

GIS REGISTRY

Cover Sheet

July, 2008
(RR 5367)

Source Property Information

BRRTS #: 02-05-000390

ACTIVITY NAME: W C L ASHLAND AVE RR YARD

PROPERTY ADDRESS: 901 5th ST

MUNICIPALITY: GREEN BAY

PARCEL ID #: 1-1404 & 2-958

CLOSURE DATE: 06/11/2001

FID #: 405140780

DATCP #:

COMM #:

*WTM COORDINATES:

X: 676327 Y: 450178

** Coordinates are in
WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

Approximate Center Of Contaminant Source

Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

Groundwater Contamination > ES (236)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property")*

Soil Contamination > *RCL or **SSRCL (232)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property")*

Land Use Controls:

Soil: maintain industrial zoning (220)

*(note: soil contamination concentrations
between residential and industrial levels)*

Structural Impediment (224)

Site Specific Condition (228)

Cover or Barrier (222)

*(note: maintenance plan for
groundwater or direct contact)*

Vapor Mitigation (226)

Maintain Liability Exemption (230)

*(note: local government or economic
development corporation)*

Monitoring wells properly abandoned? (234)

Yes No N/A

** Residual Contaminant Level*

***Site Specific Residual Contaminant Level*

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 02-05-000390 PARCEL ID #: 1-1404 & 2-958

ACTIVITY NAME: W C L ASHLAND AVE RR YARD WTM COORDINATES: X: 676327 Y: 450178

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Conditional Closure Letter**
- Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: **Title:**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

- Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.
- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: 1 **Title: Site Location Diagram**
 - Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 1 **Title: Existing Site Conditions 7-95**
 - Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 3 **Title: Soil DRO and Benzene Concentrations**

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ACTIVITY NAME: W C L ASHLAND AVE RR YARD

MAPS (continued)

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 4 **Title: Cross Section A-A'**

Figure #: **Title:**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

Note: This is intended to show the total area of contaminated groundwater.

Figure #: 5 **Title: Groundwater Table Map (12-12-96)**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 5 **Title: Groundwater Table Map (12-12-96)**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 4 **Title: Summary of Laboratory Soil Analyses**

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 11 **Title: '93 -'96 Sampling**

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: **Title:**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

Note: If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

Note: If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

Figure #: **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

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ACTIVITY NAME: W C L ASHLAND AVE RR YARD

NOTIFICATIONS

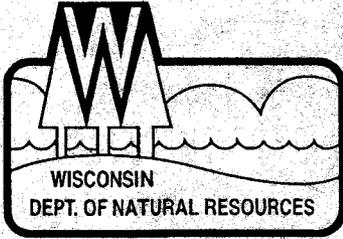
Source Property

- Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.
Number of "Off-Source" Letters:
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).
Number of "Governmental Unit/Right-Of-Way Owner" Letters:



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Ronald W. Kazmierczak, Regional Director

Remediation and Redevelopment
1125 North Military Avenue
P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5916
FAX 920-492-5859
TTY 920-492-5812

June 11, 2001

Mr. Geoffrey Nokes
Wisconsin Central Limited
P.O. Box 5062
Rosemont, IL 60017-5062

SUBJECT: Wisconsin Central Railroad Yard (Ashland Yard), 905 5th Street,
Green Bay, Wisconsin
WDNR BRRTS # 02-05-000390

Dear Mr. Nokes:

On January 9, 1991, the Wisconsin Department of Natural Resources provided a notice to you that the degree and extent of the petroleum contamination at the above named site was required to be investigated and remediated. We have since been informed that the required investigation and remediation has been accomplished.

On June 2, 1999, the above named site was reviewed by the Remediation and Redevelopment's Northeast Region Closure Committee for a determination as to whether or not the case qualified for closeout under ch. NR 726, Wis. Adm. Code.

The Department has received a copy of the completed soil and groundwater use deed restriction for the above referenced site and proof of filing this record with the Brown County Register of Deeds. Based on the investigative and remedial documentation provided to the Department, it appears that the petroleum contamination at the above named site has been remediated to the extent practicable under current site conditions. Therefore, conditional closure of this site has been granted and no further action is necessary at this time. In the future, this soil and groundwater use deed restriction may be amended with approval from the Department if conditions change at the site and the residual contamination has been remediated.

If you have any additional relevant information concerning this matter which was not formerly provided to the Department, you should submit this information to the Department for reevaluation.

The Department's records will reflect final "closure." If you have any questions regarding this determination, please contact me in Green Bay at (920) 492-5943.

