APPENDIX I

PHASE I ENVIRONMENTAL SITE ASSESSMENT

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ENVIRONMENTAL SITE ASSESSMENT

MENOMINEE CASINO-HOTEL

Prepared For:

U.S. Department of the Interior
Bureau of Indian Affairs
Midwest Regional Office
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Fort Snelling, MN 55111-400

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JANUARY 2005

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SECTION 1.0

INTRODUCTION

SECTION 1.0
INTRODUCTION

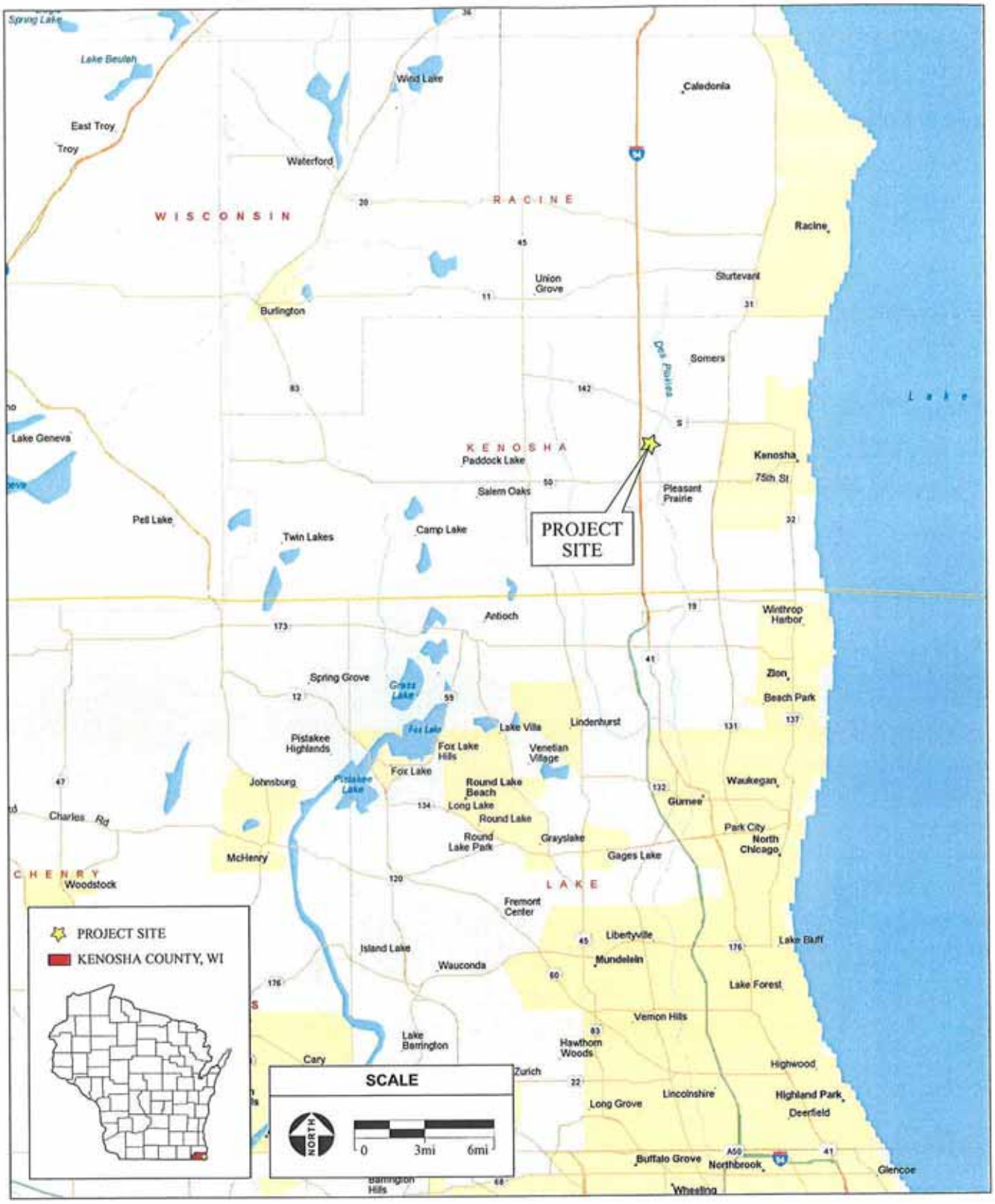
1.1 PURPOSE

Analytical Environmental Services (AES) has been retained by the Menominee Tribe of Wisconsin (hereafter, "Tribe") and the Bureau of Indian Affairs (BIA) to prepare this Phase I Environmental Site Assessment (ESA) in accordance with the American Society for Testing and Materials (ASTM) Standard Practice E 1527-00 for Environmental Site Assessments and BIA guidelines. The purpose of this assessment is to identify environmental conditions and hazardous materials involvement that may pose a material risk to human health or to the environment, or in any way affect the planned use of the project site. This Phase I ESA encompasses one parcel consisting of approximately 223 acres. The proposed project site is approximately 0.5 miles east of Interstate 94 and approximately 35 miles south of Milwaukee, WI **(Figures 1 and 2)**. This Phase I ESA is intended to satisfy the appropriate inquiry requirements for the innocent landowner defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

The ESA covers the project site, adjacent areas, and surrounding known sources of contamination, up to 1.0 mile from a point roughly equivalent to the middle of the project site. Site reconnaissance inspections of the project site and adjacent properties were performed, local agencies were contacted and relevant database listings of hazardous waste sites, hazardous waste generators, and underground storage tanks were reviewed. AES also reviewed historical aerial photographs (**Appendix A**) and historical topographic maps (**Appendix B**) of the project site. The historical aerial photographs available for review were from 1963, 1967, and 1980.

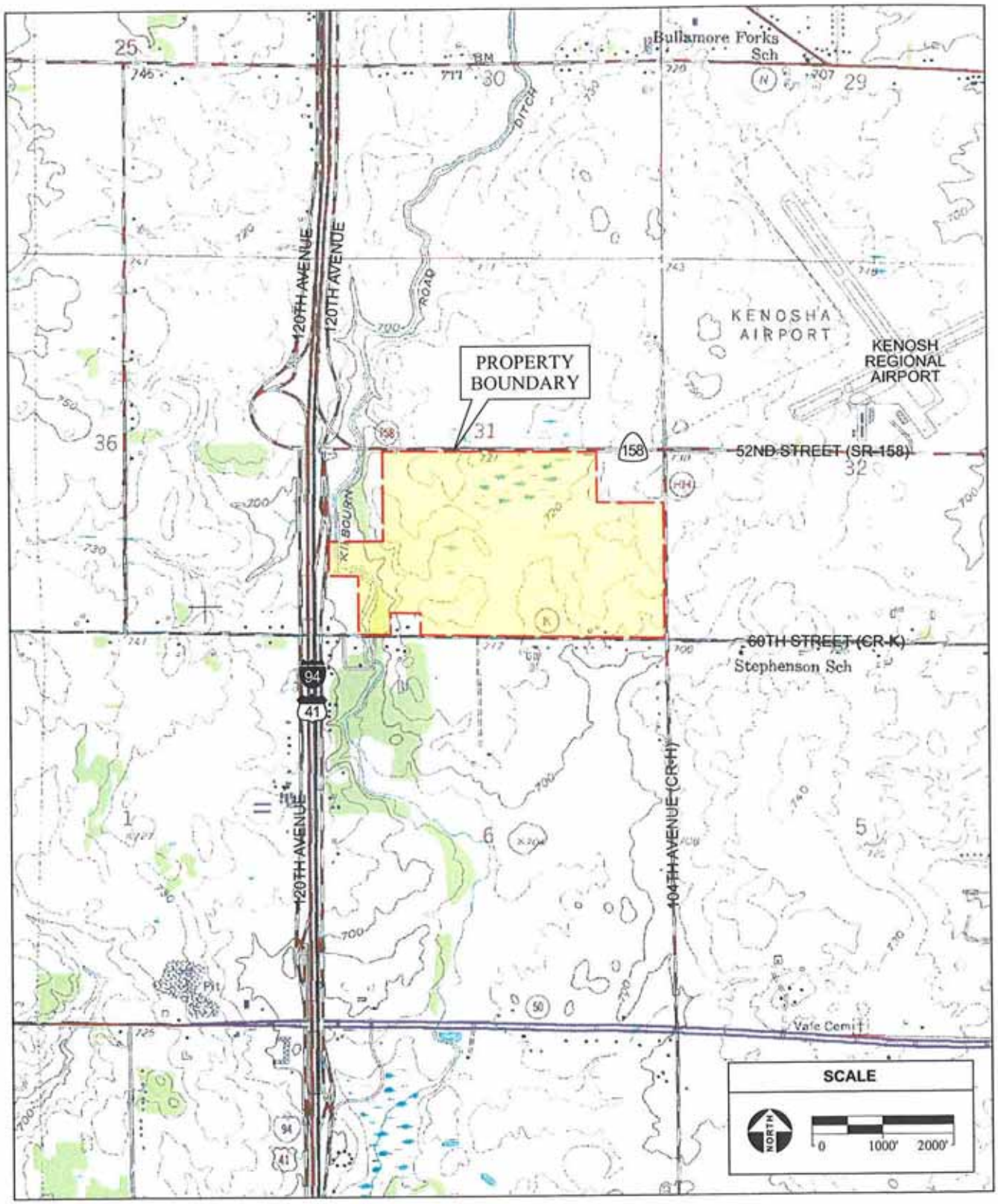
1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term Recognized Environmental Condition (REC) refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that



SOURCE: MicroSoft Streets & Trips, 2004 ; AES, 2004

Figure 1
Regional Location



SOURCE: "Pleasant Prairie, MI" USGS 7.5 Minute Topographic Quadrangle, Section 31, T2N, R22E, 4th Principal Meridian & Baseline of Extended 4th P.M. ; AES, 2004

Figure 2
Site and Vicinity

generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additionally, the term historical REC refers to an environmental condition associated with the project site, including a past release of any hazardous substance or petroleum product, which in the past would have been considered a REC, however such condition has been remediated and will therefore be considered a REC and included in this Phase I ESA (ASTM 2000).

1.3 LIMITATIONS AND EXCEPTIONS

No ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment with ASTM Standard Practice E 1527-00 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the project site. While AES has made every effort to discover and interpret available historical and current information on the property within the time available, the possibility for undiscovered contamination to be present remains. AES's report is a best-effort collection and interpretation of available information consistent with industry standards for the completion of Phase-I assessments.

This site assessment is based on a records review, a site reconnaissance, and telephone interviews with local government officials. Physical testing of soil or groundwater was not within the scope of this assessment. No survey for the presence of asbestos containing materials (ACM) was conducted. Information was obtained for this Phase I ESA to comply with ASTM guidelines.

1.4 METHODOLOGY

Various data sources and agencies were consulted in completing this Phase I ESA. The following sections describe the methods used and the data sources consulted to accomplish each task.

1.5 HISTORICAL REVIEW

Previous land uses and history of the study areas were researched in an effort to identify potential sources of hazardous substances at or near the project site. Historical aerial photographs (**Appendix A**) and historical topographic maps (**Appendix B**) were examined to provide indications of the presence of aboveground storage tanks, industrial buildings, gas station canopies or pump islands, as well as other indications of bulk hazardous material storage within the study areas (EDR, 2004).

1.6 DATABASE SEARCHES

Database search requests were made for records of known storage tank sites and known sites of hazardous materials generation, storage and/or contamination. Available information for federal,

state, and local agency lists of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) site which manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites which have underground storage tanks (USTs); and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the potential to impact surface and subsurface conditions at the project site. A full listing of sites within the vicinity of the project site is provided in **Appendix E.**

1.7 WALK-OVER SITE RECONNIASSANCE

Mr. Gary Arnold, Dr. John Miller, and Mr. Tim Armstrong of AES performed a reconnaissance inspection of the project site and adjacent properties on April 19th and 20th, 2004. Mr. Gary Arnold and Mr. David Zweig, P.E., performed the Phase I ESA hazardous materials survey for the project site. The AES team was accompanied by Mr. Dennis Kelly of Dairyland Greyhound Park (DGP). A follow-up visit was conducted by Mr. Gary Arnold to assist in the preparation of an Environmental Impact Statement (EIS) on August 4th and 5th, 2004. Notable features and environmental conditions were photographed and are discussed in **Section 3 Figures 4 through 8.**

1.8 RECOMMENDATIONS

Based on information gathered during the preparation of this Phase I ESA, AES has found the following Recognized Environmental Condition (REC) for the Kenosha casino project site:

- A former Town of Somers Landfill was present on the northwest corner of the project site. There are no records of hazardous materials being dumped in the landfill. Five monitoring wells were installed in 1990 to the west, south, and east of the landfill. Soil and groundwater samples were collected and tested for semi-volatile organic compounds (SVOCs), pesticides, and the 8 RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, and Selenium) (**Section 2.2**). All analytical results where below any regulatory limits.

Based on the findings and conclusions of this Phase I ESA, AES has the following recommendations:

- The Dairyland Greyhound Park facility is currently occupying the project site. The facility should continue to use best management practices in accordance with state and federal guidelines in the handling, storage, and/or use of hazardous materials on-site. If an unauthorized release occurs, the U.S. EPA should be contacted and appropriate clean-up activities initiated.

- If contaminated soil and/or groundwater are encountered or if suspected contamination is encountered during construction, work should be halted in the area, and the type and extent of the contamination shall be determined. A qualified professional, in consultation with appropriate regulatory agencies, should then develop an appropriate method to remediate the contamination. If necessary, the Tribe should implement a remediation plan in conjunction with continued construction.

SECTION 2.0

SITE DESCRIPTION

SECTION 2.0
SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

The project site is located in Kenosha County, Wisconsin, within the City of Kenosha at 5522 104th Avenue, near the intersection of State Highway 94 and State Route 158 (52nd Street), and is the current location of the Dairyland Greyhound Park (DGP). The site consists of one parcel totaling approximately 223 acres (**Figure 3**). To the north of the project site is State Route 158 (52nd Street), 104th Avenue (County Road 11) to the east, 60th Street to the south (County Trunk Highway K), and to the west is Kilbourn Road, beyond which is State Highway 94. The Assessor Parcel Number (APN) for the site is 08-222-31-401-001.

2.2 SITE AND VICINITY CHARACTERISTICS

Adjacent land uses include rural residential to the south, the Kenosha airport to the north, commercial retail and agricultural to the west, and ongoing commercial and residential construction to the east. Most of the region is agricultural or developed. As a consequence of urban, suburban, and agricultural development, the region is dominated by weedy vegetation, and forests are reduced to scattered woodlots or strips lining creeks and streams of the area. Several man-made ponds, paved and developed portions of the property, an old, reclaimed landfill, and the floodplain forest of Kilbourn Creek, dominate the site.

A small portion of the project site has been identified as an area that was previously used as a landfill. The inactive Town of Somers Landfill is located in an area on the DGP property (project site) that is currently undeveloped. Files were reviewed at the Kenosha County Planning Commission and the Wisconsin Department of Natural Resources (WDNR), and as a result, several site maps that show the former Town of Somers Landfill were obtained. Analytical Environmental Services reviewed a previous Phase I ESA and a subsequent addendum (Applied Environmental Sciences, 1999; **Appendix F**).

The remnants of several 55-gallon drums were found on the DGP property. Mr. Dennis Kelly of DGP confirmed the status of the remnants of the empty 55-gallon drums. Mr. Dennis Kelly confirmed that the drums where transported off site by Miller Compressing of Milwaukee, Wisconsin to be recycled (Kelly, 2004).

* See Appendices A, F and G.

SOURCE: AirPhoto USA, 11/1/2002 ; AES, 2004

Figure 3

Aerial Photograph Showing Notable Features and Environmental Conditions

A geo-environmental investigation was performed for the DGP facility to assess whether the former Town of Somers Landfill impacted soil and/or groundwater conditions on the project site. Work associated with the 1990 investigation (Giles, 1990) included the excavation of seven test pits, five test borings, and the installation of five ground water monitoring wells. A site map shows the locations of test pits and monitoring wells that were part of the 1990 investigation (Giles, 1990) (**Appendix A**). Additionally, historical aerial photographs show the Former Town of Somers Landfill while it was active. The report documents soil and groundwater analyses for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and the 8 RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, and Selenium). Arsenic was found in one groundwater sample at 3 parts per billion (ppb), a concentration below any state or federal action level. Barium was also detected in all the groundwater samples collected, however, the levels that where detected represent background levels that are common in the area. All other constituents that were tested for were below the laboratory detection limits and are therefore considered not detectable and no further investigations were warranted. The report was submitted to the WDNR (Giles, 1990) (**Appendix G**).

2.3 HYDROLOGY

The project site has a drainage system that captures surface runoff from much of the site and conveys the water to an on-site storm water detention basin located in the southeast corner of the project site. Surface runoff from one of the parking lots located in the northwest corner of the site drains into a vegetated area adjacent to the parking lot. The vegetated area receives storm water runoff from one of the parking lots. Additionally, there are wetland features located on the north and the north west side of the project site (**Figure 3**).

2.4 GEOLOGY AND SOIL

The rock stratigraphic unit of the project site is Silurian Paleozoic. The dominant soil composition in the general area is Varna with a soil surface texture of silt loam. This is reported as a class C soil with slow infiltration rates. Class C soils are soils with layers impeding downward movement of water, or soils with moderately fine or fine textures. The depth to the water table is more than six feet (EDR, 2004).

2.5 CURRENT AND PROPOSED USES OF THE PROJECT SITE

The project site is the current location of the DGP. The DGP consists of a racetrack, parking facility, grandstands and clubhouse, kennels and associated structures.

The Menominee Tribe of Wisconsin proposes to construct a gaming facility, hotel, waterpark and ancillary facilities on the existing DGP site. The Tribe will retain the existing clubhouse structure, racetrack and kennel facilities for continued use.

2.6 HISTORICAL USES

The DGP has occupied the approximate 223-acre site since its construction in 1989. Before 1989, the land was used for farming and agriculture. A former Town Of Somers Landfill was present on the northwest corner of the project site from approximately 1967 to 1980. The earth cover for the landfill appears to have begun in 1970 and the area of the landfill appears vegetated in the 1980 and 1985 aerial photographs (Giles, 1990). Additional information on the Giles engineering report (**Appendix G**) for the DGP property can be found in **Section 2.2**.

2.7 AERIAL PHOTOGRAPHS

Historical aerial photographs were reviewed for the project site. The historical aerials were supplied by Graef, Anhalt, Schloemer, and Associates, Inc (**Appendix A**). Years available for review were 1963 (1"=400'), 1967 (1"=400'), and 1980 (1"=400'). AES also obtained a 2002 aerial photo (1"=666') included as **Figure 3**. Historical aerial photographs were of varying scales and clarity. Historical aerial images offer detailed review of previous land uses on the project site and adjacent properties. Additionally, historical topographic maps can confirm the presence of man-made structures, including buildings, wells, pipelines, etc. The review of the aerial photographs and topographic maps are summarized by year below.

1963

The project site appears in the 1963 aerial photo as an agricultural property. Crop furrows are visible as well as a residence and associated structures located on the southeast corner of the project site. The area of the Former Town Of Somers Landfill according to a Giles Engineering Report (1999) is visible in the photo. The landfill does not appear active in the 1963 photo. There appears to be an area of disturbed soil inside and adjacent to the landfill boundary.

1967

The eastern portion of the project site is arranged in crop furrows, while the western portion does not appear to have been plowed. The landfill appears to be visible in the northwest corner of the project site. The landfill appears active in the 1967 aerial photo. An access road is clearly visible leading to the landfill. A building is also visible in the landfill area. The residence that was visible in the 1963 aerial photo is also visible in the 1967 photo.

1980

The area of the former landfill appears overgrown and covered with vegetation. It does not appear that an active landfill is present in the 1980 photo. The building that was present in the landfill area on the previous photo is not present in the 1980 photo. The residence that was visible in the previous photos is also visible in the 1980 photo. The access road that was visible in the previous photo is also visible in the 1980 photograph.

2002

The DGP facility is clearly visible in the aerial photograph. The racetrack, dog kennels, clubhouse, parking lots, wetland features, storm water detention basin, and adjacent properties to a limited extent are all visible in the photograph. There is an unimproved road present on the southwest corner of the DGP property. There is no evidence of unauthorized dumping on the project site.

2.8 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps do not provide coverage of the project site.

SECTION 3.0

SITE RECONNAISSANCE AND INTERVIEWS

SECTION 3.0
SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify current or historic hazardous materials involvement on the project site or in the vicinity of the project site. Hazardous materials involvement, or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of underground storage tanks existing on the project site, stained soils and/or unusual odors originating from the project site, indications of an excavation or removal of soils, including patched asphalt and large debris piles, and other obvious signs of hazardous materials involvement.

Interviews included contacting individuals familiar with the project site and knowledgeable of its historic and existing conditions relative to hazardous materials.

3.2 SITE RECONNAISSANCE FINDINGS

Mr. Gary Arnold, Dr. John Miller, and Mr. Tim Armstrong of AES performed a reconnaissance inspection of the project site and adjacent properties on April 19th and 20th, 2004. Mr. Gary Arnold and Mr. David Zweig, P.E., performed the Phase I ESA hazardous materials survey for the project site with a follow-up visit on August 4th and 5th, 2004. The project site is located in a semi-rural area of eastern Wisconsin, near the intersection of State Highway 94 and State Route 158. Mr. Dennis Kelly, the DGP facilities director, accompanied AES during the site visit. Mr. Kelly provided AES with all Material Safety Data Sheets (MSDSs) for all hazardous and non-hazardous chemicals used during normal operation of the facility (**Appendix D**). **Figures 4 through 8** show site conditions at the time of the site visit. AES also conducted a follow-up telephone interview with Mr. Kelly on May 4th, 2004. Notable features and environmental conditions are summarized below.

- Approximately 90 acres of the 223 acre site is vacant undeveloped land. These areas contain low land and marsh type vegetation.

- A large detention basin is present on the project site that receives storm water runoff from a large portion of the property (**Photos 1 through 3**).
- Two large ponds are present in the northern portion of the project site. The area receives storm water runoff from one of the parking lots located adjacent to the pond area. Because of the snowy conditions that are common in this area, it is necessary to apply a mix of salt and sand on the parking lot surface, subsequently, the storm water contains salt that washes into the ponds, causing the plants to become stressed (**Photos 4 through 6**).
- Large, paved parking areas are present on the project site where salt is used to melt seasonal ice and snow. Staining of the paved areas was observed by AES during the site visit (**Photos 7 through 10**).
- Recyclable cardboard currently generated at the clubhouse is placed in a large, hydraulically operated trash compactor and hauled off site. Aluminum, tin, plastics, glass, and paper are hauled off-site and recycled (**Photo 11).**
- Solid waste from the dog kennels is currently placed in a large trash compactor and hauled off-site for proper disposal (**Photo 12**).
- A 500-gallon steel diesel fuel above ground storage tank (AST), with secondary containment, is located near the racetrack maintenance building. The tank is used to provide fuel to tractors that are used on-site. No leaks or spills were evident during the April 2004 site visit (**Photo 13**).
- An 800-gallon diesel underground storage tank (UST) is located near the entrance to the DGP clubhouse and is used as a fuel source for the building's emergency generator. The UST is double walled and has a leak detection system (**Photos 14 and 15**).
- A storage trailer located north of the maintenance facility is used to store scrap metal and wood (**Photo 16**).
- A solvent parts washer is located in the maintenance garage area. Other chemicals stored in this area are a de-icing agent for the track rail, hydraulic oil for the tractors and skid loader, motor oil and waste oil for the tractors used on-site (Kelly, 2004). See **Appendix D** for MSDSs for chemicals used at the facility. Used solvents and waste oils are transported off-site by Safety Kleen Systems, Inc (**Photo 17**).
- Non-hazardous debris and rock and soil stockpiles were scattered throughout the site, predominately the area in northwest corner of the project site. The soil and rock stockpiles where overgrown with weeds and native grasses (**Photos 18 through 20**).

3.3 HAZARDOUS MATERIALS STORAGE AND USE

AES obtained a complete list of all hazardous and non-hazardous materials that are associated with the operations of the DGP. Waste motor oil and solvent for the machine parts washer are collected and transported off site by Safety-Kleen Inc. AES also reviewed manifests from Safety-Kleen that were supplied by Mr. Dennis Kelly of the DGP that documents the removal of waste oil and used solvents from the DGP (**Appendix D**).

3.4 INTERVIEWS AND QUESTIONAIRES

Dennis Kelly, a representative of the DGP, completed a standard project parcel questionnaire during the April 2004 site visit. The survey form is attached as **Appendix C** and summarizes the history of the project site. Additionally, Mr. Kelly listed hazardous and non-hazardous materials stored on-site and provided their associated MSDS (**Appendix D**).

PHOTO 1: Photo showing detention basin located in the southern portion of the project site.

PHOTO 2: Photo of outlet into the detention basin shown in the previous photo.

PHOTO 3: Photo of inlet into the detention basin with absorption rolls.

PHOTO 4: Photo showing a small pond located in the northern portion of the project site.

SOURCE: AES, 2004

Figure 4

Site Reconnaisance Photos

PHOTO 5: Photo showing stressed vegetation adjacent to the pond area shown in the previous photo.

PHOTO 6: Photo showing more stressed vegetation adjacent to the pond located on the project site.

PHOTO 7: Photo showing one of the large paved surfaces used for parking.

PHOTO 8: Photo showing staining of the parking area.

SOURCE: AES, 2004

Figure 5

Site Reconnaisance Photos

PHOTO 9: More staining of the parking areas.

PHOTO 10: Photo showing staining patterns in one of the parking areas from surface drainage into one of the storm drains.

PHOTO 11: Photo showing hydraulic trash compactor used for waste generated at the clubhouse.

PHOTO 12: Photo showing more trash compactors located adjacent to the kennel area.

SOURCE: AES, 2004

Figure 6

Site Reconnaisance Photos

PHOTO 13: Photo of 500-gallon steel diesel AST with secondary containment.

PHOTO 14: Photo showing location of the 800-gallon diesel. UST.

PHOTO 15: Photo of UST in previous photo.

PHOTO 16: Photo showing trailer located on site that is used to store scrap metal and wood

SOURCE: AES, 2004

Figure 7

Site Reconnaisance Photos

PHOTO 17: Photo showing solvent parts washer, and 55-gallon drums used to store various chemicals.

PHOTO 18: Photo of a piece of metal debris located on the project site.

PHOTO 19: Photo showing the overgrown condition of the rock and soil stockpiles located on the project site.

PHOTO 20: Photo showing more metal debris located on the project site.

SOURCE: AES, 2004

Figure 8

Site Reconnaisance Photos

SECTION 4.0

RECORDS REVIEW

SECTION 4.0
RECORDS REVIEW

4.1 DATABASE SEARCH

Database searches were made for records of known storage tank sites and known sites of hazardous materials generation, storage, or contamination. Databases were searched for sites and listings up to one mile from a point roughly equivalent to the center of the 223-acre property. The environmental database review was accomplished by using the services of a computerized search firm, *Environmental Data Resources, Inc. (EDR).* The complete list of reviewed databases is provided in the EDR report, included in **Appendix E** and is summarized in **Table 1**.

Included in the EDR report was a list of "unmapped sites". Based on available information two unmapped sites maybe located within the applicable search radius of the project site. Both sites are at the Kenosha airport, approximately 0.55 miles north of the project site. It should be noted that the database search is only as accurate as the data entered into the government agency maintained databases and the date on which those databases were last updated. Installation of underground storage tanks or hazardous material releases, if not reported to the appropriate agency, would not be listed on any of the databases searched. The following section describes the previously mentioned database search and all follow-up communications with local agencies and individuals. The following table summarizes the public databases that were searched as part of this Phase I ESA.

4.2 HAZARDOUS MATERIALS INVOLVEMENT

4.2.1 PROJECT SITE

The project site appeared on two databases as having one 500-gallon diesel above ground storage tank (AST) and one 1000-gallon diesel under ground storage tank (UST). According to the EDR report, the diesel fuel 500-gallon AST is for on-site maintenance vehicles and the diesel fuel 1,000-gallon UST is for the emergency generator for the DGP clubhouse (EDR, 2004). According to the facilities manager for the DGP (Kelly, 2004) the size of the diesel UST is 800-gallons. There were no reported leaks or spills listed in the EDR report for the tanks.

TABLE 1

ENVIRONMENTAL DATA RESOURCES (EDR) SUMMARY OF AGENCY DATABASES

Agency Database	Search Distance	Number of Sites Identified
United States Environmental Protection Agency (EPA) National Priority List (NPL) for Superfund Sites	1.0 Mile	0
U.S. EPA Resource Conservation and Recovery Act (RCRA) Corrective Action (CORRACTS) List	1.0 Mile	0
U.S. EPA Comprehensive Environmental Response, Compensation and Liability Index System (CERCLIS) List	0.5 Mile	0
U.S. EPA RCRA Permitted Treatment, Storage, and Disposal (TSD) Facilities	0.5 Mile	0
U.S. EPA Emergency Response Notification System (ERNS) List	Property	0
U.S. EPA RCRA Registered Large and Small Generators of Hazardous Waste	Property and Adjacent Properties	2
Annual Workplan Sites (AWP	1.0 Mile	0
State Hazardous Wastes Sites (Cal-Sites)	1.0 Mile	0
State Hazardous Wastes and Substances Sites (Cortese)	0.25 Mile	0
State Hazardous Material Incidents, Including Accidental Releases and Spills (CHMIRS)	0.25 Mile	0
State Permitted Solid Waste Landfill, Incinerators or Transfer Stations (SWF/LF) List	0.5 Mile	0
Leaking Underground Storage Tank (LUST) Sites	0.5 Mile	2
State Aboveground Storage Tanks (AST List	Property and Adjacent Properties	0
State Underground Storage Tanks (UST) List	Property and Adjacent Properties	7
Hazardous Waste Information System (HAZNET)	Property and Adjacent Properties	0

Source: Environmental Data Resources, 2004

4.2.2 ADJACENT PROPERTIES

The database report located seven individual sites within the search radius with USTs. All of the sites are at a distance greater than 0.50-miles from the project site. The tanks range in size from

1,000-gallons to 20,000-gallons and store heating oils or aviation fuels. There are no reported leaks or spills associated with any of the tanks. Due to the distance of the previously mentioned USTs from the project site, and the absence of reported leaks or spills in the database report, these sites are not considered likely to impact the future uses of the project site. The database identified two sites that generate hazardous materials on-site and are listed in the Resource Conservation Recovery Information System as small quantity generators (RCRIS-SQG). The first site, Schreiber Foods Inc is located approximately 0.60-miles northwest of the project site at 9894 52nd Street, Kenosha. The second site is the Wrought Washer Manufacturing Inc site located approximately 0.60-miles east of the project site at 9800 55th Street, Kenosha. There were no violations listed in the database for either site, therefore it is not likely that these two properties will impact future uses of the project site.

The database report identified two sites with known releases of hazardous materials. Both sites are listed as leaking underground storage tanks (LUST). The first site is the Harvey Property located at 9717 60th Street, approximately 0.75-miles southeast of the project site. The soil has been affected at this site. This site is situated at a lower elevation than the project site. It is not likely that groundwater will flow upstream, and because this site is located at a lower elevation than the project site, and soils only have been impacted, the Harvey Property is not likely to affect the planned uses of the project site. The second site is the Kenosha Beef International site located at 6300 121st Ave. The site is listed as closed and is therefore unlikely to affect the project site.

There were two unmapped sites identified on the database report. Both sites are at the Kenosha Airport, approximately 0.55 miles north of the project site. The Kenosha Airport sites are on the Wisconsin Remedial Response Site Evaluation Report (WI WRRSER) database. The data comes from the Wisconsin Department of Natural Resources (WDNR) and includes information regarding location, priority and status of sites or facilities in the state that are known to cause or have a high potential to cause environmental pollution. It is possible that contaminants in soil and/or groundwater could migrate from the Kenosha Airport site and affect subsurface conditions at the project site. However, a half-mile is a relatively long distance for contaminants to migrate. Moreover, the anticipated groundwater flow direction is towards the east, which is away from the project site. Therefore, due to the distance of the Kenosha Airport sites in relation to the project site (0.55 miles), and the anticipated groundwater flow direction, it is not likely to affect the planned uses of the project site.

SECTION 5.0

FINDINGS AND CONCLUSIONS

SECTION 5.0
FINDINGS AND CONCLUSIONS

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-00, which specifies the appropriate inquiry requirements for the innocent landowner defense under CERCLA. Based only on information reviewed, AES's site reconnaissance of the project site and adjacent properties, and the interviews and questionnaires described, this Phase I ESA has revealed the following Recognized Environmental Condition (REC) in connection with the Kenosha Casino project site:

- A Former Town of Somers Landfill is present on the northwest corner of the project site. The landfill has been inactive since 1980. There are no records of hazardous materials being dumped in the landfill. Five monitoring wells were installed in 1990 to the west, south, and east of the landfill. Soil and groundwater samples were collected and tested for semi-volatile organic compounds (SVOCs), pesticides, and the 8 RCRA Metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, and Selenium) (**Section 2.2**). All analysis where below any regulatory limits.

Based on the findings and conclusions of this Phase I Environmental Site Assessment, AES has the following recommendations for the Kenosha Casino project site:

- The Dairyland Greyhound Park facility is currently occupying the project site. The facility should continue to use best management practices in accordance with state and federal guidelines in the handling, storage, and/or use of hazardous materials on-site. If an unauthorized release occurs, the U.S. EPA should be contacted and appropriate clean-up activities initiated.
- If contaminated soil and/or groundwater are encountered or if suspected contamination is encountered during construction, work should be halted in the area, and the type and extent of the contamination shall be determined. A qualified professional, in consultation with appropriate regulatory agencies, should then develop an appropriate method to remediate the contamination. If necessary, the Tribe should implement a remediation plan in conjunction with continued construction.

SECTION 6.0

REPORT AUTHORS/ REFERENCES

SECTION 6.0
REPORT AUTHORS AND REFERENCES

REPORT PREPARATION

Analytical Environmental Services
2021 "N" Street, Suite 200
Sacramento, CA 95814

Author: Peter J. Connelly, Associate

Review: David Zweig, P.E.

REFERENCES

American Society for Testing and Materials (ASTM). 2001. Practice E1527-00: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process."

Applied Environmental Sciences, Inc. 1999. Phase I Environmental Site Assessment For The Proposed Menominee Indian Tribe Gaming Facility with Attached Addendum. March 26th, 1999.

Environmental Data Resources (EDR). 2004. Kenosha Site – EDR Radius Map with GeoCheck®. April 8th, 2004.

Giles Engineering Associates, Inc. 1990. GEO- Environmental Property Survey and Preliminary Hazardous Material Presence Study Proposed Dairyland Greyhound Park (DGP) January 5th, 1990.

Graef, Anhalt, Schloemer & Associates, Inc. 2004. Memorandum to Patrick Kressin Bureau of Indian Affairs, June 2nd, 2004.

Kelly, Dennis 2004. Telephone interview. May 4th, 2004. Facilities manager for the DGP, 5522 104th Ave, Kenosha Wisconsin. (262) 657-8200.

Menominee Indian Tribe, 2000. Environmental Assessment for the Proposed Menominee Indian Tribe Gaming Facility. December 2000.

APPENDICES

APPENDIX A

HISTORICAL AERIAL PHOTOGRAPHS

Graef, Anhalt, Schloemer
& Associates, Inc.
Engineers & Scientists

GRAEF
ANHALT
SCHLOEMER
and Associates Inc.

Milwaukee Chicago Green Bay Madison

One Honey Creek Corporate Center
125 South 84th Street, Suite 401
Milwaukee, WI 53214-1470
Telephone (414) 259-1500 • FAX (414) 259-0037
www.gasai.com

MEMORANDUM

TO: Patrick Kressin

FROM: Geoffrey Parish

DATE: June 2, 2004

SUBJECT: Town of Somers Landfill

The Town of Somers Landfill in Section 31 was on the WDNR "Waste Disposal Site Registry," but a WDNR FID number was not listed for the landfill. The WDNR southeastern region monitoring contact, Mr. Michael Zillmer, was called and he was not familiar with the site. GAS contacted a WDNR field inspector, Mr. Ken Hine, regarding possible knowledge of the landfill. He stated that he had not inspected the landfill, but knew of the existence from issues raised during the construction of the Dairyland track (see attached phone record). Mr. Joseph Lourigan of the WDNR Sturtevant Service Center contacted GAS regarding the file holdings at the WDNR. They had a file and a copy of the 1990 Giles Engineering Associates report on the landfill titled "Geo-Environmental Survey and Preliminary Hazardous Material Presence Study."

GAS reviewed these at the WDNR on May 26, 2004. The file was mainly for another Town of Somers landfill in Section 15, rather than in Section 31. There were two exceptions. The first was a newspaper article from the June 11, 1968 Kenosha News describing extinguishing of the fire in the Section 31 landfill. The fire had smoked for over a year and required exposing the burning rubbish with a bulldozer. There was also a Milwaukee Testing Laboratory letter report from December 11, 1970 that described the results of five soil borings around the landfill parcel. One of the borings (SB-1) encountered five feet of rubbish over 17 feet of peat. Another boring, SB-2< encountered three feet of rubbish over clays and silts. The other three borings encountered native sediments.

There was a hand written note in the 1990 Giles Engineering Associates report from Mr. Scott Baker of the WDNR, dated April 18, 1990. He states that the landfill started in 1957 and accepted waste until 1966 when the landfill fire began. He stated that the wastes included AMC sludge, OMC (Evinrude in Waukesha) boat parts, and midnight dumping. Reportedly, Mr. Barney Chaney operated the dump.

Based on the information in the 1990 Giles Engineering Associates report, Giles installed five monitoring wells to the west, south and east of the landfill (Figure 1). It appears that three of these wells were likely separated from the landfill by a large tract of wetland, base on soils maps. One round of groundwater samples were collected from the wells and analyzed for priority pollutants. No detections were reported except for barium and arsenic at levels that were less than regulatory limits. The report also presents descriptions of material encountered in six test pits dug to the west of the landfill, but none were dug to define the waste mass extent to the east or south.

We are dedicated to serving public and private clients. Our ability to excel is driven by Integrity, Quality, and our Commitment to Customer Service.

SOURCE: SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION; T2N, R22E, SEC. 31

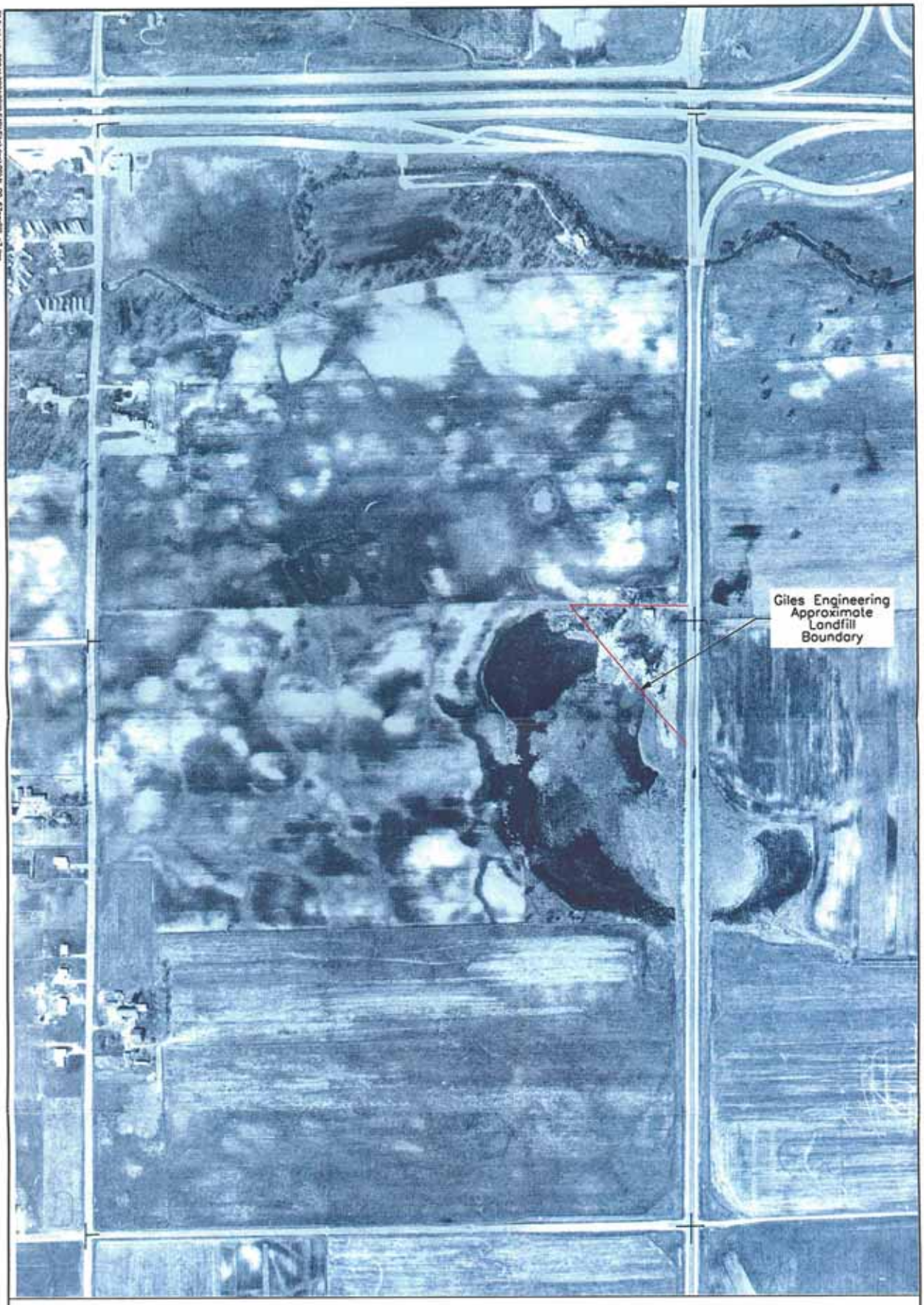
1963 AERIAL PHOTOGRAPH

TOWN OF SOMERS LANDFILL
EAGLE CASSINO PROJECT
TOWN OF SOMERS
KENOSHA COUNTY, WISCONSIN

PROJECT NUMBER:	2004 0011.010
DATE:	06-02-04
PROJECT MGR:	PJK
DRAWN BY:	JZ
FILE NAME:	63ser011.dgn
SCALE:	1" = 400'
REVISED:	

GRAEF ANHALT SCHLOEMER and Associates Inc.

FIGURE 2



SOURCE: SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION; T2N, R22E, SEC. 31

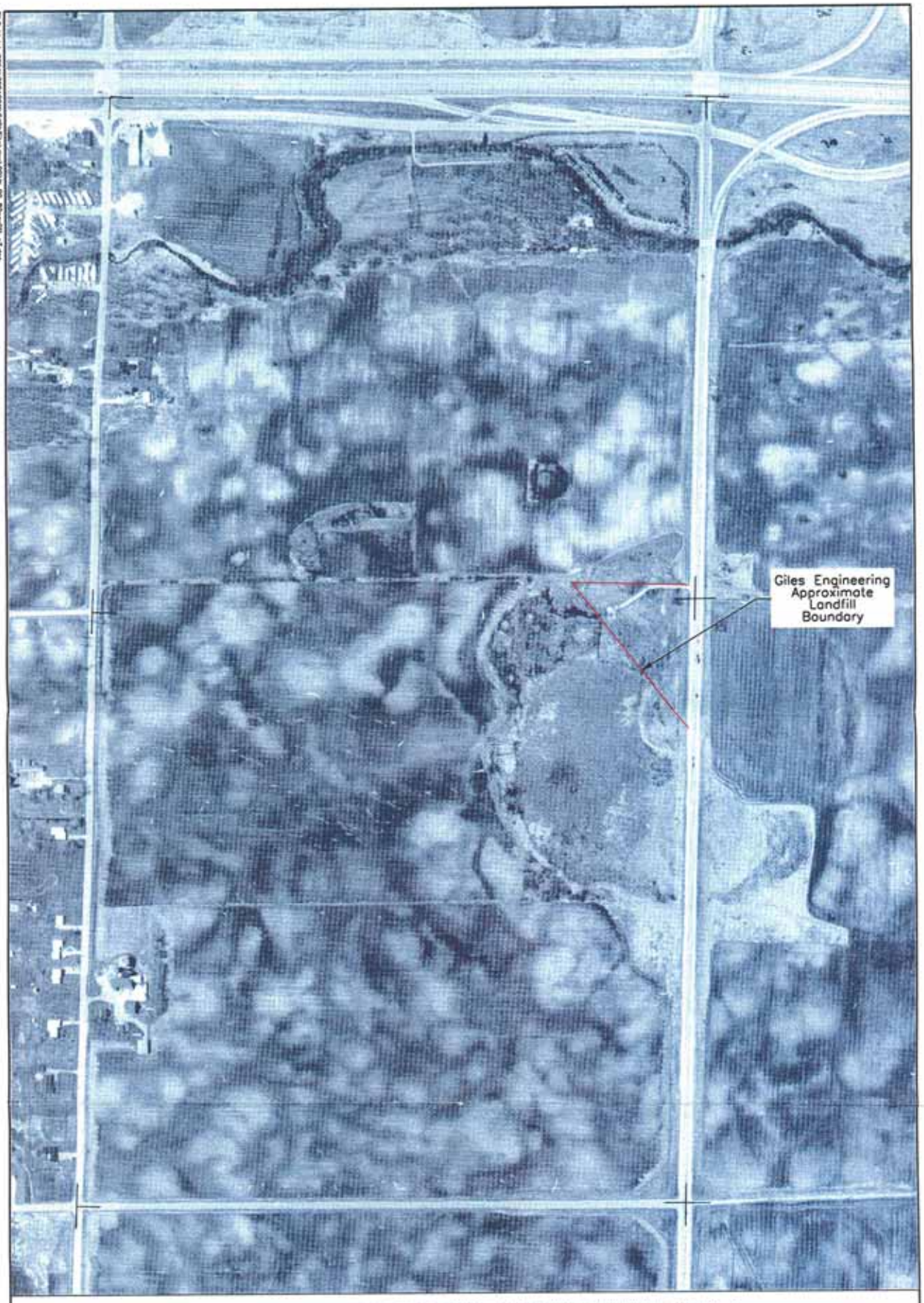
1967 AERIAL PHOTOGRAPH

TOWN OF SOMERS LANDFILL
EAGLE CASSINO PROJECT
TOWN OF SOMERS
KENOSHA COUNTY, WISCONSIN

PROJECT NUMBER:	2004 0011.010
DATE:	06-02-04
PROJECT MGR:	PJK
DRAWN BY:	JZ
FILE NAME:	67aerial011.dgn
SCALE:	1" = 400'
REVISED:	

GRAEF ANHALT SCHLOEMER and Associates Inc.

FIGURE 3



SOURCE: SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION; T2N, R22E, SEC. 31

1980 AERIAL PHOTOGRAPH

TOWN OF SOMERS LANDFILL
EAGLE CASSINO PROJECT
TOWN OF SOMERS
KENOSHA COUNTY, WISCONSIN

PROJECT NUMBER:	2004 0011.010
DATE:	06-02-04
PROJECT MGR:	PJK
DRAWN BY:	JZ
FILE NAME:	80aer011.dgn
SCALE:	1" = 400'
REVISED:	

GRAEF ANHALT SCHLOEMER and Associates Inc.

FIGURE 4

Aerial photographs of Section 31 were obtained from the Southeastern Regional Planning Commission for the years 1963, 1967, 1970, 1975 and 1980. The area appears possibly farmed in the 1963 photograph (Figure 2). An area of possible fill is visible in the 1967 photograph (Figure 3), but are less obvious in the subsequent images (Figure 4).

The Giles well sampling results are of limited value in that they only sampled for one round and most of the wells were too far away. Also, they interpreted the direction of groundwater flow to be to the west, toward a surface water drainage, which means that four of the five wells were up gradient of the landfill, in other words, in the wrong direction to detect groundwater impacts.

From the reviewed information we can conclude that a town landfill is definitely located on the property. The extent of the waste mass appears to be at least 4 acres, although the southern and eastern extents into the wetland were not delineated. There is insufficient information to state that groundwater is or is not impacted to the west and north. It may also be possible that there are isolated areas of fill farther to the west, based on field descriptions in the fax transmittal from Analytical Environmental Services. Given the nature of waste materials and the peaty soils beneath and to the east of the landfill area, there will likely be elevated levels of methane in the surrounding soils.

Attachments

We are dedicated to serving public and private clients. Our ability to excel is driven by Integrity, Quality, and our Commitment to Customer Service.

