98	85 - 115
Bromoform	3228	50.0	49.9	100	
Chlorobenzene	3228	50.0	47.5	95	85 - 115
Chloroform	3228	50.0	48.0	96	80 - 120
Chloromethane	3228	50.0	48.8	98	
1,1-Dichloroethane	3228	50.0	48.4	97	
1,1-Dichloroethene	3228	50.0	48.9	98	80 - 120
1,2-Dichloropropane	3228	50.0	49.1	98	80 - 120
Di-isopropyl ether	3228	50.0	52.8	106	
Ethylbenzene	3228	50.0	47.3	95	80 - 120
Methyl-t-butyl ether	3228	50.0	52.7	105	80 - 120
1,1,2,2-Tetrachloroethane	3228	50.0	48.0	96	
Toluene	3228	50.0	48.7	97	80 - 120
Trichloroethene	3228	50.0	47.8	96	
1,2,4-Trimethylbenzene	3228	50.0	47.1	94	
1,3,5-Trimethylbenzene	3228	50.0	46.9	94	
Vinyl Chloride	3228	50.0	53.9	108	80 - 120
Xylenes, Total	3228	150	140	93	
Surr: Dibromofluoromethane	3228	50.0	49.4	99	87 - 111
Surr: Toluene-d8	3228	50.0	49.8	100	88 - 110
Surr: Bromofluorobenzene	3228	50.0	49.6	99	90 - 108
VOC - METHANOL - 8260B					
Benzene	3230	50.0	46.8	94	85 - 115
Bromoform	3230	50.0	43.5	87	
Chlorobenzene	3230	50.0	44.8	90	85 - 115
Chloroform	3230	50.0	42.4	85	80 - 120
Chloromethane	3230	50.0	40.8	82	
1,1-Dichloroethane	3230	50.0	43.7	87	
1,1-Dichloroethene	3230	50.0	43.9	88	80 - 120
1,2-Dichloropropane	3230	50.0	47.6	95	80 - 120
Di-isopropyl ether	3230	50.0	44.2	88	
Ethylbenzene	3230	50.0	47.2	94	80 - 120
Methyl-t-butyl ether	3230	50.0	43.6	87	80 - 120
1,1,2,2-Tetrachloroethane	3230	50.0	52.4	105	
Toluene	3230	50.0	45.6	91	80 - 120
Trichloroethene	3230	50.0	45.0	90	
1,2,4-Trimethylbenzene	3230	50.0	46.1	92	
1,3,5-Trimethylbenzene	3230	50.0	45.4	91	
Vinyl Chloride	3230	50.0	43.4	87	80 - 120
Xylenes, Total	3230	150	134	89	
Surr: Dibromofluoromethane	3230	50.0	46.6	93	87 - 111

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Mr. Ed Buc
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01/27/2005

Job No: 05.00327
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits
Surr: Toluene-d8	3230	50.0	50.1	100	88 - 110
Surr: Bromofluorobenzene	3230	50.0	49.7	99	90 - 108