Sincerely,

Kristin DuFresne
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Bob Mottl, STS Consultants Ltd.
1035 Kepler Drive, Green Bay, WI 54311

WHEREAS, one or more petroleum discharges have occurred on this property. On July 26, 1994, Fluorene contaminated groundwater above the ch. NR 140 Wis. Adm. Code enforcement standard existed on this property at the former location of soil boring K-250 at a concentration of 825 parts per billion (ppb) which is above the ch. NR 140 Wis. Adm. Code enforcement standard of 400 ppb for Fluorene. On July 26, 1994, Naphthalene contaminated groundwater above the ch. NR 140 Wis. Adm. Code enforcement standard existed on this property at the former location of soil boring K-250 at a concentration of 598 ppb which is above the ch. NR 140 Wis. Adm. Code enforcement standard of 40 ppb for Naphthalene. On December 12, 1996, Benzene contaminated groundwater above the ch. NR 140 Wis. Adm. Code enforcement standard existed on this property at the former location of groundwater monitoring well MW-10 at a concentration of 13 ppb which is above the ch. NR 140 Wis. Adm. Code enforcement standard of 5 ppb for Benzene. On December 12, 1996, Benzo(a)pyrene contaminated groundwater above the ch. NR 140 Wis. Adm. Code enforcement standard existed on this property at the former location of groundwater monitoring well MW-15 at a concentration of 0.92 ppb which is above the ch. NR 140 Wis. Adm. Code enforcement standard of 0.2 ppb for Benzo(a)pyrene. On December 12, 1996, Benzo(b)fluoranthene contaminated groundwater above the ch. NR 140 Wis. Adm. Code enforcement standard existed on this property at the former location of groundwater monitoring well MW-15 at a concentration of 0.51 ppb which is above the ch. NR 140 Wis. Adm. Code enforcement standard of 0.2 ppb for Benzo(b)fluoranthene. On December 12, 1996, Chrysene contaminated groundwater above the ch. NR 140 Wis. Adm. Code enforcement standard existed on this property at the former location of groundwater monitoring well MW-15 at a concentration of 1.1 ppb which is above the ch. NR 140 Wis. Adm. Code enforcement standard of 0.2 ppb for Chrysene. On August 18, 1993, Lead contaminated soil above the ch. NR 720 Wis. Adm. Code non-industrial residual contaminant level existed on this property at the former location of groundwater monitoring well MW-19 at a concentration of 117 parts per million (ppm), which is above the ch. NR 720 Wis. Adm. Code non-industrial residual contaminant level of 50 ppm for Lead. On August 16, 1993, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of soil boring B-14 at a concentration of 590 ppm, which is above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Diesel Range Organics. On August 17, 1993, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of piezometer PZ-8 and soil boring B-17 and B-18 at concentrations of 6,300 ppm, 580 ppm and 2,500 ppm, respectively, which are above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Diesel Range Organics. On August 18, 1993, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 5,500 ppm which is above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Diesel Range Organics. On August 19, 1993, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of piezometer PZ-11 and soil boring B-4A and B-13 at concentrations of 7,000 ppm, 1,100 ppm and 1,600 ppm, respectively, which are above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for

Diesel Range Organics. On July 25, 1994, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of soil boring G-100, H-200 and I-300 at concentrations of 15,400 ppm, 96,300 ppm and 16,300 ppm, respectively, which are above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Diesel Range Organics. On July 26, 1994, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of soil boring B-50, B-100, and K-250 at concentrations of 22,200 ppm, 14,800 ppm, and 25,400 ppm, respectively, which are above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Diesel Range Organics. On July 26, 1997, Diesel Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of soil boring H.75-325 at a concentration of 1,890 ppm, which is above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Diesel Range Organics. On August 18, 1993, Gasoline Range Organics contaminated soil above the ch. NR 720 Wis. Adm. Code residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 1,200 ppm which is above the ch. NR 720 Wis. Adm. Code residual contaminant level of 250 ppm for Gasoline Range Organics. On August 18, 1993, Acenaphthylene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 1,670 parts per billion (ppb), which is above the suggested residual contaminant level of 700 ppb for Acenaphthylene. On August 18, 1993, 1-Methyl Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 53,500 ppb, which is above the suggested residual contaminant level of 23,000 ppb for 1-Methyl Naphthalene. On August 19, 1993, 1-Methyl Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of piezometer PZ-11 and soil boring B-13 at concentrations of 296,000 ppb and 134,000 ppb, which are above the suggested residual contaminant level of 23,000 ppb for 1-Methyl Naphthalene. On August 18, 1993, 2-Methyl Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 92,800 ppb, which is above the suggested residual contaminant level of 20,000 ppb for 2-Methyl Naphthalene. On August 19, 1993, 2-Methyl Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of piezometer PZ-11 and soil boring B-13 at concentrations of 502,000 ppb and 213,000 ppb, which are above the suggested residual contaminant level of 20,000 ppb for 2-Methyl Naphthalene. On August 17, 1993, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of piezometer PZ-8 and soil boring B-17 at concentrations of 2,020 ppb and 1,810 ppb, respectively, which are above the suggested residual contaminant level of 400 ppb for Naphthalene. On August 18, 1993, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 2,990 ppb which is above the suggested residual contaminant level of 400 ppb for Naphthalene. On August 19, 1993, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former