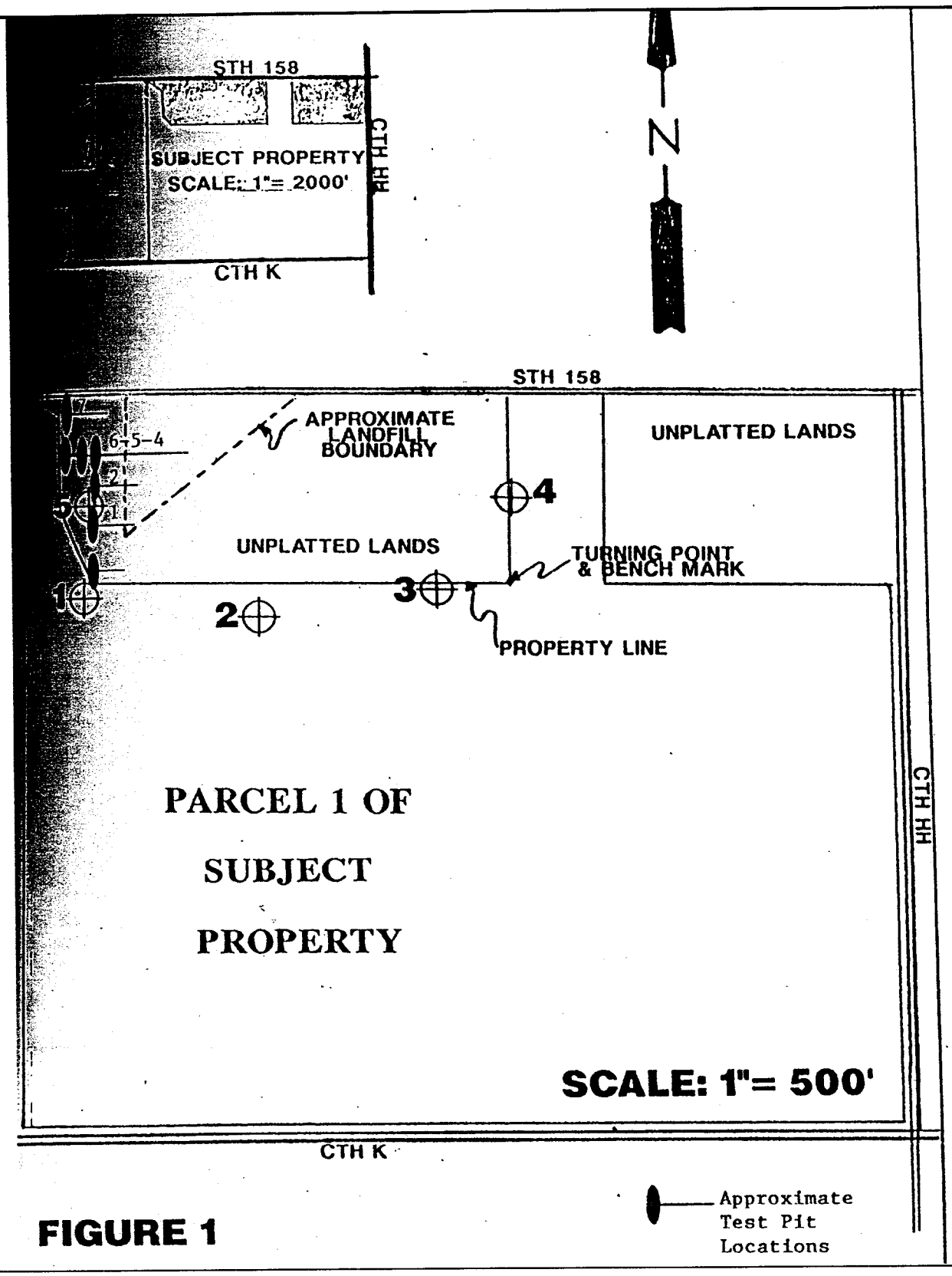


FIGURE 1

SOURCE: GILES ENGINEERING ASSOCIATES, INC., 1990, "Geo-Environmental Survey and Preliminary Hazardous Material Presence Study"

GILES ENGINEERING INVESTIGATION LOCATION

TOWN OF SOMERS LANDFILL
EAGLE CASSINO PROJECT
TOWN OF SOMERS
KENOSHA COUNTY, WISCONSIN

PROJECT NUMBER:	2004 0011.010
DATE:	06-02-04
PROJECT MGR:	PJK
DRAWN BY:	JZ
FILE NAME:	80oer011.dgn
SCALE:	N.T.S.
REVISED:	

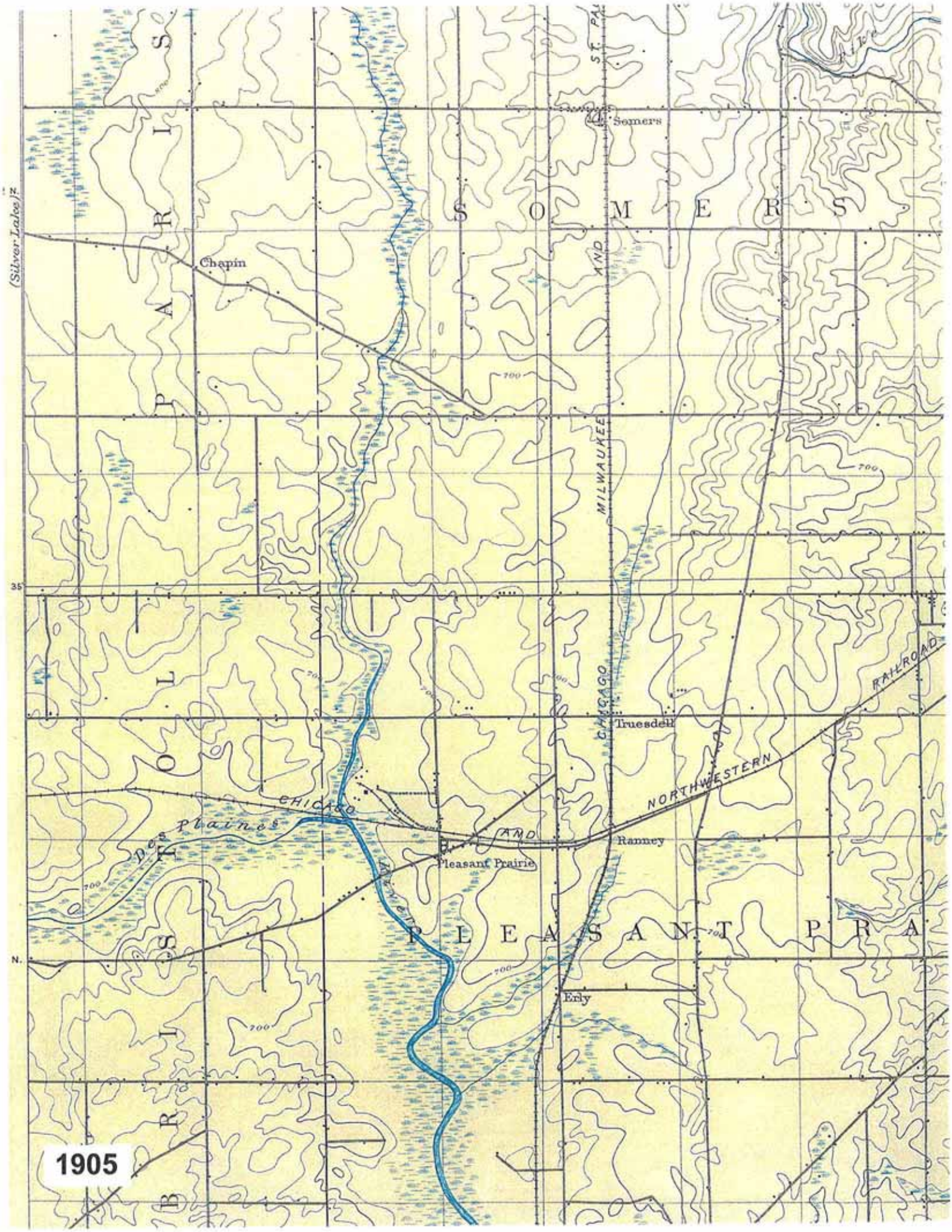
GRAEF ANHALT SCHLOEMER and Associates Inc.

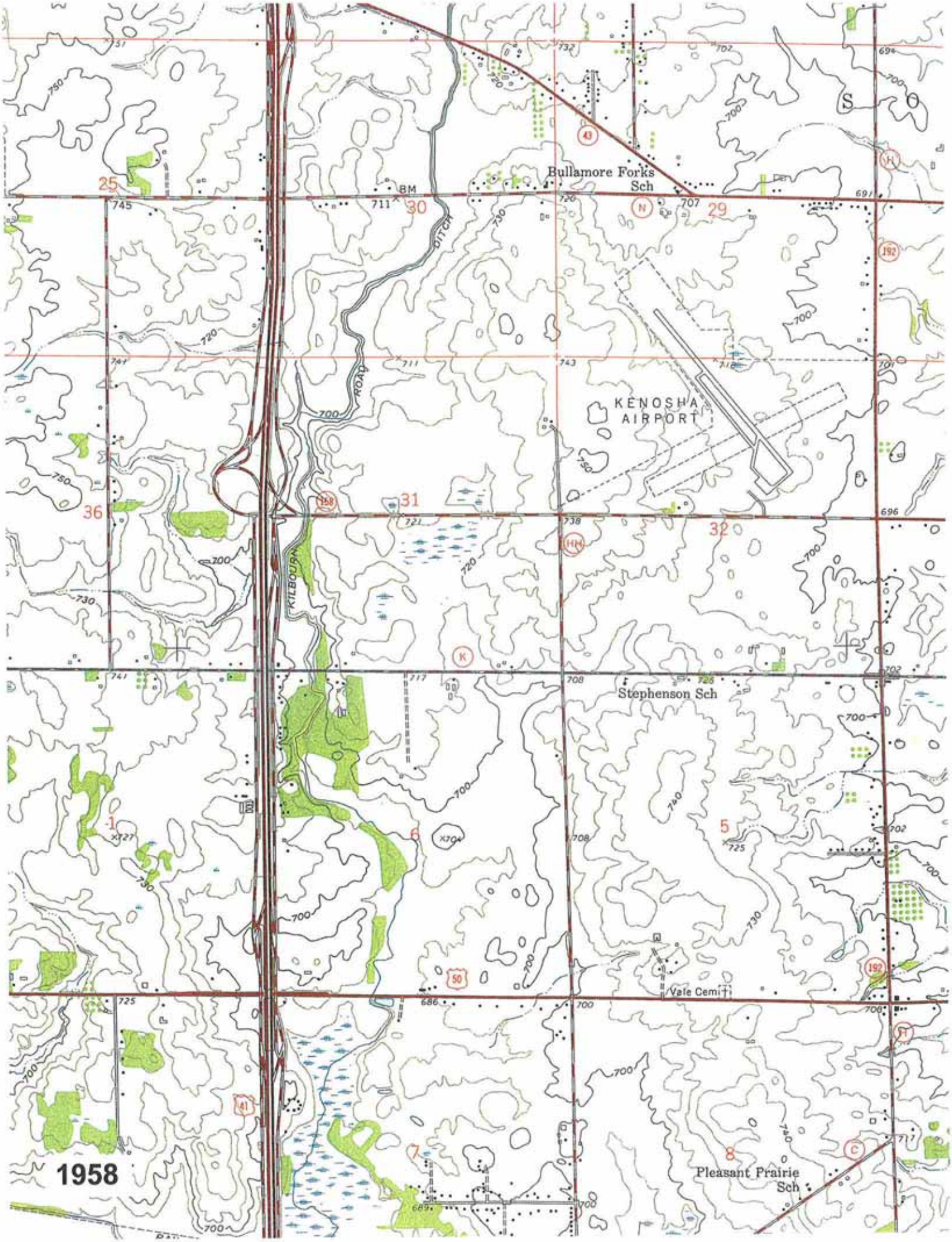
FILE: I:\Jobs2004\20040011\CAD\Site\dgn\00\N_00_sitemap011_v7.dgn
DATE: 02-Jun-04 09:55

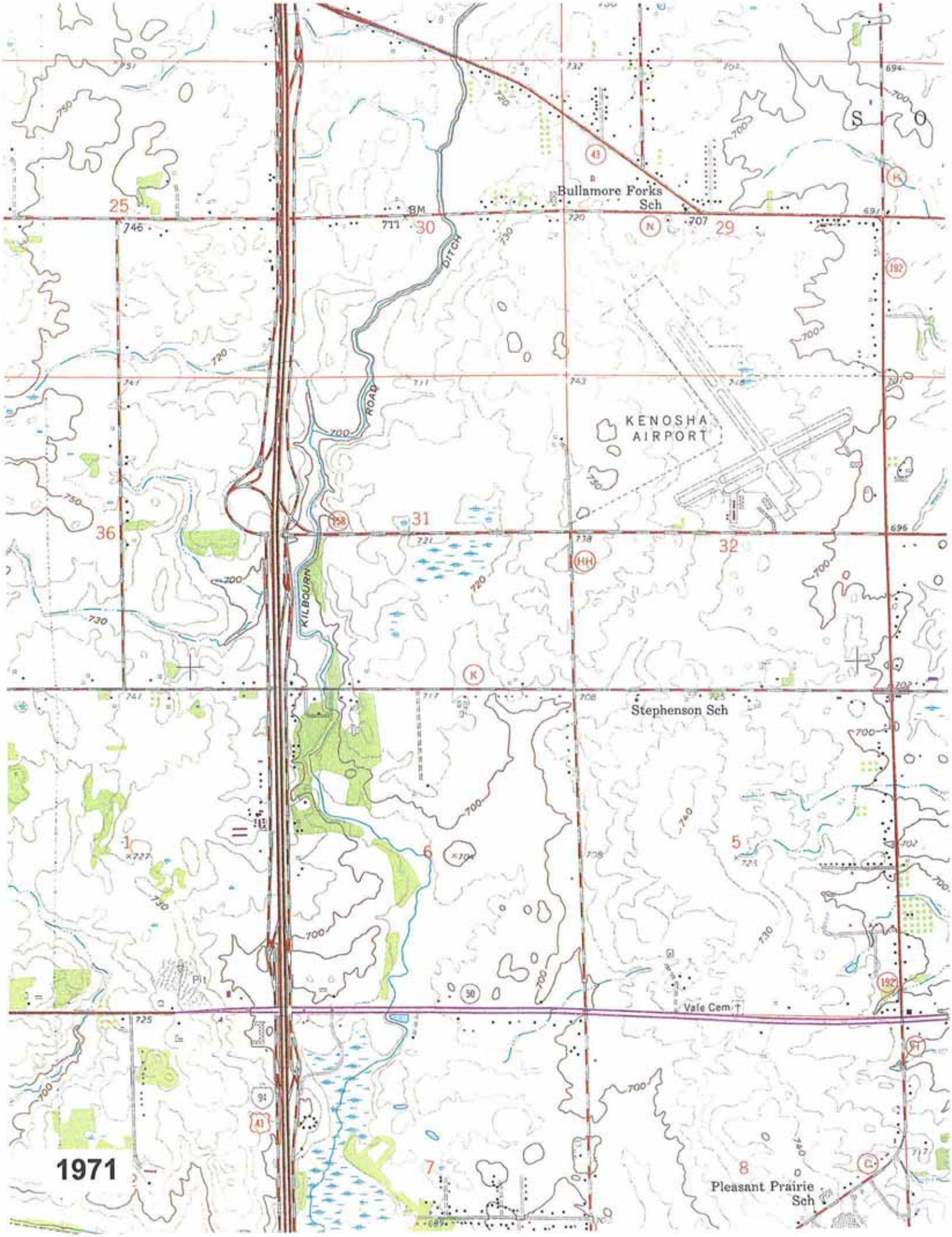
FIGURE 1

APPENDIX B

HISTORICAL TOPOGRAPHIC MAPS


1905
Somers
Chapin
Truesdell
Ramney
Pleasant Prairie
Erly
S O M E R S
P L E A S A N T P R A
CHICAGO AND NORTHWESTERN RAILROAD
MILWAUKEE
Des Plaines
(Silver Lake)
35
N.
700


Bullamore Forks Sch
KENOSHA AIRPORT
Stephenson Sch
Vale Cemi
Pleasant Prairie Sch
KILBOURN ROAD
DITCH
1958


Bullamore Forks Sch
KENOSHA AIRPORT
KILBOURN ROAD DITCH
Stephenson Sch
Vale Cem
Pleasant Prairie Sch
25
30
29
36
31
32
1
6
5
7
8
1971

APPENDIX C

PROPERTY OWNER QUESTIONAIRE

April 20, 2004

RE: Phase I Environmental Site Assessment Questionnaire Form: "Dairy Land Site"

Dear Mr. Dennis Kelley:

You have been identified as someone who is knowledgeable of the history of the indicated property. Please complete the questionnaire below with regard to the indicated property and Assessor Parcel Number. You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property. Please provide as much information as you can to assist in this effort, and feel free to attach extra sheets/reports if the space provided is insufficient.

Please return the completed form to:

Analytical Environmental Services
Attn: Gary Arnold
2021 "N" Street, Suite 200
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

Question	Answer	Responses to "Yes" Questions
1. Is the property or any adjoining property currently used for industrial purposes?	Property: NO UNK YES Adjoining: NO UNK YES	
2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?	Property: NO UNK YES Adjoining: NO UNK YES	
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: NO UNK YES Adjoining: NO UNK YES	

4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?

Property: NO UNK YES

Adjoining: NO UNK YES

Dennis Kelly
Facilities Manager
Dairyland
Greyhound Park
4/20/2004

5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?

NO UNK YES

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?	New?: NO UNK YES Past?: NO UNK YES	
7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?	New?: NO UNK YES Past?: NO UNK YES	
8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	New?: NO UNK YES Past?: NO UNK YES	
9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?	New?: NO UNK YES Past?: NO UNK YES	
10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?	New?: NO UNK YES Past?: NO UNK YES	

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	New?: NO UNK YES Past?: NO UNK YES	
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	New?: NO UNK YES Past?: NO UNK YES	
13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?	NO UNK YES	
14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	NO UNK YES	

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?	NO UNK YES	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	NO UNK YES	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	NO UNK YES	
18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?	NO UNK YES	

21. How do you currently use the property and how have you used the property in the past (please be specific). See Attachment

22. What is your understanding of how the property was used before your ownership/occupancy? See Attachment

Completed by: [illegible] Director of Facilities

Phone: (262) 612-8280

Date completed: April 22, 2004

Relation to property: _____ owner _____ operator _____ manager _____ tenant

April 22, 2004

Attachment to Phase one Environmental Site Assessment Questionnaire Form:

1&2) The property east of the racetrack across 104th ave. is an industrial park.

3) The Harley Davidson Dealership adjoining the property repairs motorcycles.

4) We have no direct evidence that this property was previously used as a landfill. But, people who have lived in this area have told us that it was at sometime in the past. In the area around where our main entrance is off of highway 158.

6)	HDQ	Germicidal Disinfectant
	Liquid Terge Apc	All purpose Cleaner
	Zep Shield	Floor Wax
	Trendsetter	Floor Sealer / Finish
	Shineline Emulsifier plus	Floor Wax Stripper
	Hydraulic Oil	
	Oil 15w-40	
	Liquid Ice Melt	Used to de-ice rail on track.

MSDS sheets are attached.

7) Rock Salt, Magnesium Chloride, Calcium Chloride
MSDS sheets are attached.

<u>10) Track Maintenance Building</u>

500-Gallon Diesel Fuel Tank – Above ground

<u>Kennel Generator</u>

Onan 20 – Genset
Cummins Diesel Engine
Model #4A2 3-GI
Serial #53124381
Rated 34 BHP at 1800 R.P.M.
Single Phase KW20 KVA20
80 Gallon Diesel Fuel Tank – attached to generator

Building Generator

DMT Corporation
Cummins 300 Diesel
Model #300 CA
Serial #89518-1
300 KW 375 KVA 951 Amps
800 Gallon Diesel Fuel Tank – Under Ground Double Wall Tank
PPM 2000 Leak Tank Alarm

11) The vent and fill port for the underground diesel tank for the building emergency generator.

13) The property receives its water supply from the Kenosha Water Utility.

21) This property since it was built in June 1990 has been used as a Greyhound Racetrack.

22) Farming.

APPENDIX D

MATERIAL SAFETY DATA SHEETS (MSDS)

DAIRYLAND GREYHOUND PARK

RECEIVED
BY Jay DATE 5/3/04

April 28, 2004

Gary S. Arnold
Analytical Environmental Services
2021 "N" Street, Suite 200
Sacramento, California 95814

Attn: Mr.Arnold

Mistakenly the questionnaire that was sent back to you did not include the MSDS sheets that were indicated in my answers. Attached you will find another copy of the completed questionnaire and the appropriate MSDS sheets.

Sincerely,

Dennis Kelly

5522-104th Avenue ◆ KENOSHA, WISCONSIN 53144 ◆ PH. 262/657-8200 ◆ FAX 262/657-8231

Question	Answer	Responses to "Yes" Questions
1. Is the property or any adjoining property currently used for industrial purposes?	Property: NO UNK YES Adjoining: NO UNK YES	
2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?	Property: NO UNK YES Adjoining: NO UNK YES	
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: NO UNK YES Adjoining: NO UNK YES	
4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: NO UNK YES Adjoining: NO UNK YES	
5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?	NO UNK YES	

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?	New?: NO UNK YES Past?: NO UNK YES	
7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?	New?: NO UNK YES Past?: NO UNK YES	
8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	New?: NO UNK YES Past?: NO UNK YES	
9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?	New?: NO UNK YES Past?: NO UNK YES	
10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?	New?: NO UNK YES Past?: NO UNK YES	

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	New?: NO UNK YES Past?: NO UNK YES	
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	New?: NO UNK YES Past?: NO UNK YES	
13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?	NO UNK YES	
14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	NO UNK YES	

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?	NO UNK YES	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	NO UNK YES	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	NO UNK YES	
18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?	NO UNK YES	

21. How do you currently use the property and how have you used the property in the past (please be specific). See Attachment

22. What is your understanding of how the property was used before your ownership/occupancy? See Attachment

Completed by: [illegible] Director of Facilities

Phone: (262) 612-8280

Date completed: April 22, 2004

Relation to property: _____ owner _____ operator _____ manager _____ tenant

April 22, 2004

Attachment to Phase one Environmental Site Assessment Questionnaire Form:

1&2) The property east of the racetrack across 104th ave. is an industrial park.

3) The Harley Davidson Dealership adjoining the property repairs motorcycles.

4) We have no direct evidence that this property was previously used as a landfill. But, people who have lived in this area have told us that it was at sometime in the past. In the area around where our main entrance is off of highway 158.

6)	HDQ	Germicidal Disinfectant
	Liquid Terge Apc	All purpose Cleaner
	Zep Shield	Floor Wax
	Trendsetter	Floor Sealer / Finish
	Shineline Emulsifier plus	Floor Wax Stripper
	Hydraulic Oil	
	Oil 15w-40	
	Liquid Ice Melt	Used to de-ice rail on track.

MSDS sheets are attached.

7) Rock Salt, Magnesium Chloride, Calcium Chloride
MSDS sheets are attached.

<u>10) Track Maintenance Building</u>

500-Gallon Diesel Fuel Tank – Above ground

<u>Kennel Generator</u>

Onan 20 – Genset
Cummins Diesel Engine
Model #4A2 3-GI
Serial #53124381
Rated 34 BHP at 1800 R.P.M.
Single Phase KW20 KVA20
80 Gallon Diesel Fuel Tank – attached to generator

Building Generator

DMT Corporation
Cummins 300 Diesel
Model #300 CA
Serial #89518-1
300 KW 375 KVA 951 Amps
800 Gallon Diesel Fuel Tank – Under Ground Double Wall Tank
PPM 2000 Leak Tank Alarm

11) The vent and fill port for the underground diesel tank for the building emergency generator.

13) The property receives its water supply from the Kenosha Water Utility.

21) This property since it was built in June 1990 has been used as a Greyhound Racetrack.

22) Farming.

Bonnie -
Please fax this
to Mike Hallman
at RINE A.S.A.P.
on Friday morn.
Thanks Bill

4-23-04

Faxed to
Mike Hallman
Confirmation Sheet
on back!
Thanks
Bonnie

DAIRYLAND GREYHOUND PARK INC.
5522 104TH AVENUE
KENOSHA WISCONSIN 53144

FAX COVER SHEET

TO: Mike Hallman

FROM: Bill Apgar

DATE: _____

TOTAL NUMBER OF PAGES 8 **INCLUDING COVER**

COMMENTS FYI & Input. Please make any corrections needed - Dennis K's answers to environmental questionaire. Please let me know if ok to mail.

SENT BY _____

ANY PROBLEMS WITH THIS FAX PLEASE CALL
262-657-8200 EXT. _____

DATE: 6/13/96

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: H-D Plus AW Hydraulic Oil ISO 32, 46, 68, 100, 150, 300.

SUPPLIER INFORMATION:
Liqua-Tek, Inc.
1212 W. Second St.
Oconomowoc, WI 53066

MANUFACTURER INFORMATION:
Liqua-Tek, Inc.
1212 W. Second St.
Oconomowoc, WI 53066

EMERGENCY TELEPHONE: 800-499-LUBE (5823) Liqua-Tek, Inc.

PREPARER: Steven Zimmerman PHONE: (414)567-5096 PREPARE DATE: 6/13/96

NFPA CODE: HEALTH: 0 FIRE: 1 REACTIVITY: 0

CHEMICAL IDENTITY: Petroleum Lubricating Mineral Oil CAS64742650- Range 95 - 99.99%

SECTION 1 -- HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS: This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs or National Toxicology Program.

SECTION 2 -- FIRE AND EXPLOSION HAZARDS

FLASH POINT:385- 460°F

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water spray; Water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full face piece.

UNUSUAL FIRE & EXPLOSION HAZARDS: None.

SECTION 3 -- HEALTH HAZARD DATA

ORAL TOXICITY: Greater than 5000 mg/kg in rats. Based on data from components.

EYE IRRITATION: Not expected to cause eye irritation. Based on data from components.

SKIN IRRITATION: Not expected to cause skin irritation. Based on data from components.

OTHER: Unknown.

TLV: None established. Oil mist = 5 mg/cu meter.

****EMERGENCY FIRST AID PROCEDURES****

SKIN: Wash with soap and water.

EYES: Flush eyes with water for 15 minutes.

INHALATION: Remove to fresh air. See physician if irritation persists.

ORAL: Call a physician. Do NOT induce vomiting.

SECTION 4 -- SPECIAL PROTECTION INFORMATION

VENTILATION PROCEDURE: Mechanical ventilation recommended.

EYE PROTECTION: Safety glasses.

GLOVES PROTECTION: Neoprene or nitrile rubber gloves recommended.

SECTION 5 -- PHYSICAL DATA

VAPOR PRESSURE: Not Determined
SPECIFIC GRAVITY: .875
PERCENT VOLATILE: Not Determined
EVAPORATION RATE: Not Determined
APPEARANCE: Amber Liquid
pH: Not Determined
WATER SOLUBILITY: Insoluble
VAPOR DENSITY: Not Determined
ODOR: Mild

SECTION 6 -- STABILITY

STABILITY: Stable

INCOMPATIBILITY: Oxidizing agents.

POLYMERIZATION: Will not occur.

THERMAL DECOMPOSITION: Oxides of carbon.

SECTION 7 -- SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal. Absorb small amounts of inert material for disposal.

WASTE DISPOSAL: If disposed of, this material is believed to be non-hazardous. Disposal should be in compliance with federal, state, and local laws.

SECTION 8 -- TRANSPORTATION AND LABELING

DOT PROPER SHIPPING NAME: Not Determined
DOT ID NUMBER: None
EPA HAZARDOUS SUBSTANCES: None
PRECAUTIONARY LABELS: None
DOT HAZARD CLASS: NOT DETERMINED
IMO CLASS: None
ICAO CLASS: None

SECTION 9 -- SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS: Remove contaminated clothing and launder before use.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Liqua-Tek, Inc. knowledge; however, Liqua-Tek, Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTIBILITY or FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Liqua-Tek, Inc. assumes no responsibility for the injury to recipient or to third persons or for any damage to any property & recipient assumes all such risks.

DATE: 5/9/96

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: H-D PLUS SAE 15W-40 SG/CE & SAE 10W-30 SH/CE
IDENTIFICATION NUMBER: SH/CE

SUPPLIER INFORMATION:
Liqua-Tek, Inc.
1212 W. Second St.
Oconomowoc, WI 53066

MANUFACTURER INFORMATION:
Liqua-Tek, Inc.
1212 W. Second St.
Oconomowoc, WI 53066

EMERGENCY TELEPHONE: 800-499-LUBE (5823) Liqua-Tek, Inc.

PREPARER: Steven Zimmerman PHONE: (414)567-5096 PREPARE DATE: 5/9/96

NFPA CODE: HEALTH: 0 FIRE: 1 REACTIVITY: 0

CHEMICAL IDENTITY: CAS #64742650 Petroleum Lubricating Oil Range 990-99%
ADDITIVES: Proprietary

SECTION 1 -- HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS: This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs or National Toxicology Program.

SECTION 2 -- FIRE AND EXPLOSION HAZARDS

FLASH POINT: 330- 360°F COC

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

EXTINGUISHING MEDIA: CO2, dry chamicals, foam, water spray; water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full face piece.

UNUSUAL FIRE & EXPLOSION HAZARDS: None.

SECTION 3 -- HEALTH HAZARD DATA

ORAL TOXICITY: Greater than 5000 mg/kg in rats. Based on data from components.

EYE IRRITATION: Not expected to cause eye irritation. Based on data from components.

SKIN IRRITATION: Not expected to cause skin irritation. Based on data from components.

OTHER: Unknown.

TLV: None established. Oil mist = 5 mg/cu meter.

****EMERGENCY FIRST AID PROCEDURES****

SKIN: Wash with soap and water.

EYES: Flush eyes with water for 15 minutes.

INHALATION: Remove to fresh air. See physician if irritation persists.

ORAL: Call a physician. Do NOT induce vomiting.

SECTION 4 -- SPECIAL PROTECTION INFORMATION

VENTILATION PROCEDURE: Mechanical ventilation recommended.

EYE PROTECTION: Safety glasses.

GLOVES PROTECTION: Neoprene or nitrile rubber gloves recommended.

SECTION 5 -- PHYSICAL DATA

VAPOR PRESSURE: Not Determined
SPECIFIC GRAVITY: .875
PERCENT VOLATILE: Not Determined
EVAPORATION RATE: Not Determined
APPEARANCE: Amber Liquid
pH: Not Determined
WATER SOLUBILITY: Insoluable
VAPOR DENSITY: Not Determined
ODOR: Mild

SECTION 6 -- STABILITY

STABILITY: Stable

INCOMPATIBILITY: Oxidizing agents.

POLYMERIZATION: Will not occur.

THERMAL DECOMPOSITION: Oxides of carbon.

SECTION 7 -- SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal. Absorb small amounts of inert material for disposal.

WASTE DISPOSAL: If disposed of, this material is believed to be non-hazardous. Disposal should be in compliance with federal, state, and local laws.

SECTION 8 -- TRANSPORTATION AND LABELING

DOT PROPER SHIPPING NAME: Not Determined
DOT ID NUMBER: None
EPA HAZARDOUS SUBSTANCES: None
PRECAUTIONARY LABELS: None
DOT HAZARD CLASS: NOT DETERMINED
IMO CLASS: None
ICAO CLASS: None

SECTION 9 -- SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS: Remove contaminated clothing and launder before use.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Liqua-Tek, Inc. knowledge; however, Liqua-Tek, Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTIBILITY or FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Liqua-Tek, Inc. assumes no responsibility for the injury to recipient or to third persons or for any damage to any property & recipient assumes all such risks.

MATERIAL SAFETY DATA SHEET

Conforms to 29 CFR 1910.1200 (OSHA HAZARD COMMUNICATION STANDARD)

ATHEA LABORATORIES, INC.
P.O. Box 23926
Milwaukee, WI 53224

PRODUCT NAME: LIQUID ICE MELT

EMERGENCY TELEPHONE NUMBERS: (414) 354-6417 CHEMTREC (800) 424-9300

SECTION I - PRODUCT IDENTIFICATION

Trade Names and Synonyms:
LIQUID ICE MELT
Chemical Name/Synonyms:
N/A
Chemical Family:
DE-ICING FORMULA
Formula: MIXTURE

NFPA HAZARD IDENTIFICATION SYSTEM

		HAZARD RATING
		4 - Extreme
HEALTH	1	3 - High
FLAMMABILITY	2	2 - Moderate
REACTIVITY	0	1 - Slight
		0 - Insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	Approx. %	OSHA PEL	ACGIH TLV	CARCINOGENICITY NPT	IARC	OSHA	CAS No.
Ethylene Glycol	35.00	50 ppm	50 ppm	N	N	N	107-21-1
Methanol	20.00	200 ppm	200 ppm	N	N	N	67-56-1

SECTION III - PHYSICAL DATA

Boiling Point (°F): 250
Vapor Pressure (mm Hg): NOT DET.
Vapor Density (air = 1): NOT DET.
Solubility in water: SOLUBLE
Specific Gravity: 0.99
% Volatile (volume %): >15.0
Evaporation Rate (ether = 1) >1.0
pH: N/A
Appearance and Odor: CLEAR, WATER WHITE LIQUID, GLYCOL ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F): 63
(test method): CLOSED CUP
Flammable Limits in air (volume %)
Upper: 7.5 Lower: 1.0
Extinguishing Media: WATER, FOAM, CARBON DIOXIDE, DRY CHEMICAL.
Special Fire Fighting Procedure: FIREFIGHTERS SHOULD USE FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. COOL FIRE-EXPOSED CONTAINERS WITH WATER FOG.
Unusual Fire and Explosion Hazard: NONE

SECTION V - REACTIVITY DATA

Stability: STABLE
Conditions to Avoid: NONE
Incompatibility: NONE
Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON.
Hazardous Polymerization: WILL NOT OCCUR
Conditions to Avoid: NONE

HEALTH HAZARD DATA	THRESHOLD LIMIT VALUE	200 mg/m³ (AIR) BASED ON A MIST OF C - 452 IN AIR, RELATIVE TO SODIUM MOLYBDATE.	C-452
	ACUTE HEALTH HAZARDS	CHRONIC HEALTH HAZARDS	
	MILD IRRITANT	NONE KNOWN	

EFFECTS OF EXPOSURE	SKIN AND EYES / TARGET ORGAN	INHALATION	INGESTION
	TISSUE IRRITATION MAY CAUSE EYE IRRITATION AND POSSIBLE CONJUNCTIVITIS. PROLONGED EXPOSURE MAY DAMAGE EYE TISSUE.	NON - VOLATILE IF A MIST OR SPRAY IS DRAWN INTO THE BREATHING TRACT, IRRITATION OF BRONCHIAL TISSUE AND LUNGS MAY OCCUR. PROLONGED EXPOSURE MAY PRODUCE NASAL SORES AND MUCOUS TISSUE BURNS.	MILD IRRITANT MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.
CONDITIONS AGGRAVATED	DERMATITIS, BLISTERS, BURNS, OR ANY PRE-EXISTING SKIN IRRITATION IF CONTACT OCCURS.	IN NORMAL USE, NO EFFECT SHOULD BE NOTED SINCE NO HAZARDOUS VOLATILES ARE PRESENT.	IF INGESTION OCCURS, STOMACH ULCERS OR OTHER PRE - EXISTING DIGESTIVE CONDITIONS.

EMERGENCY PROCEDURES	SKIN AND EYES	INHALATION	INGESTION
	EYES FLUSH EYES WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. SKIN FLUSH WITH WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH WELL BEFORE REUSE. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.	NON - VOLATILE IF LIQUID OR CONCENTRATED SPRAY OR MIST IS INHALED, REMOVE SUBJECT TO FRESH AIR. GET PROMPT MEDICAL ATTENTION.	INDUCE VOMITING IF CONSCIOUS, DILUTE INGESTED MATERIAL WITH 2 OR MORE GLASSES OF WATER OR MILK BEFORE ANY ATTEMPT TO INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. MEDICAL ATTENTION IS REQUIRED.

CARCINOGEN LISTING	NATIONAL TOXICOLOGY PROGRAM (NTP)	I.A.R.C. MONOGRAPHS	O.S.H.A. REGULATED
	NO	NO	NO .

SPILL OR LEAK PROCEDURES	SPILLS AND RELEASES	WASTE DISPOSAL METHODS
	CONTAIN SPILLED MATERIAL AND COLLECT INTO SUITABLE CONTAINER FOR DISPOSAL.	CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WASTE DISPOSAL.

CONTROL MEASURES				
	EYE PROTECTION	SAFETY GLASSES WITH SIDE SHIELDS.		
	RESPIRATORY PROTECTION	NOT REQUIRED FOR ORDINARY USE. DURING EMERGENCY CONDITIONS OR IF A SERIOUS SPILL OCCURS, AN AIR PURIFING RESPIRATOR DESIGNED TO ABSORB FINE DUST, SMOKE, AND ACIDIC VAPORS SHOULD BE USED.		
	OTHER PROTECTIVE EQUIPMENT	IMPERMEABLE CLOTHING. AN EYEWASH FOUNTAIN IS ADVISABLE IN THE AREA OF USE.		
	LOCAL EXHAUST	YES	SPECIAL VENTILATION	NOT REQUIRED FOR NORMAL USE.
	MECHANICAL VENTILATION	NOT REQUIRED FOR NORMAL USE.	OTHER VENTILATION	NOT REQUIRED FOR NORMAL USE.
	PROTECTIVE GLOVES	NON - SLIP VINYL OR RUBBER GLOVES.	PROTECTIVE CLOTHING	APRON OR COVERALLS

REFERENCES

1. *Threshold Limit Values For Chemical Substances And Physical Agents In The Work Environment;* ACGIH, 1989.
2. *OSHA Safety and Health Standards:* 29CFR 1900 to 1910, July 1, 1988
3. *Fifth Annual Report on Carcinogens;* U.S. Dept. of Health and Human Services, National Toxicology Program, 1989 (Summary).
4. M. Sittig, *Handbook of Toxic & Hazardous Chemicals,* (Noyes Publications, Park Ridge, N.J., 1981)
5. *Community Right - To - Know Manual,* (Thompson Publishing Group, Washington, D.C., 1990).
6. *Right - To - Know / Chemical Manual* (ILLINOIS MANUFACTURES ASSOCIATION: Rooks, Pitts, and Poust, 1990).
7. *Toxic and Hazardous Industrial Chemicals Safety Manual* (THE INTERNATIONAL TECHNICAL INFORMATION INSTITUTE, 1975).
8. M. J. Lefevre, S. A. Conibear, *First Aid Manual for Chemical Accidents.* 2nd ed. (Van Nostrand Reinhold, New York, 1989).
9. *Hazardous Materials Guide: Shipping, Materials Handling and Transportation* (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec 1990)
10. *Hazard Communication Guide; Federal & State Right to Know Standards* (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990)

REPORTABLE QUANTITY	IF MORE THAN THE INDICATED QUANTITY IS DISCHARGED TO DRAINAGE (Sewer / surface water) AIR, OR SOIL, IMMEDIATELY REPORT AS INDICATED		
	CERCLA OR EPA (Extremely Hazardous) NATIONAL RESPONSE CENTER (800 - 424 - 8802)	STATE EMERGENCY RELEASE NOTIFICATION ILLINOIS (Only) 800 - 782 - 7860 (Consult for others)	LOCAL EMERGENCY RESPONSE AUTHORITY Record Telephone No. of Local Response Authority
WRITTEN REPORT MUST FOLLOW	NA	NA	NA

MATERIAL SAFETY DATA SHEET

QUICKREFERENCE: C-452

H-O-H CHEMICALS, INC.
500 SOUTH VERMONT STREET
PALATINE, ILLINOIS 60067

EMERGENCY PHONE No"s
847-358-7400 (H-O-H BUSINESS Hrs.)
800-424-9300 (CHEMTREC - 24 Hrs.)

HMIS:

4 = EXTREME
3 = SEVERE
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

DOT:

HAZARD LABELING

NONE REQUIRED

IN DOT LISTED POLYETHYLENE CONTAINERS

PRODUCT IDENTIFICATION

PRODUCT NAME	CHEMICAL FAMILY	DATE	Rev. No.	SUPERSEDES	E.P.A. T.P.Q.	BY
C-452	COOLING WATER TREATMENT	1-1-00	9	1-1-98	NA	

HAZARDOUS COMPONENTS

CHEMICAL NAME	COMMON NAME	C.A.S. No.	PERCENT	OSHA PEL	ACGIH-TLV	OTHER
SODIUM MOLYBDATE DIHYDRATE	SAME	7631-95-0	2.50	5 mg / m³	5 mg / m³	NOT APPLICABLE

COMMENT

The TL_{50} is that level of concentration at which the designated exposure time produces a mortality rate of 50% in the test population. The "no effect" level is the highest concentration at which the mortality rate is zero over the exposure time.

TL_{50} concentrations for sodium molybdate are quite high, ranging from 3,200 to over 10,00 ppm. Moreover, the "no effect" concentration levels of 1,800 to 7,500 ppm would generally classify sodium molybdate as not a toxic substance.

Molybdenum has a low order of toxicity. Cellular toxicity to rats by injection was about 115 mg/kg of body weight. Oral toxicity was about the same, depending on the compound, being 125 mg/kg for the trioxide, 101 mg for calcium molybdate, and 333 mg for ammonium molybdate.

Comparative Acute LD_{50} Toxicity of Sodium Molybdate and Sodium Dichromate.

Chemical	Species	Test Duration (Hrs.)	LD_{50} Concentration
Molybdate	Rainbow Trout	96	7,340 ppm
Chromate	Rainbow Trout	96	285 ppm
Molybdate	Daphnia	48	3,220 ppm
Chromate	Daphnia	48	3 ppm

PHYSICAL DATA

BOILING POINT (Degrees Fahrenheit)	216°	SOLUBILITY (In water)	COMPLETE	EVAPORATION RATE (Water = 1.0)	< 1.0
VAPOR PRESSURE (In millimeters of Mercury)	WATER	SPECIFIC GRAVITY (water = 1.0)	1.0665	PH	12.0
VAPOR DENSITY (air = 1.0)	NA	PERCENT (%) VOLATILE (by volume)	NA		
APPEARANCE and ODOR	LIGHT YELLOW LIQUID WITH MILD ORGANIC ODOR.				

FIRE AND EXPLOSION

FLASH POINT (Degrees Fahrenheit)	METHOD	FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIVE LIMIT
NONE	NA		NOT APPLICABLE	NOT APPLICABLE

EXTINGUISHING MEDIA	SPECIAL FIRE FIGHTING PROCEDURES	UNUSUAL FIRE AND EXPLOSION HAZARDS
WATER COOL CONTAINERS TO PREVENT RUPTURE.	NONE	NONE

REACTIVITY DATA

STABILITY STABLE [X] UNSTABLE [ ]	CONDITIONS TO AVOID	NOT APPLICABLE
INCOMPATABILITY (Materials to Avoid)	STRONG MINERAL ACIDS, OTHER CHEMICAL TREATMENT FORMULATIONS.	
HAZARDOUS DECOMPOSITION PRODUCTS	NONE UNDER ORDINARY CIRCUMSTANCES. UNDER EXTREME HEATING SUCH AS IN A FIRE, DECOMPOSITION MAY OCCUR, OXYGEN MAY BE PRODUCED.	
HAZARDOUS POLYMERIZATION MAY WILL OCCUR [ ] WON'T OCCUR [X]	CONDITIONS TO AVOID	NOT APPLICABLE

SPECIAL PRECAUTIONS

STORAGE AND HANDLING

1. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE.
2. STORE IN A COOL, DARK, WELL-VENTILATED LOCATION AWAY FROM DIRECT SUNLIGHT AND OTHER SOURCES OF RADIANT HEAT.
3. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. NEVER MOVE AN OPEN OR LOOSELY CLOSED CHEMICAL CONTAINER.
4. WEAR HAND AND FOOT PROTECTION WHEN MOVING HEAVY CONTAINERS.

OTHER

1. NOT TO BE TAKEN INTERNALLY.
2. NOT TO BE USED FOR OTHER THAN SPECIFIED PURPOSE.
3. KEEP AWAY FROM CHILDREN.
4. NEVER MIX THIS MATERIAL WITH ANY OTHER CHEMICAL UNLESS AT THE SPECIFIC DIRECTION OF H-O-H PERSONNEL.
5. TRIPLE RINSE EMPTY CONTAINERS BEFORE OFFERING FOR DISPOSAL OR SALVAGE. NEVER REUSE EMPTY CONTAINERS.

Spartan Chemical Company, Inc.
Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
TRENDSETTER
Product Number: 4010

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spil Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Buffing, polishing compounds, liquid, n.o.s.

NFPA Ratings:	HMIS Ratings:
Health: 1- Slight	**Health:** 1- Slight
Fire: 0 - Minimal	**Fire:** 0 - Minimal
Reactivity: 0 - Minimal	**Reactivity:** 0 - Minimal
	Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A TWA mg/m^3	STEL mg/m^3	CEILING mg/m^3	Carcinogen
Styrene acrylic polymer	NA	Proprietary	Not Established	Not Established	Not Established	No
Tributoxyethyl phosphate	NA	78-51-3	Not Established	Not Established	Not Established	No
Modified rosin ester	NA	68152-55-6	Not Established	Not Established	Not Established	No
*Diethylene glycol monoethyl ether	5.0	111-90-0	137.2 (AIHA)	Not Established	Not Established	No
	-	-	-	-	-	-

Comment: *This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: 8.8-9.0	Specific Gravity (H_2O=1): 1.03
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 20-22
Physical State: Liquid	
Appearance & Odor: Translucent emulsion, slight ammoniacal odor	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: None	Method Used: ASTM-D56
Flammable Limits: N/A	Flame Extension: N/A
Extinguishing Media: N/A	
Special Fire Fighting Procedures: N/A	
Unusual Fire & Explosive Hazards: N/A	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes and Oral.

Effects of Overexposure- Conditions to Avoid: **May cause eye and skin irritation. Inhalation of vapors may cause respiratory irritation, headache and nausea. Harmful if swallowed.**
Contains diethylene glycol monoethyl ether which may be harmful if absorbed through the skin. Diethylene glycol monoethyl ether may cause central nervous system and respiratory depression, gastrointestinal tract, liver and kidney impairment. Avoid contact with eyes and skin. Avoid breathing product vapors or mists. Do not swallow.

Conditions Aggravated by Use: Preexisting eye; skin and respiratory disorders.

Emergency & First Aid Procedures:

Eyes: In case of contact; flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

Skin: Flush skin with water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists.

Ingestion: Get immediate medical attention. Do not induce vomiting unless told to do so by poison control center or doctor. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.

Inhalation: In case of respiratory irritation; move person to fresh air. Get medical attention if irritation persists.

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	None known
Hazardous Decomposition Products:	None known	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Small spills, flush with water to sewer system. Dike and contain large spills with inert material and transfer liquid to containers for recovery or disposal.

Waste Disposal Method: Incineration or approved landfill.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not normally needed when good ventilation is provided. However, if exposure limits are exceeded (see Section II) or if respiratory irritation occurs, a NIOSH approved respirator suitable for the substances in Section II should be worn.

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Protective Gloves(Specify Type): Impervious gloves are recommended to prevent skin contact.

Eye Protection(Specify Type): Splash goggles are recommended to prevent eye contact.

Other Protective Equipment: See 29 CFR 1910.132-138.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing: Keep from freezing. Keep out of reach of children.

Other Precautions: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Methylpyrrolidone ; CAS No. 872-50-4; < 1.0%

© SCC 01/01/2002

Name:	Ronald T. Cook	Title:	Manager, Regulatory Affairs
Effective Date:	01/01/2002	Supercedes:	09/24/1999
Changes:	Update Sections I, II, III, V, VII & IX		

TRENDSETTER

Ref: 29 CFR 1910.1200 (OSHA)

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.

Spartan Chemical Company, Inc.
Material Safety Data Sheet

Spartan

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
SHINELINE EMULSIFIER PLUS
Product Number: 0084

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spil Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Compounds, cleaning liquid, 8, NA 1760, II, (contains sodium hydroxide)

NFPA Ratings:	HMIS Ratings:
Health: 3 - Serious	**Health:** *3 - Serious: Chronic Hazard
Fire: 0 - Minimal	**Fire:** 0 - Minimal
Reactivity: 0 - Minimal	**Reactivity:** 0 - Minimal
	Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A TWA mg/m^3	STEL mg/m^3	CEILING mg/m^3	NTP, IARC or OSHA Carcinogen
*2-Butoxyethanol	28	111-76-2	120 (skin)	Not Established	Not Established	No
Monoethanolamine	05-10	141-43-5	8	15	Not Established	No
Sodium xylene sulfonate	01-05	1300-72-7	Not Established	Not Established	Not Established	No
Sodium metasilicate	01-05	6834-92-0	Not Established	Not Established	Not Established	No
Sodium hydroxide	01-05	1310-73-2	2	Not Established	Not Established	No
Ethoxylated alcohols phosphate ester	01-05	68130-47-2	Not Established	Not Established	Not Established	No
	-	-	-	-	-	-

Comment: *This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and of 40 CFR 372.

SECTION III: PHYSICAL DATA

Boiling Point: 200 °F	Vapor Pressure: Unknown
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: 13.5-13.7	Specific Gravity (H_2O=1): 1.02
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 8-9
Physical State: Liquid	
Appearance & Odor: Clear liquid, fresh fragrance	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 200°F	Method Used: ASTM-D56
Flammable Limits: N/A	Flame Extension: N/A
Extinguishing Media: N/A	
Special Fire Fighting Procedures: N/A	
Unusual Fire & Explosive Hazards: N/A	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes & Oral

Effects of Overexposure- Conditions to Avoid: **CORROSIVE:**

HARMFUL TO EYES: Causes severe eye damage or irritation with symptoms of pain, redness, swelling of the conjunctiva and possible permanent corneal damage.