QUALITY CONTROL REPORT BLANKS

01/27/2005

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Job No: 05.00327
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
VOC - METHANOL - 8260B					
Benzene		3228	<25	25	ug/kg
Bromobenzene		3228	<25	25	ug/kg
Bromochloromethane		3228	<35	35	ug/kg
Bromodichloromethane		3228	<25	25	ug/kg
Bromoform		3228	<25	25	ug/kg
Bromomethane		3228	<100	100	ug/kg
n-Butylbenzene		3228	<25	25	ug/kg
sec-Butylbenzene		3228	<25	25	ug/kg
tert-Butylbenzene		3228	<25	25	ug/kg
Carbon Tetrachloride		3228	<25	25	ug/kg
Chlorobenzene		3228	<25	25	ug/kg
Chlorodibromomethane		3228	<25	25	ug/kg
Chloroethane		3228	<50	50	ug/kg
Chloroform		3228	<25	25	ug/kg
Chloromethane		3228	<50	50	ug/kg
2-Chlorotoluene		3228	<50	50	ug/kg
4-Chlorotoluene		3228	<25	25	ug/kg
1,2-Dibromo-3-Chloropropane		3228	<50	50	ug/kg
1,2-Dibromoethane (EDB)		3228	<25	25	ug/kg
Dibromomethane		3228	<25	25	ug/kg
1,2-Dichlorobenzene		3228	<25	25	ug/kg
1,3-Dichlorobenzene		3228	<25	25	ug/kg
1,4-Dichlorobenzene		3228	<25	25	ug/kg
Dichlorodifluoromethane		3228	<50	50	ug/kg
1,1-Dichloroethane		3228	<25	25	ug/kg
1,2-Dichloroethane		3228	<25	25	ug/kg
1,1-Dichloroethene		3228	<25	25	ug/kg
cis-1,2-Dichloroethene		3228	<25	25	ug/kg
trans-1,2-Dichloroethene		3228	<25	25	ug/kg
1,2-Dichloropropane		3228	<25	25	ug/kg
1,3-Dichloropropane		3228	<25	25	ug/kg
2,2-Dichloropropane		3228	<25	25	ug/kg
1,1-Dichloropropene		3228	<25	25	ug/kg
cis-1,3-Dichloropropene		3228	<25	25	ug/kg
trans-1,3-Dichloropropene		3228	<25	25	ug/kg
Di-isopropyl ether		3228	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT BLANKS

01/27/2005

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Job No: 05.00327
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Ethylbenzene		3228	<25	25	ug/kg
Hexachlorobutadiene		3228	<35	35	ug/kg
Isopropylbenzene		3228	<25	25	ug/kg
p-Isopropyltoluene		3228	<25	25	ug/kg
Methylene Chloride		3228	<50	50	ug/kg
Methyl-t-butyl ether		3228	<25	25	ug/kg
Naphthalene		3228	<25	25	ug/kg
n-Propylbenzene		3228	<25	25	ug/kg
Styrene		3228	<25	25	ug/kg
1,1,1,2-Tetrachloroethane		3228	<25	25	ug/kg
1,1,2,2-Tetrachloroethane		3228	<25	25	ug/kg
Tetrachloroethene		3228	<25	25	ug/kg
Toluene		3228	<25	25	ug/kg
1,2,3-Trichlorobenzene		3228	<25	25	ug/kg
1,2,4-Trichlorobenzene		3228	<25	25	ug/kg
1,1,1-Trichloroethane		3228	<25	25	ug/kg
1,1,2-Trichloroethane		3228	<35	35	ug/kg
Trichloroethene		3228	<25	25	ug/kg
Trichlorofluoromethane		3228	<25	25	ug/kg
1,2,3-Trichloropropane		3228	<100	100	ug/kg
1,2,4-Trimethylbenzene		3228	<25	25	ug/kg
1,3,5-Trimethylbenzene		3228	<25	25	ug/kg
Vinyl Chloride		3228	<35	35	ug/kg
Xylenes, Total		3228	<35	35	ug/kg
Surr: Dibromofluoromethane		3228	101.6	82-112	%
Surr: Toluene-d8		3228	100.0	91-106	%
Surr: Bromofluorobenzene		3228	97.0	89-110	%
VOC - METHANOL - 8260B					
Benzene		3230	<25	25	ug/kg
Bromobenzene		3230	<25	25	ug/kg
Bromochloromethane		3230	<35	35	ug/kg
Bromodichloromethane		3230	<25	25	ug/kg
Bromoform		3230	<25	25	ug/kg
Bromomethane		3230	<100	100	ug/kg
n-Butylbenzene		3230	<25	25	ug/kg
sec-Butylbenzene		3230	<25	25	ug/kg
tert-Butylbenzene		3230	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT

BLANKS

01/27/2005

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 Milwaukee, WI 53202

Job No: 05.00327
 Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Carbon Tetrachloride		3230	<25	25	ug/kg
Chlorobenzene		3230	<25	25	ug/kg
Chlorodibromomethane		3230	<25	25	ug/kg
Chloroethane		3230	<50	50	ug/kg
Chloroform		3230	<25	25	ug/kg
Chloromethane		3230	<50	50	ug/kg
2-Chlorotoluene		3230	<50	50	ug/kg
4-Chlorotoluene		3230	<25	25	ug/kg
1,2-Dibromo-3-Chloropropane		3230	<50	50	ug/kg
1,2-Dibromoethane (EDB)		3230	<25	25	ug/kg
Dibromomethane		3230	<25	25	ug/kg
1,2-Dichlorobenzene		3230	<25	25	ug/kg
1,3-Dichlorobenzene		3230	<25	25	ug/kg
1,4-Dichlorobenzene		3230	<25	25	ug/kg
Dichlorodifluoromethane		3230	<50	50	ug/kg
1,1-Dichloroethane		3230	<25	25	ug/kg
1,2-Dichloroethane		3230	<25	25	ug/kg
1,1-Dichloroethene		3230	<25	25	ug/kg
cis-1,2-Dichloroethene		3230	<25	25	ug/kg
trans-1,2-Dichloroethene		3230	<25	25	ug/kg
1,2-Dichloropropane		3230	<25	25	ug/kg
1,3-Dichloropropane		3230	<25	25	ug/kg
2,2-Dichloropropane		3230	<25	25	ug/kg
1,1-Dichloropropene		3230	<25	25	ug/kg
cis-1,3-Dichloropropene		3230	<25	25	ug/kg
trans-1,3-Dichloropropene		3230	<25	25	ug/kg
Di-isopropyl ether		3230	<25	25	ug/kg
Ethylbenzene		3230	<25	25	ug/kg
Hexachlorobutadiene		3230	<35	35	ug/kg
Isopropylbenzene		3230	<25	25	ug/kg
p-Isopropyltoluene		3230	<25	25	ug/kg
Methylene Chloride		3230	<50	50	ug/kg
Methyl-t-butyl ether		3230	<25	25	ug/kg
Naphthalene		3230	<25	25	ug/kg
n-Propylbenzene		3230	<25	25	ug/kg
Styrene		3230	<25	25	ug/kg
1,1,1,2-Tetrachloroethane		3230	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT BLANKS

01/27/2005

Mr. Ed Buc
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Job No: 05.00327
 Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
1,1,2,2-Tetrachloroethane		3230	<25	25	ug/kg
Tetrachloroethene		3230	<25	25	ug/kg
Toluene		3230	<25	25	ug/kg
1,2,3-Trichlorobenzene		3230	<25	25	ug/kg
1,2,4-Trichlorobenzene		3230	<25	25	ug/kg
1,1,1-Trichloroethane		3230	<25	25	ug/kg
1,1,2-Trichloroethane		3230	<35	35	ug/kg
Trichloroethene		3230	<25	25	ug/kg
Trichlorofluoromethane		3230	<25	25	ug/kg
1,2,3-Trichloropropane		3230	<100	100	ug/kg
1,2,4-Trimethylbenzene		3230	<25	25	ug/kg
1,3,5-Trimethylbenzene		3230	<25	25	ug/kg
Vinyl Chloride		3230	<35	35	ug/kg
Xylenes, Total		3230	<35	35	ug/kg
Surr: Dibromofluoromethane		3230	92.0	82-112	%
Surr: Toluene-d8		3230	106.4	91-106	%
Surr: Bromofluorobenzene		3230	93.4	89-110	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