location of piezometer PZ-11 and soil boring B-13 at concentrations of 84,400 ppb and 15,400 ppb, respectively, which are above the suggested residual contaminant level of 400 ppb for Naphthalene. On July 25, 1994, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring F+100, H+50, H-100 and I-300 at concentrations of 866 ppb, 1,180 ppb, 798 ppb and 1,270 ppb, respectively, which are above the suggested residual contaminant level of 400 ppb for Naphthalene. On July 26, 1994, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring K-250 at a concentration of 790 ppb, which is above the suggested residual contaminant level of 400 ppb for Naphthalene. On July 27, 1994, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring A-200 and Z+100 at concentrations of 622 ppb and 660 ppb, respectively, which is above the suggested residual contaminant level of 400 ppb for Naphthalene. On July 26, 1997, Naphthalene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring H.75-325 at a concentration of 813 ppb, which is above the suggested residual contaminant level of 400 ppb for Naphthalene. On August 17, 1993, Phenanthrene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of piezometer PZ-8 and soil boring B-17 at concentrations of 3,640 ppb and 9,720 ppb, which are above the suggested residual contaminant level of 1,800 ppb for Phenanthrene. On August 18, 1993, Phenanthrene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of soil boring B-12 at a concentration of 51,100 ppb, which is above the suggested residual contaminant level of 1,800 ppb for Phenanthrene. On August 19, 1993, Phenanthrene contaminated soil above the suggested generic residual contaminant level existed on this property at the former location of piezometer PZ-11 and soil boring B-13 at concentrations of 185,000 ppb and 109,000 ppb, respectively, which are above the suggested residual contaminant level of 1,800 ppb for Phenanthrene. The locations of former soil borings, piezometers and monitoring wells is provided on Figure 1 attached and made part of this restriction.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140, Wis. Adm. Code groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809, Wis. Adm. Code is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, WALTER C. KELLY asserts that he/she is duly authorized to sign this document on behalf of Wisconsin Central Ltd.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 22nd day of NOVEMBER, 2000.

Signature: X *Walter C. Kelly*
Printed Name: WALTER C. KELLY
Title: V.P.-C.F.O. N.A.

Subscribed and sworn to before me
this 22nd day of NOVEMBER, 2000.

Gregory L. Davis, Sr.

"OFFICIAL SEAL"
GREGORY L. DAVIS, SR.
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 07/14/01



Boundary Description

A parcel of land located in the South three-fifths of Private Claim No.4, West Side of Fox River, City of Green Bay, Brown County, Wisconsin. Being more particularly described as follows and as identified on sheet 2 of 2:

Commencing at the Southeast corner of Block 85 as platted in Freytags Addition to the City of Green Bay, as recorded in File 1, Envelope G, Page 31, records of Brown County;

thence S 22°24'04" W, a distance of 210.66 feet to the POINT OF BEGINNING,

thence S 38°07'18" W, a distance of 216.00 feet,

thence N 51°52'42" W, a distance of 151.11 feet,

thence N 38°07'18" E, a distance of 107.22 feet,

thence N 51°52'42" W, a distance of 102.24 feet,

thence S 38°07'18" W, a distance of 93.77 feet,

thence S 51°52'42" E, a distance of 22.36 feet,

thence S 38°07'18" W, a distance of 61.70 feet,

thence S 49°30'44" E, a distance of 175.16 feet,

thence S 40°29'16" W, a distance of 60.00 feet,

thence N 49°30'44" W, a distance of 5.00 feet,

thence S 40°29'16" W, a distance of 101.06 feet,

thence S 49° 30'44" E, a distance of 171.12 feet;