HARMFUL TO SKIN: Causes severe skin damage or irritation with symptoms of pain, redness and chemical burns. Harmful contact may not cause immediate pain. Repeated contact may cause a dermatitis. **Harmful if absorbed through the skin.**

HARMFUL OR FATAL IF SWALLOWED: Causes damage or chemical burns to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea. Aspiration of product into the lungs may occur during ingestion or vomiting, resulting in lung injury.

HARMFUL IF INHALED: Breathing product vapor or mist may cause irritation or damage of the respiratory tract, with symptoms of nasal discomfort and discharge with chest pain and coughing.

Contains 2-butoxyethanol which may cause central nervous system depression with symptoms such as headache; dizziness; nausea and drowsiness. Exposure to 2-butoxyethanol may cause blood cell; liver and kidney damage based on animal data.

Contains monoethanolamine which may cause liver and kidney damage with repeated exposure.

Do not get in eyes, on skin or clothing. Avoid breathing product vapor or mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.

Conditions Aggravated by Use: Preexisting skin; eye and respiratory disorders.

Emergency & First Aid Procedures:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Call a poison control center or doctor for treatment advice.

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a poison control center or doctor for treatment advice. wash contaminated clothing before reuse. Destroy contaminated shoes.

Ingestion. Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.

Inhalation: In case of respiratory irritation or dizziness; move person to fresh air. If not breathing; give artificial respiration. If breathing is difficult; give oxygen. Call a poison control center or doctor for treatment advice.

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong acids and oxidizing agents
Hazardous Decomposition Products:	None known	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Contain large spills and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and dispose in accordance with federal, state and local regulations.

Waste Disposal Method: Assure conformance with federal, state and local regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: If exposure limits are exceeded (see Section II) or if respiratory irritation occurs, the use of an appropriate NIOSH approved respirator is recommended.

Ventilation: Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

Protective Gloves(Specify Type): Solvent/alkali resistant gloves such as neoprene, nitrile or natural rubber/ latex are recommended.

Eye Protection(Specify Type): Splash goggles are recommended to prevent eye contact.

Other Protective Equipment: Solvent /alkali resistant boots are recommended. Use of impervious apron, face shield and other protective equipment should be considered in order to prevent or minimize contact with this product. Eye wash stations and washing facilities should be readily accessible. See 29 CFR 1910.132-138.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing: Keep container tightly closed. Store in a cool, dry area. Do not freeze. Do not store above 120°F. Do not mix with other chemicals. Keep out of reach of children.

Other Precautions: California Proposition 65: WARNING: This product contains the following chemicals known to the State of California to cause cancer or birth defects or other reproductive harm:

Ethylene oxide: CAS No. 75-21-8 (Trace); Dioxane; CAS No. 123-91-1 (Trace); Acetaldehyde; CAS No. 75-07-0 (Trace)

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.

CLEAN ACROSS AMERICA AND THROUGHOUT THE WORLD™
ZEP MANUFACTURING COMPANY
P.O. BOX 2015
ATLANTA, GEORGIA 30301

MATERIAL SAFETY DATA SHEET
AND SAFE HANDLING AND DISPOSAL INFORMATION

ISSUE DATE: 12/11/91
SUPERSEDES: 06/25/86 Date printed: 09/21/97

ZEP SHIELD
1971 Floor Finish

SECTION I - EMERGENCY CONTACTS

TELEPHONE:
(404) 352-1680 *BETWEEN 8:00 AM - 5:00 PM (EST)*
MEDICAL EMERGENCY:
(770) 439-4200 *NON OFFICE HOURS, WEEKENDS*
(770) 432-2873 *AND HOLIDAYS, PLEASE CALL YOUR*
(770) 424-4789 LOCAL POISON CONTROL
(770) 392-1480
(770) 455-8160
(770) 552-8836
TRANSPORTATION EMERGENCY:
(770) 922-0923
CHEMTREC:
(800) 424-9300 TOLL FREE - ALL CALLS RECORDED
DISTRICT OF COLUMBIA:
(202) 483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	(PPM)	EFFECTS (SEE NOTICE)	% IN PROD.

OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910. 1200) DOES NOT REQUIRE THE LISTING OF ANY INGREDIENTS FOR THIS PRODUCT.

SECTION III - HEALTH HAZARD DATA

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.
ACUTE EFFECTS OF OVEREXPOSURE:
There are no known effects from acute overexposure to this product. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.
No medical conditions are known to be aggravated by exposure to ingredients in this product.
CHRONIC EFFECTS OF OVEREXPOSURE:
There are no known effects from chronic exposure to this product.
None of the hazardous ingredients are listed as carcinogens by IARC, NTP, & OSHA
EST'D PEL/TLV: Not established PRIMARY ROUTES OF ENTRY: N/A

HMIS CODES: HEALTH 0;FLAM. 0;REACT. 0;PERS. PROTECT. N/A;CHRONIC HAZ. NO

FIRST AID PROCEDURES:
SKIN: Flush contaminated skin with plenty of water. Consult a physician if irritation develops.
EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.
INHALE: Move exposed person to fresh air. If irritation persists, get medical attention promptly.
INGEST: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING: The use of neoprene, nitrile or natural rubber gloves is strongly recommended, especially for prolonged contact.
EYE PROTECTION: Use of tight-fitting safety glasses or goggles is strongly recommended, especially when wearing contact lenses.
RESPIRATORY PROTECTION: No special measures are required.
VENTILATION: No special measures are required.

SECTION V - PHYSICAL DATA

BOILING POINT (F):	~ 212	SPECIFIC GRAVITY:	1.03
FREEZING POINT (F):		PERCENT VOLATILE BY VOL:	
VAPOR PRESSURE(MMHG):	N/A	EVAPORATION RATE (WATER=1):	1.0
VAPOR DENSITY(AIR=1):	N/A	PH(CONCENTRATE):	8.6
SOLUBILITY IN WATER:	COMPLETE	PH(USE DILUTION OF N/A):	N/A

APPEARANCE AND ODOR: THIN, TRANSLUCENT, MILKY-WHITE LIQUID WITH MILD ODOR

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(C) (METHOD USED): None (TCC)
FLAMMABLE LIMITS: LEL: N/A UEL: N/A
EXTINGUISHING MEDIA: Noncombustible.
SPECIAL FIRE FIGHTING: None
UNUSUAL FIRE HAZARDS: None

(Continued on Page 2)

Product Number: 1971

SECTION VII - REACTIVITY DATA (continued)

STABILITY: Stable
INCOMPATIBLILITY(AVOID): Strong oxidizing agents.
POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Carbon dioxide, carbon monoxide, & oxides of nitrogen

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Observe safety procedures in section 4 & 9 during clean-up. Absorb spill on inert absorbent material (eg Zep-O-Zorb). Pick up and place residue in a suitable waste container or, if permitted, flush to sewer. Thoroughly rinse spill area with water.
WASTE DISPOSAL METHOD:
Liquid wastes are not permitted in landfills. This product is not considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an inert absorbent material (eg. Zep-O-Zorb), drummed, and taken to a chemical or industrial landfill. In some areas disposal by flushing into a sanitary sewer with plenty of water may be permissible. Consult local, state, and federal agencies for proper disposal method in your area.
RCRA HAZ. WASTE NOS.: N/A

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
Store tightly closed container in a dry area at temps. between 40-120 degrees F.
Keep product away from skin and eyes.
Keep out of the reach of children.

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME: BUFFING OR POLISHING COMPOUND, NOI, OR WAX, KEEP FROM FREEZIN
DOT HAZARD CLASS:
DOT I.D. NUMBER: DOT LABEL/PLACARD:
EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED
EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): NONE

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be send to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS USED IN THE MSDS: BY SECTION ALPHABETICALLY:

SECTION II: HAZARDOUS INGREDIENTS

CAR; Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.
CAS #; Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.
CBL; Combustible - At temperatures between 100F and 200F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.
CNS; Central Nervous System depressant reduces the activity of the brain and spinal cord.
COR; Corrosive - Causes irreversible alterations in living tissue (e.g. burns).
DESIGNATIONS; Chemical and common names of hazardous ingredients.
EIR; Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.
EXPOSURE LIMITS; The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLV s, and OSHA PEL s (TWA, STEL and ceiling limits).
ACGIH; American Conference of Governmental Industrial Hygienists.
CEILING; The concentration that should not be exceeded in the workplace during any part of the working exposure.
OSHA; Occupational Safety and Health Administration
PEL; Permissible Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.
PPM; Parts per million - unit of measure for exposure limits.
(S) SKIN; Skin contact with substance can contribute to overall exposure.
STEL; Short Term Exposure Limit - Maximum concentration for a continuous 15-minute exposure period.
TVL; Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.
FBL; Flammable - At temperatures under 100F, chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.
HAZARDOUS INGREDIENTS; Chemical substances determined to be potential health or physical hazards by the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200
HTX; Highly toxic - the probable lethal dose for a 70kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablespoons).
IRR; Irritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.
N/A; Not Applicable - Category is not appropriate for this product.
N/D; Not Determined - Insufficient information for a determination for this item.
RTECS#; Registry of Toxic Effects of Chemical Substances - an unreviewed listing of published toxicology data on chemical substances.
SARA; Superfund Amendments and Reauthorization Act - Section 313 designates chemicals for possible reporting for the Toxics Release Inventory.
SEN; Sensitizer - Causes allergic reaction after repeated exposure.
TOX; Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT; An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.
CHRONIC EFFECT; Adverse effects that are most likely to occur from repeated exposure over a long period of time.
EST DPEL/TLV; This estimated, time-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.
HMIS CODES; Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/reactivity) ranging from a low of zero to a high of 4. A chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment.
PRIMARY ROUTE OF ENTRY; The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.
ING; Ingestion - A primary route of exposure through swallowing of material
INH; Inhalation - A primary route of exposure through breathing of vapors.
SKIN; A primary route of exposure through contact with the skin.

SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks.
MSHA; Mine Safety and Health Administration
NIOSH; National Institute for Occupational Safety and Health

SECTION V: PHYSICAL DATA

EVAPORATION RATE; it refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).
pH; A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14).
PERCENT VOLATILE; The percentage of the product (liquid or solid) that will evaporate at 212F and ambient pressure.
SOLUBILITY IN WATER; A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION; Breakdown products expected to be produced upon product decomposition or fire.
INCOMPATIBILITY; Material contact and conditions to avoid to prevent hazardous reactions.
POLYMERIZATION; Indicates the tendency of the product s molecules to combine in a chemical reaction releasing excess pressure and heat.
STABILITY; Indicates the susceptibility of the product to spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES

RCRA WASTE NOS; RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA

CWA; Clean Water Act
RQ; Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.
TSCA; Toxic Substances Control Act - a federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the product s label and Material Safety Data Sheet.

Product Name: LIQUI-TERGE APC CONCENTRATED CLEANER
Date Issued: 02/04/99
Supersedes: 05/17/90
Unisource Item #: U17751, U17752, U17753, U17754, U17755

SECTION 5. REACTIVITY DATA

Stability: STABLE

Incompatibility - Materials to Avoid: THIS PRODUCT IS ALKALI IN NATURE AND IS NOT COMPATIBLE WITH STRONG ACIDS. DO NOT ADD OXIDIZING AGENTS (BLEACH) TO THIS PRODUCT.

Hazardous Polymerization: WILL NOT OCCUR

Conditions to Avoid: NONE KNOWN TO UNISOURCE

Hazardous Decomposition Products: WHEN EXPOSED TO FIRE, PRODUCES NORMAL PRODUCTS OF COMBUSTION.

SECTION 6. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill Response: FOR SMALL SPILLS. DILUTE WITH WATER AND PICK UP WITH MOP AND PAIL OR WET PICK UP VACUUM. FOR LARGE SPILLS, DIKE AREA TO CONTAIN SPILL. CLEAN UP USING ABSORBENT MATERIAL. PLACE ALL CONTAMINATED MATERIAL IN A CLOSED CONTAINER FOR DISPOSAL.

Product Disposal: WASTE FOR DILUTED PRODUCT MAY BE FLUSHED TO SEWER. UNDILUTED PRODUCT RECOVERED FROM SPILLS MAY BE SENT TO A LICENSED DISPOSAL FACILITY TO BE DISPOSED OF IN ACCORDANCE WITH FEDERAL/STATE REGULATIONS AND LOCAL ORDINANCES.

Container Disposal: TRIPLE RINSE EMPTY CONTAINER THOROUGHLY WITH WATER AND DISCARD IN REGULAR TRASH COLLECTION IF ALLOWED BY LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 7. HEALTH HAZARD DATA

Symptoms of Overexposure:
Primary Route(s) of Entry: EYES
Eye Contact: MILD EYE IRRITANT
Skin Contact: SKIN IRRITANT. PROLONGED OR REPAEATED CONTACT WITH UNDILUTED PRODUCT MAY CAUSE IRRITATION.
Inhalation: NO HEALTH EFFECTS ARE KNOWN TO OCCUR FORM INHALATION OF THIS PRODUCT UNDER NORMAL USE IN A WELL VENTILATED AREA. HIGH AIRBORNE CONCENTRATIONS OF MISTS OR SPRAYS OF OF THIS PRODUCT MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT.
Ingestion: LD 50 NOT ESTABLISHED

UNISOURCE WORLDWIDE, INC.
1100 CASSATT ROAD
BERWYN, PA. 19312-0935
Call Nearest Sales Office for MSDS Information 1-800-864-7687

EMERGENCY NO. 1-800-535-5053 (INFOTRAC)

SECTION 1. IDENTIFICATION OF PRODUCT

Product Name: LIQUI-TERGE APC CONCENTRATED CLEANER
Date Issued: 02/04/99
Supersedes: 05/17/90
Unisource Item #: U17751, U17752, U17753, U17754, U17755

SECTION 2. INGREDIENTS

INGREDIENTS	CAS NUMBER	PERCENT	EXPOSURE LIMITS IN AIR OSHA PEL	ACGIH TLV	OTHER
ALKYL BENZENE SULFONATE	27176-87-0	5-7	NOT ESTABLISHED		
SODIUM TRIPOLYPHOSPHATE	7758-24-4	6-8	10ppm (RESPIRABLE DUST)		

N/A = Not Applicable; N/D = Not Determined

SECTION 3. PHYSICAL DATA

Boiling Point (F): 212
Vapor Pressure (mm Hg.): <17
Vapor Density (Air=1): ND
Solubility in Water: SOLUBLE
Specific Gravity (Water=1): 1.05
Percent Volatile (By Volume): 84
Evaporation Rate (Water =1): 1
pH Range: 8.5
Appearance and Odor: CLEAR PINK / SWEET SCENT

Section 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): NON-FLAMMABLE
Flammable Limits: LEL= N/A UEL= N/A
Extinguishing Media: CO2, DRY CHEMICAL, FOAM, WATER FOG

Special Fire Fighting Procedures: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED. COOL AND USE CAUTION WHEN APPROACHING OR HANDLING FIRE-EXPOSED CONTAINERS.

Unusual Fire & Explosion Hazards: CONTAINERS MAY BURST IN HEAT.

Product Name: LIQUI-TERGE APC CONCENTRATED CLEANER
Date Issued: 02/04/99
Supersedes: 05/17/90
Unisource Item #: U17751, U17752, U17753, U17754, U17755

SECTION 8. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH THE EYE WITH LARGE QUANTITIES OF RUNNING WATER FOR A MINIMUM OF 15 MINUTES. HOLD THE EYELIDS APART DURING THE IRRIGATION TO ENSURE FLUSHING OF THE ENTIRE SURFACE OF THE EYE LID WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Skin Contact: FLUSH THE EFFECTED AREA WITH LARGE QUANTITIES OF RUNNING WATER WHILE REMOVING CONTAMINATED CLOTHES AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

Inhalation: REMOVE FROM CONTAMINATED AREA. IF SYMPTOMS OF RESPIRATORY DISCOMFORT PERSISTS, GET MEDICAL ATTENTION.

Ingestion: REQUIRES IMMEDIATE MEDICAL MANAGEMENT. DRINK MILK OR WATER AND GET MEDICAL ADVICE. VOMITING SHOULD BE INDUCED ONLY ON RECOMMENDATION OF MEDICAL PERSONNEL.

SECTION 9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: NO SPECIAL REQUIREMENTS UNDER NORMAL USECONDITIONS.
Ventilation: ROOM VENTILATION IS ADEQUATE.
Protection Gloves: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.
Eye Protection: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS.
Other Protective Clothing/Equipment: WHERE GROSS EYE OR SKIN CONTACT MAY OCCUR, USE APPROPRIATE PROTECTIVE EQUIPMENT.

SECTION 10. ADDITIONAL INFORMATION AND PRECAUTIONS

Handling and Storage Precautions: STORE IN A COOL DRY PLACE. REPLACE CAP AFTER USE. KEEP OUT OF REACH OF CHILDREN.
SARA TITLE III H&P RATINGS: Acute, YES; Chronic, NO; Fire, NO; Press. Release, NO; Reactive, NO;
NFPA RATINGS: HEALTH -1 FIRE -0 REACTIVITY -0 SPECIFIC -0

THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REPRESENTS THE LATEST DATA AND BEST OPINION AS TO THE PROPER USE AND HANDLING OF THIS PRODUCT UNDER NORMAL CONDITIONS. ANY USE OF THIS PRODUCT OR METHOD OF APPLICATION WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET AND THE PRODUCT LABEL DIRECTIONS, IS THE RESPONSIBILITY OF THE USER. THIS MATERIAL SAFETY DATA SHEET WAS PREPARED TO COMPLY WITH THE OSHA HAZARD COMMUNICATION REGULATION.

SPARTAN CHEMICAL CO., INC.
MATERIAL SAFETY DATA SHEET

HDQ Neutral

SECTION I: PRODUCT INFORMATION

PRODUCT NAME OR NUMBER (as it appears on label)
HDQ NEUTRAL

MANUFACTURER'S NAME
Spartan Chemical Co., Inc.

EMERGENCY TELEPHONE NO.
419/531-5551

ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)
110 N. Westwood Ave., Toledo, OH 43607

MANUFACTURER'S D-U-N-S NO.
00-503-6728

NFPA RATINGS:	HMIS RATINGS:
HEALTH-3 FIRE-0 REACT-0	HEALTH-3 FIRE-0 REACT-0 PERS. PROT.-B

SECTION II: HAZARDOUS INGREDIENTS

CAS REGISTRY NO.	%W	CHEMICAL NAME(S)	TABLE Z-1-A TWA mg/M³	STEL mg/M³	CEILING mg/M³	CARCINOGEN
7173-51-5	4.61	Didecyl dimethyl ammonium chloride	—	—	—	No
8001-54-5	3.07	n-Alkyl (C_{14} 50%, C_{12} 40%, C_{16} 10%) dimethyl benzyl ammonium chloride	—	—	—	No

SECTION III: PHYSICAL DATA

BOILING POINT
212°F

VAPOR PRESSURE -
17.5 mm Hg @ 75°F

VAPOR DENSITY (AIR = 1)
Unknown

SOLUBILITY IN WATER
Complete

pH
7.2-8.2

SPECIFIC GRAVITY (H_2O = 1)
0.997

EVAPORATION RATE (but. ace. = 1)
<1

APPEARANCE AND ODOR
Non-viscous red liquid,
mild citrus fragrance

PERCENT SOLID BY WEIGHT
10-15

IS MATERIAL: (LIQUID) SOLID
GAS PASTE POWDER

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT - None

METHOD USED - ASTM - D56

FLAMMABLE LIMITS - N/A

EXTINGUISHING MEDIA - N/A

SPECIAL FIRE FIGHTING PROCEDURES - None

UNUSUAL FIRE AND EXPLOSION HAZARDS - None

HDQ NEUTRAL

SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE – CONDITIONS TO AVOID THRESHOLD LIMIT VALUE – Not established
Ingestion – Harmful or fatal if swallowed.
Skin Contact – Causes severe skin irritation. Corrosive.
Eye Contact – Causes eye damage. Corrosive.
Avoid contamination of food. Do not get in eyes, skin or clothing.

PRIMARY ROUTES OF ENTRY INHALATION __ SKIN CONTACT X OTHER (SPECIFY) X
Ingestion and eye contact.
CONDITIONS AGGRAVATED BY USE – Unknown

EMERGENCY AND FIRST AID PROCEDURES – Skin and Eyes: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. Ingestion: If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

SECTION VI: REACTIVITY DATA

STABILITY: UNSTABLE ____
STABLE X

INCOMPATIBILITY (MATERIALS TO AVOID) – Strong Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS – CO, CO_2

HAZARDOUS POLYMERIZATION: MAY OCCUR ____
WILL NOT OCCUR X

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Small quantities may be flushed into sanitary sewer. Larger quantities should be picked up with absorbent material and disposed of in accordance with state and local regulations.

WASTE DISPOSAL METHOD – Same as above. Container disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, burn. If burned, stay out of smoke.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE) – Not required.
VENTILATION – Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PROTECTIVE GLOVES (SPECIFY TYPE)
Rubber or other water-proof gloves

EYE PROTECTION (SPECIFY TYPE)
Goggles or face shield

OTHER PROTECTIVE EQUIPMENT – None

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING – Keep from freezing.
OTHER PRECAUTIONS – None

Spartan Chemical Co., Inc.
HDQ NEUTRAL
Ref: 29 CFR 1910:1200 (OSHA)

NAME Thomas J. Mitchell
TITLE Director of Research
DATE November 13, 1992

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AMH INDUSTRIAL SUPPLY
P.O. BOX 240182 -- MILWAUKEE, WI 53224-9009
TEL: (414) 353-1234 - TOLL FREE: (888) 387-6464 -- FAX: (414) 358-3649
Email: indsales@amhinc2.com Website: www.amhinc2.com

EMERGENCY TELEPHONE NUMBER: Call CHEMTREC at 800-424-9300 for emergencies involving a spill, leak, fire, exposure, or accident.

********** SECTION 2 - PRODUCT IDENTIFICATION **********

Product Trade Name:	MAG™ TOTAL ICE CONTROL
Chemical Name:	Magnesium Chloride Hexahydrate Pellets
Synonyms:	
Chemical Family:	
CAS Number:	7786-30-3
Hazard Rating (HMIS/NFPA):	

HAZARDOUS COMPONENTS/CAS#	OSHA Pel	ACGIH TLV	Other Limit
None	None	None	None

PERSONAL PROTECTION:

********** SECTION 3 - INGREDIENTS **********

Chemical	Wt%	CAS No.	TLV (ACGIH)	PEL (OSHA)
Magnesium Chloride		7786-30-3	None	None

********** SECTION 4 - PHYSICAL DATA **********

MELTING POINT:	244°F
BOILING POINT:	320°F
EVAPORATION RATE:	NA
VAPOR PRESSURE:	NA
VAPOR DENSITY:	NA
SOLUBILITY IN WATER	Soluble in water and alcohol.
SPECIFIC GRAVITY:	1.6@77°F
APPEARANCE:	Off white pellets
ODOR:	Odorless

[redacted]
Effective Date: December 1, 1999

Product: MAG™ Total Ice Control Effective Date: December 1, 1999

********** SECTION 5 - FIRE & EXPLOSION HAZARD DATA **********

FLASH POINT:	None
FLAMMABLE LIMITS:	None
LEL:	NA
UEL:	NA
EXTINGUISHING MEDIA:	Non-Flammable
FIRE AND EXPLOSION HAZARDS:	None
SPECIAL FIRE FIGHTING PROCEDURES:	None, product can be used to smother fires

********** SECTION 6 - REACTIVITY DATA **********

CHEMICAL STABILITY:	Stable
CONDITIONS TO AVOID:	None
INCOMPATIBILITY:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	Releases hydrogen chloride vapors if heated over 300°F.
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Excessive exposure to air will lead to wetting & caking.

********** SECTION 7 - HEALTH HAZARD DATA **********

ROUTES OF ENTRY:	Inhalation, Ingestion
HEALTH HAZARD:	May cause slight irritation of eyes, skin & respiratory tract.
CARCINOGENICITY:	
NTP?	No
IARC Monographs?	No
OSHA Regulated?	No

SIGNS & SYMPTOMS of EXPOSURE:

Medical Conditions Generally Aggravated By Exposure: Inhalation may cause slight respiratory irritation. Ingestion can cause stomach discomfort. Very low oral toxicity [LD 50 (rat) approx. 8,100 mg/kg].

Emergency First Aid Procedures: INGESTION - If discomfort exists, induce vomiting. Call a doctor immediately if discomfort persists. INHALATION - Move to fresh air, administer oxygen if necessary. EYE CONTAMINATION - Wash eyes with plenty of water. Obtain medical attention if discomfort exists. SKIN CONTACT - Wash thoroughly with soapy water.

********** SECTION 8 - PRECAUTIONS FOR SAFE HANDLING & USE **********

If Released Or Spilled: Sweep up all dry material and place in a suitable container. Flush area with water. Major spills may be loaded with front end loader. Uncontaminated product may be reused.
Waste Disposal Method: Disposal must be made in accordance with local regulations for non-toxic non-hazardous waste.
Precautions To Be Taken In Handling & Storing: Keep previously opened containers tightly closed. Do not store where seepage might be a problem. Due to its hydroscopic nature, MAG readily absorbs moisture from the air and softens rapidly.
Other Precautions: None

********** SECTION 9 - CONTROL MEASURES **********

Respiratory: Not required - NIOSH approved mask
Ventilation: Not required
Protective Devices: Goggles
Work/Hygienic Practices: Gloves, goggles and disposable mask recommended if constantly handled.

D. P. Wigley Co.

MATERIAL SAFETY DATA SHEET

********** SECTION 1 - COMPANY INFORMATION **********

NAME: Standard Tar Products Co., Inc.

ADDRESS: 2456 West Cornell Street
Milwaukee, WI 53209-6294

TELEPHONE: 414/873-7650

EMERGENCY TELEPHONE NUMBER: 800/825-7650

********** SECTION 2 - PRODUCT IDENTIFICATION **********

Product Trade Name: N/A
Chemical Name: Calcium Chloride Flake
Synonyms: USOL® Calcium Chloride Flake
Chemical Family: Inorganic salt
Molecular Formula: $CACL_2$
CAS Number: None-mixture
Hazard Rating (HMIS/NFPA):
HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
PERSONAL PROTECTION: E

********** SECTION 3 - INGREDIENTS**********

Chemical	Wt%	CAS No.	TLV(ACGIH)	PEL(OSHA)
Calcium Chloride	77-79	010043-52-4	None established	
Sodium Chloride	1-2	007647-14-5	None established	
Potassium Chloride	2-3	007447-40-7	None established	
Strontium Chloride	1	010476-85-4	None established	
Water	Bal.	007732-18-5	None established	

********** SECTION 4 - PHYSICAL DATA **********

Melting point: Approximately 345° F (174° C)
Boiling Point: 347° F (175° C)
Vapor Pressure: 1.0 mm Hg. at 20° C (68° F)
Vapor Density: Not applicable
Solubility in Water: Very soluble
Specific Gravity: 1.85
Appearance: White to off-white solid flake
Odor: None
Evaporation Rate: N/A

********* SECTION 5 - FIRE AND EXPLOSION HAZARD DATA ********

Flash Point: Not applicable
Method Used: Not applicable

Flammable Limits:
LFL Not applicable
UFL Not applicable

Extinguishing Media: Non-combustible

Fire and Explosion Hazards: None

Fire-Fighting Equipment: Wear positive pressure self-contained breathing apparatus.

********** SECTION 6 - REACTIVITY DATA **********

Stability: (Conditions to Avoid) Decomposes at 349° F

Incompatibility: (Specific Materials to Avoid) Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and its alloys) and yellow brass will be attacked by calcium chloride. Product attracts moisture and gives off heat while dissolving.

Hazardous Decomposition Products: Not applicable

Hazardous Polymerization: Will not occur

***** SECTION 7 - ENVIRONMENTAL AND DISPOSAL INFORMATION ****

Action to take for spills/leaks: Losses incidental to correct application of this product in its intended uses are not expected to be harmful to the environment. Wear appropriate safety apparel during clean-up---see Section 8. Avoid entry of large amount of product into sewers, natural waters, and drinking water sources. Due to possible harmful effects, avoid contact with vegetation, animals and fish life. Recover quickly into suitable, dry, sealable containers if reusing. Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet longer due to moisture being held by spilled product--avoid by thoroughly water washing surfaces.

Disposal Method: Wash away with large excess of water or bury. Keep out of drinking water sources. Comply with local, state and federal regulations. Product as sold is not a RCRA listed or characteristic hazardous waste.

********** SECTION 8 - HEALTH HAZARD DATA **********

Primary Route of Entry: Skin contact

Eye: May cause moderate to severe eye irritation with corneal injury, which may be slow to heal.. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

Skin Contact: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure

may cause skin irritation, even a burn. May cause more severe response if skin is damp and/or abraded, or if material is confined to skin. When dissolving, the heat produced may cause more intense effects as well as thermal burns. DOT classification: Non-corrosive.

Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD_{50} for skin absorption in rabbits is >5000 mg/kg.

Ingestion: Single dose oral toxicity is low. The oral LD_{50} for rats is in the range of 900-2100 mg/Kg for calcium chloride on a 100% basis. Ingestion may cause gastrointestinal irritation or ulceration.

Inhalation: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract.

Systemic & other effects: Results of in vitro mutagenicity tests have been negative for Calcium Chloride. The components of this product are not listed by IARC, NTP or OSHA as carcinogens for hazard communication purposes.

********** SECTION 9 - FIRST AID **********

Eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

Skin: Wash off in flowing water or shower.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. (Never give anything by mouth or attempt to induce vomiting in an unconscious person.)

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Note to Physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reaction of the patient.

********** SECTION 10 - HANDLING PRECAUTIONS **********

Exposure Guidelines: Dow Chemical USA Industrial Hygiene standard is 10 mg/m^3 for calcium chloride, sodium chloride and potassium chloride. There is no OSHA PEL or ACGIH TLV for calcium chloride.

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Respiratory Protection: Atmospheric levels should be maintained blow the exposure guidelines. When respiratory

protection is required for certain operation, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

Skin Protection: For brief contact, no precautions other than clean body-covering clothing should be needed. Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, aprons, or full-body suit will depend on operation. If skin comes in contact with contaminated clothing, remove the clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

Eye Protection: Safety glasses should be sufficient for most operations; however, for dusty operations or when handling solutions of the material, wear chemical goggles. Eye wash fountain should be located in immediate work area.

********** SECTION 11 - ADDITIONAL INFORMATION **********

Regulatory Requirements: SARA HAZARDS CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: An Immediate Health Hazard (due to skin and eye effects)

Special Precautions to be taken in handling and storage: Avoid eye and prolonged skin contact. Always use cool water (temperature less than 80° F, 270 C) when dissolving calcium chloride. Heat developed by solution is very high during dissolving and mixing. When exposed to the atmosphere, calcium chloride will pick up water and form a solution. Leather clothing and shoes will be damaged by calcium chloride.

NOTICE: This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate, but there is no warranty, either expressed or implied, regarding its accuracy or completeness. Certain health and safety precautions given in this data sheet may not be adequate for all individuals and/or situations. It is the user's responsibility to use this product safely.

The conditions of storage, handling, use and disposal of the product are beyond our control. For this and other reasons, we do not assume any responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with the storage, handling, use or disposal of the product.

EFFECTIVE DATE: November 15, 1989

SUPERSEDES: October 16, 1985 msdscafk

Rock Salt

Connie @ AMH

Material Safety Data Sheet

An electronic version of this MSDS is available at the following web address:

http://www.compassminerals.com

Sodium chloride

Section 1. Product and Company Identification

Common Name	: **Sodium chloride**	Code	: Not available.
Supplier	: Compass Minerals Group 8300 College Boulevard Overland Park, KS 66210, USA	MSDS#	: Not available.
Synonyms	: Sodium chloride, Salt, Sea salt, Saline, Halite, Rock salt, Ice/Snow melter.	Preparation Date	: 10/30/2002.
Trade name	: Sodium chloride.	Print Date	: 10/30/2002.
Material Uses	: Deicing, general industrial and water softening/conditioning purposes.		
Manufacturer	: Canada: Sifto Canada, Inc. 6700 Century Ave., Suite 202 Mississauga, Ontario L5N 6A4, Canada United States: North American Salt Company 8300 College Boulevard Overland Park, KS 66210, USA (913) 344-9100	In Case of Emergency	: Canada: CANUTEC-1-613-996-6666 US: CHEMTREC-1-800-424-9300

Section 2. Composition, Information on Ingredients

Name	CAS #	Exposure Limits
Sodium chloride	7647-14-5	TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL. TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Section 3. Hazards Identification

Emergency Overview : White crystalline solid.
WARNING!
MAY CAUSE EYE IRRITATION.

Routes of Entry : Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes : Slightly hazardous in case of eye contact (irritant).

Skin : Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation : Slightly hazardous in case of inhalation (lung irritant).

Ingestion : Slightly hazardous in case of ingestion.

Potential Chronic Health Effects : Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated or prolonged exposure is not known to aggravate medical conditions.

Potential Environmental Effects : Maybe harmful to freshwater aquatic species and to plants that are not saline tolerant.

See Toxicological Information (section 11)

Continued on Next Page

Section 4. First Aid Measures

Eye Contact	: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Obtain medical attention if irritation persists.
Skin Contact	: Wash with soap and water. Obtain medical attention if irritation persists. Cold water may be used.
Inhalation	: If inhaled, move to fresh air. If not breathing, give artificial respiration. Obtain medical attention if irritation persists.
Ingestion	: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention.
Notes to Physician	: Not available

Section 5. Fire Fighting Measures

Flammability of the Product	: May be combustible at high temperature.
Autoignition Temperature	: Not available.
Flash Points	: Not available
Flammable Limits	: Not available.
Products of Combustion	: Decomposes when heated to temperatures above 801 degrees C, may release toxic fumes of chlorine and sodium oxides.
Fire Hazards In Presence of Various Substances	: Not available.
Explosion Hazards in Presence of Various Substances	: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	: Use extinguishing media suitable for surrounding materials.
Protective Clothing (Fire)	: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Special Remarks on Fire Hazards	: Not available.
Special Remarks on Explosion Hazards	: Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak	: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Handling	: Avoid breathing dust. Avoid contact with incompatibles.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection

Engineering Controls	: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	: Safety glasses.
Body	: Protective clothing may be worn in dusty area, but is generally not required.
Respiratory	: NIOSH approved filtering facepiece may be necessary.

Section 9. Physical and Chemical Properties

Physical State and Appearance	: White crystalline solid.
Color	: White.
Odor	: Odorless.
Molecular Weight	: 58.44 g/mole
Molecular Formula	: NaCl
pH (5% Soln/Water)	: 6 to 8 [Neutral.]

Continued on Next Page

Boiling/Condensation Point	: 1413°C (2575.4°F)
Melting/Freezing Point	: 800.9°C (1473.6°F)
Critical Temperature	: Not available.
Specific Gravity	: 2.165 (Water = 1)
Vapor Pressure	: 0.1 kPa (1 mmHg) (at 865°C)
Vapor Density	: Not applicable.
Volatility	: 0% (v/v), 0% (w/w).
Odor Threshold	: Not applicable.
Evaporation Rate	: Not applicable.
VOC	: 0 (%)
Viscosity	: Not applicable.
LogK$_{ow}$	: Not available.
Solubility	: Soluble in cold water, hot water. 36g/100g H_2O (20°C)

Section 10. Stability and Reactivity

Stability and Reactivity	: The product is stable.
Conditions of Instability	: Not applicable.
Incompatibility with Various Substances	: Reactive with oxidizing agents, acids, lithium, bromine trifluoride.
Hazardous Decomposition Products	: These products are chlorine, oxides of sodium.
Hazardous Polymerization	: Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	: Acute oral toxicity (LD50): 3000 mg/kg [Rat]. Acute toxicity of the dust (LC50): >2100 mg/m³ 4 hour(s) [Rat].
Chronic Effects on Humans	: Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. May cause damage to the following organs: upper respiratory tract, skin, eyes, stomach.
Other Toxic Effects on Humans	: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant)
Special Remarks on Toxicity to Animals	: Not available.
Special Remarks on Chronic Effects on Humans	: Not available.
Special Remarks on Other Toxic Effects on Humans	: Not available.

Section 12. Ecological Information

Ecotoxicity	: Maybe harmful to freshwater aquatic species and to plants that are not saline tolerant.
BOD and COD	: Not applicable.
Biodegradable/OECD	: Not applicable.
Mobility	: Not available.
Products of Degradation	: Not applicable
Toxicity of the Products of Biodegradation	: Not applicable.
Special Remarks	: Not applicable.

Section 13. Disposal Considerations

Waste Information	: Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations.
Waste Stream	: Not available.

Consult your local or regional authorities.

Continued on Next Page

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label
DOT Classification	Not applicable.	Not applicable.	Not a DOT controlled material (United States).	Not applicable.	
TDG Classification	Not applicable.	Not applicable.	Not a TDG controlled material.	Not applicable.	
ADR/RID Class	Not available	Not available.	Not available.	Not available.	
IMDG Class	Not available.	Not available.	Not available.	Not available.	
IATA-DGR Class	Not available.	Not available.	Not available.	Not available.	

Section 15. Regulatory Information

HCS Classification : Not controlled under the HCS (United States).

U.S. Federal Regulations : TSCA 8(b) inventory: Sodium chloride 7647-14-5

SARA 302/304/311/312 hazardous chemicals: Sodium chloride
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium chloride: Immediate (Acute) Health Hazard

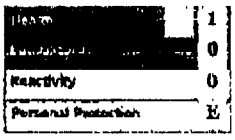
Not listed under CWA.
Not listed under CAA.
Not listed under CERCLA.

State Regulations : No products were found under New Jersey, New York and Pennsylvania RTK.
California Prop. 65: No ingredient was found.

Canadian Regulations : Not controlled under WHMIS (Canada).
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

References : Not available.

Other Special Considerations : Not available.

Date of printing : 10/30/2002.

Preparation Date : 10/30/2002.

Prepared by : Dell Tech Laboratories Ltd. (519) 658-5021

Notice to Reader

Continued on Next Page

DAIRYLAND GREYHOUND PARK

received
5/27/04

May 24, 2004

Peter Connelly
Analytical Environmental Services
2021 "N" Street, Suite 200
Sacramento, California 95814

Attention: Mr. Connelly

I have attached copies of the manifests from Safety Kleen for the disposal of waste motor oil and solvent for the parts cleaner. These are all the manifests that I have for 2002, 2003 and 2004. If I can be of any further help please call.

Dennis Kelly

cc: Bill Apgar

5522-104th Avenue ◆ KENOSHA, WISCONSIN 53144 ◆ PH. 262/657-8200 ◆ FAX 262/657-8231

Columbia, South Carolina 29201

CUSTOMER NO. 0000-2393-51

DUNS NO. 05-397-6551 FED. ID. NO. 396090019

CUSTOMER

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
262-549-3011	JIM FRAZIER	09/21/02	02-30	04	0021267289

GENERATOR

DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS
C	127.39	127.39

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0000	NO	0781	0001

LOCATION	TAX EXEMPTION NO.
510001	

SERVICE DATE	SALES REP. NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
7-22-02	5789		262-657-8200	50-150-3744	PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)(INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
1		0016000	17519863		1	120.75	6.64	127.39	0.00	09		1	704		12						
2		00100001		2.9000											0						
3																					
4																					
5																					
6																					
7																					
8																					
9																					
0																					
1																					
2																					

ASK ME ABOUT:
Mail–Back Sharps!
Mail–Back Mercury!
More Information? Yes / No
Call your local Safety-Kleen Office

TOTAL-SERVICE/PRODUCTS 120.75 6.64

CHECK APPROPRIATE BOXES →

	GOOD	POOR		YES	NO		YES	NO
MACHINE CONDITION & CLEANLINESS	✓		DECALS IN PLACE AND LEGIBLE	✓		MACHINE PROPERLY GROUNDED	✓	
LAMP ASSEMBLY CONDITION	✓		FUSIBLE LINK INSTALLED	✓		LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	✓	
			EMERGENCY CLOSING OF LID UNOBSTRUCTED	✓		SPENT SOLVENT MEETS ACCEPTANCE CRITERIA		

WID981097769 CESQG

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)

WASTE COMBUSTIBLE LIQUID, N.O.S. PETROLEUM NAPHTHA
NA1993 PGIII D001,D018,D039,D040 ERG#128 6.7LBS/GAL

12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
1	DM	9	G	704

516305

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.

0 TO 220 LBS./MONTH — INITIALS PSW
220 LBS. TO 2,200 LBS. /MONTH — INITIALS
GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS
2200 S WEST AVE
SAFETY-KLEEN SYSTEMS, INC.
WAUKESHA, WI 53189

USA EPA ID NO. WID981097769
STATE ID NO.

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIAL OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO →

XXXXX

LDR MESSAGE
LDR NOT REQ D

MANIFEST CODE	SEQ #
DP	136

IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS. "This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Print Customer Name

By: Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	127.39

DO NOT WRITE IN THE AREA BELOW

0021267289
0000-2393-51 -3

THIS AGREEMENT CONTINUES ON THE REVERSE SIDE

SERVICE AND SALES ACKNOWLEDGMENT
PART 1366 (Rev. 11/01)

1301 Gervais Street - Suite 300
Columbia, South Carolina 29201

DUNS NO. 05-397-6551 FED. ID NO. 396090019

CUSTOMER

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	CUSTOMER REFERENCE NUMBER
262-549-3011	JIM FRAZIER	06/29/02	02-18	04	0020648935

CUSTOMER NO. 0 0 0 0 - 2 3 9 3 - 5 1

CUSTOMER / CLEANER

DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0000	NO	0721	0001

LOCATION	TAX EXEMPTION NO.
510001	

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE		ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
6-30-02	328		262-657-8200	50-150-3744		PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)	(INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
1	001	6000	12519863		1	120.75	6.64	127.39	0.00	9	7	1	704		12							
2	001	00001		2.9000											2							
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
	TOTAL-SERVICE/PRODUCTS					120.75	6.64															

ASK ME ABOUT:
Mail–Back Sharps!
Mail–Back Mercury!
More Information? Yes / No
Call your local Safety-Kleen Office

CHECK APPROPRIATE BOXES →

	GOOD	POOR
MACHINE CONDITION & CLEANLINESS	✓	
LAMP ASSEMBLY CONDITION	✓	

	YES	NO
DECALS IN PLACE AND LEGIBLE	✓	
FUSIBLE LINK INSTALLED	✓	
EMERGENCY CLOSING OF LID UNOBSTRUCTED	✓	
MACHINE PROPERLY GROUNDED	✓	
LOCAL PHONE NO. STICKER AFFIXED TO MACHINE		
SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	✓	

WID981097769 CES06

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)

	12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
WASTE COMBUSTIBLE LIQUID, N.O.S. PETROLEUM NAPHTHA NA1993 PGIII D001,D018,D039,D040 ERG#128 6.7LBS/GAL	001	DM	00227	G	704

5163055

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.

0 TO 220 LBS./MONTH — INITIALS
220 LBS. TO 2,200 LBS./MONTH — INITIALS
GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS SAFETY-KLEEN SYSTEMS, INC.
2200 S WEST AVE WAUKESHA, WI 53189

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO. WID981097769
STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO →

XXXXX
LDR MESSAGE
LDR NOT REQ'D

MANIFEST CODE	SEQ.#
DP	173

IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

JAMES KLINEFELTER
Print Customer Name

By: _____
Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	

DO NOT WRITE IN THE AREA BELOW

0020648935
0000-2393-51 -3

SERVICE AND SALES ACKNOWLEDGMENT

1301 Gervais Street - Suite 300
Columbia, South Carolina 29201

CUSTOMER NO. 0000-2393-51

DUNS NO. 05-397-6551 FED. ID NO. 396090019

CUSTOMER

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
262-549-3011	JIM FRAZIER	04/06/02	02-06	05	0019963846

CREDIT CODE	PREVIOUS BALANCE	BAL OVER 60 DAYS

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0000	NO	0781	0001

LOCATION	TAX EXEMPTION NO.
510001	

CUSTOMER / GENERATOR
DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
2-4-02	5789		262-657-8200	50-150-3744	PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)(INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
1	0016000		17519863		1	120.75	6.64	127.39	0.00	10	10	1	704		12						
2	0100001			2.9800											0						
3																					
4																					
5																					
6																					
7																					
8																					
9																					
0																					
1																					
2																					

ASK ME ABOUT:
Mail–Back Sharps!
Mail–Back Mercury!
More Information? Yes / No
Call your local Safety-Kleen Office

TOTAL-SERVICE/PRODUCTS 120.75 6.64

CHECK APPROPRIATE BOXES →

	GOOD	POOR
MACHINE CONDITION & CLEANLINESS	✓	
LAMP ASSEMBLY CONDITION	✓	

	YES	NO
DECALS IN PLACE AND LEGIBLE	✓	
FUSIBLE LINK INSTALLED	✓	
EMERGENCY CLOSING OF LID UNOBSTRUCTED	✓	

	YES	NO
MACHINE PROPERLY GROUNDED	✓	
LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	✓	
SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	✓	

WID981097769 CES06

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)
WASTE COMBUSTIBLE LIQUID, N.O.S. PETROLEUM NAPHTHA
NA1993 PGIII D001,D018,D039,D040 ERG#128 6.7LBS/GAL

12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
1	DM	10	G	704

5163055 1

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES:
0 TO 220 LBS./MONTH — INITIALS
220 LBS. TO 2,200 LBS./MONTH — INITIALS
GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS
2200 S WEST AVE
SAFETY-KLEEN SYSTEMS, INC.
WAUKESHA, WI 53189

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO. WID981097769
STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO →

XXXXX

LDR MESSAGE
LDR NOT REQ D

MANIFEST CODE	SEQ #
DP	151

IN THE EVENT OF AN EMERGENCY CALL
1-800-468-1760 (24 hours)

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.
"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Print Customer Name

By: Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	127.39

DO NOT WRITE IN THE AREA BELOW

0019963846
0000-2393-51 -3

SERVICE AND SALES ACKNOWLEDGMENT

1301 Gervais Street - Suite 300
COLUMBIA, SOUTH CAROLINA 29201

OIL RECOVERY PLACEMENT FORM

8 9 1 9 6 0

FOR SERVICE CALL	BRANCH MANAGER	
262-549-3011	DAVE C WALL	P000973569

BILL TO: (IF DIFFERENT FROM LOCATION)

LOCATION: DAIRYLAND GREYHOUND PARK
5522 104th AVE
KENOSHA WI
53144

BILL TO IF DIFFERENT

NAME	TITLE	SIGN
1.		
2.		

LOCATION

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06			100	01

TERRITORY	CREDIT CODE	TAX EXEMPTION NO.

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
10-10-03	4840		262-612-8286						

	DEPT	SERVICE/ PRODUCT	SURVEY NUMBER	UNIT PRICE	QUANTITY	CHARGE	SALES TAX	TOTAL CHARGE	CHLORINE TEST RESULTS: HALOGEN TESTER PASS	FAIL	CHLOR-D-TECT RESULTS (PPM)	TESTERS INITIALS	SK DOT NUMBER	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)(INITIAL)	CHANGE SCH. DATE (YY WW)	PROMO NO.	RELEASE NO.
1		66661				75.60	—	75.60	X						52				
2																			
3																			
4																			
5																			

TOTAL-SERVICE/PRODUCTS

TANK CAPACITY

GENERATOR STATUS: CHECK ONLY ONE BOX BELOW

1 NO PREQUAL REQUIRED, NO HALOGEN TEST
2 NO PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP
3 PREQUAL REQUIRED, NO HALOGEN TEST
4 PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP
* REFER TO REVERSE SIDE FOR DEFINITIONS

X 1 ☐ 3 ☐ 2 ☐ 4

WID981097769

TRANSPORTER — DATE 10/10/03
PRINT NAME: DAVE SCHIEL — X [signature] SIGNATURE

FACILITY — DATE / /
PRINT NAME — X SIGNATURE

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)	12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
A. USED OIL (NOT USDOT HAZARDOUS MATERIAL)	1	TT	75	G	850
B. ~~USED ANTIFREEZE (NOT USEPA OR USDOT REGULATED)~~					~~1176~~
C. ~~USED OIL AND WATER MIXTURE (NOT USDOT HAZARDOUS MATERIAL)~~					~~12700~~
D.					

WE CARE

INTERMEDIATE FACILITY NAME AND ADDRESS
SAFETY-KLEEN SYSTEMS,
2200 S WEST AVE. WAUKESHA, WI. 53189

USA EPA ID NO. WID981097769
STATE ID NO.