01/27/2005

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Job No: 05.00327
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Analyte	Prep	Run	LCS Amount	Units	LCS Result	LCSD Result	LCS	LCSD	Relative Control Limits	Relative Percent Difference
	Batch	Batch					Percent	Percent		
VOC - METHANOL - 8260B										
Benzene		3228	50.0	ug/kg	46.2	46.0	92	92	64 - 124	0.4
Chlorobenzene		3228	50.0	ug/kg	46.6	46.6	93	93	80 - 123	0.0
1,1-Dichloroethene		3228	50.0	ug/kg	45.5	44.5	91	89	43 - 141	2.2
Ethylbenzene		3228	50.0	ug/kg	47.9	45.8	96	92	79 - 122	4.5
Methyl-t-butyl ether		3228	50.0	ug/kg	47.2	49.4	94	99	55 - 137	4.6
Toluene		3228	50.0	ug/kg	48.2	47.0	96	94	78 - 120	2.5
Trichloroethene		3228	50.0	ug/kg	46.5	45.7	93	91	78 - 124	1.7
1,2,4-Trimethylbenzene		3228	50.0	ug/kg	46.9	45.3	94	91	75 - 128	3.5
1,3,5-Trimethylbenzene		3228	50.0	ug/kg	47.1	45.6	94	91	76 - 127	3.2
Xylenes, Total		3228	150	ug/kg	141	139	94	93	79 - 122	1.4
Surr: Dibromofluoromethane		3228	50.0	ug/L	48.2	46.5	96	93	87 - 111	3.6
Surr: Toluene-d8		3228	50.0	ug/L	51.3	50.8	103	102	88 - 110	1.0
Surr: Bromofluorobenzene		3228	50.0	ug/L	49.2	48.9	98	98	90 - 108	0.6
VOC - METHANOL - 8260B										
Benzene		3230	50.0	ug/kg	45.9	53.4	92	107	64 - 124	15
Chlorobenzene		3230	50.0	ug/kg	43.8	49.6	88	99	80 - 123	12
1,1-Dichloroethene		3230	50.0	ug/kg	44.2	50.2	88	100	43 - 141	13
Ethylbenzene		3230	50.0	ug/kg	44.7	52.3	89	105	79 - 122	16
Methyl-t-butyl ether		3230	50.0	ug/kg	46.2	51.9	92	104	55 - 137	12
Toluene		3230	50.0	ug/kg	44.2	54.6	88	109	78 - 120	21
Trichloroethene		3230	50.0	ug/kg	44.7	51.1	89	102	78 - 124	13
1,2,4-Trimethylbenzene		3230	50.0	ug/kg	44.8	48.9	90	98	75 - 128	8.8
1,3,5-Trimethylbenzene		3230	50.0	ug/kg	44.3	48.8	89	98	76 - 127	9.7
Xylenes, Total		3230	150	ug/kg	132	149	88	99	79 - 122	12
Surr: Dibromofluoromethane		3230	50.0	ug/L	47.9	49.3	96	99	87 - 111	2.9
Surr: Toluene-d8		3230	50.0	ug/L	50.9	53.8	102	108	88 - 110	5.5
Surr: Bromofluorobenzene		3230	50.0	ug/L	50.6	47.7	101	95	90 - 108	5.9

**QUALITY CONTROL REPORT
DUPLICATES**

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Suite 400
Milwaukee, WI 53202

01/27/2005

Job No: 05.00327
Account No: 32050

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Job Description: WI000943.0002 Hoffman Cleaners

Parameter	Prep Batch Number	Run Batch Number	Sample Value	Duplicate Value	Units	RPD	Control Limit
Solids, Total		5940	80.5	80.9	%	0.5	
Solids, Total		5940	88.3	88.4	%	0.1	

ARCADIS

Appendix E

NR 712 Certification

Submittal Certification

This attachment was prepared to satisfy the requirements of Wisconsin Administrative Code Chapter NR 712.09 and is applicable to the following document, dated May 2, 2005.

Site Investigation and Closure Report

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

Signature, title and P.E. number

P.E. stamp

“I, _____, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.”

Signature and title

Date

“I, _____, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.”

Signature and title

Date