thence S 66°46'37" E, a distance of 245.86 feet,

thence S 83°20'20" E, a distance of 274.73 feet,

thence S 73°32'33" E, a distance of 100.00 feet,

thence N 16°27'27" E, a distance of 70.66 feet,

thence N 64°09'12" W, a distance of 108.13 feet,

thence N 16°27'27" E, a distance of 90.60 feet,

thence N 64°36'35" W, a distance of 106.91 feet,

thence N 58°02'21" W, a distance of 145.77 feet,

thence N 38°07'18" E, a distance of 108.09 feet,

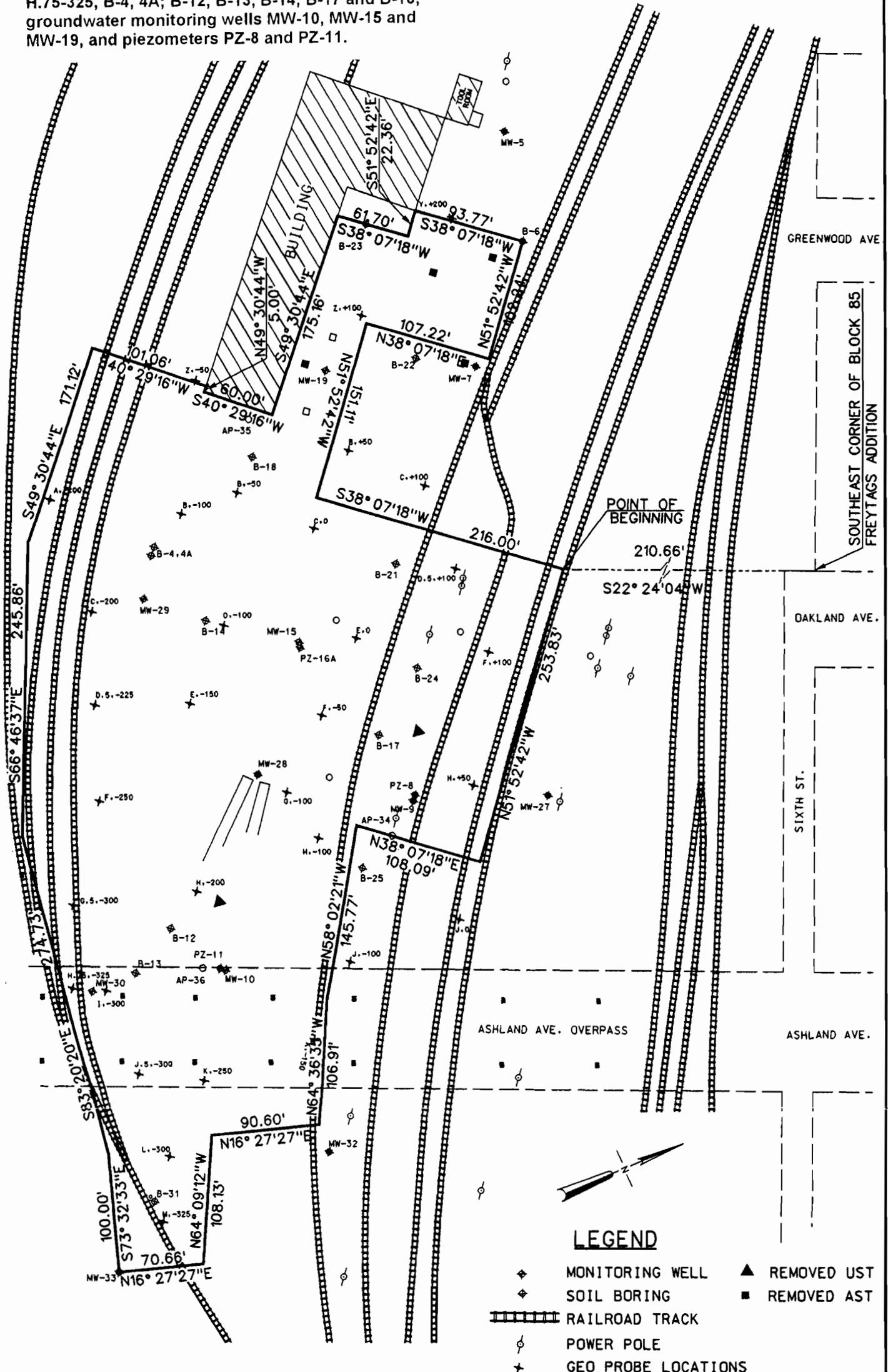
thence N 51°52'42" W, a distance of 253.83 feet to the POINT OF BEGINNING

Said parcel contains 220,384 square feet or 5.06 acres and is subject to all easements and other matters of record.