CUSTOMER

PAYMENT RECEIVED SECTION

CASH ☐ | TOTAL RECEIVED | APPLY PAYMENT TO: ☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

CHECK NUMBER

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO

CREDIT CARD NO. — AMEX VISA MC — EXP. DATE

CUSTOMER REFERENCE

MANIFEST CODE — SEQ # 8 D

IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION.
Customer certifies that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the U.S. Environmental Protection Agency and the U.S. Department of Transportation.
ADDITIONAL TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS DOCUMENT ARE INCORPORATED HEREWITH MADE A PART HEREOF.
Print Name Shawn Wilkinson
X Shawn Wilkinson
GENERATOR/SHIPPER DESIGNATED REPRESENTATIVE SIGNATURE

TOTAL DUE 75.60

DO NOT WRITE IN THE AREA BELOW

P000973569

031054

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

1307 Gervais Street - Suite 300
Columbia, South Carolina 29201

CUSTOMER NO. 0000-2393-51

DUNS NO. 05-397-6551 FED. ID NO. 396090019

CUSTOMER

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
262-654-3011	DAVE C WALL	08/23/03	03-26	04	0023745500

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS
C	515.46	515.46

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0000	NO	0517	0130

LOCATION	TAX EXEMPTION NO.
510001	

CUSTOMER INFORMATION

DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE		ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
6-26-03	30193		262-657-8200	50-150-3744		PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS) (INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVE
1	001	6000	17519863		1	91.00	5.01	96.01	0.00	9	9	1	704		12						
2	001	00001			1										0						
3		00093																			
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
		TOTAL-SERVICE/PRODUCTS				91.00	5.01														

CHECK APPROPRIATE BOXES →

	GOOD	POOR		YES	NO		YES	NO
MACHINE CONDITION & CLEANLINESS	☐	☐	DECALS IN PLACE AND LEGIBLE	☐	☐	MACHINE PROPERLY GROUNDED	☐	☐
LAMP ASSEMBLY CONDITION	☐	☐	FUSIBLE LINK INSTALLED	☐	☐	LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	☐	☐
			EMERGENCY CLOSING OF LID UNOBSTRUCTED	☐	☐	SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	☐	☐

WID981097769 CESQG

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)

WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA)
NA1993 PGIII(D001,D018,D039,D040) (ERG 128) 6.7LBS/GAL

12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER	5163055
1	DM	9	G	704	9

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.

0 TO 220 LBS./MONTH — INITIALS
220 LBS. TO 2,200 LBS./MONTH — INITIALS
GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS
SAFETY-KLEEN SYSTEMS, INC.
2200 S WEST AVE WAUKESHA, WI 53189

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO. WID981097769
STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO. →

AMEX VISA MC EXP. DATE

CUSTOMER REFERENCE

MANIFEST NO.
XXXXX
LDR MESSAGE
LDR NOT REQ'D

MANIFEST CODE	SEQ #
DP	130

IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Print Customer Name

By: Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	96 ⁰⁰

DO NOT WRITE IN THE AREA BELOW

0023745500
0000-2393-51 -3

SERVICE AND SALES ACKNOWLEDGMENT

1301 Gervais Street - Suite 300
Columbia, South Carolina 29201

DUNS NO. 05-397-6551 FED. ID NO. 396090019

CUSTOMER

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
262-549-3011	JIM FRAZIER	03/08/03	03-02	04	0022532605

CUSTOMER NO. 0000-2393-51

CUSTOMER (INFORMATION):
DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO:
0000-4325-68
GREYHOUND LINES, INC.
350 N SAINT PAUL ST STE 300
DALLAS TX 75201-4285 50 1

CREDIT CODE	PREVIOUS BALANCE	BAL OVER 60 DAYS
C	254.78	254.78

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0974	NO	0781	0001

LOCATION	TAX EXEMPTION NO.
540001	

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE		ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
1-7-03	5281		262-657-8200	50-150-3744		PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS) (INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
1	0016000		17519863		1	120.75	6.64	127.39	0.00			1	704		12						
2	~~0016000~~			~~2.9000~~											0						
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
		TOTAL-SERVICE/PRODUCTS				120.75	6.64														

CHECK APPROPRIATE BOXES →

	GOOD	POOR		YES	NO		YES	NO
MACHINE CONDITION & CLEANLINESS	✓		DECALS IN PLACE AND LEGIBLE	✓		MACHINE PROPERLY GROUNDED	✓	
LAMP ASSEMBLY CONDITION	✓		FUSIBLE LINK INSTALLED	✓		LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	✓	
			EMERGENCY CLOSING OF LID UNOBSTRUCTED	✓		SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	✓	

WID981097769 CESQG

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)
WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA)
NA1993 PGIII(D001,D018,D039,D040) (ERG 128) 6.7LBS/GAL

12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER	5163055
1	DM	8	G	704	

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.
0 TO 220 LBS./MONTH — SDP INITIALS
220 LBS. TO 2,200 LBS./MONTH — INITIALS
GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS
SAFETY-KLEEN SYSTEMS, INC.
2200 S WEST AVE WAUKESHA, WI 53189

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO. WID981097769
STATE ID NO.

PAYMENT RECEIVED SELECTION
CASH ☐ TOTAL RECEIVED
CHECK NUMBER
APPLY PAYMENT TO: ☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO →
AUTHORIZATION NO. EXP. DATE
CUSTOMER REFERENCE

XXXXX
LDR MESSAGE
LDR NOT REQ'D

MANIFEST CODE	SEQ #
DP	131

IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.
"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Print Customer Name
By: Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	127.39

DO NOT WRITE IN THE AREA BELOW
0022532605
0000-2393-51 -3

SERVICE AND SALES ACKNOWLEDGMENT

Columbia, South Carolina 29201

CUSTOMER NO. 0000-2393-51

DUNS NO. 05-397-6551 FED. ID NO. 396090019

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
262-549-3011	JIM FRAZIER	05/31/03	03-14	04	0023137120

CUSTOMER LOCATION
DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO
0000-4325-68
GREYHOUND LINES INC
203 UNION AVE
ATTEN TERESA COLLINS
MEMPHIS TN 38103

CREDIT CODE	PREVIOUS BALANCE	BAL OVER 60 DAYS
C	254.78	254.78

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0974	NO	0781	0001

LOCATION	TAX EXEMPTION NO.
510001	

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE		ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
5-31-03	5281		262-657-8200	50-150-3744		PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS)	(INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSD GIVEN
1	0016000		17519863		1	120.75	6.64	127.39	0.00			1	704		12							
2	~~0016021~~			2.9000											0							
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

TOTAL-SERVICE/PRODUCTS 120.75 6.64

CHECK APPROPRIATE BOXES →

	GOOD	POOR		YES	NO		YES	NO
MACHINE CONDITION & CLEANLINESS	✓		DECALS IN PLACE AND LEGIBLE	✓		MACHINE PROPERLY GROUNDED	✓	
LAMP ASSEMBLY CONDITION	✓		FUSIBLE LINK INSTALLED	✓		LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	✓	
			EMERGENCY CLOSING OF LID UNOBSTRUCTED	✓		SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	✓	

WID981097769 CESQG

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)
WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA)
NA1993 PGIII(D001,D018,D039,D040) (ERG 128) 6.7LBS/GAL

12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
1	DM	8	G	704

5163055

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.
0 TO 220 LBS./MONTH ___ INITIALS
220 LBS. TO 2,200 LBS./MONTH ___ INITIALS
GREATER THAN 2,200 LBS./MONTH ___ INITIALS

DESIGNATED FACILITY NAME AND ADDRESS SAFETY-KLEEN SYSTEMS, INC.
2200 S WEST AVE WAUKESHA, WI 53189

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO. WID981097769
STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO →

CUSTOMER REFERENCE INFORMATION

MANIFEST NO. XXXXX
LDR MESSAGE LDR NOT REQ'D

MANIFEST CODE	SEQ #
DP	138

IN THE EVENT OF AN EMERGENCY CALL 1-800-468-1760 (24 hours)

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Paul Wayrauch
Print Customer Name
By: Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	127 39

DO NOT WRITE IN THE AREA BELOW
0023137120
0000-2393-51 -3

SERVICE AND SALES ACKNOWLEDGMENT

THIS AGREEMENT CONTINUES ON THE REVERSE SIDE

1301 Gervais Street - Suite 300
Columbia, South Carolina 29201

DUNS NO. 05-397-6551 FED. ID NO. 396090019

CUSTOMER

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
262-549-3011	DAVE C WALL	11/15/03	03-38	25	0024341276

CUSTOMER NO. 0000-2393-51

CUSTOMER (GENERATOR)
DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA WI 53144-7400

BILL TO

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS
C	388.07	388.07

BUSINESS TYPE	CHAIN	OUTER COUNTY	SVC. P/C	PROD. P/C
06	0000	NO	0517	0130

LOCATION	TAX EXEMPTION NO.
510001	

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE		ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
9.19.03	70493		262-657-8200	50-150-3744		PW		.055	.055	.055

	DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	REMARKS/ UNIT PRICE	QUAN.	CHARGE	SALES TAX	TOTAL CHARGE	WASTE MIN.	SOLVENT/DRUMS CLEAN	SPENT	# OF CONT.	SK DOT	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS) (INITIAL)	CHANGE SCH. DATE (YY WW)	INV. CODE	PROMO NO.	RELEASE NO.	MSDS GIVEN
1	000	6000	12519863		1	96.00	5.01	96.01	0.00	9	9	1	704		12						☐
2	000	00001			1	5.90	0.00	5.90	0.00						0						☐
3																					☐
4																					☐
5																					☐
6																					☐
7																					☐
8																					☐
9																					☐
10																					☐
11																					☐
12																					☐

TOTAL-SERVICE/PRODUCTS 96.90 5.01

CHECK APPROPRIATE BOXES →

	GOOD	POOR		YES	NO		YES	NO
MACHINE CONDITION & CLEANLINESS	☐	☐	DECALS IN PLACE AND LEGIBLE	☐	☐	MACHINE PROPERLY GROUNDED	☐	☐
LAMP ASSEMBLY CONDITION	☐	☐	FUSIBLE LINK INSTALLED	☐	☐	LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	☐	☐
			EMERGENCY CLOSING OF LID UNOBSTRUCTED	☐	☐	SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	☐	☐

WID981097769 CESQG

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)

	11. US DOT DESCRIPTION	12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER	5	6	3	0	5	5
A.	WASTE COMBUSTIBLE LIQUID, N.O.S. PETROLEUM NAPHTHA NA1993 PGIII D001,D018,D039,D040 ERG#128 6.7LBS/Gal	1	DM	9	G	704		9				
B.												
C.												
D.												

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES.

0 TO 220 LBS./MONTH — MM INITIALS

220 LBS. TO 2,200 LBS./MONTH — INITIALS

GREATER THAN 2,200 LBS./MONTH — INITIALS

DESIGNATED FACILITY NAME AND ADDRESS
SAFETY-KLEEN SYSTEMS, INC.
2200 S WEST AVE WAUKESHA, WI 53189

I CERTIFY THAT NO MATERIAL CHANGE HAS OCCURRED EITHER IN THE CHARACTERISTICS OF THE WASTE MATERIALS OR IN THE PROCESS GENERATING THE WASTE MATERIALS.

USA EPA ID NO. WID981097769
STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED	APPLY PAYMENT TO:
CHECK NUMBER		☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO. →

XXXXX
LDR MESSAGE
LDR NOT REQ'D

MANIFEST CODE	SEQ #
DP	N 394

IN THE EVENT OF AN EMERGENCY CALL
1-800-468-1760 (24 hours)

I AGREE TO PAY THE ABOVE CHARGES AND TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH ABOVE AND ON THE REVERSE SIDE OF THIS DOCUMENT. PLEASE CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. THE INDIVIDUAL SIGNING THIS DOCUMENT IS DULY AUTHORIZED TO SIGN AND BIND CUSTOMER TO ITS TERMS.

"This is to certify that the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

MARGE M.
Print Customer Name

By: Margo Messersmith
Customer's Authorized Representative

TOTAL CHARGE (FROM ABOVE)	
WASTE MIN. (FROM ABOVE)	
TOTAL DUE	

DO NOT WRITE IN THE AREA BELOW

0024341276
0000-2393-

SERVICE AND SALES ACKNOWLEDGMENT

Safety-Kleen Systems, Inc
5400 Legacy Drive
Plano, TX 75024

DUNS NO: 05-397-6551
FED ID NO: 39-6090019

ORIGINAL INVOICE

SK SERVICE FACILITY:	TAX STATUS/NUMBER	INVOICE DATE	Invoice Number
BR Waukesha		02/27/2004	0025683569
FACILITY PHONE NUMBER:	**VENDOR NUMBER:**	**TERMS:**	
262-549-3011		Net 30	

P2P 9
DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA, WI 53144-7400

SERVICE LOCATION

DAIRYLAND GREYHOUND PK
5522 104TH AVE
KENOSHA , WI 53144-7400

ACCOUNT NUMBER:	SERVICE NUMBER:	LOCATION NUMBER:	SPECIAL BILLING CODE:
0000239351	0000239351	510001	NS

Department: 00 **Department Name:**
Service Date: 02/26/2004 **Service Doc Number:** 0025683569 **PO Number:**
Release Number: **Transporter:** **Manifest Number:**

QUANTITY	DESC./REFERENCE NUMBER	PRICE PER	SALES TAX	ITEM TOTAL
1.000	TEMPORARY FUEL SURCHARGE 000100001-00-000000000-0000000	5.9000 EA	0.00	5.90
1.000	CIRCULATING CLEANER W/105 RECY 00001605[illegible]0000000	139.0000 EA	7.65	146.65
			INVOICE TOTAL	**$152.55**

WE CARE

Comments:

RECEIVED MAR 2 2 2004
APPROVED DEPT. MGR.
APPROVED G.M.
AMT APPROVED 152.55
FORWARD MAR 2 2 2004

6562

APPENDIX E

DATABASE REPORT

The EDR Radius Map
with GeoCheck®

Kenosha Site
5522 104th Avenue
Kenosha, WI 53144

Inquiry Number: 1168371.2s

April 08, 2004

EDR™ Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-SHA

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	16
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-13

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

5522 104TH AVENUE
KENOSHA, WI 53144

COORDINATES

Latitude (North):	42.586200 - 42˚ 35' 10.3"
Longitude (West):	87.939700 - 87˚ 56' 22.9"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	422892.2
UTM Y (Meters):	4715078.0
Elevation:	722 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	42087-E8 PLEASANT PRAIRIE, WI
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
5522 104TH AVE 5522 104TH AVE KENOSHA, WI 53144	AST	N/A
5522 104TH AVE 5522 104TH AVE KENOSHA, WI 53144	UST	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL	Proposed National Priority List Sites
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRIS-TSD	Resource Conservation and Recovery Information System
RCRIS-LQG	Resource Conservation and Recovery Information System
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

SHWS	Hazard Ranking List
SWF/LF	List of Licensed Landfills
INDIAN UST	Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS	Hazardous Materials Information Reporting System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
DOD	Department of Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
INDIAN RESERV	Indian Reservations
RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

WI Spills	Spills Database
WI WDS	Registry of Waste Disposal Sites
BRRTS	Bureau of Remediation & Redevelopment Tracking System
CRS	Closed Remediation Sites
AGSPILLS	Agricultural Spill Cases
WI ERP	Environmental Repair Program Database
WI WRRSER	Wisconsin Remedial Response Site Evaluation Report

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas	Former Manufactured Gas (Coal Gas) Sites

BROWNFIELDS DATABASES

US BROWNFIELDS	A Listing of Brownfields Sites

EXECUTIVE SUMMARY

BEAP..... Brownfields Environmental Assessment Program
INST CONTROL..... Deed Restriction at Closeout Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 03/09/2004 has revealed that there are 2 RCRIS-SQG sites within approximately 0.75 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SCHREIBER FOODS INC	***9894 52ND ST***	***1/2 - 1 WNW***	***B5***	***8***
WROUGHT WASHER MFG INC	9800 55TH ST	1/2 - 1 E	11	12

STATE ASTM STANDARD

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resource's LUST Database.

A review of the LUST list, as provided by EDR, and dated 01/15/2004 has revealed that there are 2 LUST sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
HARVEY PROPERTY	***9717 60TH ST***	***1/2 - 1 ESE***	***12***	***12***
KENOSHA BEEF INTERNATIONAL	6300 120TH AVE	1/2 - 1 SW	13	13

EXECUTIVE SUMMARY

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Commerces' List: All Underground Storage Tanks Except for Fuel Oil.

A review of the UST list, as provided by EDR, and dated 01/09/2004 has revealed that there are 7 UST sites within approximately 0.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	9820 52ND ST & HWY 158	1/2 - 1 E	C9	10
Not reported	9820 52ND ST & HWY 158	1/2 - 1 E	C10	11

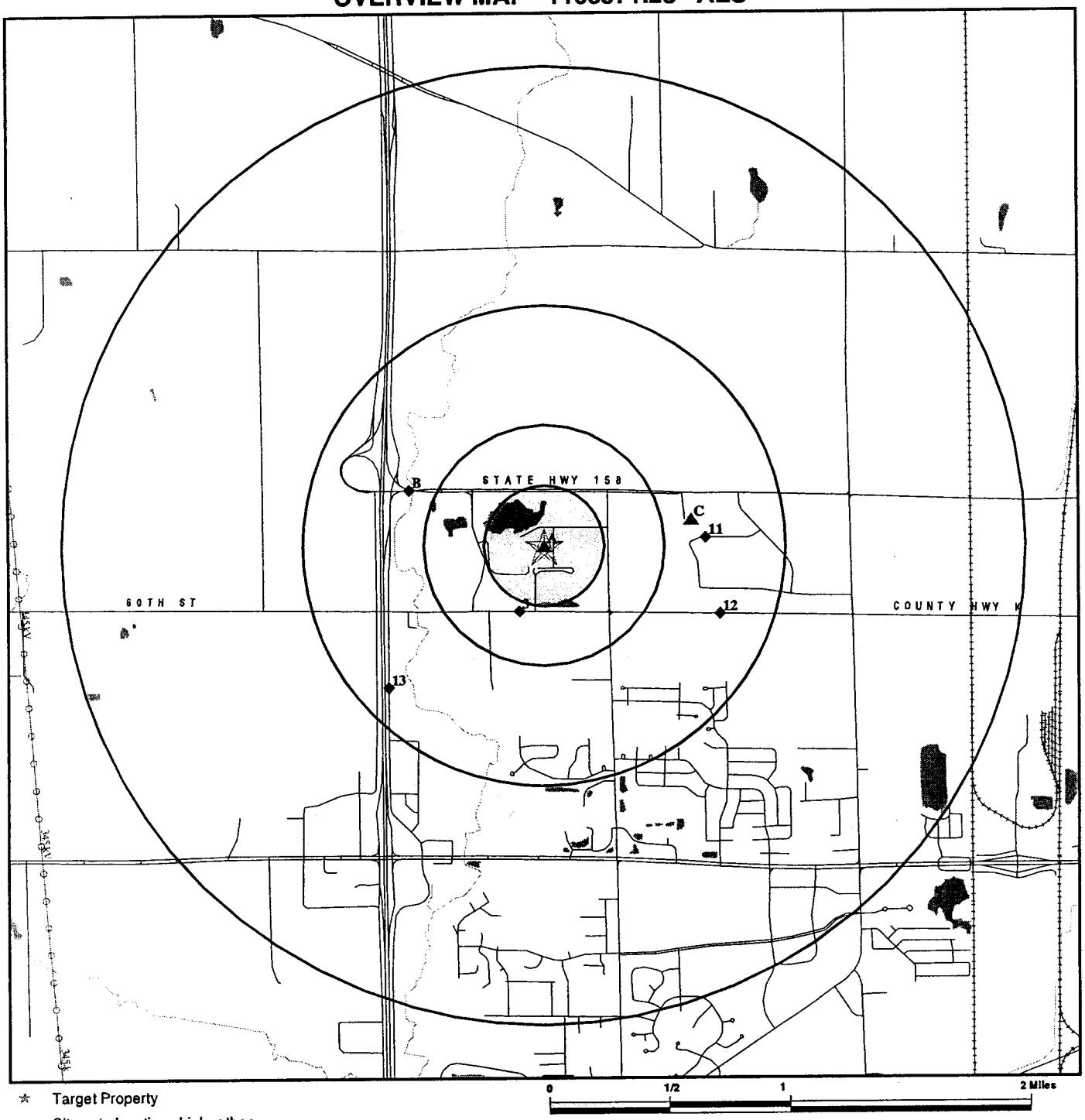
Lower Elevation	Address	Dist / Dir	Map ID	Page
Not reported	11127 60TH ST	1/4 - 1/2 SSW	3	7
Not reported	9500 52ND ST	1/2 - 1 WNW	B4	7
Not reported	9894 52ND AVE	1/2 - 1 WNW	B6	8
Not reported	9940 52ND ST	1/2 - 1 WNW	B7	9
Not reported	9962 52ND ST	1/2 - 1 WNW	B8	9

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
EXPRESS PRINTING	RCRIS-SQG, FINDS, UST, LUST, CRS
SHELL SERVICE STATION	RCRIS-SQG, FINDS, LUST
EMMET TOWN OF GARAGE	RCRIS-SQG, FINDS, LUST, WI Spills
ACA MGMT SERV AMOCO	LUST
USWCOM HUMPTULIPS CO	RCRIS-SQG, FINDS, WI WRRSER, LUST
STAR BAR RESTAURANT	LUST
OSILIUS PROPERTY (FORMER)	LUST
KENOSHA, CITY OF #6	WI WRRSER, LUST
KENOSHA HANGER	WI WRRSER, LUST
KENOSHA AIRPORT	WI WRRSER, LUST
AMOCO STATION #2214	LUST, WI Spills
SPEEDWAY STATION	WI WRRSER, LUST, WI Spills
AMOCO OIL CO PARIS	LUST
WATER WORKS AND LIGHTING COMM	RCRIS-SQG, FINDS
KENOSHA UNIF SCH DIST 1 GRANT	RCRIS-SQG, FINDS
VERIZON NORTH INC PORTAGE GAR	RCRIS-SQG, FINDS, BRRTS
KENOSHA HARBOR	ERNS
NEW KENOSHA MARINA	WI Spills
KENOSHA CTY - CENTRAL AREA	WI Spills
KENOSHA HARBOR ENTRANCE	WI Spills
KENOSHA HARBOR	WI Spills
S SIDE OF KENOSHA HARBOR	WI Spills
1000 YDS OFFSHORE - KENOSHA HARBOR	WI Spills
US OIL CO. - KENOSHA TRUCK STOP	WI WRRSER
STRAWBERRY CREEK OF KENOSHA	BRRTS
STRAWBERRY CREEK OF KENOSHA	BRRTS
STRAWBERRY CREEK OF KENOSHA	BRRTS
STRAWBERRY CREEK OF KENOSHA	BRRTS
STRAWBERRY CREEK OF KENOSHA	BRRTS
CHRYSLER MP 12 (FORMER)	WI ERP
OUTOKUMPU WASTEWATER TREATMENT PLT-SITE	WI ERP
STONE CREEK SUBDIVISION - PROPOSED	WI ERP
CITY OF KENOSHA ROW N OF 2301 N ROOSEVEL	WI ERP
RAILROAD R-O-W W OF 10TH AVE @ 47TH ST	WI ERP
BRAT STOP RESTAURANT	WI ERP
KENOSHA TRUCK STOP	CRS

OVERVIEW MAP - 1168371.2s - AES



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines

TARGET PROPERTY:	Kenosha Site	CUSTOMER:	AES
ADDRESS:	5522 104th Avenue	CONTACT:	Pete Connelly
CITY/STATE/ZIP:	Kenosha WI 53144	INQUIRY #:	1168371.2s
LAT/LONG:	42.5862 / 87.9397	DATE:	April 08, 2004 8:31 pm

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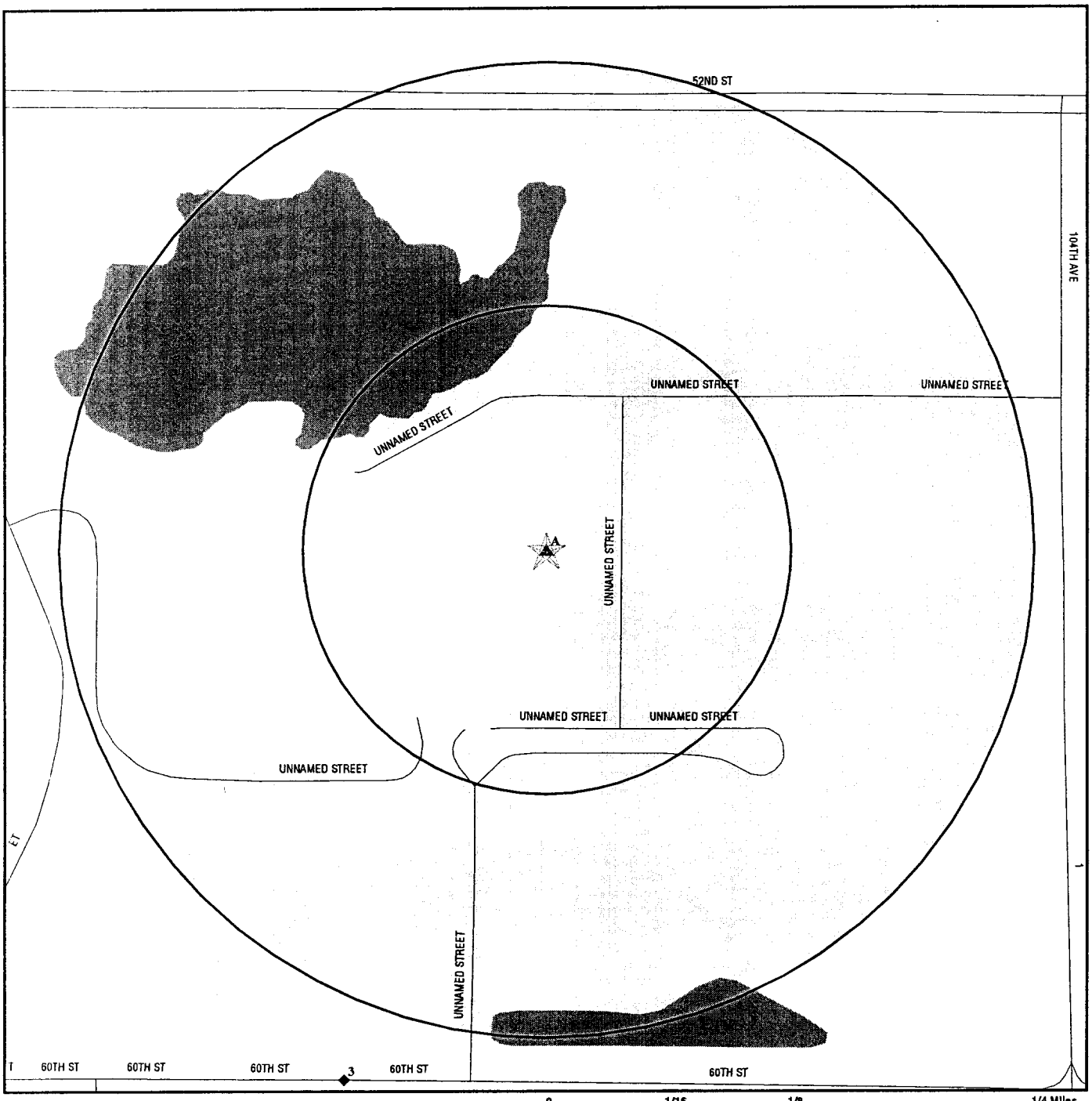
DETAIL MAP - 1168371.2s - AES



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines

TARGET PROPERTY:	Kenosha Site	CUSTOMER:	AES
ADDRESS:	5522 104th Avenue	CONTACT:	Pete Connelly
CITY/STATE/ZIP:	Kenosha WI 53144	INQUIRY #:	1168371.2s
LAT/LONG:	42.5862 / 87.9397	DATE:	April 08, 2004 8:31 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1.500	0	0	0	0	0	0
Proposed NPL		1.500	0	0	0	0	0	0
CERCLIS		1.000	0	0	0	0	NR	0
CERC-NFRAP		0.750	0	0	0	0	NR	0
CORRACTS		1.500	0	0	0	0	0	0
RCRIS-TSD		1.000	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.750	0	0	0	0	NR	0
RCRIS Sm. Quan. Gen.		0.750	0	0	0	2	NR	2
ERNS		0.500	0	0	0	NR	NR	0
STATE ASTM STANDARD								
State Haz. Waste		1.500	0	0	0	0	0	0
State Landfill		1.000	0	0	0	0	NR	0
LUST		1.000	0	0	0	2	NR	2
UST	X	0.750	0	0	1	6	NR	7
INDIAN UST		0.750	0	0	0	0	NR	0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST	X	TP	NR	NR	NR	NR	NR	0
WI Spills		TP	NR	NR	NR	NR	NR	0
WI WDS		0.500	0	0	0	NR	NR	0
BRRTS		TP	NR	NR	NR	NR	NR	0
CRS		TP	NR	NR	NR	NR	NR	0
AGSPILLS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WI ERP		0.500	0	0	0	NR	NR	0
WI WRRSER		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
BEAP		0.500	0	0	0	NR	NR	0
INST CONTROL		0.250	0	0	NR	NR	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1 **AST** **U003469220**
Target Property **5522 104TH AVE** **N/A**
KENOSHA, WI 53144

Site 1 of 2 in cluster A

Actual: 722 ft.

AST:

Facility ID:	151489
Site Municipality:	KENOSHA
Town Customer ID:	513194
Owner:	DAIRYLAND GREYHOUND PARK
Owner Address:	5522 104TH AVE KENOSHA, WI 53140
Owner PO Box:	Not reported
Federally Regulated:	Not reported
Object Type:	AST
Tank Size (gal):	500
Tank Contents:	Diesel
Tank Occupancy:	Mercantile/Commercial
Tank Market:	No
Tank Reg Object ID:	205584
Tank Wang Object ID:	300200059
Tank Status :	In Use
Tank Status Date:	Not reported
Facility County Code:	30
Fire Dept ID:	Kenosha
Land Owner Type:	Private

A2 **UST** **U003719119**
Target Property **5522 104TH AVE** **N/A**
KENOSHA, WI 53144

Site 2 of 2 in cluster A

Actual: 722 ft.

UST:

Facility ID:	151489
Tank Status:	In Use
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	DAIRYLAND GREYHOUND PARK
Owner Address:	5522 104TH AVE KENOSHA, WI 53140
Owner PO Box:	Not reported
Town Cust ID:	513194
Object ID:	646834
Object Type:	UST
Tank Size (gal):	1000
Tank Contents:	Diesel
Tank Occupancy:	Back -Up Generator
Tank Market:	No
Tank Wang Object ID:	Not reported
Tank Status Date:	Not reported
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

(Continued) U003719119

3
SSW
1/4-1/2
1535 ft.

11127 60TH ST
KENOSHA, WI 53142

UST **U003813204**
N/A

Relative:
Lower

Actual:
708 ft.

UST:

Facility ID:	126301
Tank Status:	In Use
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	No
Owner:	ROBERT W QUARDOKUS
Owner Address:	11127 60TH ST PLEASANT PRAIRIE, WI 53142
Owner PO Box:	Not reported
Town Cust ID:	362233
Object ID:	405101
Object Type:	UST
Tank Size (gal):	1000
Tank Contents:	Fuel Oil
Tank Occupancy:	Residential
Tank Market:	No
Tank Wang Object ID:	300400070
Tank Status Date:	Not reported
Fire Dept ID:	Pleasant Prairie
Land Owner Type:	Private
Facility county code:	30

B4
WNW
1/2-1
3199 ft.

9500 52ND ST
KENOSHA, WI 53144

UST **U003747771**
N/A

Site 1 of 5 in cluster B

Relative:
Lower

Actual:
689 ft.

UST:

Facility ID:	173973
Tank Status:	Closed/Removed
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	NORTHERN AIRMOTIVE - SUE SODERSTROM
Owner Address:	PO BOX 656 KENOSHA, WI 53144
Owner PO Box:	Not reported
Town Cust ID:	370622
Object ID:	403902
Object Type:	UST
Tank Size (gal):	12000
Tank Contents:	Aviation Fuel
Tank Occupancy:	Other
Tank Market:	No
Tank Wang Object ID:	300200001
Tank Status Date:	07/22/1996
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

(Continued) **U003747771**

Facility ID:	173973
Tank Status:	Closed/Removed
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	MITCH BASHAM
Owner Address:	9500 52ND ST KENOSHA, WI 53144
Owner PO Box:	Not reported
Town Cust ID:	918834
Object ID:	403976
Object Type:	UST
Tank Size (gal):	13000
Tank Contents:	Leaded Gasoline
Tank Occupancy:	Mercantile/Commercial
Tank Market:	No
Tank Wang Object ID:	300200106
Tank Status Date:	05/01/1995
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

B5 **SCHREIBER FOODS INC** **RCRIS-SQG** **1001230356**
WNW **9894 52ND ST** **FINDS** **WIR000036301**
1/2-1 **KENOSHA, WI 53144**
3257 ft.

Site 2 of 5 in cluster B

Relative: Lower

Actual: 688 ft.

RCRIS:

Owner:	NORTH AMERICAN JET INC (414) 605-0474
EPA ID:	WIR000036301
Contact:	STEVEN KLINEMAN (414) 605-0474
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

B6 **UST** **U003474712**
WNW **9894 52ND AVE** **N/A**
1/2-1 **KENOSHA, WI 53140**
3257 ft.

Site 3 of 5 in cluster B

Relative: Lower

Actual: 688 ft.

UST:

Facility ID:	508239
Tank Status:	In Use
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	NORTH AMERICAN JET INC

(Continued) **U003474712**

Owner Address:	1011 SOUTH WOLF RD WHEELING, IL 60090
Owner PO Box:	Not reported
Town Cust ID:	654799
Object ID:	445131
Object Type:	UST
Tank Size (gal):	12000
Tank Contents:	Aviation Fuel
Tank Occupancy:	Gas/Retail Sales
Tank Market:	Yes
Tank Wang Object ID:	Not reported
Tank Status Date:	Not reported
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

B7 **UST** **U002204008**
WNW **9940 52ND ST** **N/A**
1/2-1 **KENOSHA, WI 53142**
3264 ft.

Site 4 of 5 in cluster B

Relative:
Lower

Actual:
688 ft.

UST:

Facility ID:	64397
Tank Status:	In Use
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	COMMERCIAL PLASTICS CO - FRANK ALLSEITS
Owner Address:	800 E ALLANSON RD MUNDELEIN, IL 60060
Owner PO Box:	Not reported
Town Cust ID:	307878
Object ID:	404771
Object Type:	UST
Tank Size (gal):	10000
Tank Contents:	Kerosene
Tank Occupancy:	Other
Tank Market:	No
Tank Wang Object ID:	300201021
Tank Status Date:	Not reported
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

B8 **UST** **U003747785**
WNW **9962 52ND ST** **N/A**
1/2-1 **KENOSHA, WI 53144**
3265 ft.

Site 5 of 5 in cluster B

Relative:
Lower

Actual:
688 ft.

UST:

Facility ID:	185305
Tank Status:	In Use
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	ZENO AIR INC

(Continued) **U003747785**

Owner Address:	9962 52ND ST KENOSHA, WI 53144
Owner PO Box:	Not reported
Town Cust ID:	824554
Object ID:	754656
Object Type:	UST
Tank Size (gal):	20000
Tank Contents:	Aviation Fuel
Tank Occupancy:	Mercantile/Commercial
Tank Market:	No
Tank Wang Object ID:	Not reported
Tank Status Date:	Not reported
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

Facility ID:	185305
Tank Status:	In Use
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	ZENO AIR INC
Owner Address:	9962 52ND ST KENOSHA, WI 53144
Owner PO Box:	Not reported
Town Cust ID:	824554
Object ID:	758144
Object Type:	UST
Tank Size (gal):	20000
Tank Contents:	Aviation Fuel
Tank Occupancy:	Mercantile/Commercial
Tank Market:	No
Tank Wang Object ID:	Not reported
Tank Status Date:	Not reported
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

C9 **UST** **U003573877**
East **9820 52ND ST & HWY 158** **N/A**
1/2-1 **KENOSHA, WI 53142**
3274 ft.

Site 1 of 2 in cluster C

Relative:
Equal

Actual:
722 ft.

UST:

Facility ID:	65492
Tank Status:	Closed/Removed
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	FIRST WISCONSIN BANK RACINE
Owner Address:	PO BOX 081008 53408 RACINE, WI 53408
Owner PO Box:	Not reported
Town Cust ID:	306823
Object ID:	404012
Object Type:	UST
Tank Size (gal):	12000
Tank Contents:	Aviation Fuel

(Continued) **U003573877**

Tank Occupancy:	Other
Tank Market:	No
Tank Wang Object ID:	300200146
Tank Status Date:	11/21/1991
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

C10 **UST** **U003573878**
East **9820 52ND ST & HWY 158** **N/A**
1/2-1 **KENOSHA, WI 53144**
3274 ft.

Site 2 of 2 in cluster C

Relative:
Equal

Actual:
722 ft.

UST:

Facility ID:	65493
Tank Status:	Closed/Removed
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	FIRST WISCONSIN BANK RACINE
Owner Address:	PO BOX 081008 53408 RACINE, WI 53408
Owner PO Box:	Not reported
Town Cust ID:	306823
Object ID:	404646
Object Type:	UST
Tank Size (gal):	15000
Tank Contents:	Aviation Fuel
Tank Occupancy:	Other
Tank Market:	No
Tank Wang Object ID:	300200888
Tank Status Date:	11/20/1991
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

Facility ID:	65493
Tank Status:	Closed/Removed
Municipality Name:	KENOSHA
Site Municipality:	C
Federally Regulated:	Yes
Owner:	FIRST WISCONSIN BANK RACINE
Owner Address:	PO BOX 081008 53408 RACINE, WI 53408
Owner PO Box:	Not reported
Town Cust ID:	306823
Object ID:	404647
Object Type:	UST
Tank Size (gal):	275
Tank Contents:	Waste/Used Motor Oil
Tank Occupancy:	Other
Tank Market:	No
Tank Wang Object ID:	300200889
Tank Status Date:	11/21/1991
Fire Dept ID:	Kenosha
Land Owner Type:	Private
Facility county code:	30

(Continued) **U003573878**

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11 East 1/2-1 3539 ft. **WROUGHT WASHER MFG INC** **RCRIS-SQG** **1007119617**
9800 55TH ST **WIR000116293**
KENOSHA, WI 53144

Relative: Lower

Actual: 715 ft.

RCRIS:
Owner: MARTIN PETERSEN CO INC
(262) 658-1326
EPA ID: WIR000116293
Contact: MARK O'CONNELL
(262) 658-1326
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

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12 ESE 1/2-1 4136 ft. **HARVEY PROPERTY** **WI WRRSER** **S100332061**
9717 60TH ST **LUST** **N/A**
KENOSHA, WI

Relative: Lower

Actual: 719 ft.

LUST:
Eligible for PECFA Funds: Not reported
Co-contamination at Site: Not reported
Assigned Risk Value: 4
Priority: UNKNOWN
FID 230127150
Activity Name: HARVEY PROPERTY
Activity Type: LUST
Activity Number: 03-30-001840
Lat/Long Accuracy Not reported
Lat/Long: Not reported
1/4 Section: Not reported 1/4 1/4 Section: Not reported
Survey Section: 0
Survey Township: 0 Survey Range: Not reported
Lat/Long Datum : Not reported
Lat/Long Method : Not reported
File Location: missing not in sturtevant
Archived: Not reported
Open/Closed : OPEN
Start Date : 08/13/1991
End Date : Not reported
Open/Closed : OPEN
Region : Southeast Region
AST at Site: Not reported
Tracked By Commerce Database: Not reported
Dep Comm Jurisdiction: No
Facility Acres : Not reported
Comments : Not reported
Substance:
Description: Other
Status: OPEN
Comments : X
Impact:
Description: Soil Contamination
Status: OPEN

HARVEY PROPERTY (Continued) **S100332061**

Comments : Not reported
Action:
Action Date: 10/04/2002
Facility Status: OPEN
Action Desc: Miscellaneous action. Please see action comments.
Action Comment: Not reported
Action Date: 08/13/1991
Facility Status: OPEN
Action Desc: Date the DNR is notified of the discovery of the contamination.
Action Comment: Not reported
Action Date: 10/25/1991
Facility Status: OPEN
Action Desc: Date of letter to RP notifying of legal responsibilities associated with the discovery of contamination.
Action Comment: Not reported
Contact:
Status: OPEN
Role: Project Manager
Facility Contact: LAUBE, SHANNA
Not reported
Contact Address : 9531 RAYNE ROAD
STURTEVANT, WI 53177
Action Name 1
Status 1 : Not reported
Action Name 1 : Not reported
Action Name 2
Status 2 : Not reported
Action Name 2 : Not reported
Action Desc 2 : Not reported

WRRSER:
Route of Concern: Not reported
Repair Action: Not reported
Added to Inventory: Not reported
Added to HRS List: Not reported
Scoring System: Not reported
Begin Date: 08/13/91
Site Priority: MEDIUM

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13 SW 1/2-1 4623 ft. **KENOSHA BEEF INTERNATIONAL** **LUST** **S102850477**
6300 120TH AVE **N/A**
BRISTOL TN, WI

Relative: Lower

Actual: 711 ft.

LUST:
Eligible for PECFA Funds: Yes
Co-contamination at Site: Not reported
Assigned Risk Value: 3
Priority: LOW
FID 230177750
Activity Name: KENOSHA BEEF INTERNATIONAL
Activity Type: LUST
Activity Number: 03-30-150530
Lat/Long Accuracy Not reported
Lat/Long: Not reported
1/4 Section: Not reported 1/4 1/4 Section: Not reported
Survey Section: Not reported
Survey Township: Not reported Survey Range: Not reported
Lat/Long Datum : Not reported

KENOSHA BEEF INTERNATIONAL (Continued) **S102850477**

Lat/Long Method : Not reported
File Location: dcom
Archived: Not reported
Open/Closed : CLOSED
Start Date : 09/08/1990
End Date : 10/01/1997
Open/Closed : CLOSED
Region : Southeast Region
AST at Site: No
Tracked By Commerce Database:Yes
Dep Comm Jurisdiction: Yes
Facility Acres : Not reported
Comments : Not reported
Substance:
Description: Diesel
Status: CLOSED
Comments : 10K
Impact:
Description: Soil Contamination
Status: CLOSED
Comments : Not reported
Action:
Action Date: 06/09/1997
Facility Status: CLOSED
Action Desc: Date that project management for the activity is transferred to Department of Commerce. Includes transfer of site files.
Action Comment: Not reported
Action Date: 11/15/1990
Facility Status: CLOSED
Action Desc: Date report received by DNR. Assessment of UST/AST system at time of tank closure or change in service, or to determine if there is contamination.
Action Comment: Not reported
Action Date: 10/01/1997
Facility Status: CLOSED
Action Desc: Date the Closure Letter or No Further Action letter is sent. NOTE: This is the ONLY action code that will close an activity.
Action Comment: *** NR726 Closure from Commerce Data Interchange ***
Action Date: 09/08/1990
Facility Status: CLOSED
Action Desc: Date the DNR is notified of the discovery of the contamination.
Action Comment: Not reported
Contact:
Status: CLOSED
Role: Responsible Party
Facility Contact: KENOSHA BEEF INTL
BOX 639
Contact Address : KENOSHA, WI 53141
Status: CLOSED
Role: Consultant
Facility Contact: ADVENT ENVIRONMENTAL SERVICES
Not reported
Contact Address : PO BOX 277
MEQUON, WI 53092
Action Name 1
Status 1 : Not reported
Action Name 1 : Not reported
Action Name 2

KENOSHA BEEF INTERNATIONAL (Continued) **S102850477**

Status 2 : Not reported
Action Name 2 : Not reported
Action Desc 2 : Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KENOSHA	S102356251	CHRYSLER MP 12 (FORMER)	26TH AVE / 63RD ST NWC		WI ERP
KENOSHA	1005445626	WATER WORKS AND LIGHTING COMM	8020 HWY 31	53142	RCRIS-SQG, FINDS
KENOSHA	1000664155	EXPRESS PRINTING	9420 W 52ND ST	53144	RCRIS-SQG, FINDS, UST, LUST, CRS
KENOSHA	S105017947	NEW KENOSHA MARINA	57TH / 1ST AVE		WI Spills
KENOSHA	S105015246	OUTOKUMPU WASTEWATER TREATMENT PLT-SITE	65TH ST, S OF		WI ERP
KENOSHA	1000288267	SHELL SERVICE STATION	7505-120TH AVENUE	53142	RCRIS-SQG, FINDS, LUST
KENOSHA	S100673488	US OIL CO. - KENOSHA TRUCK STOP	9017 120TH AVE (HWY C / I 94)		WI WRRSER
KENOSHA	1000342270	KENOSHA UNIF SCH DIST 1 GRANT	1716 35TH AVE	53142	RCRIS-SQG, FINDS
KENOSHA	1000663986	EMMET TOWN OF GARAGE	9017 120TH AVE	53142	RCRIS-SQG, FINDS, LUST, WI Spills
KENOSHA	S104397172	ACA MGMT SERV AMOCO	10477 120TH AVE	53142	LUST
KENOSHA	1000813290	USWCOM HUMPTULIPS CO	1111 120TH AVE	53144	RCRIS-SQG, FINDS, WI WRRSER, LUST
KENOSHA	S103228803	STAR BAR RESTAURANT	2616 120TH AVE	53144	LUST
KENOSHA	S105704094	STONE CREEK SUBDIVISION - PROPOSED	3312-3400 47TH AVE	53144	WI ERP
KENOSHA	S105020360	KENOSHA CTY - CENTRAL AREA	KENOSHA CTY - CENTRAL AREA		WI Spills
KENOSHA	S106113789	CITY OF KENOSHA ROW N OF 2301 N ROOSEVEL	KENOSHA N OF 2301 N ROOSEVELT		WI ERP
KENOSHA	2002620994	KENOSHA HARBOR	KENOSHA HARBOR		ERNS
KENOSHA	S103337123	KENOSHA HARBOR ENTRANCE	KENOSHA HARBOR ENTRANCE		WI Spills
KENOSHA	S103337128	KENOSHA HARBOR	KENOSHA HARBOR		WI Spills
KENOSHA	S100671315	OSILIUS PROPERTY (FORMER)	17101 HWY KR		LUST
KENOSHA	S101132099	KENOSHA, CITY OF #6	101 51ST PL		WI WRRSER, LUST
KENOSHA	S105990481	RAILROAD R-O-W W OF 10TH AVE @ 47TH ST	R-O-W W OF 10TH AVE @ 47TH ST		WI ERP
KENOSHA	S103337214	S SIDE OF KENOSHA HARBOR	S SIDE OF KENOSHA HARBOR		WI Spills
KENOSHA	S106195403	STRAWBERRY CREEK OF KENOSHA	14800 75TH ST		BRRTS
KENOSHA	S106195402	STRAWBERRY CREEK OF KENOSHA	14800 75TH ST		BRRTS
KENOSHA	S106195401	STRAWBERRY CREEK OF KENOSHA	14800 75TH ST		BRRTS
KENOSHA	S106195400	STRAWBERRY CREEK OF KENOSHA	14800 75TH ST		BRRTS
KENOSHA	S106195399	STRAWBERRY CREEK OF KENOSHA	14800 75TH ST		BRRTS
KENOSHA	S101271195	KENOSHA HANGER	9612 52ND ST	53144	WI WRRSER, LUST
KENOSHA	S100332449	KENOSHA AIRPORT	9820 52ND ST	53144	WI WRRSER, LUST
KENOSHA	1001121773	VERIZON NORTH INC PORTAGE GAR	9500 52ND ST	53144	RCRIS-SQG, FINDS, BRRTS
KENOSHA	S100674988	AMOCO STATION #2214	12200 75TH ST	53142	LUST, WI Spills
KENOSHA	S101392717	SPEEDWAY STATION	12221 75TH ST	53142	WI WRRSER, LUST, WI Spills
KENOSHA	S102354563	BRAT STOP RESTAURANT	12304 75TH ST	53142	WI ERP
KENOSHA	S106076763	KENOSHA TRUCK STOP	9017 120TH STREET		CRS
KENOSHA	S104947610	1000 YDS OFFSHORE - KENOSHA HARBOR	1000 YDS OFFSHORE - KENOSHA HA		WI Spills
PARIS	S102322944	AMOCO OIL CO PARIS	2812 120TH AVE	53144	LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/29/04
Date Made Active at EDR: 02/27/04
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/06/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 02/06/04

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 01/07/04
Date Made Active at EDR: 02/27/04
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 02/06/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 02/06/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/26/04
Date Made Active at EDR: 04/02/04
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 03/22/04
Elapsed ASTM days: 11
Date of Last EDR Contact: 03/22/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 02/26/04
Date Made Active at EDR: 04/02/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/22/04
Elapsed ASTM days: 11
Date of Last EDR Contact: 03/22/04

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/03
Date Made Active at EDR: 02/02/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/26/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 03/08/04

RCRIS: Resource Conservation and Recovery Information System
Source: EPA
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/04
Date Made Active at EDR: 04/02/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/18/04
Elapsed ASTM days: 15
Date of Last EDR Contact: 01/19/04

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 01/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 03/16/04
Date of Next Scheduled EDR Contact: 06/14/04

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision
Source: EPA
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/09/04
Database Release Frequency: Annually
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/29/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 02/06/04
Date of Next Scheduled EDR Contact: 05/01/04

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/18/03
Database Release Frequency: Annually
Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/15/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 01/06/04
Date of Next Scheduled EDR Contact: 04/05/04

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 11/25/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 202-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 03/12/04
Date of Next Scheduled EDR Contact: 05/24/04

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-564-3887
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/30/03
Database Release Frequency: Annually
Date of Last EDR Contact: 02/09/04
Date of Next Scheduled EDR Contact: 05/10/04

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-692-8801
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

STORMWATER: Storm Water General Permits
Source: Environmental Protection Agency
Telephone: 202 564-0746
A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

INDIAN RESERV: Indian Reservations
Source: USGS
Telephone: 202-208-3710
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/15/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 03/15/04
Date of Next Scheduled EDR Contact: 06/14/04

RMP: Risk Management Plans
Source: Environmental Protection Agency
Telephone: 202-564-8600
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: N/A
Database Release Frequency: N/A
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-566-0250
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/01
Database Release Frequency: Annually
Date of Last EDR Contact: 03/23/04
Date of Next Scheduled EDR Contact: 06/21/04

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 03/05/04
Date of Next Scheduled EDR Contact: 06/07/04

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 01/21/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/22/04
Date of Next Scheduled EDR Contact: 06/21/04

SSTS: Section 7 Tracking Systems
Source: EPA
Telephone: 202-564-5008
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01
Database Release Frequency: Annually
Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/30/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/22/04
Date of Next Scheduled EDR Contact: 06/21/04

STATE OF WISCONSIN ASTM STANDARD RECORDS

SHWS: Hazard Ranking List
Source: Department of Natural Resources
Telephone: 608-266-2632
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 11/30/94
Date Made Active at EDR: 03/01/95
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/10/95
Elapsed ASTM days: 19
Date of Last EDR Contact: 01/26/04

SWF/LF: List of Licensed Landfills
Source: Department of Natural Resources
Telephone: 608-267-7557
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/09/03
Date Made Active at EDR: 11/10/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/27/03
Elapsed ASTM days: 14
Date of Last EDR Contact: 01/26/04

LUST: Leaking Underground Storage Tank Database
Source: Department of Natural Resources
Telephone: 608-266-2111
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/15/04
Date Made Active at EDR: 02/06/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/15/04
Elapsed ASTM days: 22
Date of Last EDR Contact: 01/15/04

UST: Registered Underground Storage Tanks
Source: Department of Commerce
Telephone: 608-266-7874
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/09/04
Date Made Active at EDR: 02/03/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/13/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/13/04

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 5
Telephone: 312-886-6136

Date of Government Version: 11/01/02
Date Made Active at EDR: 12/04/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/12/02
Elapsed ASTM days: 22
Date of Last EDR Contact: 02/23/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF WISCONSIN ASTM SUPPLEMENTAL RECORDS

AST: Tanks Database
Source: Department of Commerce
Telephone: 608-266-7874

Date of Government Version: 01/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/13/04
Date of Next Scheduled EDR Contact: 04/12/04

SPILLS: Spills Database
Source: Department of Natural Resources
Telephone: 608-264-6009
A discharge of a hazardous substance that may adversely impact, or threaten to adversely impact public health, welfare or the environment. Spills are usually cleaned up quickly.