This instrument drafted by: Francis M. Heafy RLS # 2079.

Petroleum contaminated soil and/or groundwater remains at the former location of soil borings A-200, H.75-325, B-4, 4A; B-12, B-13, B-14, B-17 and B-18, groundwater monitoring wells MW-10, MW-15 and MW-19, and piezometers PZ-8 and PZ-11.



LEGEND

- ◆ MONITORING WELL
- ◆ SOIL BORING
- ▬ RAILROAD TRACK
- ⊕ POWER POLE
- ★ GEO PROBE LOCATIONS
- ▲ REMOVED UST
- REMOVED AST

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04/06/00 09:45:24 AM



STS Consultants Ltd.
Consulting Engineers

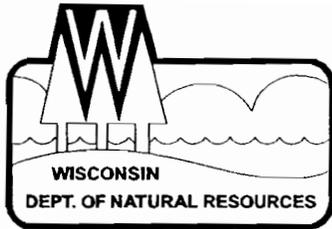
**WISCONSIN CENTRAL RAILROAD
ASHLAND AVENUE YARD
GROUNDWATER USE RESTRICTION
BOUNDARY DESCRIPTION**

DRAWN BY	FMH	04/00
CHECKED BY	RJM	04/00
APPROVED BY	MAB	04/00
CADFILE	SCALE	
...20351sv1a.dgn	1"=100'	
STS PROJECT NO.	SHEET NO.	
20351WA	2 of 2	

Notary Public, State of ILLINOIS

My commission EXPIRES 7/14/01

This document was drafted by the Wisconsin Department of Natural Resources based on information provided by STS Consultants Ltd.



August 16, 1999

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ronald W. Kazmierczak, Regional Director

Remediation and Redevelopment
1125 North Military Avenue
P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5916
FAX 920-492-5859
TTY 920-492-5812

Mr. Geoffrey Nokes
Wisconsin Central Ltd.
P.O. Box 5062
Rosemont, IL 60017-5062

SUBJECT: Soil and Groundwater Use Deed Restriction for Wisconsin Central Railroad Yard (Ashland Yard), 901 5th Street, Green Bay, Wisconsin WDNR BRRTS # 02-05-000390

Dear Mr. Nokes:

On June 2, 1999, the Bureau for Remediation and Redevelopment's Northeast Region Closure Committee met to discuss the above referenced site. The committee has agreed to close this site pending the completion and filing of a soil and groundwater use deed restriction. This soil and groundwater use deed restriction will state that inaccessible soil and groundwater contamination may remain at this site and that additional remedial action is not feasible at this time. The document would be placed in the file with the deed running with the property.

Only when the soil and groundwater use deed restriction has been finalized and filed with Brown County and proof of filing the soil and groundwater use deed restriction has been received by the Department, can this site be closed. To expedite the completion of the soil and groundwater use deed restriction and closure process, the Department requests that you submit the following:

- a complete, legible and unabbreviated legal description of the property
- a copy of the most recent deed for your property
- available maps, such as a survey map, showing the property boundaries, building outlines, and monitoring well/piezometer locations

If you do not have these documents they can be obtained from the Brown County Register of Deeds. Once this information is received, the Department will send you a draft copy of the soil and groundwater use deed restriction containing language regarding the remaining petroleum contamination.

If the draft is accurate and acceptable, please sign it, file it with the Register of Deeds office and return a copy of the signed and filed restriction to the Department for our records. The Department must also receive documentation of proper abandonment of any and all monitoring wells, extraction wells, piezometers, sumps, and soil venting systems if you do not intend to perform long term monitoring at your site. Once all this information is received, the site will be conditionally closed.

This soil and groundwater use deed restriction is an option that the Department can offer in order to conditionally close this site. If you choose not to accept this option you will need to perform additional investigation and cleanup of the remaining contamination. Within **14 days** of receipt of this notice please submit a letter to the Department documenting your intentions.

If you have any additional relevant information concerning this matter which was not formerly provided to the Department, you should submit this information to the Department for reevaluation.