Date of Government Version: 01/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/08/04
Date of Next Scheduled EDR Contact: 04/05/04

WDS: Registry of Waste Disposal Sites
Source: Department of Natural Resources
Telephone: 608-266-2632
The registry was created by the DNR to serve as a comprehensive listing of all sites where solid or hazardous wastes have been or may have been deposited.

Date of Government Version: 11/01/00
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 01/26/04
Date of Next Scheduled EDR Contact: 04/26/04

BRRTS: Bureau of Remediation & Redevelopment Tracking System
Source: Department of Natural Resources
Telephone: 608-267-7563
BRRTS is a tracking system of contaminated sites. It holds key information for finding out more about a site or an activity. Activity types included are: Abandoned Container - An abandoned container with potentially hazardous contents recovered from a site. No discharge to the environment occurs. If the container did release a hazardous substance, a spill would be associated with the site. Superfund - is a federal program created by Congress in 1980 to finance cleanup of the nation's worst hazardous waste sites. VPLE - Voluntary Property Liability Exemptions apply to sites in which a property owner conducts an environmental investigation and cleanup of an entire property and then receives limits on their future liability. General Property - Environmental actions which apply to the property as a whole, rather than a specific source of contamination, such as the LUST or environmental repair site. Examples would be off-site letters, municipal liability clarification letters, lease letters, voluntary party liability exemption actions, and general liability clarification letters.

Date of Government Version: 03/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/09/04
Date of Next Scheduled EDR Contact: 06/07/04

AGSPILLS: Agricultural Spill Cases
Source: Department of Agriculture, Trade & Consumer Protection
Telephone: 608-224-5058
Spills reported to the Department of Agriculture, Trade & Consumer Protection. There are two types of spills. Long-term: These are mainly pesticide and fertilizer cases. Some might include other contaminants at the same site. Some might involve wood-treaters - which use pesticides. All of them involve spills of products, but these spills generally result from day to day use (chronic spills) rather than accidental spills (acute). Accidental: These are the acute spills of pesticides and fertilizers and only involve pesticides and fertilizers. Most of these are cleaned up and closed within 3 to 6 months.

Date of Government Version: 09/03/03
Database Release Frequency: Varies

Date of Last EDR Contact: 09/08/03
Date of Next Scheduled EDR Contact: 12/08/03

CRS: Closed Remediation Sites
Source: Department of Natural Resources
Telephone: 608-267-3532
A Closed Remediation Site is parcel of land at which the groundwater has become contaminated and which is affected by a particular type of legal restriction. Specifically, certain steps have been taken to stabilize/remediate the contamination, and the state is satisfied that no further efforts are necessary provided that the property is not used for certain purposes.

Date of Government Version: 03/04/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/02/04
Date of Next Scheduled EDR Contact: 05/31/04

ERP: Environmental Repair Program Database
Source: Department of Natural Resources
Telephone: 608-267-3543
Environmental Repair Program sites are sites other than LUST's that have contaminated soil and/or groundwater. Often, these are old historic releases to the environment.

Date of Government Version: 01/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/13/04
Date of Next Scheduled EDR Contact: 04/12/04

WRRSER: Wisconsin Remedial Response Site Evaluation Report
Source: Department of Natural Resources
Telephone: 608-266-2632
The WRRSER provides information about location, status, and priority of sites or facilities in the state which are known to cause or have a high potential to cause environmental pollution.

Date of Government Version: 10/01/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 01/26/04
Date of Next Scheduled EDR Contact: 04/26/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

BEAP: Brownfields Environmental Assessment Program
Source: Department of Natural Resources
Telephone: 608-266-1618
"Brownfields" are abandoned or under-utilized commercial and industrial properties where expansion or redevelopment is hindered by real or perceived contamination. Through BEAP, DNR staff assess selected brownfields to determine if the properties are contaminated.

Date of Government Version: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

INST CONTROL: Deed Restriction at Closeout Sites
Source: Department of Natural Resources
Telephone: 608-266-2111
Date a deed restriction is recorded at the Register of Deeds office for a property. Extent of soil contamination is known but impracticable to remove now or an engineering control is required to be maintained or NR720 industrial stds are applied. Restricts property use or requires future actions.

Date of Government Version: 02/03/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/15/04
Date of Next Scheduled EDR Contact: 04/12/04

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Directory
Source: Department of Health & Family Services
Telephone: 608-266-9314

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

KENOSHA SITE
5522 104TH AVENUE
KENOSHA, WI 53144

TARGET PROPERTY COORDINATES

Latitude (North):	42.586201 - 42˚ 35' 10.3"
Longitude (West):	87.939697 - 87˚ 56' 22.9"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	422892.2
UTM Y (Meters):	4715078.0
Elevation:	722 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

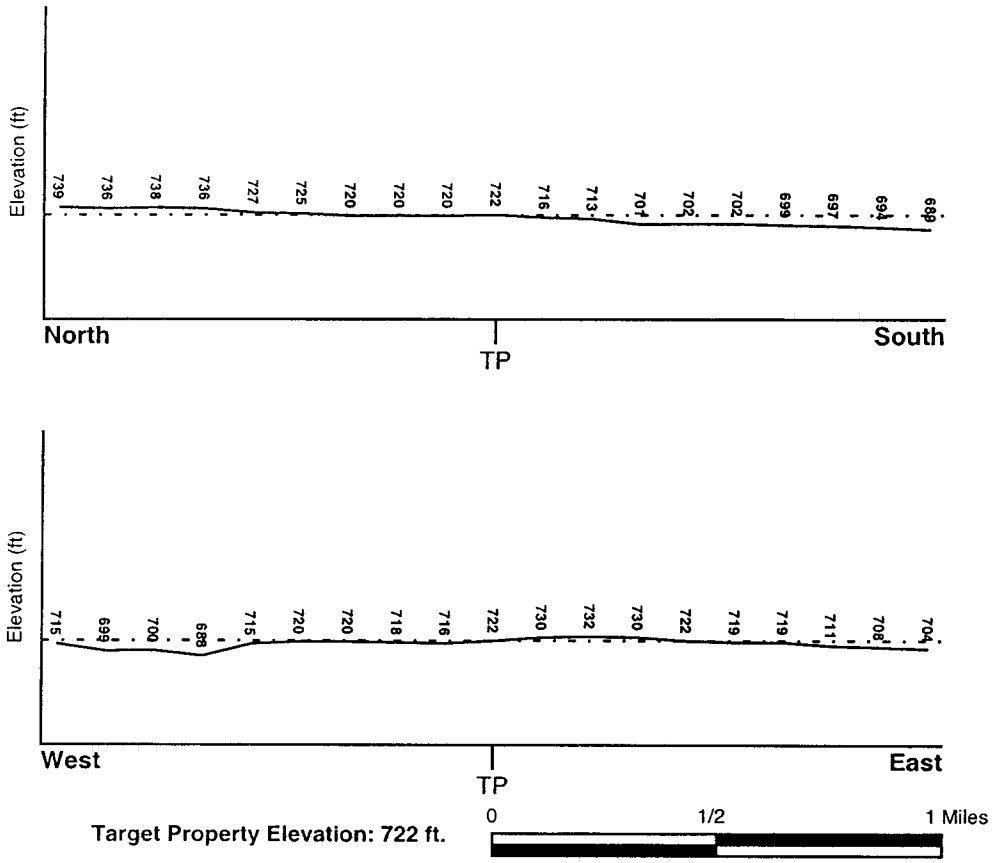
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map:	42087-E8 PLEASANT PRAIRIE, WI
General Topographic Gradient:	General WSW
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
KENOSHA, WI	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Silurian
Series:	Middle Silurian (Niagoaran)
Code:	S2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	VARNA
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	12 inches	30 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
3	30 inches	60 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.06	Max: 8.40 Min: 6.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silty clay loam
muck
loam
silty clay

Surficial Soil Types: silty clay loam
muck
loam
silty clay

Shallow Soil Types: clay loam

Deeper Soil Types: muck
stratified

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS1217640	1/2 - 1 Mile SW
4	USGS1217581	1/2 - 1 Mile SSE
5	USGS1217595	1/2 - 1 Mile ENE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

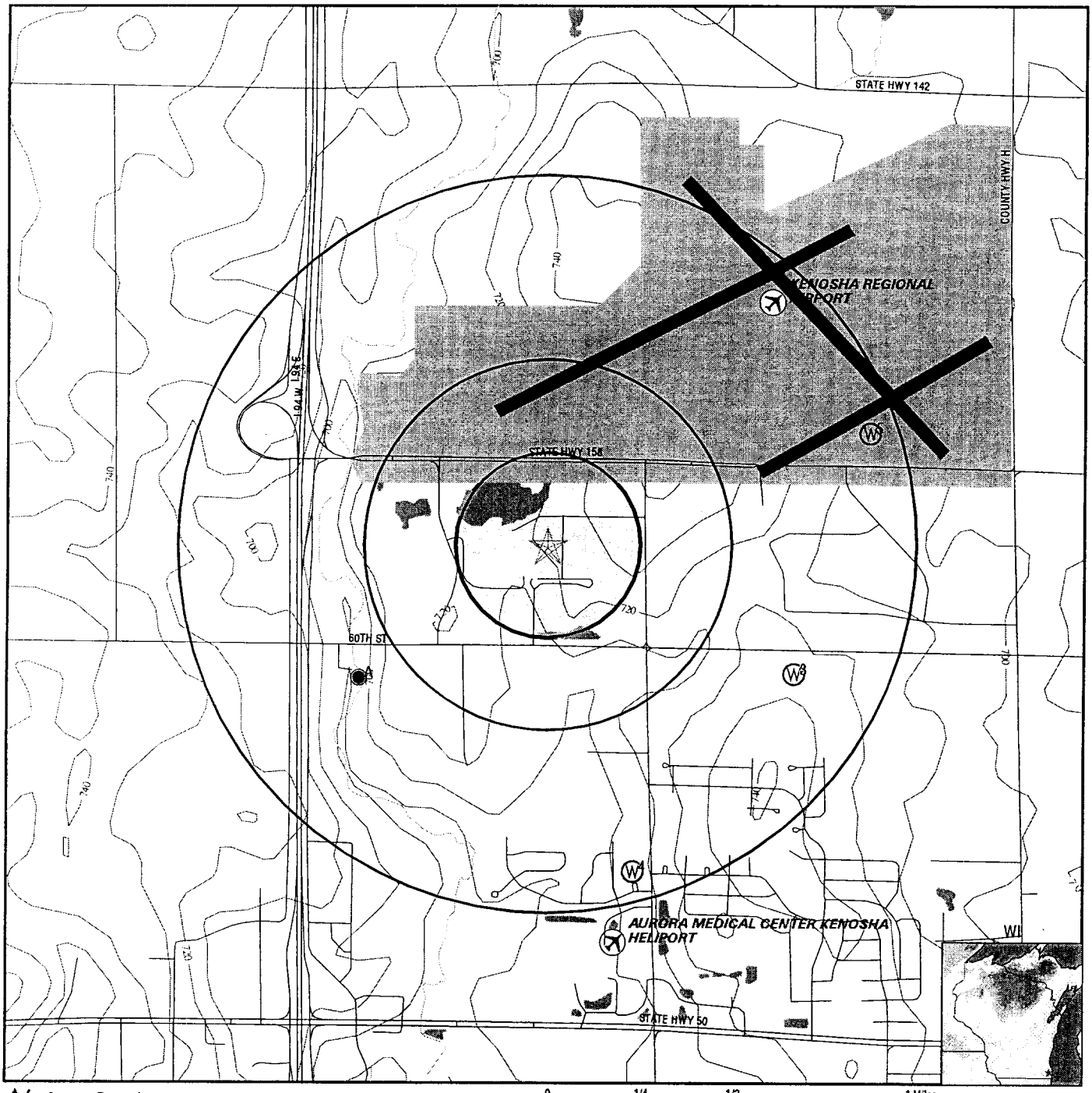
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	FN161	1/2 - 1 Mile WSW
3	DO142	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 1168371.2s



County Boundary
Major Roads
Contour Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data

TARGET PROPERTY:	Kenosha Site	CUSTOMER:	AES
ADDRESS:	5522 104th Avenue	CONTACT:	Pete Connelly
CITY/STATE/ZIP:	Kenosha WI 53144	INQUIRY #:	1168371.2s
LAT/LONG:	42.5862 / 87.9397	DATE:	April 08, 2004 8:32 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **WSW** **1/2 - 1 Mile** **Lower**	**WI WELLS**	**FN161**

Well Number:	FN161		
County Well Location #:	Not Reported	County Code:	30
District Number:	2	Tax Parcel Number:	Not Reported
Construction Date:	03/22/93	Date DNR rece'd constr. report:	032993 032993
Type of Municipality:	Town	Municipality Name:	PLEASANT PRAIRIE
Fire Number:	Not Reported	Subdivision Name:	Not Reported
Lot Number:	Not Reported	Well Address:	11730 W 60TH ST
Government Lot #:	Not Reported	Block Number:	Not Reported
Quarter Code:	NW	Quarter-Quarter Code:	NW
Survey Section #:	06	Survey Township #:	01
Range:	22	East-West Code:	E
Status of Well:	New	Year of original Well:	0
Previous Well #:	Not Reported	Reason for Well:	DOMESTIC WATER SUPPLY
New Well ID:	Not Reported	Well Construction Type:	Drilled
Num. of Service Connections:	0001	Well Category:	Private
Is Well High Capacity?:	No	Facility Type:	8 MOBIL HOMES
High Capacity Property:	No	Is Well Highest Point?:	Yes
Is Well in Floor Plain ?:	No	Pumping Level (Ft):	300.0
Gallons Pumped:	20.0/Minute	Number of Test Hours:	4.00
Distance from Building Overhang:		0015	
Distance from Septic Tank:		0045	
Distance from Sewage Absorption Unit:		0100	
Distance from Building Drain:	0030	Type of Drain:	CI or Equivalent
Drill Hole Diameter (inches):	6.000	Drill Hole Dimensions (feet):	To 515.00
Type of Drill Used:	Rotary Air		
Other Drill used ?:	Not Reported	Type of other Drill used:	CASING HAMMER
Temp. Outer Casing Used ?:	Not Reported	Diameter of Temp. outer casing:	Not Reported
Temp. outer casing removed?:	Not Reported		
Casing-liner-screen Diam.(in):	6.0	Casing-liner-screen Dimens.(Ft):	To 160.
Description of Casing, Liner and Screen:		A53B PLAIN END WELDED JOINT 18.97 PPF	
Screen Diameter (inches):	Not Reported	Screen Dimensions (feet):	Not Reported
Description of Screen:	Not Reported		
Sealing Method:	STARTER HOLE		
Sealing Material:	GRANULAR BENTONITE		
Sealing Dimensions (feet):	From 0	Qty of Sealing Material:	Not Reported
Geologic Code:	YC		
Geologic Formations:	YELLOW CLAY		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimens. (Ft):	From 0 To 13.00
Geologic Code:	GCG		
Geologic Formations:	GRAY CLAY STONEY		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 13.00 To 160.00
Geologic Code:	L		
Geologic Formations:	LIMESTONE		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 160.00 To 215.00
Geologic Code:	XLH		
Geologic Formations:	LIMESTONE WITH SHALE LAYERS		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 215.00 To 230.00
Geologic Code:	L		
Geologic Formations:	LIMESTONE		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 230.00 To 510.00

Geologic Code:	H		
Geologic Formations:	SHALE		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 510.00 To 515.00
More Geologic. Info. Indicator:	Not Reported	Static Water Level (Ft):	90.0 Below ground
Well Depth	014 Above Grade	Is Well developed?:	Yes
Is Well disinfected?	Yes	Is Well capped?:	Yes
Well Contractor:	JDK	Is Well properly sealed?:	Not Reported
Rig Operator:	Not Reported	Last file update Date:	04/19/93
Do comments exist:	Not Reported	Was label sent to owner:	Yes
Date contractor signed the well construction report:		03/24/93	
Date rig operator signed the well construction report:		Not Reported	

A2
SW
1/2 - 1 Mile
Lower

FED USGS **USGS1217640**

Agency:	USGS	Site ID:	423450087570001
Site Name:	KE-01/22E/06-0352		
Dec. Latitude:	42.58056		
Dec. Longitude:	-87.95		
Coord Sys:	NAD27		
State:	WI		
County:	Kenosha County		
Altitude:	695.00		
Hydrologic code:	07120004		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	269		
Hole depth:	269	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1982-03-11	51.00	

3
ESE
1/2 - 1 Mile
Higher

WI WELLS **DO142**

Well Number:	DO142		
County Well Location #:	Not Reported	County Code:	30
District Number:	2	Tax Parcel Number:	Not Reported
Construction Date:	02/15/94	Date DNR rece'd constr. report:	02/21/94
Type of Municipality:	Town	Municipality Name:	SOMERS
Fire Number:	Not Reported	Subdivision Name:	Not Reported
Lot Number:	Not Reported	Well Address:	9607 60TH ST
Government Lot #:	Not Reported	Block Number:	Not Reported
Quarter Code:	NW	Quarter-Quarter Code:	NW
Survey Section #:	06	Survey Township #:	01
Range:	22	East-West Code:	E
Status of Well:	New	Year of original Well:	0
Previous Well #:	Not Reported	Reason for Well:	SHARED WELL

New Well ID:	Not Reported	Well Construction Type:	Drilled
Num. of Service Connections:	0001	Well Category:	Private
Is Well High Capacity?:	No	Facility Type:	Not Reported
High Capacity Property:	No	Is Well Highest Point?:	Yes
Is Well in Floor Plain ?:	No	Pumping Level (Ft):	74.0
Gallons Pumped:	30.0/Minute	Number of Test Hours:	4.00
Distance from Building Overhang:		0010	
Distance from Septic Tank:		0050	
Distance from Sewage Absorption Unit:		0065	
Distance from Downspout or Yard Hydrant:		0012	
Distance from Clear Water Foundation Drain:		0018	
Drill Hole Diameter (inches):	6.000	Drill Hole Dimensions (feet):	To 172.00
Type of Drill Used:	Not Reported		
Other Drill used ?:	Not Reported	Type of other Drill used:	Not Reported
Temp. Outer Casing Used ?:	Not Reported	Diameter of Temp. outer casing:	Not Reported
Temp. outer casing removed?:	Not Reported		
Casing-liner-screen Diam.(in):	6.0	Casing-liner-screen Dimens.(Ft):	To 172.
Description of Casing, Liner and Screen:		UNION STEEL PIPE A589 TYPE II E SCH 406INXNBX20IN	
Screen Diameter (inches):	Not Reported	Screen Dimensions (feet):	Not Reported
Description of Screen:	Not Reported		
Sealing Method:	MOUNDED AROUND PIPE		
Sealing Material:	GRANULAR BENTONITE #8 MESH SIZ		
Sealing Dimensions (feet):	From 0 To 168.00	Qty of Sealing Material:	Not Reported
Geologic Code:	YC		
Geologic Formations:	YELLOW CLAY		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimens. (Ft):	From 0 To 15.00
Geologic Code:	UCG		
Geologic Formations:	BLUE CLAY GRAVEL		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 15.00 To 35.00
Geologic Code:	P		
Geologic Formations:	HARDPAN		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 35.00 To 135.00
Geologic Code:	UC		
Geologic Formations:	BLUE CLAY		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 135.00 To 150.00
Geologic Code:	P		
Geologic Formations:	HARDPAN		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 150.00 To 168.00
Geologic Code:	G		
Geologic Formations:	GRAVEL		
USGS Geo. Formations Code:	Not Reported	Geo. Formations Dimensions:	From 168.00 To 172.00
More Geologic. Info. Indicator:	Not Reported	Static Water Level (Ft):	70.0 Below ground
Well Depth	014 Above Grade	Is Well developed?:	Yes
Is Well disinfected?	Yes	Is Well capped?:	Yes
Well Contractor:	MG	Is Well properly sealed?:	No - NO OLD WELLS
Rig Operator:	RS	Last file update Date:	03/10/94
Do comments exist:	Not Reported	Was label sent to owner:	Not Reported
Date contractor signed the well construction report:		02/17/94	
Date rig operator signed the well construction report:		02/17/94	

4
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS1217581**

Agency:	USGS	Site ID:	423424087560601
Site Name:	KE-01/22E/06-0089		
Dec. Latitude:	42.57333		
Dec. Longitude:	-87.935		
Coord Sys:	NAD27		
State:	WI		
County:	Kenosha County		
Altitude:	705.00		
Hydrologic code:	07120004		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19590521	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	177		
Hole depth:	177	Source:	driller
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-05-21	55.00		0000-00	35.00	

5
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS1217595**

Agency:	USGS	Site ID:	423526087552101
Site Name:	KE-02/22E/32-0204		
Dec. Latitude:	42.59056		
Dec. Longitude:	-87.9225		
Coord Sys:	NAD27		
State:	WI		
County:	Kenosha County		
Altitude:	712.00		
Hydrologic code:	04040002		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	204		
Hole depth:	204	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1960-06-01	45.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: WI Radon

Radon Test Results

Zip	Total Sites	4 < 10 (pCi/L)	> 10 pCi/L	Avg.	Max.
53144	67	18	10	7.3	72.9

Federal EPA Radon Zone for KENOSHA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KENOSHA COUNTY, WI

Number of sites tested: 18

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.917 pCi/L	83%	17%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Wisconsin Well Construction Report File
Source: Department of Natural Resources
Telephone: 608-266-0153

RADON

State Database: WI Radon
Source: Department of Health & Family Services
Telephone: 608-266-1865
Wisconsin Measurement Summary

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX F

APPLIED ENVIRONMENTAL SCIENCES, INC (AES) 1999.
PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR THE
PROPOSED MENOMINEE INDIAN TRIBE GAMING FACILITY.
ADDENDUM IS ATTACHED
KENOSHA, WISCONSIN

PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR THE PROPOSED MENOMINEE INDIAN TRIBE GAMING FACILITY KENOSHA, WI

Prepared for:
THE MENOMINEE INDIAN TRIBE
KESHENA, WI

Prepared by:
APPLIED ENVIRONMENTAL SCIENCES, INC.
2110 LUANN LANE
MADISON, WI 53713
(608) 277-9933

March 26, 1999

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FIGURES

FIGURE 1 SITE LOCATION

FIGURE 2 SITE FEATURES

APPENDICES

APPENDIX A VISTA INFORMATION SERVICES, INC. REPORT

APPENDIX B RESUMES OF PROJECT ENVIRONMENTAL PROFESSIONALS

1 SUMMARY

This report has been prepared for RELCO in accordance with Applied Environmental Sciences, Inc. (AES) proposal dated July 20, 1998 and presents the findings of a Phase I Environmental Site Assessment (ESA) of portions of Dairyland Greyhound Park (DGP) property. The property is located in the southeast ¼ of Section 31, Township 2 North, Range 22 East, City of Kenosha, Wisconsin. This ESA was prepared according to ASTM E 1527-97 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

Mr. John Flickinger of AES conducted the Phase I ESA site visit on December 8, 1998 in the company of Mr. Dennis Kelly of DGP. In addition, to aid in the preparation of an Environmental Assessment (EA) of the subject site, site visits were conducted by Mr. Jim Ihrig of AES on February 15 and March 4, 1999. Based on information obtained as part of this Phase I ESA, the following conclusions and recommendations are provided:

- The City of Kenosha reportedly collects potable water samples from the facility for laboratory analysis on a weekly basis. Information concerning the purpose or scope of these tests was not available at the time of the site visit. We recommend that additional inquiry be conducted to obtain this information.

- Sanitary wastewater generated at the facility is reportedly tested on occasion by the City of Kenosha. Information concerning the purpose or scope of these tests was not available at the time of the site visit. We recommend that additional inquiry be conducted to obtain this information.

- Based on the nature of some of the wastes generated, the facility may be a generator of RCRA hazardous waste; however, no information concerning the hazardous waste

generator status of the facility was available during the site visit. Possible hazardous wastes generated are associated with veterinary medical wastes and a recycled solvent parts washer. We recommend that additional information be obtained to verify compliance with possible RCRA hazardous waste generator permitting requirements.

- Based on a review of file information obtained from the Wisconsin Department of Natural Resources (WDNR) Bureau of Air Management and the Wisconsin Division of Gaming, the existence of an inactive Town of Somers landfill has been identified contiguous to the subject site. During the EA site visits conducted by AES, portions of several 55-gallon drums were identified, and evidence of two monitoring wells was observed within the area of the former landfill. Information concerning the purpose, age, depths, sampling histories and conditions of these monitoring wells has not been located to date, and the monitoring wells are not registered with the WDNR. We recommend that additional inquiries be made in an attempt to obtain this information.

- During the EA visits of the subject site, portions of several 55-gallon drums were identified (as indicated above) within the area of an inactive Town of Somers landfill adjacent to the subject site. No information concerning the identity of the generator, historical contents or disposal dates related to these 55-gallon drums has been identified to date. We recommend that additional inquiries be made in an attempt to obtain this information.

- Transformers were observed to be present at the subject site, and are reportedly owned by WEPCO. Information concerning possible polychlorinated biphenyls (PCBs) content related to these transformers was not available at the time of the site visit. We recommend that additional inquiries be made to obtain this information.

2 INTRODUCTION

This report has been prepared for RELCO in accordance with Applied Environmental Sciences, Inc. (AES) proposal dated July 20, 1998 and presents the findings of a Phase I Environmental Site Assessment (ESA) of portions of Dairyland Greyhound Park (DGP) property. This ESA was prepared according to ASTM E 1527-97 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. Mr. John Flickinger of AES conducted the Phase I ESA visit on December 8, 1998 in the company of Mr. Dennis Kelly of DGP. Mr. Kelly has been employed by DGP since 1994, and currently serves as Director of Facilities. In addition, Environmental Assessment (EA) visits of the site were conducted by Mr. Jim Ihrig of AES on February 15 and March 4, 1999. Relevant information obtained from these site visits is included as part of this Phase I ESA report.

2.1 PURPOSE

The purpose for the Phase I ESA is to identify potential recognized environmental conditions on the subject property prior to property transfer.

2.2 EXCEPTIONS OF ASSESSMENT

The information and conclusions provided in the report apply only to the subject property as it existed at the time of AES' site examination. Should site use or conditions change or should there be changes in applicable laws, standards or technology, the information and conclusions in the report may no longer apply. AES makes no representations regarding the value or marketability of this property or its suitability for any particular use, and none should be inferred based on the report. The report its intended to be used

in its entirety and no excerpts may be taken to be representative of the findings of this investigation. AES performed the services documented herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under the same conditions. No other representations, expressed or implied, and no warranty or guarantee is included herein. Environmental land use issues and constraints of possible relevance (e.g., wetlands) were not included in the scope of services. Conclusions and recommendations provided herein are based on information provided by others, and AES has relied on that information as being true.

3 SITE DESCRIPTION

The subject site consists of a portion of DGP property totaling 87.3 acres just south of STH 158 between I-94 and CTH HH (104th St.), which is within the western portion of the City of Kenosha (Figures 1 and 2).

3.1 LOCATION

The property is located in the southeast ¼ of Section 31, Township 2 North, Range 22 East, City of Kenosha, Wisconsin.

3.2 SITE AND VICINITY CHARACTERISTICS

The site is partially developed by DGP (which was constructed during the period 1989 to 1990) and includes a clubhouse, parking lots, kennels and a racetrack. The remainder of the DGP site includes portions of an approximate 20-acre pond/wetland. The DGP site is surrounded by agricultural land to the west; the Kenosha Airport to the north; vacant land (primarily field and wetland areas) to the west; and DGP parking lots followed by several residences and agricultural land to the south.

3.3 DESCRIPTIONS OF IMPROVEMENTS ON THE SITE

Improvements at the site include the DGP clubhouse, kennels, parking lots, racetrack and access roads. The City of Kenosha provides potable water and sewage disposal to DGP. The City reportedly collects potable water samples from the facility for laboratory analysis on a weekly basis. Information concerning the purpose or scope of these tests was not available at the time of the site visit.

The main building covers a total area of approximately 290,000 square feet. The DGP facility has 425 employees. Wisconsin Electric Power Company (WEPCO) supplies natural gas and electric utilities. The clubhouse and kennels are heated/cooled by 23 forced air furnaces fueled by natural gas. Three hot water boilers service the clubhouse, and an additional three boilers located near the kennels provide hot water to heat the track. All on-site boilers are fueled by natural gas.

3.4 CURRENT USES OF THE PROPERTY

As indicated above, the DGP currently occupies portions of the subject site.

3.5 CURRENT AND PAST USES OF ADJOINING PROPERTIES

The DGP site is surrounded by agricultural land to the east; the Kenosha Airport to the north; vacant land (primarily old field and wetland areas) to the west; and DGP parking lots followed by several residences and agricultural land to the south.

Review of historical aerial photographs covering the period 1950 to 1992 indicate that adjacent land to the east has been used for agricultural purposes during this period. Prior to construction of DGP, land to the south and west of the site was also agricultural. The airport to the north was constructed between 1956 and 1963 and expanded to existing conditions between 1979 and 1992. This land was agricultural prior to being developed

for the airport. None of the adjacent properties are currently used for purposes of chemical manufacturing or petroleum storage.

3.6 SITE PLAN

Subject site features are provided as Figure 2.

4 RECORDS REVIEW

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

To identify possible environmental concerns associated with the subject property and adjacent properties, AES reviewed several sources of information, including federal, state, and local agency records. Summaries of these reviews are provided in the following sections.

Federal and state governments have developed legislation and regulations that relate to environmental issues such as handling of wastes and materials, including the storage, control and disposal of such materials. Numerous agencies collect and disseminate information for use in evaluating potential environmental problems. AES obtained and reviewed a report of environmental information from VISTA Information Services, Inc. (VISTA) dated January 4, 1999. A copy of the VISTA report for the subject property is provided as Appendix A. The regulatory databases searched are identified and described below.

4.1.1 Federal National Priorities List

The U.S. Environmental Protection Agency (USEPA) National Priorities List of controlled or abandoned hazardous waste sites was reviewed for sites within one mile of the subject property. To appear on the NPL, sites must have met or surpassed a predetermined hazard ranking system score, been chosen as the state's top priority site, posed a significant health or environmental threat, or be a site where the USEPA has

determined that remedial action is more cost effective than a removal action. The database search identified no NPL sites within one mile of the subject property.

4.1.2 Federal CERCLIS List

The USEPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) listings were reviewed to determine if site(s) within one-half mile of the subject property are listed for investigation. The CERCLIS database identifies hazardous waste sites that require investigation and possible remedial action to mitigate potential negative impacts on human health or the environment. The database search identified no CERCLIS sites within one-half mile of the subject property.

4.1.3 Federal RCRA Lists

The current Resource Conservation and Recovery Act (RCRA) notifiers list was reviewed to determine if RCRA treatment, storage, or disposal sites (TSDs) are located within one-half mile of the subject property. No TSD sites are documented to be located within one-half mile of the subject property.

The RCRA-regulated waste generator notifier's list was reviewed to determine if RCRA generator facilities are located within one-quarter mile of the subject property. No such facilities were identified.

4.1.4 Federal ERNS Lists

A data base search of the EPA's Emergency Response Notification System (ERNS) list, which contains reported spill records of oil and hazardous substances, did not identify the subject property as an ERNS site.

4.1.5 Wisconsin Solid Waste Facilities

The Wisconsin Department of Natural Resources (WDNR) permitted solid-waste facilities (SWLF) is a comprehensive listing of the known or suspected, uncontrolled or abandoned waste sites. The data base search did not identify any SWLF sites within one-half mile of the subject property.

4.1.6 Wisconsin Hazardous Waste Sites

The WDNR hazardous waste sites list was reviewed to assess whether state hazardous waste sites (SHWS) are located within 1 mile of the subject property. The database search identified no SHWS sites within 1 mile of the subject property.

4.1.7 Wisconsin Leaking Underground Storage Tank Sites

The WDNR Leaking Underground Storage Tank (LUST) Section maintains a list of information pertaining to all reported LUSTs in the state. The database search identified one LUST property within one-half mile of the site. This LUST site is identified as the Harvey Property, located at 9717 60th Street in Kenosha. This property is located 0.38 mile to the southeast (hydraulically downgradient or crossgradient) of the subject site, and therefore does not have the potential to create a recognized environmental condition at the subject site.

4.1.8 Wisconsin Underground Storage Tank Sites

Based on a review of the WDNR underground storage tank (UST) list, no properties were identified as UST sites within one-quarter mile of the subject property.

4.1.9 RCRA Corrective Actions and Associated TSD (CORRACTS TSD)

The USEPA's database that contains the RCRA facilities that are undergoing "corrective action" was reviewed for properties within one mile of the subject property. The database search identified no properties within one mile of the subject property.

4.2 PHYSICAL SETTING

4.2.1 Topography

The subject site topography has been substantially modified by grading and soil compaction as part of construction of the DGP. The subject site is relatively level and gently grades to the ponded wetland area to the north. The elevation of the subject site ranges from approximately 710 to 720 feet (ft) relative to mean sea level (MSL). Several topsoil stockpiles, presumably left from DGP construction activities, are present in the vicinity of the site. These piles are covered with weeds and grasses and are present just to the east of the large pond/wetlands area and immediately to the west of the DGP facility.

The subject site is not located on a 25 or 100-year floodplain, and Mr. Kelly has reported no flooding of the site during his employment with DGP since 1994. Stormwater discharges from the site migrate to an agricultural field located to the south of the site. Portions of the discharges initially migrate to a ponded wetland area and/or a sedimentation basin to the southeast of the subject site.

4.2.2 Soils

Soils underlying the clubhouse are mapped as Varna and Markham and silt loam (featuring slopes of 2 to 6%) (NRCS, 1965). These well drained to moderately well drained soils were developed in a thin soil mantle and the underlying clay loam to silty

clay loam glacial till. Varna silt loam has a very high available moisture capacity, medium to rapid surface runoff, moderately slow permeability and medium drainage. These soils possess a slight to moderate erosion hazard and are moderately suited to commercial and light industrial developments.

Soil borings advanced in the vicinity of the clubhouse prior to DGP development revealed the presence of mainly silty clay with trace sand and gravel to a depth of at least 31 ft below ground surface. Soils underlying other portions of land to be held in trust include Houghton muck, Ashkum and Elliot silty clay loam, and Hebron loam (NRCS, 1965). Drainage in these soils range from very poorly drained (Houghton) to well drained (Hebron).

4.2.3 Geology

The regional geology of the Kenosha area consists of Pleistocene-age lacustrine deposits ranging in thickness from 55 to 100 ft, overlying rocks of Silurian, Ordovician and Cambrian age. The rocks from youngest to oldest are Niagara dolomite, Maquoketa shale, Platteville-Galena dolomite, St. Peter sandstone Jordan sandstone and the Franconia sandstone.

Metallic mineral resources are not expected in substantial quantities in the vicinity of the site. Non-metallic mineral resources, predominantly sand and gravel and limestone (dolomite) are mined in Kenosha County (Finley, 1976). However, only one pit (presumably gravel) located approximately 1.5 miles southwest of the site, is identified on the Pleasant Prairie USGS topographic quadrangle within a two-mile radius of the site. Depth to groundwater at the subject site reportedly ranges from 6 to 9 ft, and areas of perched groundwater may be present at shallower depths.

4.3 HISTORICAL USE INFORMATION

As part of our evaluation of site history, aerial photographs were reviewed. Historical aerial photographs were obtained for the years 1950, 1956, 1963, 1969, 1979, and 1992. The aerial photographs for the years 1950 through 1979 reveal that the subject site was used as agricultural land. The Kenosha Airport to the north appears as being constructed after 1956 and before 1963, and expanded to existing conditions between 1979 and 1992. This land appears as agricultural prior to being developed for the airport. Review of all of the historical aerial photographs indicates that adjacent land to the east of the subject site was used for agricultural purposes. Prior to construction of DGP, land immediately to the south and west of the site was also agricultural. The 1992 aerial photograph reveals the subject site as it appears at the present time.

5 SITE RECONNAISSANCE AND INTERVIEWS

5.1 HAZARDOUS SUBSTANCES IN CONNECTION WITH IDENTIFIED USES

5.1.1 Wastewater Management

Wastewater has not historically or currently been generated at the subject site. Sanitary wastewater generated at the facility is reportedly tested on occasion by the city of Kenosha. Information concerning the purpose or scope of these tests was not available at the time of the site visit.

5.1.2 Solid Waste Management

General refuse generated at the subject site is routinely transported off site by Waste Management, Inc. Glass, cardboard, plastic, tin, aluminum and paper is recycled by Waste Management, Inc.

5.1.3 Special Waste Management

Waste lubricating oils from facility tractors and trucks are reportedly properly transported from the site. These oils are transported offsite by Safety-Kleen to the Safety-Kleen Systems, Inc. facility located in Waukesha, Wisconsin.

5.1.4 Hazardous Waste Management

Based on the nature of some of the wastes generated, the facility may be a generator of RCRA hazardous waste; however, no information concerning the hazardous waste

generator status of the facility was available during the site visit. Possible hazardous wastes generated are associated with veterinary medical wastes and a recycled solvent parts washer. The medical wastes are transported offsite by Prairie Land of Wisconsin, Inc. and BFI Medical Waste. These wastes are then treated at BFI's Vandalia, Minnesota treatment facility or disposed at the Pine Bend Landfill in Inner Grove Heights, Minnesota. The solvent parts washer unit contains petroleum naptha and is located in the maintenance garage. The solvent contained in the parts washer is transported offsite by Safety-Kleen to the Safety-Kleen Systems, Inc. facility located in Waukesha, Wisconsin.

5.1.5 Air Emissions

Federal regulations, promulgated under the Clean Air Act, are contained in 40 CFR Parts 50 through 87. The source of air emissions at the subject site is limited to natural gas and air from the facility boilers and furnaces.

5.1.6 Asbestos

Considering that the facility was constructed subsequent to 1989, the presence of asbestos within the facility buildings is unlikely. However, floor tiles with dimensions of 9 inches by 9 inches located throughout the clubhouse may have been imported during construction and therefore could contain asbestos.

5.2 HAZARDOUS AND UNIDENTIFIED SUBSTANCE CONTAINERS

As indicated above, an EA visit of the subject site was conducted by AES on two occasions between January and March 1999. During these site visits, portions of several 55-gallon drums were identified within the area of the former Town of Somers landfill

adjacent to the subject site, as discussed in Section 5.5. No information concerning the identity of the generator, historical contents or disposal dates related to these 55-gallon drums has been identified to date.

5.3 STORAGE TANKS

One underground storage tank (UST) is reportedly located at the site. This 800-gallon capacity diesel fuel UST is located near the entrance to the DGP clubhouse and is used as a fuel source for the building's emergency generator. According to Mr. Dennis Kelly, this UST is double-walled and has a leak detection alarm system. To his knowledge, this alarm has not sounded during the time that he has been employed by DGP (since 1994). The UST was reportedly installed during the period 1989 to 1990, at the time the facility was constructed. Evidence of other USTs was not observed during the site visit.

There are reportedly two aboveground storage tanks (ASTs) at the site. A 500-gallon steel diesel fuel AST, with secondary containment, is located near the track maintenance building and is used to provide fuel for tractors used on site. This AST was reportedly installed in 1991. In addition, an 80-gallon diesel fuel tank that provides fuel for an emergency generator is located in the kennel area. This tank was reportedly installed during the period 1989 to 1990. There were no indications of fuel leaks associated with these ASTs, and no other ASTs were observed during the site visit.

5.4 INDICATIONS OF PCBS

Transformers were observed to be present at the subject site, and are reportedly owned by WEPCO. Information concerning possible PCBs content related to these transformers was not available at the time of the site visit.

5.5 INDICATIONS OF SOLID WASTE DISPOSAL

Based on a review of file information obtained from the Wisconsin Department of Natural Resources (WDNR) Bureau of Air Management and the Wisconsin Division of Gaming, the existence of an inactive Town of Somers landfill has been identified adjacent to the subject site. The landfill was reportedly in use during the period from the early 1970s to 1977 or 1978. During that time, the landfill reportedly accepted trashes and yard wastes. As indicated above, during the EA site visit conducted by AES, portions of several 55-gallon drums were identified, and evidence of two monitoring wells was observed within the area of the inactive landfill. Information concerning the purpose, age, depths, sampling histories and conditions of these monitoring wells has not been located to date, and the monitoring wells are not registered with the WDNR.

6 CONCLUSIONS AND RECOMMENDATIONS

Based on information obtained as part of this Phase I ESA, the following conclusions and recommendations are provided:

- The City of Kenosha reportedly collects potable water samples from the facility for laboratory analysis on a weekly basis. Information concerning the purpose or scope of these tests was not available at the time of the site visit. We recommend that additional inquiry be conducted to obtain this information.

- Sanitary wastewater generated at the facility is reportedly tested on occasion by the City of Kenosha. Information concerning the purpose or scope of these tests was not available at the time of the site visit. We recommend that additional inquiry be conducted to obtain this information.

- Based on the nature of some of the wastes generated, the facility may be a generator of RCRA hazardous waste; however, no information concerning the hazardous waste generator status of the facility was available during the site visit. Possible hazardous wastes generated are associated with veterinary medical wastes and a recycled solvent parts washer. We recommend that additional information be obtained to verify compliance with possible RCRA hazardous waste generator permitting requirements.

- Based on a review of file information obtained from the Wisconsin Department of Natural Resources (WDNR) Bureau of Air Management and the Wisconsin Division of Gaming, the existence of an inactive Town of Somers landfill has been identified adjacent to the subject site. During the EA site visits conducted by AES, portions of several 55-gallon drums were identified, and evidence of two monitoring wells was observed within the area of the former landfill. Information concerning the purpose, age, depths, sampling histories and conditions of these monitoring wells has not been

located to date, and the monitoring wells are not registered with the WDNR. We recommend that additional inquiries be made in an attempt to obtain this information.

- During the EA visits of the subject site, portions of several 55-gallon drums were identified within the area of the former Town of Somers landfill adjacent to the subject site. No information concerning the identity of the generator, historical contents or disposal dates related to these 55-gallon drums has been identified to date. We recommend that additional inquiries be made in an attempt to obtain this information.

- Transformers were observed to be present at the subject site, and are reportedly owned by WEPCO. Information concerning possible PCB content related to these transformers was not available at the time of the site visit. We recommend that additional inquiries be made to obtain this information.

- Floor tiles with dimensions of 9 inches by 9 inches are located throughout the clubhouse; these floor tiles may have been imported during facility construction and therefore could contain asbestos.

7 REFERENCES

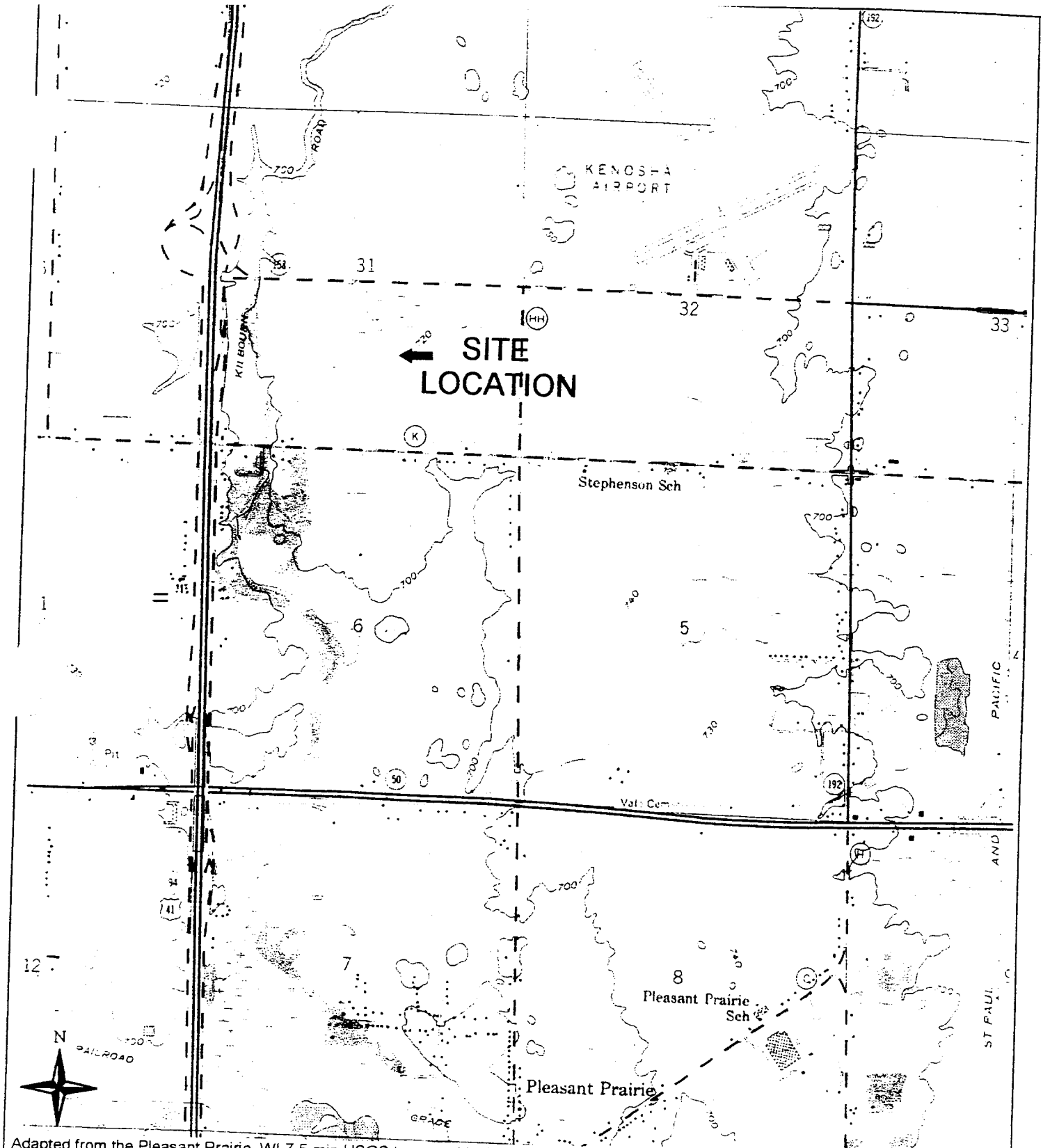
Finley, R.W. 1976. Geography of Wisconsin. 558 pp.

Natural Resources Conservation Service (NRCS). 1965. Soil Survey of Kenosha and Racine Counties, Wisconsin. U.S. Dept. of Agriculture, Soil Conservation Service. 113 pp. + maps.

9 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Resumes of the environmental professionals involved in the completion of this Phase I ESA are provided as Appendix C.