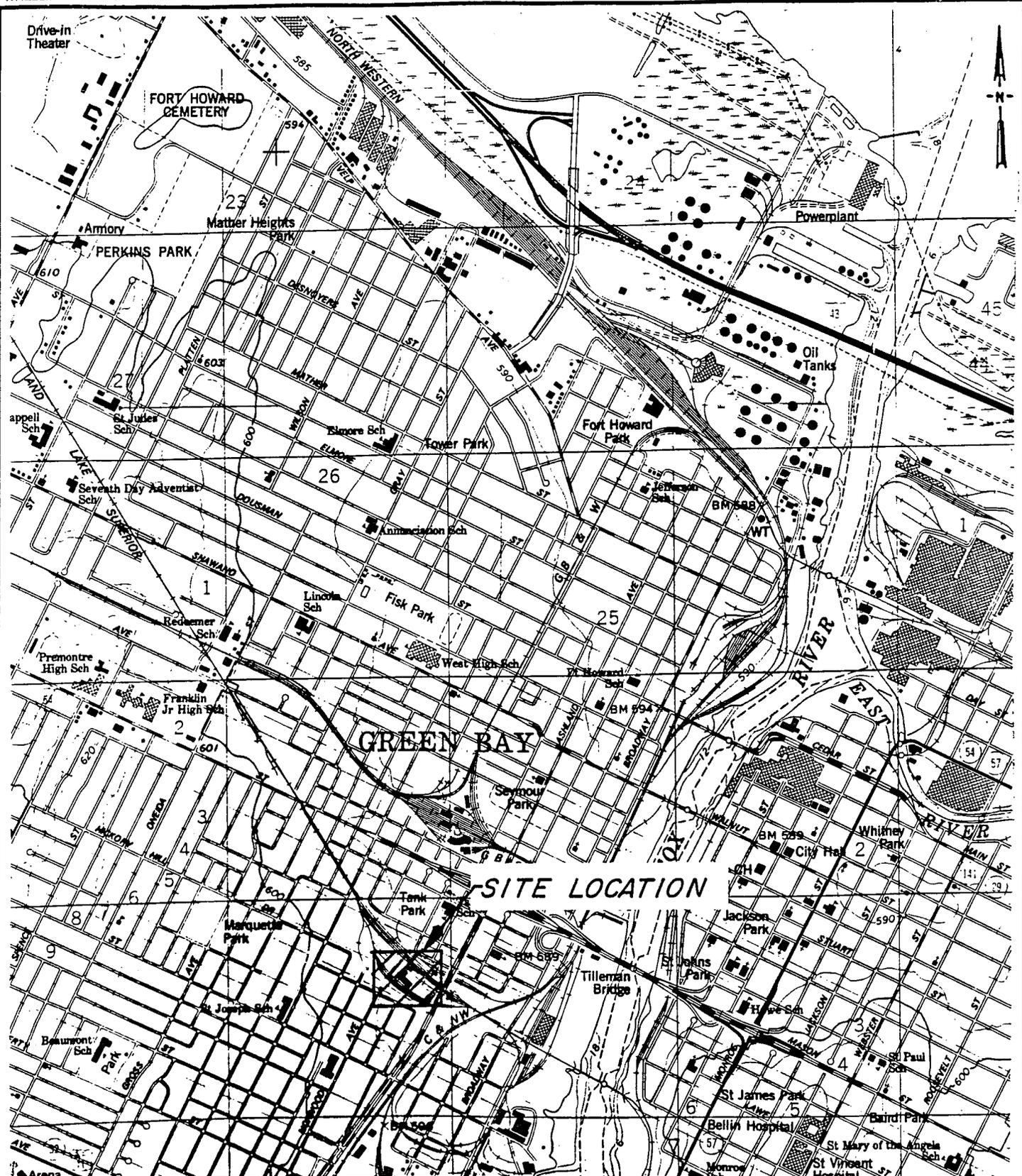
If you have any questions, please contact me in Green Bay at (920) 492-5943.

Sincerely,

A handwritten signature in black ink, appearing to read "Kristin Nell". The signature is fluid and cursive, with the first name "Kristin" and the last name "Nell" clearly distinguishable.

Kristin Nell
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Bob Mottl, STS Consultants Ltd.
1035 Kepler Drive, Green Bay, WI 54311



MAP SOURCE: GREEN BAY, WIS. QUADRANGLE
DATED 1982.



STS Consultants Ltd.
Consulting Engineers

PROJECT/CLIENT

WISCONSIN CENTRAL LTD.
GREEN BAY ROUNDHOUSE
GREEN BAY, WI.