FIGURES



Adapted from the Pleasant Prairie, WI 7.5-min USGS topographical quadrangle (1958, photorevised 1971)

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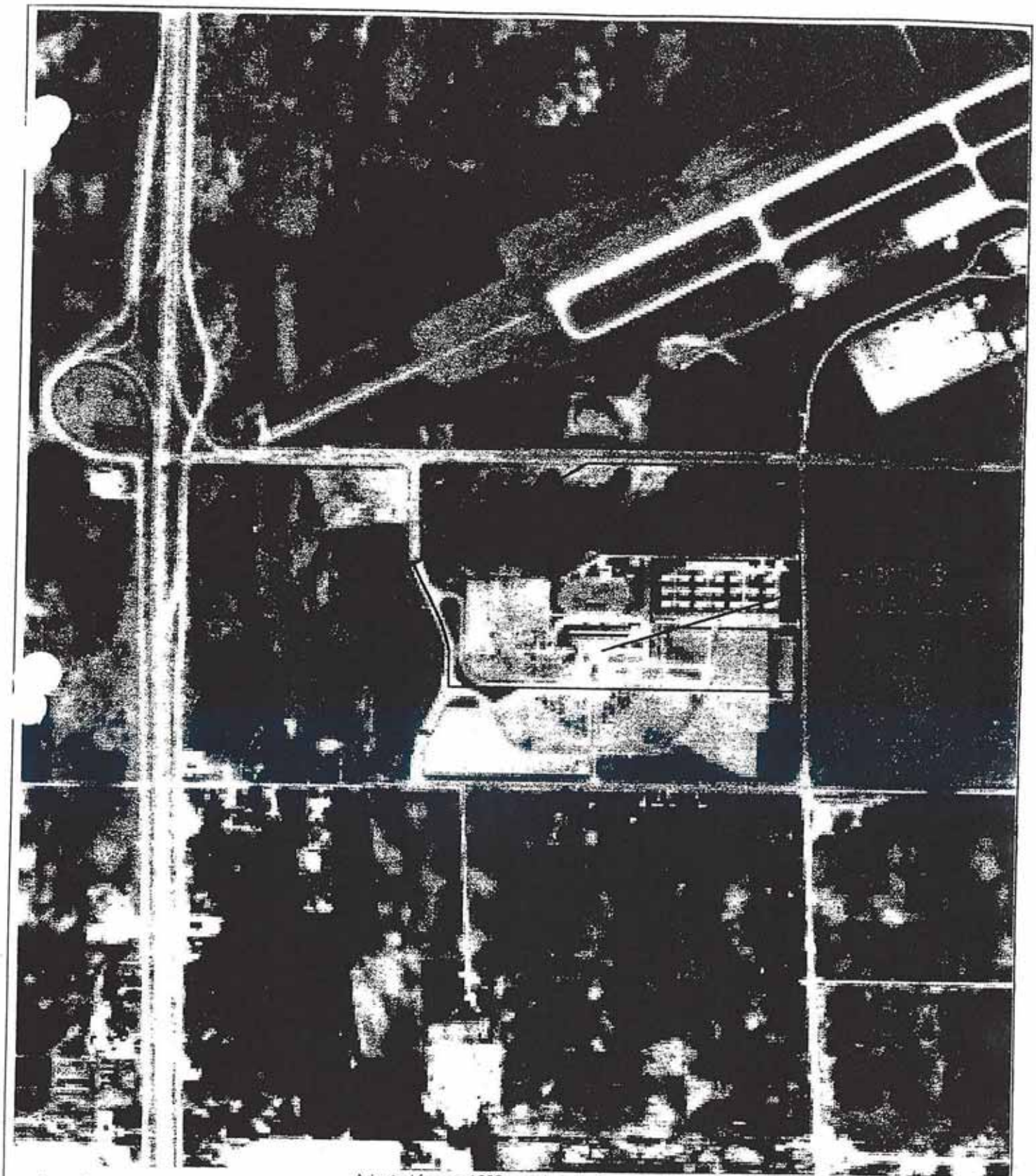
Applied Environmental Sciences, Inc.	SITE LOCATION MAP PROPOSED RENOVATION DAIRYLAND GREYHOUND PARK KENOSHA, WISCONSIN				FIGURE
DRAWN	CHECKED	APPROVED	DATE	DRAWING NUMBER	1
JWI	MMM	JSF	2/5/99	C16001-usgs	



Approximate Boundary of Trust Land

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0 1000 Feet

Adapted from a 1992 aerial photo from the University of Wisconsin Robinson Map Library

Applied Environmental Sciences, Inc.	SITE FEATURES PROPOSED RENOVATION DAIRYLAND GREYHOUND PARK KENOSHA, WI				FIGURE 2
DRAWN	CHECKED	APPROVED	DATE	DRAWING NUMBER	
JWI	MMM	JSF	1/29/99	C16001-92_aerial	

- Performed an ecological resource inventory and exposure p assessment for an area adjacent to and downgradient of a municipal landfill in New York. on this reconnaissance, an assessment of risks to aquatic receptors in a nearby stream wa cted. Because stream flow was intermittent and provided marginal habitat, it was determ at organisms would be minimally exposed to contaminants of concern. No further action quired.

- As part of several site expansions, permit applications for d wetland and/or stream sediments to bury pipelines were completed. Pipeline route identifi included determination of wetland areas and evaluation of the most cost-effective route w imizing environmental impact. Permit approval was granted by state and federal agencies imely fashion.

- Identified and mapped biotic communities, and evaluated xiste e of endangered resources in the vicinity of a metals refinery as part of a RCRA Fa nvest gation in Indiana. Completed a Clean Water Act Section 404(b) permit applicatio dred ing contaminated sediments in adjacent wetland area as part of site remediation.

- Delineated wetlands according to Michigan DNR guideli evalu ted the existence endangered resources, completed state and local wetland permit app ns, a d aided the design of mitigation areas for a proposed single-family subdivision.

- Delineated wetlands and evaluated the existence of endangere ources along the right-of-way for a proposed road construction project in southeast Michiga Discussions with project engineers were conducted throughout the permitting process to mize impacts to regulated wetlands.

- Employed a vapor intrusion model at a former manufactu as p nt site to estimate exposure point concentrations of volatile organic vapors from contam ted s l to residents in an apartment complex. Utilizing the calculated exposure point concentr s, ca cinogenic and non-carcinogenic risks to residents in the apartment complex were detered to e acceptably low.

jwires

- Managed a Soul and Groundwater Investigation of an industrial facility in central Illinois affected with chlorinated volatile organic compounds in dense immiscible phase form.

- Designed a large-scale groundwater extraction system and prepared a Tier 2 Remedial Objectives Risk Assessment for a northern Illinois industrial site affected with chlorinated volatile organic compounds.

EXPERT WITNESS TESTIMONY

- Provided litigation support expert witness testimony in anticipation of cost recovery action associated with tetrachloroethene contamination of a Wisconsin municipal water supply.

- Provided litigation support expert witness testimony in anticipation of cost recovery action associated with phthalate ester contamination in the state of Ohio.

- Provided litigation support expert testimony in anticipation of cost recovery action associated with petroleum hydrocarbon contamination of a private water supply.

LANGUAGE PROFICIENCY

English, German (working knowledge)

PUBLICATIONS /PRESENTATIONS

Mejac, Mark M., 1984, "A Geotechnical Study of Surface Water-Groundwater Interaction in Lake Ellyn, Glen Ellyn, Illinois", unpublished Master's thesis, Northern Illinois University.

McGill University, Montreal, Canada, "Application of Analytical Contamination Transport Modeling to Evaluate Public Health Risks", Guest Lecturer, February 1989.

AIR QUALITY

Mr. Flickinger's air quality experience includes five years with the Wisconsin State Laboratory of Hygiene Air Chemistry Laboratory where he was responsible for monitoring instrument calibrations, and developing special air sampling and analysis programs for fugitive particulate sources. He is experienced in microscopic identification of particulate matter, and has published journal articles in this field. He was also in charge of air compliance for a major midwestern electric utility for a period of eight years, and directed research programs for the measurement of acid rain and the evaluation of indoor air quality. Mr. Flickinger has ten years of environmental consulting experience and has completed PSD, construction and Title V permits in many states. He has air regulatory experience in Wisconsin, Illinois, Indiana, Iowa, Michigan, Ohio, Tennessee, Georgia, Missouri, Pennsylvania, Massachusetts, Alabama, New Hampshire, Connecticut, West Virginia, the South Coast District of California and Washington D.C.

OTHER ENVIRONMENTAL REGULATIONS

Mr. Flickinger's experience with other environmental regulations includes the completion of comprehensive environmental compliance audits for manufacturing facilities, foundries, energy facilities, RCRA permitted facilities and retail operations. He has also directed remedial investigations and remediation projects under CERCLA, RCRA Corrective Action and state spill and UST clean-up programs. Mr. Flickinger has worked with several large corporations to develop internal regulatory compliance programs, and has been involved in the evaluation of environmental compliance of facilities located in Wisconsin, Minnesota, Michigan, Illinois, Indiana, Ohio, New York, Pennsylvania, Missouri, Iowa, Kentucky, North Carolina, New Jersey, Massachusetts, Tennessee, North Dakota, Georgia, California, Oklahoma, and Ontario Canada. In addition, he has conducted acquisition environmental audits for facilities in France, and Spain, and directed complex dispersion modeling studies for two large energy facilities located in Taiwan R.O.C. Mr. Flickinger is well versed in a broad range of environmental regulations including NPDES/Stormwater Permitting, RCRA, CERCLA, SARA, TSCA, FIFRA and state environmental policy act siting regulations.

KEY PROJECTS - ENVIRONMENTAL COMPLIANCE AUDITS, TSCA, FIFRA, RCRA AND CERCLA

- Development of a multi-media internal audit program for a major Wisconsin gas utility, and completion of site audits for example sites as part of a company personnel training program.

- Environmental and OSHA audit of a gas and electric utility, Wisconsin.

- Environmental and OSHA compliance audit of all manufacturing company facilities, with plants located in Indiana, Michigan, Kentucky, North Carolina, Illinois, Georgia and North Dakota.

- Pre-acquisition audit of two former steel facilities located in East Chicago, Indiana.

- Pre-acquisition audit of a multi-facility resin manufacturing company, with operations in Illinois, Ohio and California.

- Multi-media compliance audit of four grey iron foundries, Wisconsin.

- Pre-acquisition audit of five heat-set web off-set printing facilities located in Illinois, Connecticut, Florida and Washington D.C.

- Completion of audits in Wisconsin for Ford Motor Company, using the Ford property acquisition protocol.

- Evaluation of pesticide contamination at a fertilizer and chemical dealership, Wisconsin.

- Evaluation and closure of a pesticide and dioxin contaminated site at a former aerial spray loading area, Wisconsin.

- Evaluation of soil PCB contamination at closed substation sites, Wisconsin.

- RCRA Corrective Action at a hazardous waste incinerator, and a TSD facility at an aircraft manufacturer, Illinois and Connecticut.

- CERCLA remedial investigations at the KL Avenue Landfill, Michigan, the Lemberger Landfills, Wisconsin, and the Garden States Cleaners/South Jersey Clothing site, New Jersey.

The Phase I ESA concluded that possible hazardous wastes generated include veterinary medical wastes and a recycled solvent parts washer; it was recommended that additional information be obtained to verify compliance with possible RCRA hazardous waste generator permitting requirements. A review of veterinary medical waste manifest documents reveals that (for 1998) 63 pounds of veterinary/medical wastes were transported offsite by Prarie Land of Wisconsin, Inc. (of Poynette, Wisconsin) and BFI Medical Waste (of Muskego, Wisconsin). These wastes were then treated by BFI Medical Waste Systems of MN, Inc. (of St. Paul, Minnesota) and disposed of at Pine Bend Landfill, Inc. of Inver Grove Heights, Minnesota. These wastes are not classified as RCRA hazardous waste based on federal or state regulations, and appear to be properly managed at the DGP site.

A review of Safety-Kleen waste manifests for 1998 reveals that 36 gallons of RCRA hazardous waste (waste classification D001, D0018, D0039 and D0040) were generated for this year by the DGP facility. These wastes are transported to Safety-Kleen, Inc. in Waukesha, Wisconsin for treatment. This rate of hazardous waste generation results in the DGP facility being classified as a small quantity generator of hazardous waste according to state RCRA regulations.

The Phase I ESA recommended that additional inquiry be conducted concerning the former Town of Somers Landfill and associated remnants of several 55-gallon drums[1] and monitoring wells. Based on telephone conversations with the Kenosha County Planning Commission and the Wisconsin Department of Natural Resources (WDNR) on August 27 and 30, 1999 (respectively) no further information is available. AES has, however, obtained a copy of a January 1990 Giles Engineering Associates, Inc. (GEA) report entitled "Geo-Environmental Survey and Preliminary Hazardous Material Presence Study, Proposed Dairyland Greyhound Park". This report documented investigative activities designed to evaluate the possible presence of hazardous materials that could

[1] Based on a telephone conversation with Mr. Dennis Kelly of DGP on September 7, 1999, the remnants of the 55-gallon drums were transported off-site by DGP in May 1999 for scrap metal re-cycling by Miller Compressing of Milwaukee, Wisconsin.

represent an environmental liability at the site. The report indicated that, based on a review of boring logs from previous subsurface investigations, there was no evidence of any unusual odors or discolorations in any of the collected soil samples that would be indicative of the presence of hazardous materials. The GEA report also documented the installation and groundwater sampling of five monitoring wells (with total depths ranging from 14.4 to 22 feet below ground surface) as part of their investigation. These monitoring wells were installed between 100 feet and 500 feet to the west, south and east of the abandoned Town of Somers landfill, and collected groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs), semi-VOCs, polychlorinated biphenyls (PCBs), pesticides and metals. The only detected parameters were the metals barium and arsenic, both of which were present at concentrations less than their respective Wisconsin Administrative Code Chapter NR140 Preventive Action Limits.

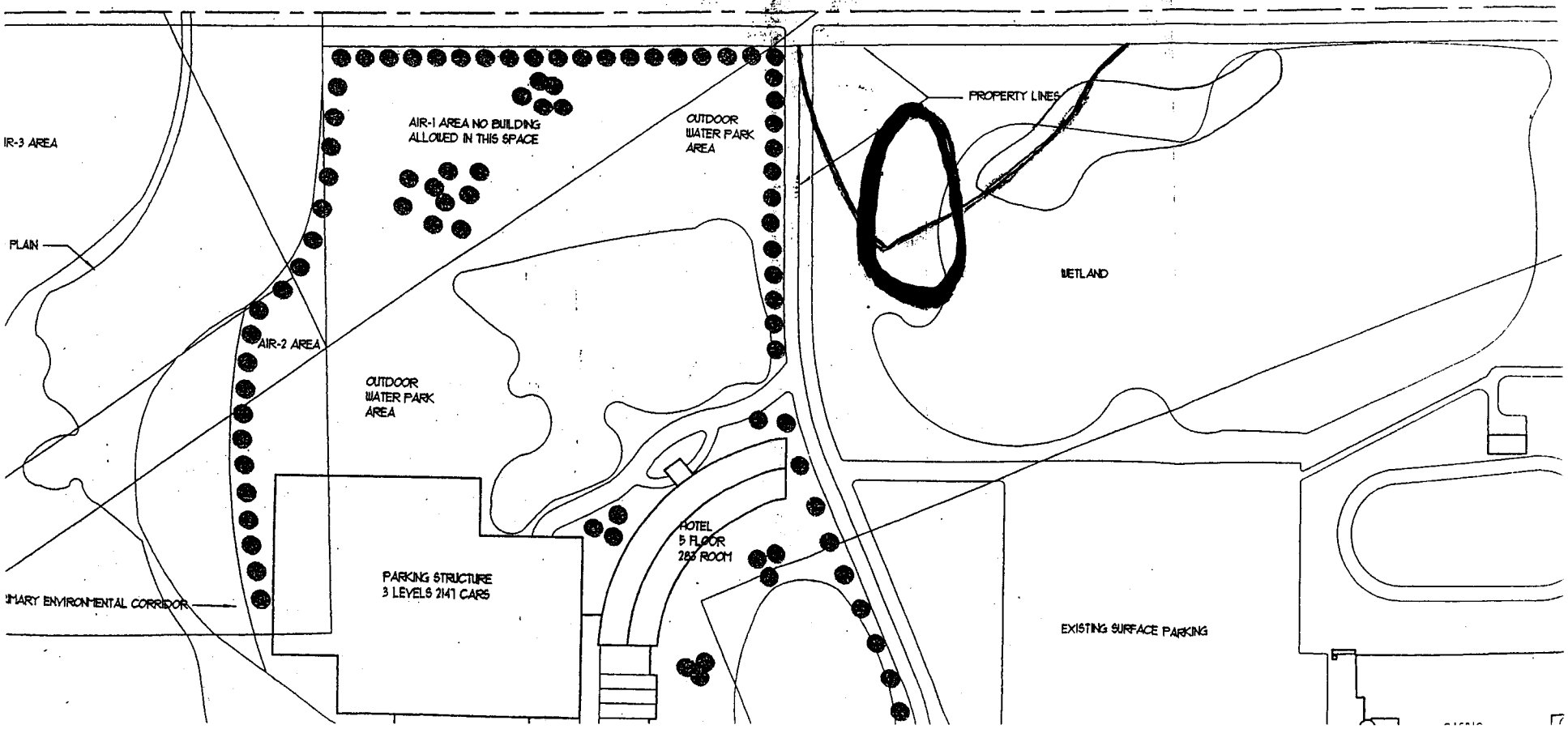
The GEA report concluded that "it should be noted that the enforcement standards and preventive action limits for some of the compounds included in the analysis are below the detection limits of the equipment used for this type of screening procedure. Therefore, it is possible for compounds to be present in the groundwater above preventive action and enforcement standards set by the State of Wisconsin which were not detected through the analytical screening as a result of equipment limitations. Considering all the compounds included in the screening were below detection or had measurable concentration levels below established guidelines, additional study or groundwater sampling rounds are not considered warranted". It is unclear to us whether or not the January 1990 GEA report was ever submitted to the WDNR. However, based on the information provided in the GEA report, it is AES' opinion that it is unlikely that the WDNR would require additional environmental investigations associated with the abandoned Town of Somers landfill.

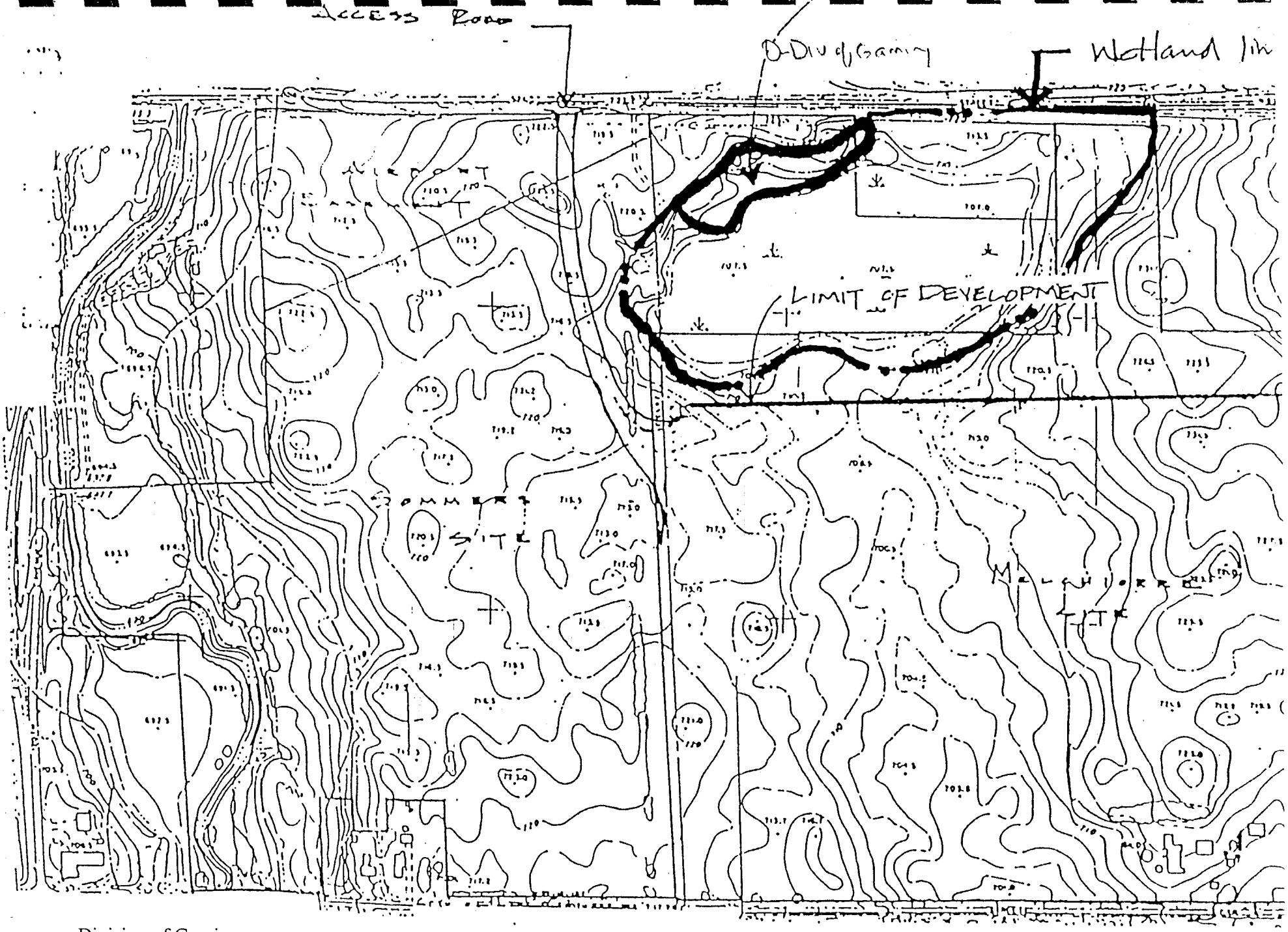
With respect to electrical transformers present at the site, the Phase I ESA recommended that additional information be obtained regarding possible PCBs content. Based on information provided by Wisconsin Electric Power Company (telephone

[redacted] WDNR solid Waste files - Sturtevant WI (3/15/91)

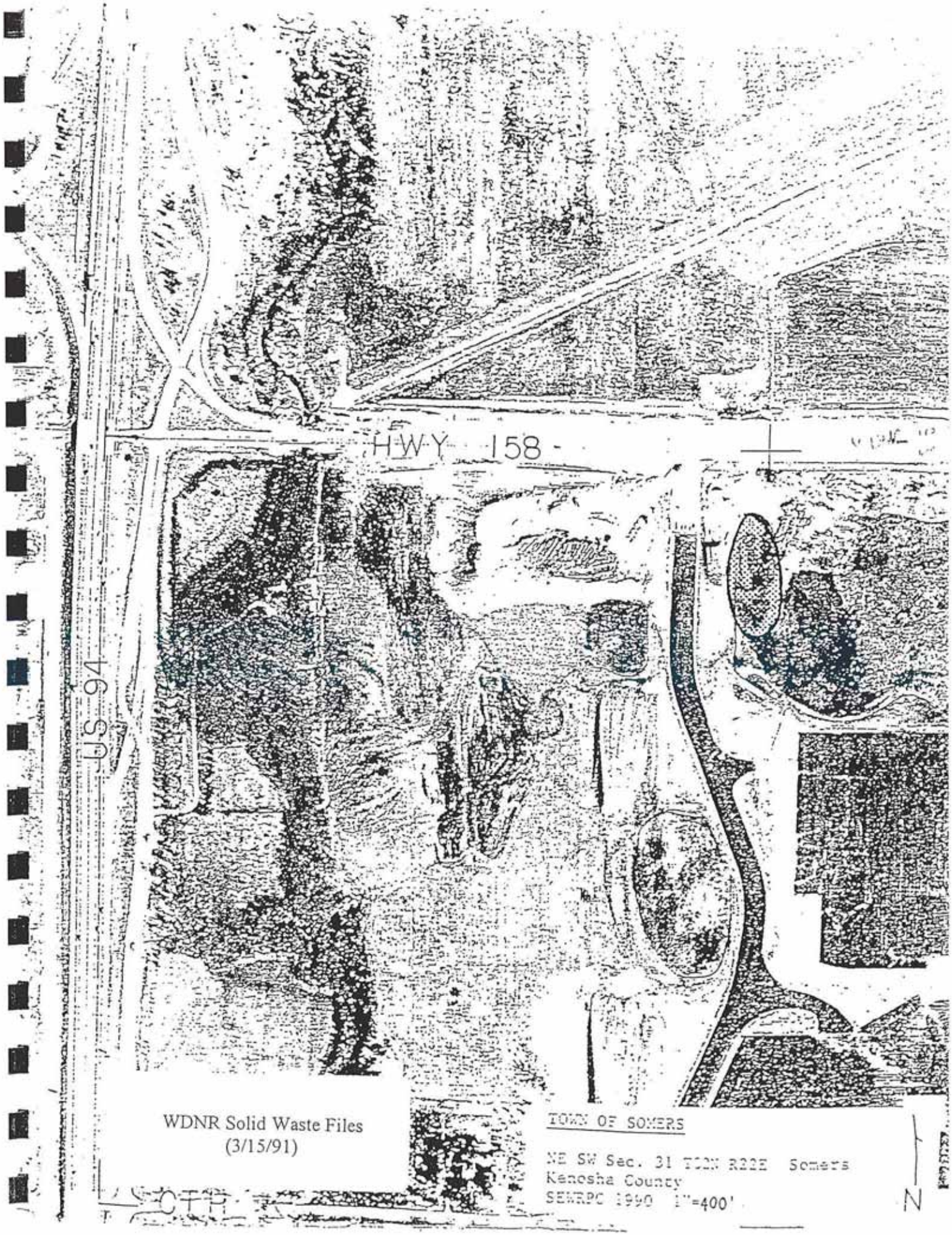
[redacted] Town of Somers file info. (5/16/89)

Div. of Gaming & EIS final decision document (5/18/89)





OLD SOMERS DUMP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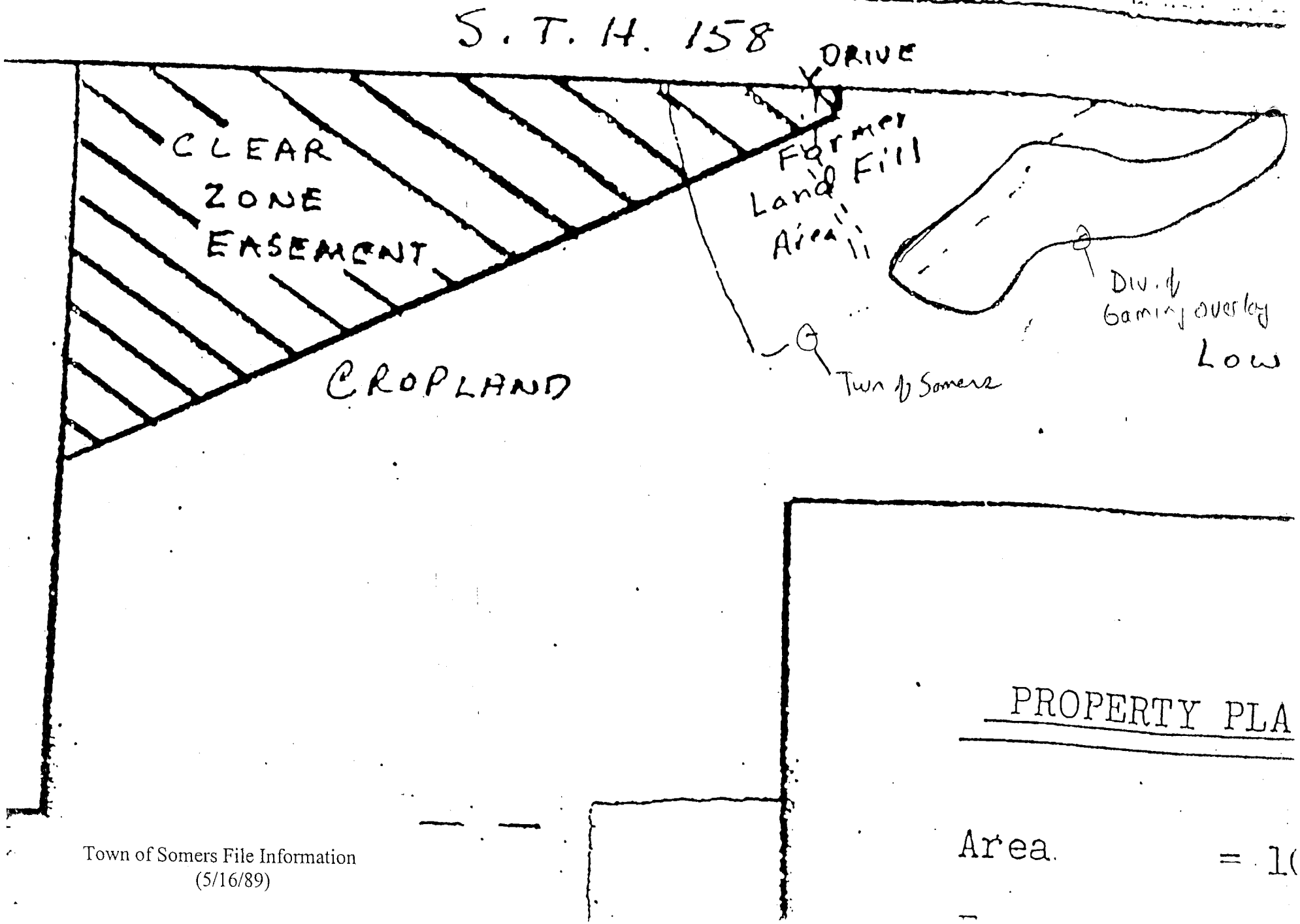
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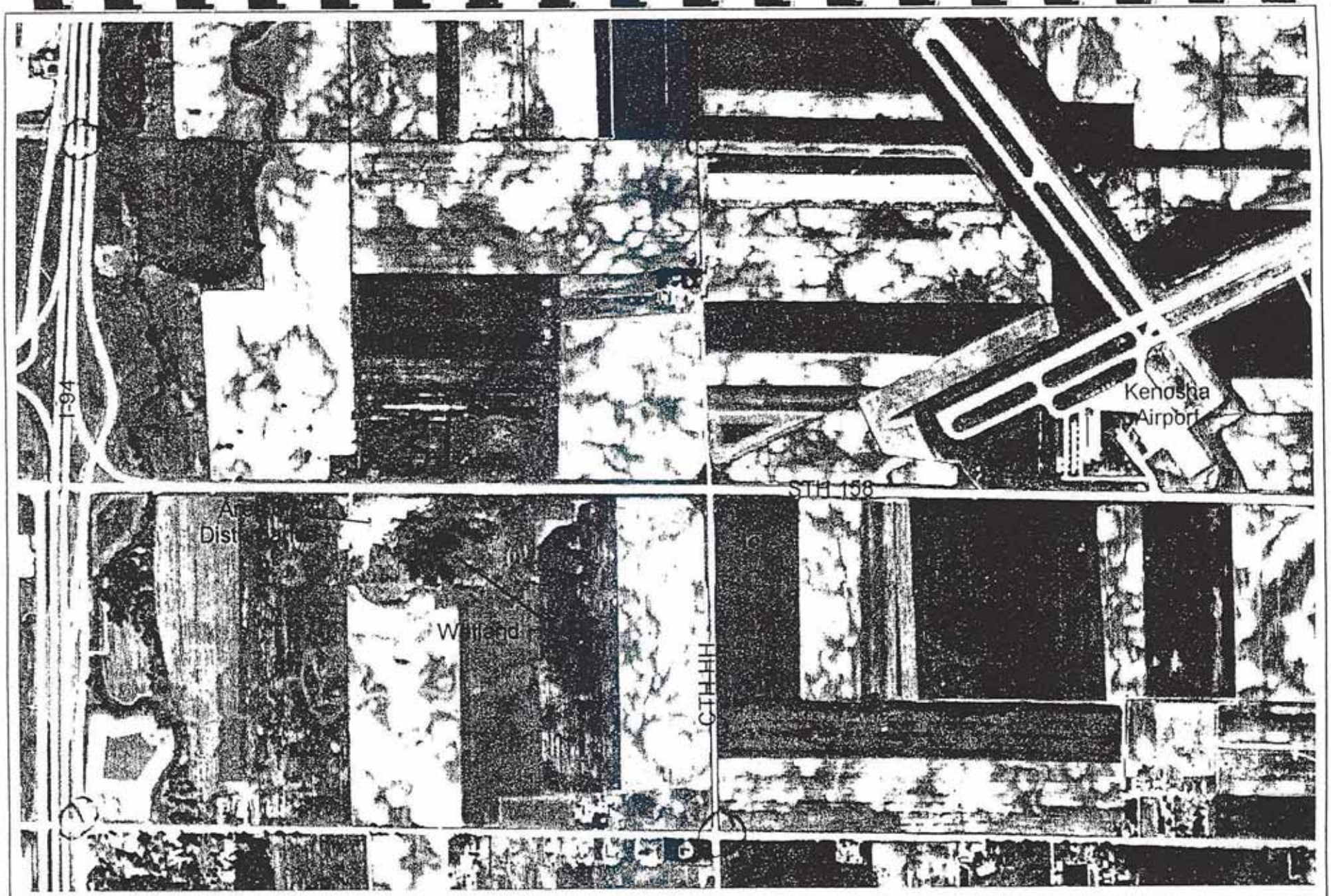

Adapted from an aerial photo dated June 28, 1969.
Photo was borrowed from the University of
Wisconsin Robinson Map Library.

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Applied Environmental Sciences, Inc.		APPROXIMATE LANDFILL LOCATION RELCO, INC. CHICAGO, IL		
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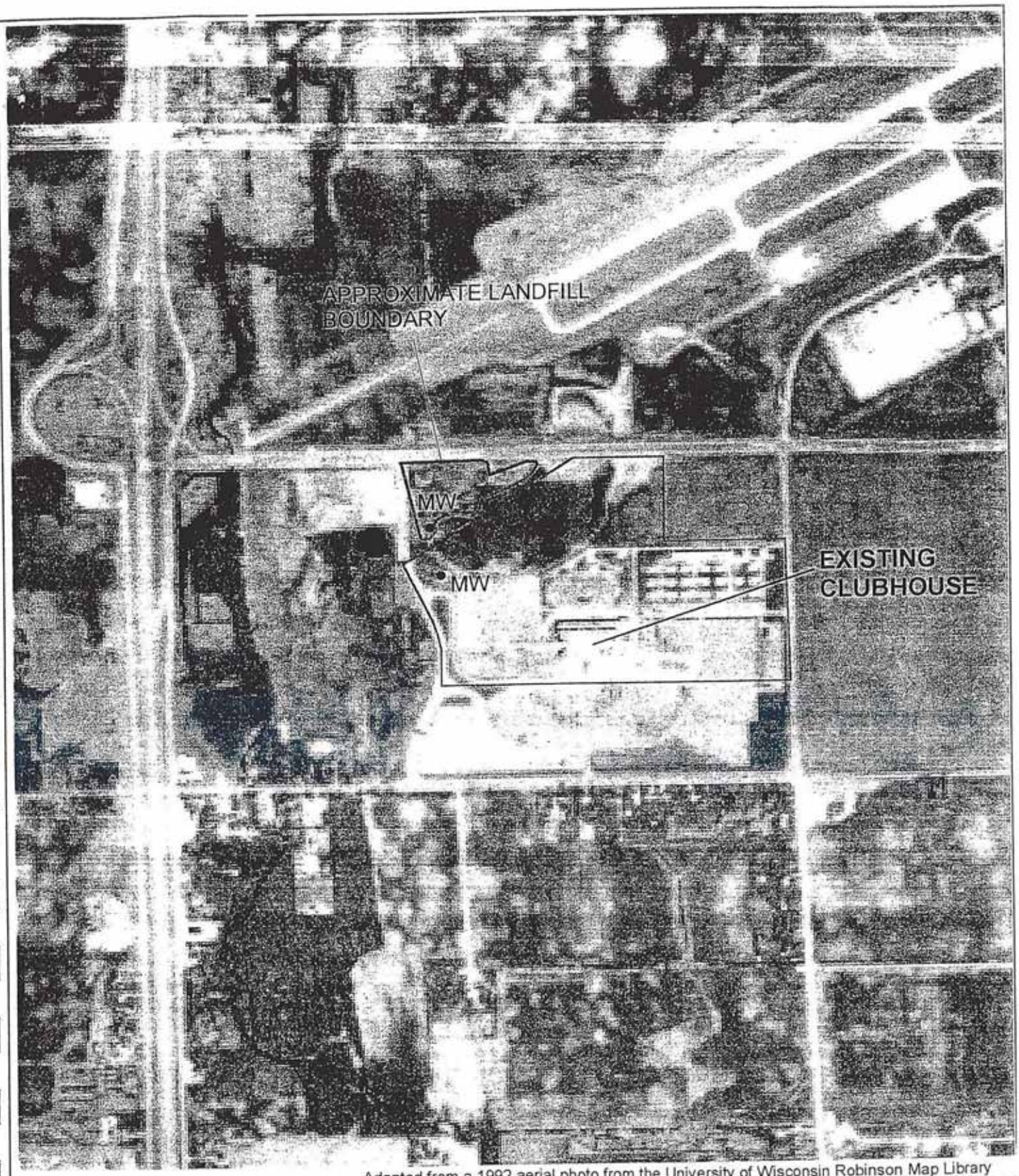

Adapted from a 1992 aerial photo from the University of Wisconsin Robinson Map Library

Approximate Boundary of Trust Land

APPROXIMATE LOCATION OF MONITORING WELL

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Applied Environmental Sciences, Inc.	APROX. LANDFILL AND WELL LOCATIONS PROPOSED RENOVATION DAIRYLAND GREYHOUND PARK KENOSHA, WI				FIGURE 4
DRAWN	CHECKED	APPROVED	DATE	DRAWING NUMBER	
CCA			2/23/00	C16001-92_aerialr3	

APPENDIX G

GILES ENGINEERING ASSOCIATES, INC. 1990. GEO-ENVIRONMENTAL PROPERTY SURVEY AND PRELIMINARY HAZARDOUS MATERIAL PRESENCE STUDY PROPOSED DAIRYLAND GREYHOUND PARK (DGP) JANUARY 5TH, 1990.

GRAEF
ANHALT
SCHLOEMER
and Associates Inc.

TRANSMITTAL FORM

One Honey Creek Corporate Center
125 South 84th Street, Suite 401
Milwaukee, Wisconsin 53214-1470
Phone (414) 259-1500
FAX (414) 259-0037
www.gasai.com

received
7/12/04

Date: June 7, 2004

To: Mohegan Tribe of Indians of Connecticut
5 Crow Hill Road
Uncasville, CT 06382

Re: Menominee Eagle Casino
-Town of Summers Landfill
-Geo-Environmental Property Survey

Attn: Jeanette Ziegler

GAS Job #: 20040011.00

We are sending you: ☒ Herewith ☐ Under Separate Cover

COPIES	NO.	DATE	DESCRIPTION
1		3-23-90	Giles Engineering-Geo-Environmental Property Survey

☐ Drawings
☐ Specifications
☐ Submittals
☐ Shop Drawings

☒ For your information
☐ For your approval
☒ For your use
☐ Reviewed w/ no comments

☐ Reviewed w/ comments as noted
☐ Amend & resubmit
☐ Rejected
☐ Other _____

REMARKS: Attached is a copy of the report prepared by Giles Engineering Associates, Inc. that is in support of the Town of Summers Landfill Memorandum that we issued on June 2, 2004.

Sincerely,

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.

Pat Kressin, ASLA
Associate

Copy to: Dennis Troha - Kenesah Gaming Development, LLC - 1709 32nd Avenue - Kenosha, WI 53144
Peter Fabian - Jeter Cook & Jepson Architects, Inc. - 450 Church Street - Hartford, CT 06103
David Zweig - A.E.S. - 2021 "N" Street, Suite 200 - Sacramento, CA 95814
File

MILWAUKEE, WI
LOS ANGELES, CA

GILES ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, GEO-ENVIRONMENTAL, GEO-HYDROLOGICAL
AND CONSTRUCTION MATERIALS CONSULTANTS

N8 W22350 JOHNSON ROAD / WAUKESHA, WI 53186
414-544-0118, FAX: 414-549-5868

March 23, 1990

RECEIVED
MAR 27 1990
D.N.R. SED Hqtrs.
Milwaukee, WI

State of Wisconsin
Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Box 12436
Milwaukee, WI 53212

Attention: Mr. Frank Schultz

Dear Frank:

Enclosed is a report we prepared for the Dairyland dog track in Kenosha, a portion of which was adjacent to the former Town of Sommers Landfill. The Appendix of the report was much larger than enclosed. We enclosed all information pertaining to the landfill.

The monitoring wells were installed in compliance with NR141, but have not been registered because we tend to abandon. If you prefer that they be registered and not abandoned, please let me know.

Very truly yours,

GILES ENGINEERING ASSOCIATES, INC.

Gregory A. Konicek

Gregory A. Konicek
Geo-Environmental Dept. Manager

RECEIVED
MAR 27 1990
D.N.R. SED Hqtrs.
Milwaukee, WI

GEO-ENVIRONMENTAL PROPERTY SURVEY AND PRELIMINARY HAZARDOUS MATERIAL PRESENCE STUDY

PROPOSED DAIRYLAND GREYHOUND PARK
I-94 AND STH 158
KENOSHA, WISCONSIN
GEA PROJECT NO. E-891207

FOR
THE RIME COMPANIES INC.
BIRMINGHAM, ALABAMA

GILES ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, GEO-ENVIRONMENTAL, GEO-HYDROLOGICAL
AND CONSTRUCTION MATERIALS CONSULTANTS

MILWAUKEE, WI
LOS ANGELES, CA

GILES ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, GEO-ENVIRONMENTAL, GEO-HYDROLOGICAL
AND CONSTRUCTION MATERIALS CONSULTANTS

N8 W22350 JOHNSON ROAD / WAUKESHA, WI 53186
414-544-0118, FAX: 414-549-5868

January 5, 1990
(Revised)

The Rime Companies
500 Robert Jenison Road
Birmingham, Alabama 35209

Attention: Mr. Chester L. Parker, Jr.
Vice President

Subject: Geo-Environmental Property Survey and
Preliminary Hazardous Material Presence Study
Proposed Dairyland Greyhound Park
I-94 and STH 158
Kenosha, Wisconsin
GEA Project No. E-891207

Dear Mr. Parker:

In accordance with your request, Giles Engineering Associates, Inc. (GEA) has completed a survey of the potential for hazardous material presence resulting from the manufacture, storage, usage, or disposal of hazardous materials on and/or affecting the above referenced site that might create soil and/or groundwater contamination and a "clean-up" liability. In addition, because of environmental concerns with the "landfill" use of a parcel adjacent to a portion of the above mentioned site, a Preliminary Hazardous Material Presence Study was performed. A summary of the information and conclusions obtained from this survey is presented below and is discussed in greater detail in the accompanying report. This summary, therefore, should be read in context with the complete report. Due to the volume of information presented, copies of the previously performed boring logs reviewed in the evaluation, are presented in a second Appendix under separate cover.

1. The subject site is bounded to the north by State Trunk Highway (STH) 158, to the south by County Trunk Highway (CTH) K, and to the east by CTH HH, and is located in the Town of Somers, Kenosha County, Wisconsin, and covers an area of about 200± acres. Parcel I of the subject site is

currently under development with the Dairyland Greyhound Park.

2. A visual survey of the site; an evaluation of past and present large-scale aerial photography and the United States Soil Conservation Service Soil Survey of Kenosha and Racine Counties, Wisconsin; a review of pertinent environmental files maintained by state, county, and local units and agencies of government as well as discussions with staff members of the aforementioned agencies and private citizens; and a review of the boring logs from previous subsurface explorations performed on the site by GEA (GEA Project Nos. 890637, 890637-1, 890637-2, 890659, and 890659-2) and by Wisconsin Testing Laboratory (Job No. S-8904), were all included to evaluate the potential for the presence of hazardous materials on and/or affecting the property. In addition, a Preliminary Hazardous Material Presence Study was included as an element of this study. Seven test pits were excavated, five test borings were drilled, and five groundwater monitoring wells were installed at the test boring locations. The test pits and borings/wells are located near the perimeter of an abandoned "landfill" which is located adjacent to the north central property lines of the subject site. The Preliminary Hazardous Materials Presence Study was performed to determine the existing chemical and physical conditions of soil and groundwater on the subject site with respect to hazardous material constituents which may have migrated onto the subject site from the adjacent landfill.

3. A vapor analysis was performed on each soil sample collected from the test borings using a Photoionization Detector (PID) equipped with a 10.2 eV lamp calibrated to benzene, which can detect minute concentrations (in the parts per million range) of certain volatile vapors. All non-detectable readings were displayed by the instrument on the collected soil samples. In addition, groundwater samples collected from each of the monitoring wells installed for this study were submitted for a chemical screening consisting of a RCRA metal panel, a volatile organic compound (VOC) panel, a semi-volatile organic compound panel, a pesticide panel, and for the determination of PCB concentration levels in water. The results of the chemical screening indicate that the concentration levels of all constituents analyzed were below laboratory detection limits with the exception of the RCRA metal screening. Measurable concentration levels of

arsenic were encountered from groundwater samples collected from one monitoring well and measurable concentration levels of barium were encountered in groundwater samples collected from all five monitoring wells. The measured concentration levels are all below applicable state guidelines and therefore do not warrant further exploration.

4. Test pits performed along the western ridge of the "landfill" indicated that the "landfill" extended on a portion of the subject site. On the basis of the test pits, a new survey of the property was prepared in order to separate the subject site from the adjacent "landfill". The "landfill" on any portion of the subject site as depicted in the revised Plot of Survey prepared for the property by Ruekert Mielke and Associates, dated December 18, 1989.

5. Based on the services performed to date, there are no indications in the information collected and reviewed by GEA of the presence of hazardous materials on and/or affecting the subject site that may create a soil and/or groundwater contamination problem and a subsequent "clean-up" liability.

GILES ENGINEERING ASSOCIATES, INC

We appreciate the opportunity to be of service on this project. If there are any questions regarding the information contained herein, or if we can be of any additional service, please feel free to call at your convenience.

Very truly yours,

GILES ENGINEERING ASSOCIATES, INC.

Katherine M. Juno
Environmental Geologist

Gregory A. Konicek
Geo-Environmental Department
Manager

Terry L. Giles
President

Enclosure: GEA Project No. E-891207
alk
JAN14
BU9

GEO-ENVIRONMENTAL PROPERTY SURVEY
AND
PRELIMINARY HAZARDOUS MATERIAL PRESENCE STUDY

PROPOSED DAIRYLAND GREYHOUND PARK
I-94 AND STH 158
KENOSHA, WISCONSIN
GEA PROJECT NO. E-891207

INTRODUCTION

The subject property occupies an approximate 200± acre tract of land which is bounded to the north by State Truck Highway (STH) 158, to the south by County Trunk Highway (CTH) K, to the west by Interstate 94, and to the east by CTH HH and is located in the Town of Somers, Kenosha County, Wisconsin. Part of the subject property is currently being developed as the Dairyland Greyhound Park.

It was requested by The Rime Companies that the subject site, be surveyed by Giles Engineering Associates, Inc. (GEA) for signs of environmental mismanagement for the presence of hazardous materials that may have been manufactured, stored, used, or disposed on-site and can potentially result in soil and/or groundwater contamination and a "clean-up" liability. Observations of the adjacent property uses was also included as an element of this study.

The scope of services, therefore, included: A visual evaluation of the site for evidence of possible hazardous materials; a review of state, county, and local regulatory agency records and documents for the subject property and general vicinity; interviews with appropriate agency personnel; a study and review of available large-scale aerial photography, United States Department of Agriculture Soil Conservation Service Soil Survey Kenosha and Racine Counties, and United States Geological Survey 7.5 minute quadrangle maps; personal and/or telephone interviews with staff members of state, county, and local units and agencies of the government, as well as private citizens, to obtain additional information which may have relevance to the potential for hazardous material mismanagement on the property and in the general vicinity; a review of boring logs from previous subsurface explorations performed on the subject site by GEA and others; and an evaluation of the information collected. In addition, a Preliminary Hazardous Material Presence Study was included as an element of this study which included excavating seven (7) test pits, and drilling five (5) test borings near the perimeter of an abandoned "landfill" (disposal of miscellaneous materials by surface dumping into a low, swamp area along the roadway) located

adjacent to the north central property lines of the subject site. A groundwater monitoring well was installed at each of the five (5) test boring locations, and groundwater samples were collected and submitted for chemical analysis for screening of a portion of the Environmental Protection Agency (EPA) Target Compounds Listing including; volatile, semi-volatile, PCB, and pesticide compounds and an analysis for the 8 RCRA metals.

SITE LOCATION

The site of the proposed Dairyland Greyhound Park is bounded to the north by STH 158, to the south by CTH K, to the west by Interstate 94 and to the east by CTH HH and covers an area of approximately 200± acres. The subject site lies within the south half of U.S. Public Land Survey Section 31, Township 2 North, Range 22 East, Town of Somers, Kenosha County, Wisconsin. The generalized location of the subject site is shown on Map 1 enclosed with this report.

SITE DESCRIPTION

Parcel I of the subject property, as depicted by the Ruekert, Mielke and Associates survey, is currently being developed as the Dairyland Greyhound Park. Structures proposed to occupy the facility are currently in preliminary construction phases, including foundation construction and structural steel erection. The remainder of the site has been extensively graded, and an asphaltic concrete pavement has been recently constructed for proposed parking areas. The western parcel consists of vacant, historically agricultural land, in which portions have been recently graded. No remnants exist of the former farm house and associated out-buildings located near the southeast corner of CTH HH and K. However, it is understood through interviews with local residents that the well which serviced the farm has not been abandoned.

Portions of the surrounding area are developed with commercial and residential structures. The structures and facilities lying within a 1/4± mile distance of the subject site include the following:

a) An area of vacant land containing low land or marsh type vegetation is located north of and adjacent to Parcel I of the subject site. This area is the location of the former Town of Somers "landfill" where miscellaneous materials are dumped on the surface into the low area from the adjacent roadway for disposal. Additional vacant, undeveloped land,

some of which is currently being graded is located opposite is to the north of the subject site and "landfill" area, across adjacent STH 158. This property is owned by the Kenosha County Airport.

b) A 3± acre homestead and a single-family residential structure are located to the south of Parcel II and is surrounded on three sides by Parcel II of the subject site. CTH K is located immediately south of and adjacent to the remainder of the subject property. Residential structures are located opposite the subject site across CTH K and include a mobile home park, a farm house and associated farm buildings, and single-family residential structures. Small retail facilities exist further south along the I-94 frontage road and include an office building and adult book store.

c) CTH HH is located east of and adjacent to the subject site. Vacant, undeveloped land is located opposite the subject site across CTH HH. The Kenosha County Airport is located northeast of the subject site adjacent to the northeast corner of the intersection of STH 158 and CTH HH. Structures for the airport, excluding an access drive, are all located greater than a 1/2± mile distance from the subject site.

d) Vacant land, a single-family residential structure, the Kilbourn Road Ditch and Interstate 94 are located west of and adjacent to the subject site. Additional areas of low land or marsh type vegetation were observed in the undeveloped area located west of the site. A small retail store and small tool shop are also located west of the subject site at the southwest corner of the intersection of CTH K and the I-94 frontage road.

SITE GEOLOGY

The USDA Soil Survey for Kenosha and Racine County, issued December 1970 was reviewed and indicates that the subject site is covered by silty clays to clays with low to very low permeabilities. The "landfill" adjacent to the north is covered by Houghton Muck which consists of organic material, which is erodeable and oxidizes rapidly with very little sand and gravel content. In addition, Water Resources of Wisconsin Lake Michigan Basin, published by the USGS (1973), was reviewed. The review indicates that the soils on the subject site originated from glacial lake deposits and end moraines and consist of till and

stratified clay, silt and sand to depths of approximately 100± feet. Underlying materials are comprised of consolidated bedrock consisting of undifferentiated dolomite to a depth of 300± feet, shale to a depth of 500± feet, more dolomite to a depth of 800± feet, and sand stone to a depth of 1,600± feet.

SUBSURFACE EXPLORATION

Five (5) soil test borings were performed for the Preliminary Hazardous Material Presence Study to depths ranging from 16 to 23½± feet below the existing ground surface, and groundwater monitoring wells were installed at each of the boring locations. In addition, seven (7) test pits were excavated to depths ranging from 3± to 10± feet below the existing ground surface. It is recommended that the test pit excavations be recompacted in spring, 1990, then topsoiled and seeded to restore the original groundcover. Copies of the Test Boring Logs (Record of Subsurface Exploration); a Test Pit, Boring, and Monitoring Well Location Plan (Figure 1); and Monitoring Well Diagrams (Figures 2 through 5) are enclosed in the Appendix. The boring elevations were determined by conventional instrument leveling methods subsequent to the drilling and well installation operations, and are referenced to an established spot elevation of El. 724.81, and are presumed accurate to within 0.1± foot. The ground surface elevations at the test pit locations were interpolated from the grading plan prepared by Ruekert Mielke and Associates for the subject site and provided for our use by Ruekert Mielke and Associates, and are presumed accurate to within 1± foot, or one contour interval.

The field exploration included excavating seven (7) test pits utilizing a backhoe to depths ranging from 3 to 10± feet below the existing ground surface. The test pits were performed to determine the western extent at the landfill. In addition, the field exploration included performing test borings utilizing 2-1/4 and 3-1/4 inch inside diameter hollow stem augers and performing Standard Penetration Tests (SPT) with split spoon samplers in general accordance with ASTM specifications. All the augers and split spoon samplers used for this project were properly steam cleaned and rinsed with distilled water between each test boring per standard geo-environmental testing procedures. The split spoon sampler was cleansed in a solution of Trisodium Phosphate (tsp) and water, and rinsed in clear water, then rinsed a second time in distilled water between each sampling location. Soil samples were obtained from the SPT for classification and vapor analysis. The samples were placed in new 8oz glass jars with lined metal lids. Since the ambient air temperature was between 25 and 30°F, at the

time of subsurface exploration it was not necessary to place the samples in an ice chest. The field exploration program was performed under the direction of a graduate geologist and supervised in the field by a senior environmental technician for proper geo-environmental quality control and assurance. Soil samples were classified in general accordance with the Unified Soil Classification System (ASTM D-2488-75).

In conjunction with standard geotechnical and geo-environmental field and laboratory testing, a vapor analysis to detect the presence of volatile vapors was conducted on soil samples utilizing a Photoionization Detector (PID) equipped with a 10.2 eV lamp and calibrated to benzene, which can detect minute concentrations of certain volatile vapors. The vapor analysis was performed in the GEA laboratory prior to classification. The samples were allowed to warm to room temperature prior to analysis. All non-detectable readings were displayed by the instrument on the collected soil samples. The results of the vapor analysis are indicated on the test boring logs.

Monitoring wells were installed at the five (5) boring locations. The observation wells consist of 2 inch diameter, 0.010 inch machine slotted PVC flush threaded screen at the bottom portion of the well with a 2 inch diameter unslotted PVC riser extending above the surface. The PCV was manufacturally wrapped and remained in cellophane up to the time of installation. A washed silica sand, standard 20/30 grade, was utilized as a filter medium in the annular space between the slotted section of the PVC pipe and the bore hole. A bentonite chip seal was then placed on top of the filter medium and wetted to reduce the potential of down-hole migration of surface waters into the sampling zone. The top of the well was constructed with a steel protective locking cover embedded in concrete to protect the wells from vandalism and disturbance. Sketches of the as-built installation of the monitoring wells are included in the Appendix, Figures 2 through 5.

A teflon bailer was utilized for well development. With the exception of Monitoring Well No. 2, the monitoring wells were developed by bailing the well dry the same day of installation. Monitoring Well No. 2 did not produce water until three days after installation, at which time it was also developed in a similar fashion by bailing dry. The monitoring wells were therefore purged dry with a teflon bailer prior to sampling. Once recharge was sufficient, groundwater samples were collected with a second teflon bailer. Water samples were Both bailers were properly cleaned at the laboratory and transported to the site in aluminum foil per standard geo-environmental procedures. The bailers were cleaned at

the laboratory with a clean water and TSP solution, rinsed in clean water, rinsed with a de-ionized water, rinsed with hexane, rinsed with de-ionized water, rinsed with nitric acid, rinsed three times with deionized water, baked and then wrapped in aluminum foil. In the field, the bailers were cleansed in a clean water and tsp solution, rinsed in clean water, and again rinsed in distilled water between well locations. Rubber surgical gloves were worn while handling the bailers; aluminum foil was used when the bailers were at rest, and clothesline consisting of 100 percent cotton was utilized to lower the bailers to the water level. New gloves, aluminum foil, and clothesline were used for each well location.

Collected samples were placed in laboratory approved containers and kept in a controlled environment. Collected groundwater samples for the 8 RCRA metal analysis were filtered in the field through a 0.45 microfilter and preserved with nitric acid. Along with samples collected from the wells, blank water samples were collected to serve as quality assurance checks during well installation and sampling procedures. None of the blanks were subjected to analytical testing because no unusually high chemical concentrations were determined in any of the samples that may be considered erroneous. The dates and times of sample collection were recorded on the sample containers and again in the sampling log. Standard "chain of custody" requirements were followed at all times per conventional geo-environmental testing procedures. A chemical screening was performed on the collected groundwater samples in general accordance with Appendix 7A of the EPA publication titled A Compendium of Superfund Field Operation Methods. The samples were diluted prior to the screening to protect analytical equipment reduce cost, and expedite the procedures, but were still considered to provide results within a reasonable tolerance for the purpose of this report which was to determine the presence at a potential problem, not the evaluation of a known problem where a lower detection tolerance would be warranted.

SUBSURFACE CONDITIONS

The subsurface exploration by test pit excavation near the western border of the adjacent landfill was performed to determine the lateral extent of the "landfill" and whether any of the "landfill" materials extended onto the subject property. The test pits encountered about 1 to 10± feet of fill or possible fill material of variable soil content including organic matter, concrete fragments, asphalt fragments, metal fragments, paper, leather, and wood. No fill material was encountered at Test Pit No. 1, located near the southernmost border of the landfill area.

Approximately 24± inches of black clayey silt topsoil underlain by gray-brown clayey silt was encountered at Test Pit No. 1 location. Underlying naturally occurring soils encountered at other test pit locations consisted of gray and brown mottled silty clay. Soil conditions encountered at the test boring locations, located on the subject site near the perimeter of the "landfill" area, indicate that the subject site is covered by about 1± foot of fill consisting of yellow-brown silty clay mixed with black slightly organic clayey silt. The underlying naturally occurring soils generally consist of variable and non-uniform interbedded layers of yellow-brown mottled gray silty clay, yellow-brown sandy silt, gray mottled yellow-brown clayey silt and silty clay, brown and yellow-brown silty clay, and gray silt, silty clay, and clayey silt, to 23½± feet, the maximum depth explored. No unusual colors or odors which may be indicative of hazardous material presence were observed in the soil samples collected from the test borings or test pit excavations.

The subsurface conditions described herein represent a generalized profile interpreted from the field exploration and are presented for ease of report interpretation. A more detailed description of the subsurface conditions encountered at the boring locations can be found on the Test Boring Logs enclosed in the Appendix.

RESULTS OF GROUNDWATER MONITORING

Free water was encountered within the groundwater monitoring wells at elevations ranging from El. 707.52± to El. 713.46±. On the basis of the groundwater elevations in the wells, the directional flow of groundwater is considered to be in a southwesterly direction towards the Kilbourn Road Ditch, which flows in a southerly direction and empties into the Des Plaines River. However, the groundwater levels on this site were determined from limited monitoring and are expected to be subject to fluctuation caused by seasonal variation and precipitation. In addition, groundwater levels may vary and accurate measurements are difficult to obtain in fine grain soils such as the silt and clays encountered at the test boring locations.

CHEMICAL LABORATORY ANALYSIS

Groundwater samples obtained from each of the monitoring wells installed for this study were submitted for a screening consisting of a volatile organic compound (VOC) panel, a semi-volatile organic compound panel, a pesticide panel, and for the determination of concentration levels of PCBs in water. In addition, an analysis

for the 8 RCRA metals and a second analysis for VOCs was performed. The second analysis for VOCs was performed with lower detection limits in accordance with EPA method 601/602. The results of the chemical analysis indicate concentration levels of all constituents analyzed, with the exception of the metals, below laboratory detection limits. The results of the 8 RCRA metals are summarized and discussed below.

	Detection Limit	WI	W2	W3	W4	W5
Arsenic	3	ND	ND	3	ND	ND
Barium	10	190	170	190	150	110
Cadmium	5	ND	ND	ND	ND	ND
Chromium	13	ND	ND	ND	ND	ND
Lead	58	ND	ND	ND	ND	ND
Mercury	0.2	ND	ND	ND	ND	ND
Silver	9	ND	ND	ND	ND	ND
Selenenium	3	ND	ND	ND	ND	ND

Note: All units UG/1 (considered equivalent to parts per billion)

ND=Not Detectable

The measured concentration level of Arsenic encountered in groundwater samples collected from the monitoring well installed in Boring No. 3 is below both the Enforcement Standard (50 ppb) and Preventative Action Limit (5ppb) as listed in the groundwater standards of Chapter NR 140 of the Wisconsin Administrative Code. The measured concentration levels of barium in groundwater samples collected from the wells installed at all 5 boring locations are also below the Enforcement Standards (1000 ppb) and Preventative Action Level (200ppb).

Since the measured concentration levels of barium in groundwater samples collected from all 5 locations do not deviate by more than 80 ug/1, the concentrations are considered representative background levels for the area and not caused by the adjacent landfill. It is the experience of Giles Engineering Associates, Inc. that measurable concentration levels, similar to the concentration levels encountered on the subject site, are typical in this region of the county for the shallow water table, as a result of the general soil and bedrock mineral content. The levels are not considered of concern and do not warrant any further exploration.

REVIEW OF AVAILABLE INFORMATION AND CONCLUSIONS

The evaluation of potential risk from hazardous material storage, presence, or use on and/or affecting the subject property that might result in soil and/or groundwater contamination was based on an evaluation of available information, a review of state, county, and local regulatory agency files, and interviews with pertinent agency personnel regarding the subject site as well as adjacent properties. A summary of information obtained from each source and the resulting conclusions are listed below.

1. A series of 1" = 400' large scale aerial photographs, flown of the subject site and adjacent properties during the years 1963 (earliest readily available), 1967, 1970, 1975, 1980, and 1985 were obtained and reviewed. The subject site appears as vacant, undeveloped agricultural lands, on the entire series of aerial photographs, with the exclusion of a former farm house and associated farm buildings located adjacent to the southern property border of the subject site. Development of the "landfill" located north and adjacent to the subject site can be seen on the 1967 and 1970 aerial photographs. It is apparent that earth cover for the "landfill" began in 1970, and was near completion in 1975. The "landfill" site appears vegetated during the years 1980 and 1985, and a distinct outline of the "landfill" is evident on the 1980 and 1985 aerial photographs. There are no other indications of landfilling or systematic dumping on the subject site or other adjacent properties.

   Changes in the series of aerial photographs south of the subject site include the development of additional residential houses between the years 1963 and 1965 along the south side of CTH K. The area to 1/4± mile west of the subject site was predominately undeveloped with the exception of the I-94 expressway throughout the entire series of aerial photos reviewed. There was a development at the northeast corner east corner of CTH K and the I-94 frontage road in all photos reviewed and a second development located to the north of the first development is evident in photographs taken after 1967. In addition, to the east of the developments in the 1970 aerial photograph, trailers appear to be located near the western property line of the subject site. The trailers are evident only in the 1970 aerial photograph. Undeveloped

land existing within a 1/4 mile east and north of the subject site in the entire series of aerials reviewed.

2. Staff members of the Wisconsin Department of Industry, Labor, and Human Relations (WDILHR), which maintains a current computer database of registered and problem underground storage tanks (USTs), were contacted to obtain information regarding the possible presence of registered or problem USTs on the subject site or in the general vicinity. A representative of the Department reviewed their records and indicated that no USTs are registered to the following addresses located in the Town of Somers:

   The Aull Farm 11690 60th Street
   Barnett Design 5995 120th Avenue
   Nike 5999 120th Avenue
   Benkstein Farm 10919 60th Street

3. The spill and emergency response records of the Wisconsin Department of Natural Resources (WI DNR) Southeast District Headquarters Spill Section, located in Milwaukee, Wisconsin, were reviewed for the subject site and general vicinity from 1978 (the earliest available) through June 1989 (latest available), to determine if there were any reported incidents of hazardous material spills on and/or adjacent to the subject site. The WI DNR records indicate reported spills near the intersection of U.S. Interstate 94 and STH 158, several hundred feet west of the subject site. The spills include an unknown quantity of diesel fuel from a tanker accident, a 25 gallon diesel fuel spill from a tanker accident, and a 100 to 150 gallon diesel fuel spill from a tanker accident. Considering the distance the recorded spills are from the subject site and the underlying low permeability subsoils, the spills are not considered to have any environmental impact on the subject site. Copies of the spill reports are enclosed in the Appendix.

4. The WI DNR publications entitled Hazard Ranking List, dated March 1988; Inventory of Sites and Facilities which may Cause or threaten to Cause Environmental Pollution, dated July 1987; the Registry of Active and Abandoned Landfills in Wisconsin, dated April, 1988; Comprehensive Environmental Response, Compensation, and Liability Listing, dated March, 1989 and the Southeast District Leaking Underground Storage Tanks (LUST) list dated July, 1989 were reviewed to check for the inclusion of the

subject site or adjacent properties on these listings. The subject site does not appear on these listings. The Town of Somers "landfill", located north and adjacent to the subject site is included in the publication entitled Registry of Active and Abandoned Landfills in Wisconsin. A telephone interview with a Town of Somers Town Clerk, and with the Town of Somers Volunteer Fire Department Fire Chief were conducted. The Town Clerk indicated that there are no documented records of the content of the landfill, and that the landfill, which was operated during the late 1960's, was not regulated. The Fire Chief also indicated that he has no record or knowledge of the contents of the landfill.

5. The Southeastern Wisconsin Regional Planning Commission (SEWRPC) Technical Record, Volume 4, No. 13, dated February, 1982 containing the publication entitled "Inventory of Solid Waste Management Facilities in Southeastern Wisconsin", dated February 1982, was reviewed to check for the inclusion of the subject site or adjacent properties on the listings contained within this publication. The subject site and adjacent properties are not listed in this publication.

6. The Wisconsin Department of Administration (WDOA) Division of Emergency Government Superfund Amendment and Reauthorization Act (SARA III) planning database dated January, 1989 which lists all the Wisconsin facilities that have submitted Material Safety Data Sheets (MSDS) for the use, storage, or manufacture of toxic and hazardous materials, for those facilities likely to use hazardous materials as identified by the Local Emergency Planning Committee, was reviewed to check for the inclusion of the subject site and adjacent properties. The subject property and adjacent sites do not appear on the WDOA SARA III database.

7. A review of the boring logs from previous subsurface explorations performed on the subject site by GEA (GEA Project Nos. 890637, 890637-1, 890637-2, 890659, and 890659-2) and by Wisconsin Testing Laboratories (Job No. S-8904) was performed. There were no indications noted on the boring logs of any unusual odors or discolorations in any of the collected soil samples which would be indicative of the presence of hazardous materials, which typically discolor or cause odor in the soil, and potentially create a groundwater and/or soil contamination problem. Copies of

the Boring Logs reviewed are included in Appendix II under separate cover. Some of the logs may be out of sequence.

8. A review of private well logs of some of the residences to the south of the subject indicate that the wells extend into the consolidated bedrock at depths of about 150± feet. None of the wells are within a 1/4± mile of the adjacent landfill. Considering the distance, the depths of the private wells, the soil conditions of the area, and the results of the analytical testing performed on the groundwater samples collected from the groundwater monitoring wells installed for this study, the landfill adjacent to the subject site is anticipated to have little, if any, impact on the private wells in the area. The well logs for the private wells within abut a 1/2 mile to 1 mile are enclosed.

9. The soil geology of the subject site is compressed of lake deposits and end moraines which consists of till and stratified clay, silt, and sand to depths of 100± feet. Underlying bedrock material consists of undifferential dolomites to a depth of 300± feet underlaid by shale to a depth of 500± feet. The Decorah Formation consisting of Galena Dolomite underlies the subject site at a depth between 500 and 800± feet underlaid by sandstone to 1,600± feet. The USDA survey for Kenosha County indicates that the subject site consists of silty clays to clays with very low permeabilities.

   Visual observation of the landfill in the test pits performed, indicate the materials of the landfill were disposed at the surface of the previous marsh. Excavation of the soils was not performed prior to the placement of the fill material. The existence of a shallow water table and the marsh soil characteristics of the subject site and surrounding area support the placement of fill at the surface rather than in an excavation. In addition, considering the presence of a shallow water table, the relatively low permeable characteristics of the underlying clay soils, the fact that the soils in this type of glacial deposit typically have a horizontal permeability about 10 times the vertical permeability, and the irregular but somewhat horizontal layered stratification of silt and/or fine sand lenses; contaminates within the landfill would tend to migrate laterally with a lesser amount vertical and

therefore would be identifiable by the sampling program performed.

Acceptable procedure by state regulatory agencies in the evaluation of a potential environmental concern in the type of subsoil and geologic characteristics that exist at the subject site, consist of first evaluating the upper water bearing zone. If it is determined that the upper water bearing zone is contaminated, then additional exploration including evaluation of deeper water bearing zones is considered warranted and subsequently performed. However, without any indicators that the upper water bearing zone is contaminated, such as the subject site, the installation of monitoring wells in deeper water bearing zones is considered an unnecessary expense and has therefore not been recommended or performed at the subject site.

10. Soil samples obtained from the subsurface exploration performed for this study were evaluated for the potential of hazardous material presence. All soil samples obtained were measured for vapor levels in the "head space" of a sample jar utilizing a HnU brand Photoionization Detector (PID) equipped with a 10.2 eV lamp calibrated to benzene. The PID can detect small concentrations of certain volatile organic compounds. No measured vapor levels were detected in any of the collected soil samples. In addition, the soil samples do not exhibit any unusual odors, soil discoloration, or other visual characteristics that may indicate the presence of hazardous materials.

11. Test Pits along the western edge of the abandoned Town of Somers "landfill" were performed in order to determine the western extent of the landfill and identify if it extends onto the subject property. Fill materials, possibly associated with the "landfill," were encountered in the northern most test pits performed along the western fringe of the abandoned "landfill". On the basis of the test pits performed, representatives of Ruekert Mielke and Associates have revised the Plot of Survey for the Dairyland Greyhound Park dated June 21, 1989 in order to separate all portions of the landfill from the subject site. Therefore, the "landfill" has been determined to not exist on any portion of the revised Plot of Survey prepared by Ruekert Mielke and Associates dated December 18, 1989.

12. Groundwater samples collected from the monitoring wells installed around the perimeter of the abandoned Town of

Somers "landfill" were submitted for a priority pollutant screening including volatile, semi-volatile compounds, pesticides, PCBs, and metals. Non-detectable concentration levels were encountered for all compounds included in the analysis with the exception of metals. The results of the metal analysis indicates measurable concentration levels of arsenic in groundwater samples collected form Monitoring Well No. 3 and measurable concentration levels of barium in groundwater samples collected from all five monitoring wells. As discussed in a previous section of this report, the measured concentration levels of metals are below established state guidelines. In addition, the levels of barium are likely representative of conditions for a enlarged area rather than the direct vicinity of the landfill. With the existence of an abandoned, uncontrolled "landfill" on the adjacent parcel, the scope of analytical testing was formulated to economically include the greatest amount of potential contaminants which may exist from a non-regulated landfill and also be available within a reasonable time period. Since the purpose of the analytical testing was to determine the potential presence of geo-environmental concerns, the priority pollutant screening was considered appropriate for the purpose of this report and testing to a much lower detection level as would be performed with a known problem. It should be noted, that most of the compounds included in the analysis currently do not have enforcement standards or preventative action limits listed in Chapter NR. 140 in the Wisconsin Administrative Code (groundwater quality standards). In addition, it should be noted that the enforcement standards and preventative action limits for some of the compounds included in the analysis are below the detection limits of the equipment used for this type of a screening procedure. Therefore, it is possible for compounds to be present in the groundwater above preventative action and enforcement standards set by the State of Wisconsin which were not detected through the analytical screening as a result of the equipment limitations. Considering all the compounds included in the screening were below detection or had measurable concentration levels below established guidelines, additional study or groundwater sampling rounds are not considered warranted and the groundwater monitoring wells should be abandoned.

13. The file maintained on the Town of Somers "landfill" by the Southeast District Office of the Wisconsin Department

of Natural Resources was reviewed. Soil borings performed by another firm on the "landfill" site in 1970 indicated that 4 to 5 feet of fill including rubbish, paper, metal, and wood, was present on the "landfill" site. The soil borings also indicated that underlying natural soils consisted of relatively uniform gray and brown silty clays. There were no indications noted on the boring logs of any unusual odors or discolorations in any of the collected soil samples. No other information in the file performed to the adjacent "landfill" and no known monitoring wells exist on the "landfill" site. The soil borings are included in Appendix II under separate cover.

SUMMARY

Based on the information collected and reviewed, there are no indications at this time that would suggest the presence of hazardous material from its previous manufacture, storage, or usage on the revised Plot of Survey by Ruekert Mielke and Associates dated December 18, 1989 of Parcel I of the subject site that would create a soil and/or groundwater contamination problem, and subsequent "clean-up" liability. Furthermore, based on the results of the chemical analysis performed on collected groundwater samples, there are no indications that the past landfilling operations in the Town of Somers "landfill" north and adjacent to the subject site have impacted localized soil and groundwater of the subject site. Therefore, additional exploration is not considered warranted.

GENERAL COMMENTS

Note: Hazardous materials, as referred to in this report, shall include those materials defined as hazardous materials by the Resource Conservation and Recovery Act (RCRA) or identified as hazardous by the State of Wisconsin Department of Natural Resources or the United States Environmental Protection Agency.

This report has been prepared in order to aid in the evaluation of this property with regard to the potential for hazardous material presence at the time of this study. The conclusions presented in this report were based on available information pertaining to various points in time and were presented by others for our use or were based on informal discussions with various agency personnel.

The information presented in this report may affect the value of the proposed site, and is considered confidential. Release of

the report and/or information contained herein must be carefully considered and should not be performed without consent of Giles Engineering Associates, Inc. Disclosure of known site environmental concerns to the regulatory agencies or other parties should be done by the owner or with written authorization from the owner.

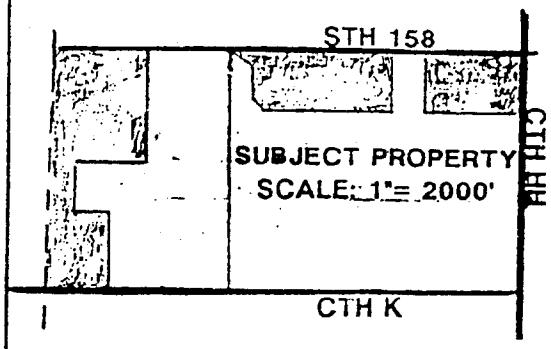
The conclusions in this report may rely on others credibility and, therefore, an alteration in documentation or verbal information obtained may result in the redirection of the conclusions presented in this report. The conclusions are also based on visual field observations performed within the property boundaries at this specific point in time and therefore do not include potential hazardous materials present within undocumented fills placed on the subject site or adjacent properties. No known undocumented fills are known to exist on the subject site or adjacent properties other than those discussed.

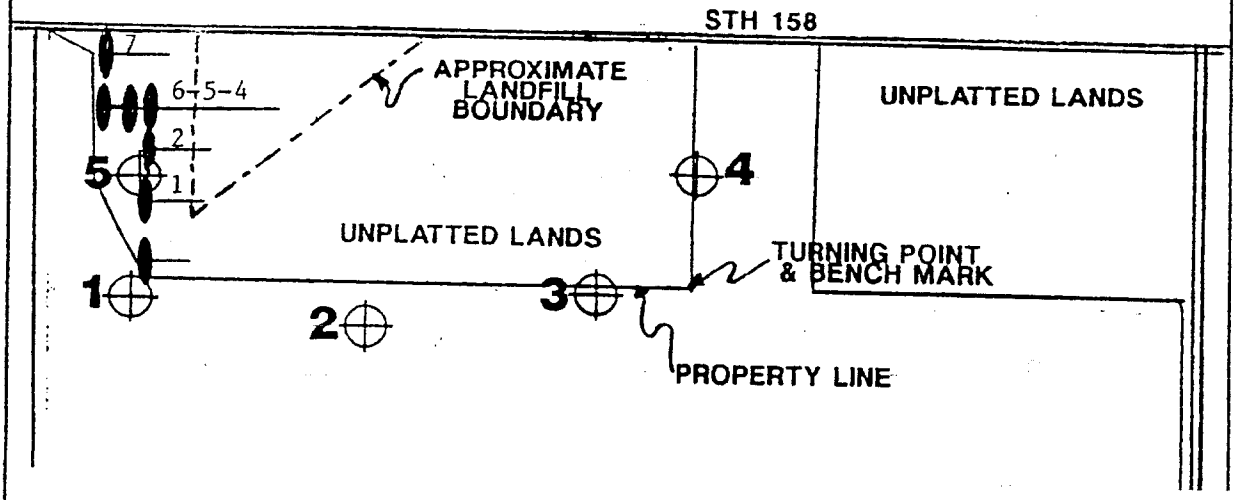
The conclusions in this report have been formulated in accordance with generally accepted procedures in the field of geo-environmental consulting.

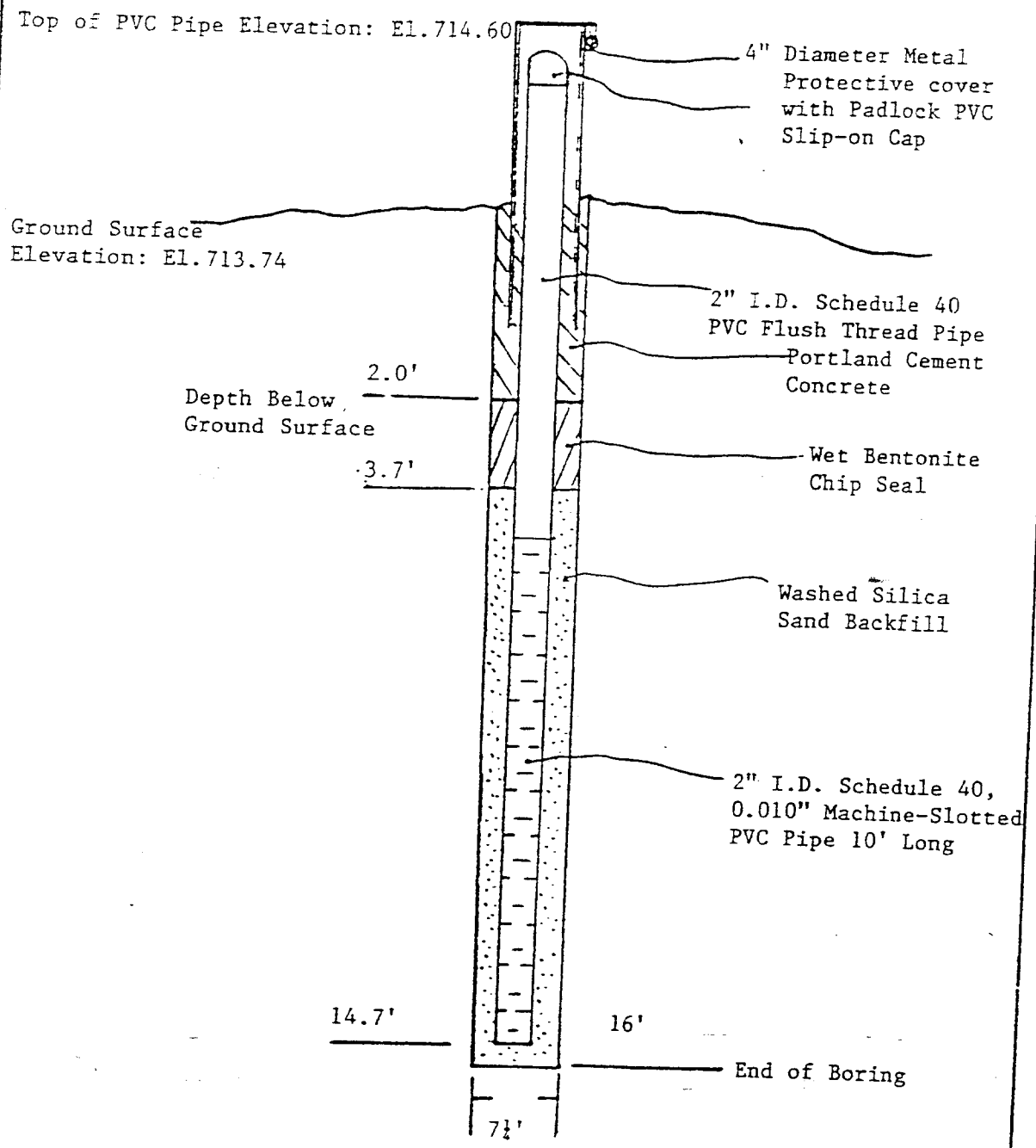
The information presented in this report is considered reliable. Therefore, a lending institution can utilize the information presented when entering into a loan agreement.

NOTE: TEST BORINGS LOCATED IN THE FIELD BY METHOD OF TURNING ANGLES WITH RESPECT TO TURNING POINT INDICATED ON PLAN

GILES ENGINEERING ASSOCIATES, INC.
CONSULTING GEOTECHNICAL AND GEO-ENVIRONMENTAL ENGINEERS





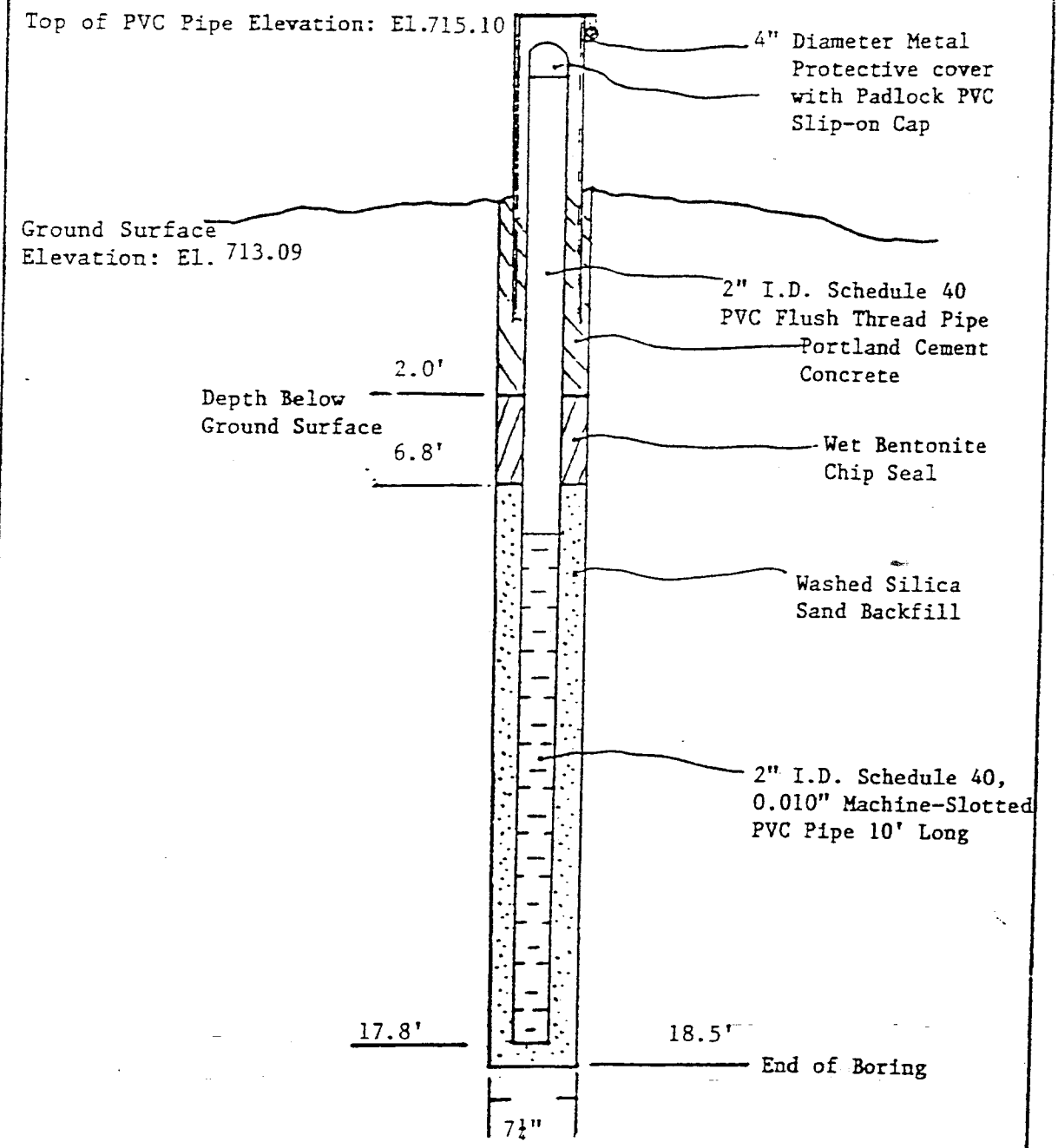


Monitoring Well No. 1

Figure 2

Monitoring Well Diagram
Proposed Dairyland Greyhound Park
Kenosha, Wisconsin
GEA Project No. E-891207

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers

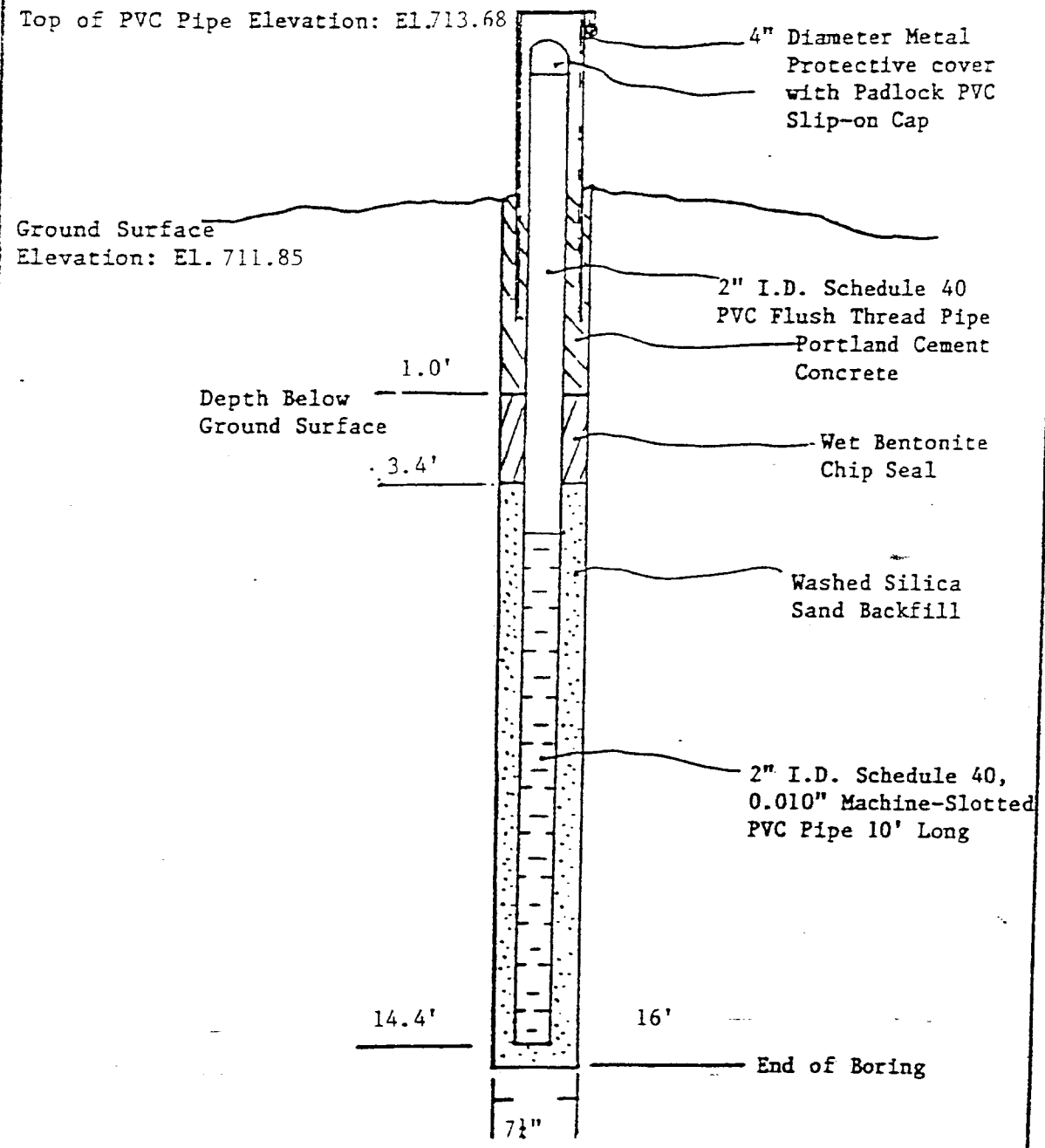


Monitoring Well No.2

Figure 3

Monitoring Well Diagram
Proposed Dairyland Greyhound Park
Kenosha, Wisconsin
GEA Project No. E-891207

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers

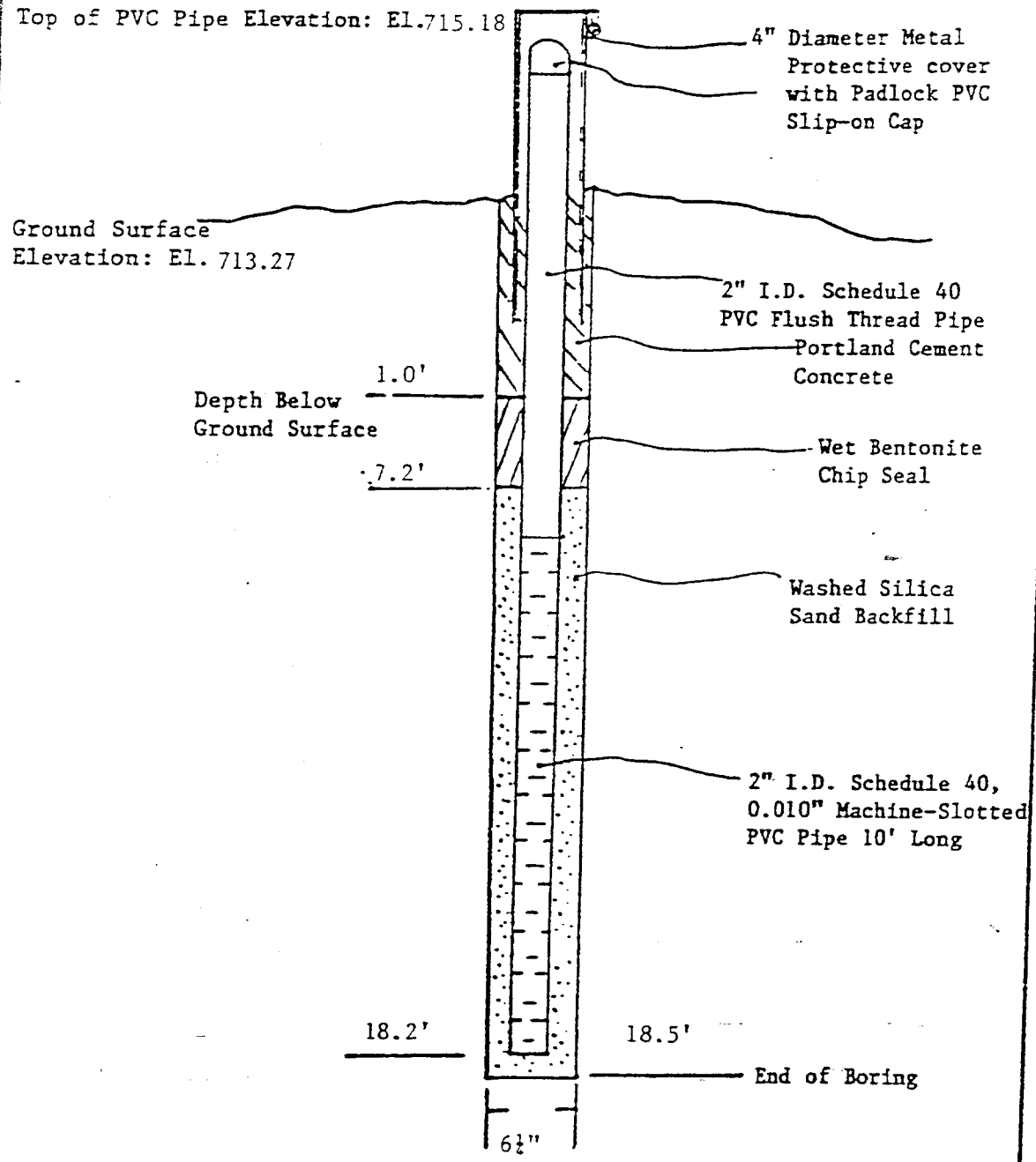


Monitoring Well No. 3

Figure 4

Monitoring Well Diagram
Proposed Dairyland Greyhound Park
Kenosha, Wisconsin
GEA Project No. E-891207

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers

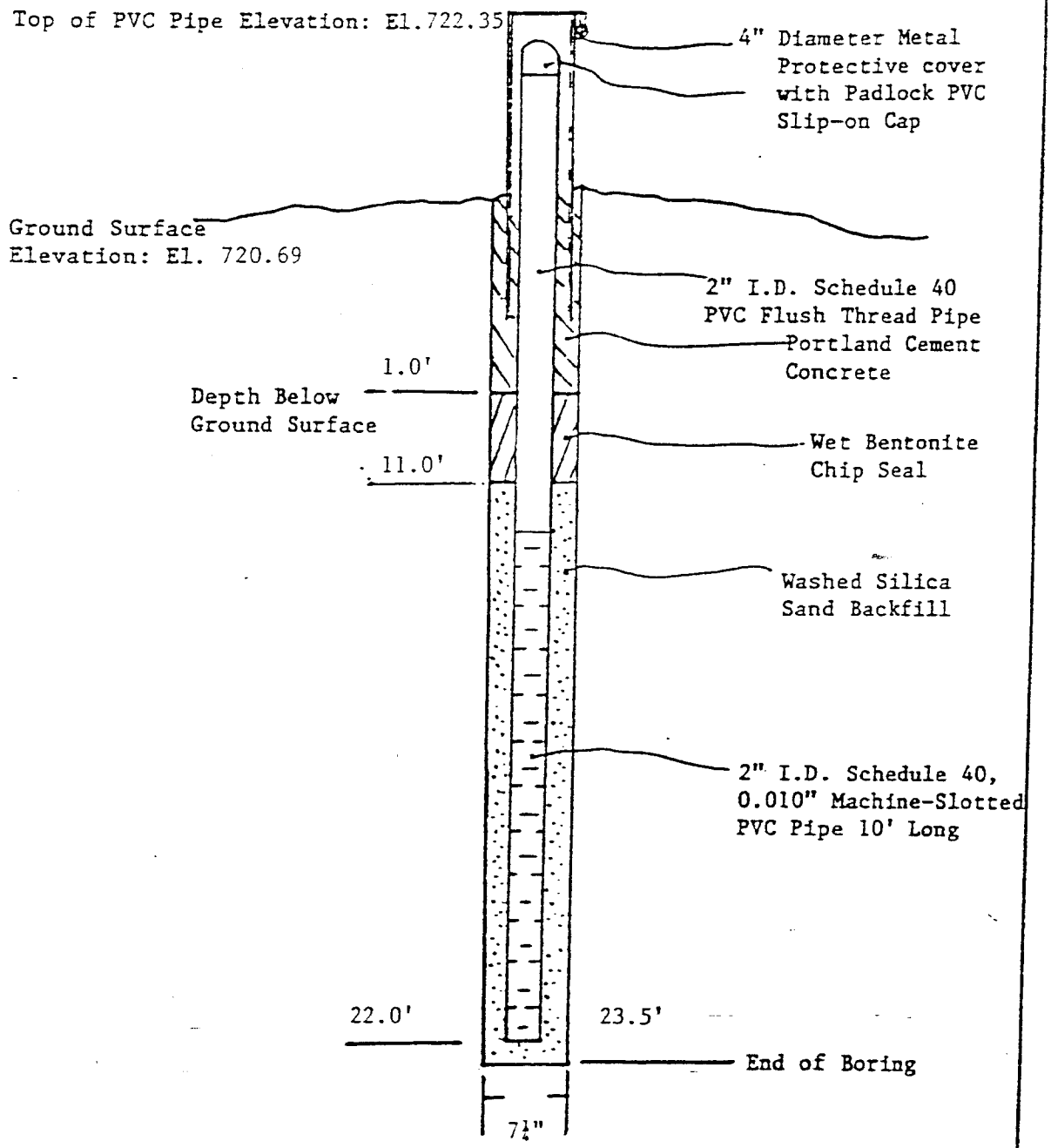


Monitoring Well No.4

Figure 5

Monitoring Well Diagram
Proposed Dairyland Greyhound Park
Kenosha, Wisconsin
GEA Project No. E-891207

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers



Monitoring Well No. 5

Figure 6

Monitoring Well Diagram
Proposed Dairyland Greyhound Park
Kenosha, Wisconsin
GEA Project No. E-891207

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers

Old Tn Somers L.F. (Dairyland Dog Track)

Phone Conversation With

Tom Dibble (414) 875-2527 4/18/90

6200 104th Ave Skip Baker SB

Kenosha WI

1 yr operation Dump began operation ~ 1957 - a couple years after Hwy 158 was constructed.

Stopped ~ 1966 - Time of year long pete fire

Waste types: AMC sludge, OMC (Evenrude in Waukegan) boat parts. Midnight dumping common. Contact: Jack Schmidt - worke AM; Barney Chaney or S - Ramdu

Kevin Shurilla corrected unabandoned wells in the area

Frank Schultz recieved ~15 affidavits from citizens concerning Dump.

Later an asphalt batch plant operated just West of ALF.

SFC Drainage quite dynamic since construction activities associated @ Dog Track

Tom observed boring activities: one boring in old L.F! Who? → Rukert & Milkie a black rig

Donahue & Associates

John Ruttelow (city Alderman) requested testing of ALF. → Dairland people said no.

Infusino may have run dump back then

28 yrs.

did take soil boring

for track 6200 104th Ave or HH

open wells - Kevin closed

Jim Morresy

Jim Ruffolow City Alderman
asked for sample from core
Not cooperative
Donahue & Associates
Rueberd & Mikee
Black Machine

Paint sludge
Batch Plant W of Dump
Started End of 50's
Jack Schmidt } - worked at AMC
Barney Chorney } - Ran dump
Shaney

Johnson
Evennede
OMC
Fiberglass
Boat Parts from

B O R I N G L O G S

RECORD OF SUBSURFACE EXPLORATION

BORING NO.	GEA PROJECT NO.
1	E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Steve Theumling
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

Giles Engineering Associates, Inc.
Geotechnical Geo-Environmental Geo-Hydrological and Construction Materials Consultants

DESCRIPTION Ground Surface Elevation 713.74	Depth Below Surface	Sample No. & Type	N	*PID	**ROL	***GE	W	REMARKS
Note A		1-AU	--					
Yellow-Brown mottled Gray Silty Clay, trace fine to medium Sand, trace Organic Matter-Moist		2-SS	24	ND	0			
	5'	3-SS	42	ND	0	▽		
Gray Silty Clay, trace fine to coarse Sand and fine Gravel, trace Yellow-Brown Silt lenses and fine to medium Sand lenses-Moist		4-SS	24	ND	0			
	10'							
Gray Clayey Silt, trace fine to coarse Sand-Moist		5-SS	11	ND	0			
Gray Silty Clay to Clayey Silt, trace fine to coarse Sand-Moist		6-SS	22	ND	0			
Gray Silty Clay, trace fine to coarse Sand-Moist	15'	7-SS	11	ND	0			

Boring Terminated at 16'

Note A: Yellow-Brown Silty Clay mixed with Black Clayey Silt (High Organic Content Topsoil); trace roots and Organic Matter-Moist (Fill)

*PID=Results of vapor analysis conducted on representative samples utilizing a Photoionization Detector equipped with a 10.2 eV lamp calibrated to benzene reported as parts per million. (ND-Not Detectable)

** Relative Odor Level:
- 0- No Petroleum Odor
- 1- Slight Petroleum Odor
- 2- Moderate Petroleum Odor
- 3- Strong Petroleum Odor

***GE=Groundwater Elevation:El. 707.52, 12/13/89. Monitoring Well installed at 14.7 depth below ground surface. Top of PVC well casing elevation: El. 714.60. See Figure 2

▽ Water encountered at _____ ft. while drilling

▼ Water at _____ ft. at completion

▼ Water at _____ ft. after _____ hours

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. 2	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Steve Theumling
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers

DESCRIPTION Ground Surface Elevation 713.09±	Depth Below Surface	Sample No. & Type	N	*PID	**ROL	***GE	W	REMARKS
Note A		1-AU	--					
Yellow-Brown mottled Gray Silty Clay, trace fine to medium Sand, trace Organic Matter-Moist		2-SS	25	ND	0			
	5'	3-SS	32	ND	0			
		4-SS	17	ND	0			
Note B								
Gray Silt, some fine to coarse Sand and fine Gravel, trace Clay, slow dilatency-Moist	10'	5-SS	24	ND	0			
Gray Silty Clay, trace fine to coarse Sand-Moist		6-SS	16	ND	0			
	15'	7-SS	11	ND	0			
		8-SS	19	ND	0			

Boring Terminated at 18½'

Note A: Yellow-Brown Silty Clay mixed with Black Clayey Silt (High Organic Content Topsoil); trace roots and Organic Matter-Moist (Fill)

Note B: Gray Silty Clay, trace fine to coarse Sand and fine Gravel, trace Yellow-Brown Silt lenses and fine to medium Sand lenses-Moist

*PID=Results of vapor analysis conducted on representative samples utilizing a Photoionization Detector equipped with a 10.2 eV lamp calibrated to benzene reported as parts per million. (ND-Not Detectable)

** Relative Odor Level:
- 0- No Petroleum Odor
- 1- Slight Petroleum Odor
- 2- Moderate Petroleum Odor
- 3- Strong Petroleum Odor

***GE=Groundwater Elevation: El. 707.74. 12/13/89. Monitoring Well installed at 17.8' depth below ground surface. Top of PVC well casing elevation: El. 715.10, See Figure 3.

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. 3	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Steve Theumling
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

Giles Engineering Associates, Inc.
Geotechnical Geo-Environmental Geo-Hydrological and Construction Materials Consultants

DESCRIPTION Ground Surface Elevation 711.85±	Depth Below Surface	Sample No. & Type	N	*PID	**ROL	***GE	W	REMARKS
Note A		1-AU	--					
Gray Clayey Silt, trace fine Sand lenses, trace medium to coarse Sand, little Organic Matter-Wet		2-SS	6	ND	0	▽		
Yellow-Brown fine Sandy Silt, trace Clay, trace medium to coarse Sand-Moist	5'	3-SS	13	ND	0			
Gray Silty Clay, trace fine to coarse Sand-Moist		4-SS	19	ND	0			
Gray Clayey Silt, trace fine to coarse Sand-Moist	10'	5-SS	17	ND	0			
Gray Silt, some fine to coarse Sand and fine Gravel, trace Clay, slow dilatency-Moist		6-SS	17	ND	0			
	15'	7-SS	13	ND	0			

Boring Terminated at 16'

Note A: Yellow-Brown Silty Clay mixed with Black Clayey Silt (High Organic Content Topsoil); trace roots and Organic Matter-Moist (Fill)

*PID=Results of vapor analysis conducted on representative samples utilizing a Photoionization Detector equipped with a 10.2 eV lamp calibrated to benzene reported as parts per million. (ND-Not Detectable)

** Relative Odor Level:
- 0- No Petroleum Odor
- 1- Slight Petroleum Odor
- 2- Moderate Petroleum Odor
- 3- Strong Petroleum Odor

***GE=Groundwater Elevation: El. 708.40, 12/13/89. Monitoring Well installed at 14.4' depth below ground surface. Top of PVC well casing elevation: El. 713.68, See Figure 4.

▽ Water encountered at _____ ft. while drilling

▼ Water at _____ ft. at completion

▼ Water at _____ ft. after _____ hours

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. 4	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Steve Theumling
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

GILES ENGINEERING ASSOCIATES, INC.
CONSULTING SOIL AND FOUNDATION ENGINEERS

DESCRIPTION Ground Surface Elevation 713.27±	Depth Below Surface	Sample No. & Type	N	*PID	**ROL	***GE	W	REMARKS
Note A		1-AU	--			▽		
Note B		2-SS	14	ND	0			
Gray mottled Yellow-Brown Silty Clay, little fine Sand, trace Organic Matter-Moist	5′	3-SS	18	ND	0			
Gray Silty Clay, trace fine to coarse Sand-Moist		4-SS	20	ND	0			
Gray Silt, some fine to coarse Sand and fine Gravel, trace Clay, slow dilatency-Wet	10′	5-SS	19	ND	0			
Gray Silty Clay to Clayey Silt, trace fine to coarse Sand-Moist		6-SS	19	ND	0			
Gray Clayey Silt, trace fine to coarse Sand-Moist	15′	7-SS	13	ND	0			
		8-SS	18	ND	0			

Boring Terminated at 18'6"

Note A: Yellow-Brown Silty Clay mixed with Black Clayey Silt (High Organic Content Topsoil); trace roots and Organic Matter-Moist (Fill)

Note B: Gray mottled Yellow-Brown Clayey Silt, little fine Sand, trace Organic Matter-Moist

*PID=Results of vapor analysis conducted on representative samples utilizing a Photoionization Detector equipped with a 10.2 eV lamp calibrated to benzene reported as parts per million. (ND-Not Detectable)

***GE=Groundwater Elevation: El. 710.60, 12/13/89. Monitoring Well installed at 18.2 feet depth below ground surface. Top of PVC well casing elevation: El. 715.18, See Figure 5.

** Relative Odor Level:
- 0- No Petroleum Odor
- 1- Slight Petroleum Odor
- 2- Moderate Petroleum Odor
- 3- Strong Petroleum Odor

▽ Water encountered at _____ft. while drilling

▼ Water at _____ ft. at completion

▼ Water at _____ ft. after _____hours

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO.	GEA PROJECT NO.
5	E-891207
DATE	**FIELD REPRESENTATIVE**
12-7-89	Steve Theumling

PROJECT
Proposed Dairyland Greyhound Park

Kenosha, WI

Giles Engineering Associates, Inc.
Consulting Soil and Foundation Engineers

DESCRIPTION Ground Surface Elevation 720.69	Depth Below Surface	Sample No. & Type	N	*PID	**ROL	***GE	W	REMARKS
Note A		1-AU	--					
Yellow-Brown mottled Gray Silty Clay, trace fine tomedium Sand, trace Organic Matter-Moist		2-SS	25	ND	0			
	5'	3-SS	47	ND	0	▼		
Brown Silty Clay, trace fine to medium Sand with Yellow-Brown and Gray calcareous leachate seams-Moist		4-SS	33	ND	0			
Note B	10'	5-SS	37	ND	0			
Gray Silty Clay to Clayey Silt, trace fine to coarse Sand-Moist		6-SS	27	ND	0			
Gray Silty Clay, trace fine to coarse Sand-Moist	15'	7-SS	25	ND	0			
		8-SS	13	ND	0			
	20'	9-SS	13	ND	0			
		10-SS	11	ND	0			

Boring Terminated at 23½ feet

Note A: Yellow-Brown Silty Clay mixed with Black Clayey Silt (High Organic Content Topsoil); trace roots and Organic Matter-Moist

Note B: Yellow-Brown Silty Clay, trace fine to coarse Sand and fine Gravel, with Gray calcareous leachate seams-Moist

*PID=Results of vapor analysis conducted on representative samples utilizing a Photoionization Detector equipped with a 10.2 eV lamp calibrated to benzene reported as parts per million. (ND-Not Detectable)

▽ Water encountered at ____ft. while drilling

▼ Water at ____ft. at completion

▼ Water at ____ft. after ____hours

** Relative Odor Level:
- 0- No Petroleum Odor
- 1- Slight Petroleum Odor
- 2- Moderate Petroleum Odor
- 3- Strong Petroleum Odor

***GE=Groundwater Elevation: El. 713.46, 12/13/89. Monitoring Well installed at 22.0 feet depth below ground surface. Top of PVC well casing elevation: El. 722.35, See Figure 6

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

T E S T P I T S

RECORD OF SUBSURFACE EXPLORATION

BORING NO. TP1	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Gregory Konicek
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

GILES ENGINEERING ASSOCIATES, INC.

GEOTECHNICAL GEO-ENVIRONMENTAL GEO-HYDROLOGICAL AND CONSTRUCTION MATERIALS CONSULTANTS

DESCRIPTION Ground Surface Elevation 712±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Note A								
Note B								
Test Pit Terminated at 3'	5'							
Note A: 24±" Black Clayey Silt Topsoil, trace fine Sand-Moist								
Note B: Gray-Brown Clayey Silt, trace fine Sand-Moist	10'							
	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling ▽ Water at ____ft. at completion ▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. TP2	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Gregory Konicek
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

Giles Engineering Associates, Inc.

Geotechnical Geo-Environmental Geo-Hydrological and Construction Materials Consultants

DESCRIPTION Ground Surface Elevation 717±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Note A								
Note B								
Note C								
Test Pit Terminated at 4'	5'							
Note A: 2± feet of Dark Brown Gravelly Clay with Sand-Damp (Fill)	10'							
Note B: Dark Brown Clay Silt, little Organic Matter-Damp (Poss. Buried Topsoil)								
Note C: Gray and Brown mottled Silty Clay, trace Gravel-Damp	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling								
▼ Water at ____ft. at completion								
▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. TP3	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Gregory Konicek
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

Giles Engineering Associates, Inc.

Geotechnical Geo-Environmental Geo-Hydrological and Construction Materials Consultants

DESCRIPTION Ground Surface Elevation 721±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Brown and Dark Brown Gravelly Clay with Sand; concrete and asphalt fragments-Damp (Fill)								
Note A								
Gray and Brown mottled Silty Clay, trace Gravel-Damp	5'							
Test Pit Terminated at 6'								
Note A: Dark Brown to Black Clayey Silt, with Orgnaic Matter, Moist (Poss. Buried Topsoil)	10'							
	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling ▽ Water at ____ft. at completion ▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. TP 4	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Gregory Konicek
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

Giles Engineering Associates, Inc.

Geotechnical, Geo-Environmental, Geo-Hydrological and Construction Materials Consultants

DESCRIPTION Ground Surface Elevation 723±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Dark Brown Clayey Gravel to Gravelly Clay with Sand and paper, leather and wood-Damp (Fill)	5'							
Dark Gray to Black Clayey Silt with Organic Matter, metal and concrete fragments-Moist to Wet (Fill)	10'							
Test Pit Terminated at 10'	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling ▼ Water at ____ft. at completion ▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. TP5	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Gregory Konicek
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

GILES ENGINEERING ASSOCIATES, INC.

GEOTECHNICAL GEO-ENVIRONMENTAL GEO-HYDROLOGICAL AND CONSTRUCTION MATERIALS CONSULTANTS

DESCRIPTION Ground Surface Elevation 724±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Dark Brown and Brown Gravelly Clay to Clayey Gravel with concrete and metal fragments-Damp (Fill)	5'							
Test Pit Terminated at 8'	10'							
	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling ▼ Water at ____ft. at completion ▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO.	GEA PROJECT NO.
6 R. Test Pit	E-891207
DATE	**FIELD REPRESENTATIVE**
12-7-89	Gregory Konicek
PROJECT	
Proposed Dairyland Greyhound Park	
Kenosha, WI	

GILES ENGINEERING ASSOCIATES, INC.

GEOTECHNICAL GEO-ENVIRONMENTAL GEO-HYDROLOGICAL AND CONSTRUCTION MATERIALS CONSULTANTS

DESCRIPTION Ground Surface Elevation 722±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Note A								
Gray and Brown mottled Silty Clay, trace Gravel-Damp	5'							
Gray-Brown Silty Clay, trace Gravel-Damp								
Test Pit Terminated at 8'	10'							
Note A: Brown Silty Clay, trace Gravel-Damp (Poss. Fill)	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling ▼ Water at ____ft. at completion ▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. 7	GEA PROJECT NO. E-891207
DATE 12-7-89	FIELD REPRESENTATIVE Gregory Konicek
PROJECT Proposed Dairyland Greyhound Park	
Kenosha, WI	

GILES ENGINEERING ASSOCIATES, INC.

GEOTECHNICAL GEO-ENVIRONMENTAL GEO-HYDROLOGICAL AND CONSTRUCTION MATERIALS CONSULTANTS

DESCRIPTION Ground Surface Elevation 721±	Depth Below Surface	Sample No. & Type	N	q_u	q_p	q_s	w	REMARKS
Brown Silty Clay, trace Gravel-Damp (Fill)								
Note A								
Gray and Brown mottled Silty Clay, trace Gravel-Damp	5'							
Test Pit Terminated at 7'								
Note A: Dark Brown to Black Clayey Silt with Organic Matter-Moist (Poss. Buried Topsoil)	10'							
	15'							
	20'							
	25'							
	30'							
	35'							
	40'							
▽ Water encountered at ____ft. while drilling ▼ Water at ____ft. at completion ▼ Water at ____ft. after ____hours	45'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations. Dashed lines should be interpreted as more approximate than solid lines.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NO_1

Lab Name: ORTEC Contract: 461 295

Lab Code: ORTEK Case No.: GIL002 SAS No.: E891207 SDG No.: 2025 2

Matrix: (soil/water) WATER Lab Sample ID: GIL2025 A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 912CV112

Level: (low/med) LOW Date Received: 12/11/89

% Moisture: not dec. ____ Date Analyzed: 12/12/89

Column: (pack/cap) CAP Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Dichloromethane	50	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	50	U
75-35-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
108-05-4	Vinyl Acetate	100	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	100	U
110-75-8	2-Chloroethylvinylether	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
	Total Xylenes	100	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WELL_1

ab Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

Matrix: (soil/water) WATER Lab Sample ID: GIL2034 A

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB112

Level: (low/med) LOW Date Received: 12/12/89

Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	100	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	100	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	100	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	100	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_1

Lab Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

Matrix: (soil/water) WATER Lab Sample ID: GIL2034 A

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB112

Level: (low/med) LOW Date Received: 12/12/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-10-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	100	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	100	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	100	U
117-84-0	Di-n-Octyl Phthalate	100	U
205-99-2	Benzo(b)Fluoranthene	100	U
207-08-9	Benzo(k)Fluoranthene	100	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	100	U
53-70-3	Dibenz(a,h)Anthracene	100	U
191-24-2	Benzo(g,h,i)Perylene	100	U

(1) - Cannot be separated from Diphenylamine

eida Environmental Technology Center
96 West Mason Street
.Box 12435
een Bay, WI 54307-2435
elephone No.: (414) 498-2222

LABORATORY ANALYSIS RESULTS

Sample ID:
Sample Desc: Well #1
Date Collected: 12/11/89
Date Received: 12/12/89
Sampled By:
Report to: S. Thuemling
Results Sheet #: 295
Job #:

ent: Giles Engineering
dress: N8 W22350 Johnson Rd.
Waukesha, WI 53186

n.: S. Thuemling
ephone No.: (414) 544-0118

POB/PESTICIDE WATER ANALYSIS

RAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
urin	2.0	ND	ug/L
pha-BHC	1.0	ND	ug/L
a-BHC	2.0	ND	ug/L
ta-BHC	2.0	ND	ug/L
mma-BHC	1.0	ND	ug/L
ordane	2.0	ND	ug/L
'-DDD	3.0	ND	ug/L
4'-DDE	2.0	ND	ug/L
4'-DDT	3.0	ND	ug/L
ldrin	2.0	ND	ug/L
osulfan I	2.0	ND	ug/L
dosulfan II	3.0	ND	ug/L
osulfan Sulfate	3.0	ND	ug/L
rin	2.0	ND	ug/L
drin Aldehyde	4.0	ND	ug/L
ptachlor	2.0	ND	ug/L
tachlor Epoxide	2.0	ND	ug/L
xaphene	20	ND	ug/L
oclor 1016	20	ND	ug/L
clor 1221	20	ND	ug/L
clor 1232	20	ND	ug/L
oclor 1242	20	ND	ug/L
clor 1248	20	ND	ug/L
clor 1254	20	ND	ug/L
oclor 1260	20	ND	ug/L

= Not Detected

ments: Lab Sample ID: GIL2034 A
: Date Analyzed: 12/18/89
: Analyzed by GC Method 608 on a 1.5%SP2250/1.95%SP2401 Packed Column
: Extraction Procedure Exhibit 7A

Date: December 20, 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NO_2

: b Name: ORTEC Contract: 461 295

Lab Code: ORTEK Case No.: GIL002 SAS No.: E891207 SDG No.: 2025 2

: trix: (soil/water) WATER Lab Sample ID: GIL2034 E

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 912CV116

: vel: (low/med) LOW Date Received: 12/12/89

% Moisture: not dec. ____ Date Analyzed: 12/12/89

Column: (pack/cap) CAP Dilution Factor: 100

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Dichloromethane	50	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	50	U
75-35-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
108-05-4	Vinyl Acetate	100	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	100	U
110-75-8	2-Chloroethylvinylether	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
----------	Total Xylenes	100	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_2

Lab Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

Matrix: (soil/water) WATER Lab Sample ID: GIL2034 E

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB116

Level: (low/med) LOW Date Received: 12/12/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	100	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	100	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	100	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	100	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_2

, b Name: ORTEC Contract: 295

.ab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

| trix: (soil/water) WATER Lab Sample ID: GIL2034 E

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB116

..vel: (low/med) LOW Date Received: 12/12/89

(Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

: C Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-10-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	100	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	100	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	100	U
117-84-0	Di-n-Octyl Phthalate	100	U
205-99-2	Benzo(b)Fluoranthene	100	U
207-08-9	Benzo(k)Fluoranthene	100	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	100	U
53-70-3	Dibenz(a,h)Anthracene	100	U
191-24-2	Benzo(g,h,i)Perylene	100	U

(1) - Cannot be separated from Diphenylamine

Oneida Environmental Technology Center
2496 West Mason Street
P.O.Box 12435
Green Bay, WI 54307-2435
Telephone No.: (414) 498-2222

LABORATORY ANALYSIS RESULTS

Sample ID:
Sample Desc: Well #2
Date Collected: 12/11/89
Date Received: 12/12/89
Sampled By:
Report to: S. Thuemling
Results Sheet #: 295
Job #:

Client: Giles Engineering
Address: N8 W22350 Johnson Rd.
Waukesha, WI 53186

Attn.: S. Thuemling
Telephone No.: (414) 544-0118

PCB/PESTICIDE WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
Aldrin	2.0	ND	ug/L
alpha-BHC	1.0	ND	ug/L
beta-BHC	2.0	ND	ug/L
delta-BHC	2.0	ND	ug/L
gamma-BHC	1.0	ND	ug/L
Chlordane	2.0	ND	ug/L
4,4'-DDD	3.0	ND	ug/L
4,4'-DDE	2.0	ND	ug/L
4,4'-DDT	3.0	ND	ug/L
Dieldrin	2.0	ND	ug/L
Endosulfan I	2.0	ND	ug/L
Endosulfan II	3.0	ND	ug/L
Endosulfan Sulfate	3.0	ND	ug/L
Endrin	2.0	ND	ug/L
Endrin Aldehyde	4.0	ND	ug/L
Heptachlor	2.0	ND	ug/L
Heptachlor Epoxide	2.0	ND	ug/L
Toxaphene	20	ND	ug/L
Aroclor 1016	20	ND	ug/L
Aroclor 1221	20	ND	ug/L
Aroclor 1232	20	ND	ug/L
Aroclor 1242	20	ND	ug/L
Aroclor 1248	20	ND	ug/L
Aroclor 1254	20	ND	ug/L
Aroclor 1260	20	ND	ug/L

ND = Not Detected

Comments: Lab Sample ID: GIL2034 E
: Date Analyzed: 12/18/89
: Analyzed by GC Method 608 on a 1.5%SP2250/1.95%SP2401 Packed Column
: Extraction Procedure Exhibit 7A

Signed: David Turnuff Date: December 20, 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NO_3

Lab Name: ORTEC Contract: 461 295

Lab Code: ORTEK Case No.: GIL002 SAS No.: E891207 SDG No.: 2025 2

Matrix: (soil/water) WATER Lab Sample ID: GIL2025 B

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 912CV113

Level: (low/med) LOW Date Received: 12/11/89

% Moisture: not dec. ____ Date Analyzed: 12/12/89

Column: (pack/cap) CAP Dilution Factor: 100

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Dichloromethane	50	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	50	U
75-35-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
108-05-4	Vinyl Acetate	100	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	100	U
110-75-8	2-Chloroethylvinylether	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
	Total Xylenes	100	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_3

Lab Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

Matrix: (soil/water) WATER Lab Sample ID: GIL2034 B

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB113

Level: (low/med) LOW Date Received: 12/12/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	100	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	100	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	100	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	100	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_3

: b Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

(trix: (soil/water) WATER Lab Sample ID: GIL2034 B

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB113

: vel: (low/med) LOW Date Received: 12/12/89

Y Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

: C Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-10-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	100	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	100	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	100	U
117-84-0	Di-n-Octyl Phthalate	100	U
205-99-2	Benzo(b)Fluoranthene	100	U
207-08-9	Benzo(k)Fluoranthene	100	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	100	U
53-70-3	Dibenz(a,h)Anthracene	100	U
191-24-2	Benzo(g,h,i)Perylene	100	U

(1) - Cannot be separated from Diphenylamine

Oneida Environmental Technology Center
2496 West Mason Street
P.O.Box 12435
Green Bay, WI 54307-2435
Telephone No.: (414) 498-2222

Client: Giles Engineering
Address: N8 W22350 Johnson Rd.
Waukesha, WI 53186

Attn.: S. Thuemling
Telephone No.: (414) 544-0118

LABORATORY ANALYSIS RESULTS

Sample ID:
Sample Desc: Well #3
Date Collected: 12/11/89
Date Received: 12/12/89
Sampled By:
Report to: S. Thuemling
Results Sheet #: 295
Job #:

PCB/PESTICIDE WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
Aldrin	2.0	ND	ug/L
alpha-BHC	1.0	ND	ug/L
beta-BHC	2.0	ND	ug/L
delta-BHC	2.0	ND	ug/L
gamma-BHC	1.0	ND	ug/L
Chlordane	2.0	ND	ug/L
4,4'-DDD	3.0	ND	ug/L
4,4'-DDE	2.0	ND	ug/L
4,4'-DDT	3.0	ND	ug/L
Dieldrin	2.0	ND	ug/L
Endosulfan I	2.0	ND	ug/L
Endosulfan II	3.0	ND	ug/L
Endosulfan Sulfate	3.0	ND	ug/L
Endrin	2.0	ND	ug/L
Endrin Aldehyde	4.0	ND	ug/L
Heptachlor	2.0	ND	ug/L
Heptachlor Epoxide	2.0	ND	ug/L
Toxaphene	20	ND	ug/L
Aroclor 1016	20	ND	ug/L
Aroclor 1221	20	ND	ug/L
Aroclor 1232	20	ND	ug/L
Aroclor 1242	20	ND	ug/L
Aroclor 1248	20	ND	ug/L
Aroclor 1254	20	ND	ug/L
Aroclor 1260	20	ND	ug/L

ND = Not Detected

Comments: Lab Sample ID: GIL2034 B
: Date Analyzed: 12/18/89
: Analyzed by GC Method 608 on a 1.5%SP2250/1.95%SP2401 Packed Column
: Extraction Procedure Exhibit 7A

Signed: David Turnoff Date: December 20, 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NO_4

Lab Name: ORTEC Contract: 461 295

Lab Code: ORTEK Case No.: GIL002 SAS No.: E891207 SDG No.: 2025 2

Matrix: (soil/water) WATER Lab Sample ID: GIL2025 C

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 912CV114

Level: (low/med) LOW Date Received: 12/11/89

% Moisture: not dec. ____ Date Analyzed: 12/12/89

Column: (pack/cap) CAP Dilution Factor: 100

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Dichloromethane	50	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	50	U
75-35-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
108-05-4	Vinyl Acetate	100	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	100	U
110-75-8	2-Chloroethylvinylether	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
	Total Xylenes	100	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_4

. b Name: ORTEC Contract: 295

.ab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

: trix: (soil/water) WATER Lab Sample ID: GIL2034 C

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB114

: vel: (low/med) LOW Date Received: 12/12/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

: C Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	100	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	100	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	100	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	100	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_4

Lab Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

Matrix: (soil/water) WATER Lab Sample ID: GIL2034 C

Sample wt/vol: 100 (g/mL) ML Lab File ID: 912BB114

Level: (low/med) LOW Date Received: 12/12/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-10-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	100	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	100	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	100	U
117-84-0	Di-n-Octyl Phthalate	100	U
205-99-2	Benzo(b)Fluoranthene	100	U
207-08-9	Benzo(k)Fluoranthene	100	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	100	U
53-70-3	Dibenz(a,h)Anthracene	100	U
191-24-2	Benzo(g,h,i)Perylene	100	U

(1) - Cannot be separated from Diphenylamine

neida Environmental Technology Center
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tn.: S. Thuemling
lephone No.: (414) 544-0118

LABORATORY ANALYSIS RESULTS

Sample ID:
Sample Desc: Well #4
Date Collected: 12/11/89
Date Received: 12/12/89
Sampled By:
Report to: S. Thuemling
Results Sheet #: 295
Job #:

PCB/PESTICIDE WATER ANALYSIS

ARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
drin	2.0	ND	ug/L
lpha-BHC	1.0	ND	ug/L
ta-BHC	2.0	ND	ug/L
lta-BHC	2.0	ND	ug/L
amma-BHC	1.0	ND	ug/L
lordane	2.0	ND	ug/L
4'-DDD	3.0	ND	ug/L
,4'-DDE	2.0	ND	ug/L
,4'-DDT	3.0	ND	ug/L
eldrin	2.0	ND	ug/L
dosulfan I	2.0	ND	ug/L
ndosulfan II	3.0	ND	ug/L
dosulfan Sulfate	3.0	ND	ug/L
drin	2.0	ND	ug/L
ndrin Aldehyde	4.0	ND	ug/L
eptachlor	2.0	ND	ug/L
ptachlor Epoxide	2.0	ND	ug/L
xaphene	20	ND	ug/L
roclor 1016	20	ND	ug/L
oclor 1221	20	ND	ug/L
oclor 1232	20	ND	ug/L
roclor 1242	20	ND	ug/L
oclor 1248	20	ND	ug/L
oclor 1254	20	ND	ug/L
roclor 1260	20	ND	ug/L

= Not Detected

mments: Lab Sample ID: GIL2034 C
: Date Analyzed: 12/18/89
: Analyzed by GC Method 608 on a 1.5%SP2250/1.95%SP2401 Packed Column
: Extraction Procedure Exhibit 7A

gned: David Turnoff Date: December 20, 1989

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NO_5

Name: ORTEC Contract: 461 295

b Code: ORTEK Case No.: GIL002 SAS No.: E891207 SDG No.: 2025 2

rix: (soil/water) WATER Lab Sample ID: GIL2025 D

mple wt/vol: 5.0 (g/mL) ML Lab File ID: 912CV115

el: (low/med) LOW Date Received: 12/11/89

Moisture: not dec. Date Analyzed: 12/12/89

olumn: (pack/cap) CAP Dilution Factor: 100

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Dichloromethane	50	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	50	U
75-35-3	1,1-Dichloroethane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
108-05-4	Vinyl Acetate	100	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	100	U
110-75-8	2-Chloroethylvinylether	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
	Total Xylenes	100	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_5

Lab Name: ORTEC Contract: 295

Lab Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

Matrix: (soil/water) WATER Lab Sample ID: GIL2034 D

Sample wt/vol: 100 (g/mL) ML Lab File ID: S12BB115

Level: (low/med) LOW Date Received: 12/12/89

Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	100	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	100	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	100	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	1000	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	100	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	U
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL_5

ab Name: ORTEC Contract: 295

b Code: ORTEK Case No.: GIL003 SAS No.: E981207 SDG No.: 2034

trix: (soil/water) WATER Lab Sample ID: GIL2034 D

ample wt/vol: 100 (g/mL) ML Lab File ID: 912BB115

vel: (low/med) LOW Date Received: 12/12/89

Moisture: not dec. ____ dec. ____ Date Extracted: 12/18/89

traction: (SepF/Cont/Sonc) SEPF Date Analyzed: 12/19/89

PC Cleanup: (Y/N) N pH: ____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-10-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	100	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	100	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	100	U
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	100	U
117-84-0	Di-n-Octyl Phthalate	100	U
205-99-2	Benzo(b)Fluoranthene	100	U
207-08-9	Benzo(k)Fluoranthene	100	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	100	U
53-70-3	Dibenz(a,h)Anthracene	100	U
191-24-2	Benzo(g,h,i)Perylene	100	U

(1) - Cannot be separated from Diphenylamine

·neida Environmental Technology Center
2496 West Mason Street
P.O.Box 12435
reen Bay, WI 54307-2435
elephone No.: (414) 498-2222

Client: Giles Engineering
ddress: N8 W22350 Johnson Rd.
Waukesha, WI 53186

LABORATORY ANALYSIS RESULTS

Sample ID:
Sample Desc: Well #5
Date Collected: 12/11/89
Date Received: 12/12/89
Sampled By:
Report to: S. Thuemling
Results Sheet #: 295
Job #:

Attn.: S. Thuemling
Telephone No.: (414) 544-0118

PCB/PESTICIDE WATER ANALYSIS

ARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
ldrin	2.0	ND	ug/L
lpha-BHC	1.0	ND	ug/L
beta-BHC	2.0	ND	ug/L
elta-BHC	2.0	ND	ug/L
amma-BHC	1.0	ND	ug/L
Chlordane	2.0	ND	ug/L
4,4'-DDD	3.0	ND	ug/L
,4'-DDE	2.0	ND	ug/L
,4'-DDT	3.0	ND	ug/L
Dieldrin	2.0	ND	ug/L
ndosulfan I	2.0	ND	ug/L
ndosulfan II	3.0	ND	ug/L
Endosulfan Sulfate	3.0	ND	ug/L
ndrin	2.0	ND	ug/L
ndrin Aldehyde	4.0	ND	ug/L
Heptachlor	2.0	ND	ug/L
Heptachlor Epoxide	2.0	ND	ug/L
oxaphene	20	ND	ug/L
roclor 1016	20	ND	ug/L
Aroclor 1221	20	ND	ug/L
roclor 1232	20	ND	ug/L
roclor 1242	20	ND	ug/L
Aroclor 1248	20	ND	ug/L
roclor 1254	20	ND	ug/L
roclor 1260	20	ND	ug/L

ND = Not Detected

Comments: Lab Sample ID: GIL2034 D
: Date Analyzed: 12/18/89
: Analyzed by GC Method 608 on a 1.5%SP2250/1.95%SP2401 Packed Column
: Extraction Procedure Exhibit 7A

Signed: David Turnoff Date: December 20, 1989

SCI ENVIRONMENTAL, INC.
LABORATORY SERVICES DIVISION

DATA SUMMARY

Client: Mr. Steve Thuemling
Giles Engineering Assoc.
N8 W22350 Johnson Rd.
Waukesha, Wi. 53186

SCIE Sample No.: 2009
Project No.: 90-1013-1
Sample Matrix: Water

Date Sampled: 1/08/90
Date Received: 1/09/90
Date Analyzed: 1/10/90
Analytical Method: EPA 601/602

Sampled By: Client
Sample Location: Unknown
Sample Identity: Well #1

Compound	Method Detection Limit (ppb)	Concentration (ppb)
Bromodichloromethane	5.0	< 5.0
Bromoform	5.0	< 5.0
Bromomethane	20.0	<20.0
Carbon Tetrachloride	5.0	< 5.0
Chlorobenzene	5.0	< 5.0
2-Chloroethyl Vinyl Ether	5.0	< 5.0
Chloroform	5.0	< 5.0
Chloromethane	20.0	<20.0
Dibromochloromethane	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
1,2-Dichloroethane	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
trans-1,2-Dichloroethene	5.0	< 5.0
1,2-Dichloropropane	5.0	< 5.0
cis-1,3-Dicloropropene	5.0	< 5.0
trans-1,3-Dichloropropene	5.0	< 5.0
Methylene Chloride	5.0	< 5.0
1,1,2,2-Tetrachlorethane	5.0	< 5.0
Tetrachloroethene	5.0	< 5.0
1,1,1-Trichloroethane	5.0	< 5.0
1,1,2-Trichloroethane	5.0	< 5.0
Trichloroethene	5.0	< 5.0
Chloroethane	20.0	<20.0
Trichlorofluoromethane	5.0	< 5.0
Dichlorodifluoromethane	5.0	< 5.0
Vinyl chloride	20.0	<20.0
Benzene	5.0	< 5.0
Toluene	5.0	< 5.0
Ethylbenzene	5.0	< 5.0
Xylenes	5.0	< 5.0

Submitted By,

1-11-90
Date

Gregory J Leas
Gregory Leas
Laboratory Manager

345 Chesterfield Industrial Boulevard • Chesterfield, Missouri 63005 • (314) 537-9901 • FAX 537-1829

SCI ENVIRONMENTAL, INC.
LABORATORY SERVICES DIVISION

DATA SUMMARY

Client: Mr. Steve Thuemling
Giles Engineering Assoc.
N8 W22350 Johnson Rd.
Waukesha, Wi. 53186

SCIE Sample No.: 2010
Project No.: 90-1013-1
Sample Matrix: Water

Date Sampled: 1/08/90
Date Received: 1/09/90
Date Analyzed: 1/10/90
Analytical Method: EPA 601/602

Sampled By: Client
Sample Location: Unknown
Sample Identity: Well #2

Compound	Method Detection Limit (ppb)	Concentration (ppb)
Bromodichloromethane	5.0	< 5.0
Bromoform	5.0	< 5.0
Bromomethane	20.0	<20.0
Carbon Tetrachloride	5.0	< 5.0
Chlorobenzene	5.0	< 5.0
2-Chloroethyl Vinyl Ether	5.0	< 5.0
Chloroform	5.0	< 5.0
Chloromethane	20.0	<20.0
Dibromochloromethane	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
1,2-Dichloroethane	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
trans-1,2-Dichloroethene	5.0	< 5.0
1,2-Dichloropropane	5.0	< 5.0
cis-1,3-Dicloropropene	5.0	< 5.0
trans-1,3-Dichloropropene	5.0	< 5.0
Methylene Chloride	5.0	< 5.0
1,1,2,2-Tetrachlorethane	5.0	< 5.0
Tetrachloroethene	5.0	< 5.0
1,1,1-Trichloroethane	5.0	< 5.0
1,1,2-Trichloroethane	5.0	< 5.0
Trichloroethene	5.0	< 5.0
Chloroethane	20.0	<20.0
Trichlorofluoromethane	5.0	< 5.0
Dichlorodifluoromethane	5.0	< 5.0
Vinyl chloride	20.0	<20.0
Benzene	5.0	< 5.0
Toluene	5.0	< 5.0
Ethylbenzene	5.0	< 5.0
Xylenes	5.0	< 5.0

Submitted By,

1-11-90
Date

Gregory J. Leas
Gregory Leas,
Laboratory Manager

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SCI ENVIRONMENTAL, INC.
LABORATORY SERVICES DIVISION

DATA SUMMARY

Client: Mr. Steve Thuemling
Giles Engineering Assoc.
N8 W22350 Johnson Rd.
Waukesha, Wi. 53186

SCIE Sample No.: 2011
Project No.: 90-1013-1
Sample Matrix: Water

Date Sampled: 1/08/90
Date Received: 1/09/90
Date Analyzed: 1/10/90
Analytical Method: EPA 601/602

Sampled By: Client
Sample Location: Unknown
Sample Identity: Well #3

Compound	Method Detection Limit (ppb)	Concentration (ppb)
Bromodichloromethane	5.0	< 5.0
Bromoform	5.0	< 5.0
Bromomethane	20.0	<20.0
Carbon Tetrachloride	5.0	< 5.0
Chlorobenzene	5.0	< 5.0
2-Chloroethyl Vinyl Ether	5.0	< 5.0
Chloroform	5.0	< 5.0
Chloromethane	20.0	<20.0
Dibromochloromethane	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
1,2-Dichloroethane	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
trans-1,2-Dichloroethene	5.0	< 5.0
1,2-Dichloropropane	5.0	< 5.0
cis-1,3-Dicloropropene	5.0	< 5.0
trans-1,3-Dichloropropene	5.0	< 5.0
Methylene Chloride	5.0	< 5.0
1,1,2,2-Tetrachlorethane	5.0	< 5.0
Tetrachloroethene	5.0	< 5.0
1,1,1-Trichloroethane	5.0	< 5.0
1,1,2-Trichloroethane	5.0	< 5.0
Trichloroethene	5.0	< 5.0
Chloroethane	20.0	<20.0
Trichlorofluoromethane	5.0	< 5.0
Dichlorodifluoromethane	5.0	< 5.0
Vinyl chloride	20.0	<20.0
Benzene	5.0	< 5.0
Toluene	5.0	< 5.0
Ethylbenzene	5.0	< 5.0
Xylenes	5.0	< 5.0

Submitted By,

1-11-90
Date

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Gregory Leas,
Laboratory Manager

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SCI ENVIRONMENTAL, INC.
LABORATORY SERVICES DIVISION

DATA SUMMARY

Client: Mr. Steve Thuemling
Giles Engineering Assoc.
N8 W22350 Johnson Rd.
Waukesha, Wi. 53186

SCIE Sample No.: 2012
Project No.: 90-1013-1
Sample Matrix: Water

Date Sampled: 1/08/90
Date Received: 1/09/90
Date Analyzed: 1/10/90
Analytical Method: EPA 601/602

Sampled By: Client
Sample Location: Unknown

Sample Identity: Well #4

Compound	Method Detection Limit (ppb)	Concentration (ppb)
Bromodichloromethane	5.0	< 5.0
Bromoform	5.0	< 5.0
Bromomethane	20.0	<20.0
Carbon Tetrachloride	5.0	< 5.0
Chlorobenzene	5.0	< 5.0
2-Chloroethyl Vinyl Ether	5.0	< 5.0
Chloroform	5.0	< 5.0
Chloromethane	20.0	<20.0
Dibromochloromethane	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
1,2-Dichloroethane	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
trans-1,2-Dichloroethene	5.0	< 5.0
1,2-Dichloropropane	5.0	< 5.0
cis-1,3-Dicloropropene	5.0	< 5.0
trans-1,3-Dichloropropene	5.0	< 5.0
Methylene Chloride	5.0	< 5.0
1,1,2,2-Tetrachlorethane	5.0	< 5.0
Tetrachloroethene	5.0	< 5.0
1,1,1-Trichloroethane	5.0	< 5.0
1,1,2-Trichloroethane	5.0	< 5.0
Trichloroethene	5.0	< 5.0
Chloroethane	20.0	<20.0
Trichlorofluoromethane	5.0	< 5.0
Dichlorodifluoromethane	5.0	< 5.0
Vinyl chloride	20.0	<20.0
Benzene	5.0	< 5.0
Toluene	5.0	< 5.0
Ethylbenzene	5.0	< 5.0
Xylenes	5.0	< 5.0

Submitted By,

1-11-90
Date

Gregory J Leas
Gregory Leas,
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SCI ENVIRONMENTAL, INC.
LABORATORY SERVICES DIVISION

DATA SUMMARY

Client: Mr. Steve Thuemling
Giles Engineering Assoc.
N8 W22350 Johnson Rd.
Waukesha, Wi. 53186

SCIE Sample No.: 2013
Project No.: 90-1013-1
Sample Matrix: Water

Date Sampled: 1/08/90
Date Received: 1/09/90
Date Analyzed: 1/10/90
Analytical Method: EPA 601/602

Sampled By: Client
Sample Location: Unknown
Sample Identity: Well #5

Compound	Method Detection Limit (ppb)	Concentration (ppb)
Bromodichloromethane	5.0	< 5.0
Bromoform	5.0	< 5.0
Bromomethane	20.0	<20.0
Carbon Tetrachloride	5.0	< 5.0
Chlorobenzene	5.0	< 5.0
2-Chloroethyl Vinyl Ether	5.0	< 5.0
Chloroform	5.0	< 5.0
Chloromethane	20.0	<20.0
Dibromochloromethane	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
1,2-Dichloroethane	5.0	< 5.0
1,1-Dichloroethene	5.0	< 5.0
trans-1,2-Dichloroethene	5.0	< 5.0
1,2-Dichloropropane	5.0	< 5.0
cis-1,3-Dicloropropene	5.0	< 5.0
trans-1,3-Dichloropropene	5.0	< 5.0
Methylene Chloride	5.0	< 5.0
1,1,2,2-Tetrachlorethane	5.0	< 5.0
Tetrachloroethene	5.0	< 5.0
1,1,1-Trichloroethane	5.0	< 5.0
1,1,2-Trichloroethane	5.0	< 5.0
Trichloroethene	5.0	< 5.0
Chloroethane	20.0	<20.0
Trichlorofluoromethane	5.0	< 5.0
Dichlorodifluoromethane	5.0	< 5.0
Vinyl chloride	20.0	<20.0
Benzene	5.0	< 5.0
Toluene	5.0	< 5.0
Ethylbenzene	5.0	< 5.0
Xylenes	5.0	< 5.0

Submitted By,

1-11-90
Date

Gregory J Leas
Gregory Leas,
Laboratory Manager

245 Chesterfield Industrial Boulevard • Chesterfield, Missouri 63005 • (314) 537-9901 • FAX 537-1829

APPENDIX

The boring logs and related information enclosed in the appendix depict subsurface conditions only at the specific locations drilled and at the particular times designated on the logs. Soil conditions at other locations may differ from conditions occurring at these boring locations. Also the passage of time may result in a change in the soil conditions at the boring locations drilled.

APPENDIX H

BUREAU OF INDIAN AFFAIRS CONTAMINANT SURVEY CHECKLIST

Phase I Survey:
Contaminant Survey Checklist
for Proposed Real Estate Acquisitions
(Rev. 4/2002)

INSTRUCTIONS: Check for each category. Explain briefly where something other than "no", "None", or "Not Applicable" is checked. Discuss whether a Phase II or III Survey will be recommended. Describe the distance if nearby is checked and whether there is a known potential pathway for contamination on site. Attach a legal description of the real estate property covered by this Survey.

A. Background Information

Bureau Name Bureau of Indian Affairs

SiteName Kenosha Casino **County** Kenosha **State** WI

APN#: 08-222-31-401-001 **Acres** 223 **Reservation** NA

Date of Survey 4/19/04, 4/20/04 **By Print Name** _____

Follow-up visits: 8/4/04, 8/5/04

B. Site Inspection Screen:

	On Site	Near-by	None
1. Dumps, radioactive materials, hazardous waste, especially with drums or containers (Read labels if possible; DO NOT open or handle! If no labels, note identifying characteristics)	___	___	___
2. Other debris: household, farm, industrial waste	___	___	___
3. Fills: possible cover for dumps	___	___	___
4. Unusual chemical odors	___	___	___
5. Storage tanks: petroleum products pesticides, etc.	___	___	___
6. Buildings: Asbestos materials, radon, lead based paint, chemical storage, equipment repair, solvents	___	___	___
7. Structures – evidence of asbestos sprayed fire proofing, acoustical plaster, also see #6 above	___	___	___
8. Vegetation different from surrounding for no apparent reason, e.g. bare ground	___	___	___
9. "Sterile" or modified water bodies	___	___	___
10. Oil seeps, stained ground, discolored stream banks	___	___	___
11. Oil slicks on water, unusual colors on water	___	___	___
12. Spray operation base: air strip, equipment parking area	___	___	___
13. Machinery repair areas	___	___	___
14. Pipelines or major electrical equipment	___	___	___
15. Oiled or formerly oiled roads	___	___	___
16. Electric transmission lines: pole or pad mounted transformers (any leakage?)	___	___	___

C. **Record Searches (Coordinate with Realty Title Search, and Other Appropriate Searches.)**

1. **Past uses which might indicate potential problems at the site (CIRCLE any that are applicable.)**
   Manufacturing, service stations, dry cleaning, air strip, pipelines, railroad lines, facilities with large electrical transformers or pumping equipment, petroleum production, landfills, scrap metal, auto, or battery recycling, military, labs, wood preserving, other describe _____ **None ___**

2. **Nearby land uses, especially upstream or up gradient, or that might have had waste to dump at site (see list under Past Uses) Identify: _____.** **None ___**

3. **Known contaminant sites in vicinity NPL, state sites, candidate sites (check with EPA; State EPA counterpart)** **Yes ___** **No ___**

4. **Interviews on past use: owners, neighbors, County agents and any appropriate Federal Authorities: Problems:** **Yes ___** **No ___**

5. **Agricultural drainage history: surface, subsurface drains.** **Yes ___** **No ___**

D. **In acquiring land from another Federal agency, that agency has notified the Department of the past or current presence of a hazardous substance under Section 120(h) of CERCLA (Superfund).**

Not applicable ___ **Yes ___** **No ___**

E. **Has a non-Federal entity identified any Hazardous materials problems on or near The site surveyed?** **Yes ___** **No ___**

F. **A Phase II Study is Recommended.** **Yes ___** **No ___**
A Phase III Study is Recommended. **Yes ___** **No ___**

G. Required Supplemental Information

ALL ATTACHMENTS ARE ATTACHED IMMEDIATELY BEHIND THIS PAGE.

Attachment A.

Consultants Phase 1 report or your narrative description of the parcel and any contamination sites, justification for your certification, aerial and ground parcel site color photographic prints and also maps illustrating potential contamination site locations thereof, etc.

Attachment B.

Aerial photographic prints and dates taken _____

Attachment C.

Parcel site color photographic prints and date taken _____

Attachment D.

Map showing location of potential contamination sites.

H. Potential Limits on Federal Liability

1. **Another Federal agency has certified that contaminants are not present on the site and/or agreed to assume full liability for any contamination which does exist. (Attach copies of documents for review by the Office of the Solicitor.)**

   Identify:_____

2. **An individual or non-Federal entity has certified that contaminants are not present on the site an/or agreed to assume full liability for any contamination which does exist. (Attach copies of documents for review by the Office of the Solicitor.)**

   Identify:_____

I. CERTIFICATION by Consultant or Agency Environmental Protection Spec.

1. I hereby certify that to the best of my knowledge no contaminants are present on this real estate, and there are no obvious signs of any effects of contamination.

Signed _____ Print Name _____

Date _____ Title _____

2. On the basis of the information collected to complete this form, it is possible to reasonably conclude that there is a potential for contaminants, or the effects of contaminants, to be present on this real estate.

Signed _____ Print Name _____

Date _____ Title _____

3. The surveyed real estate, or a portion thereof, contains contaminants. The owner of that real estate has/will cleanup the contaminants to Bureau specifications. A Phase II or Phase III Survey is not required.

Signed _____ Print Name _____

Date _____ Title _____

J. Agency Environmental Protection Specialist - Reviewed the report findings and conclusions in the field with the above consulting company and recommend approval.

Signed _____ Print Name _____

Date _____ Title _____

K. Pacific Regional Office - Reviewed and recommend approval.

Signed _____ Print Name _____

Date _____ Title _____

L. Pacific Regional Office - Approving Official:

I approve the above report and its certification.

Signed _____ Print Name _____

Date _____ Title _____