SITE LOCATION DIAGRAM

DRAWN BY	P.D.P.	7-19-93
CHECKED BY	PJM	10-30-93
APPROVED BY		
SCALE	1" = 2000'	FIGURE NO.
STS DRAWING NO.		20351W

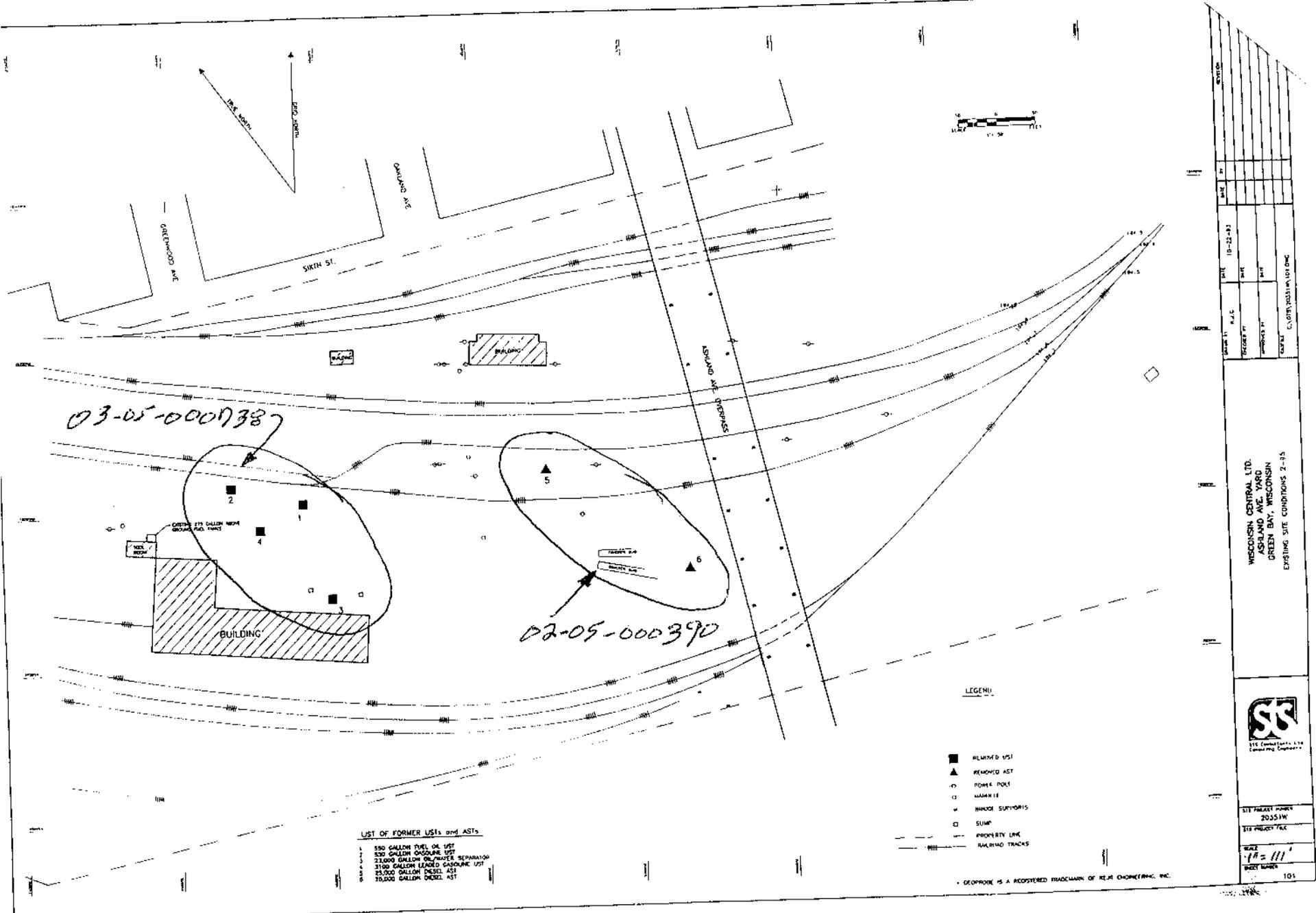
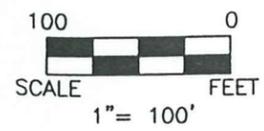
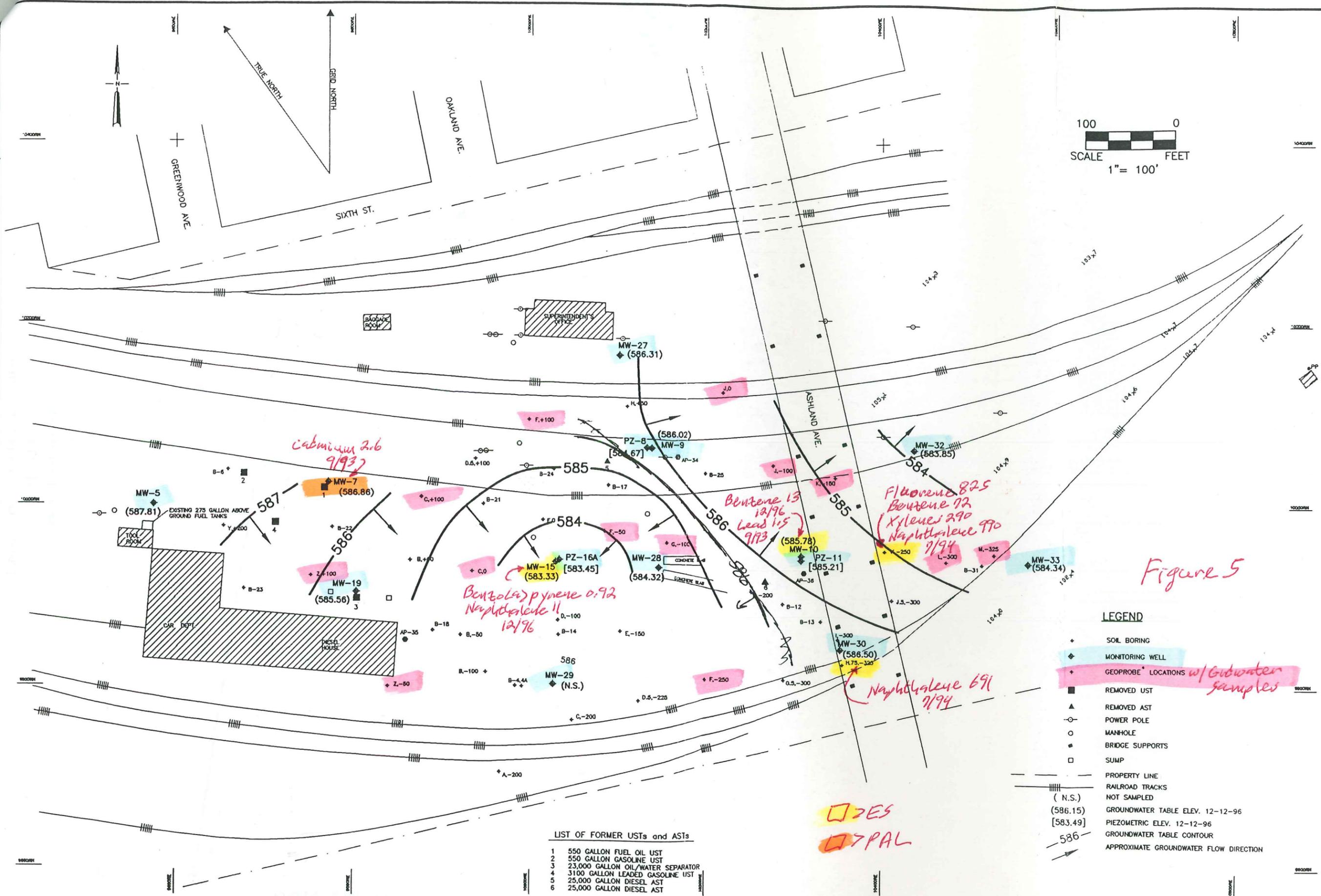


Figure 1



LIST OF FORMER USTs and ASTs

- 1 550 GALLON FUEL OIL UST
- 2 550 GALLON GASOLINE UST
- 3 23,000 GALLON OIL/WATER SEPARATOR
- 4 3100 GALLON LEADED GASOLINE UST
- 5 25,000 GALLON DIESEL AST
- 6 25,000 GALLON DIESEL AST

LEGEND

- ◆ SOIL BORING
- ◆ MONITORING WELL
- ◆ GEOPROBE LOCATIONS w/ groundwater samples
- REMOVED UST
- ▲ REMOVED AST
- POWER POLE
- MANHOLE
- BRIDGE SUPPORTS
- SUMP
- - - PROPERTY LINE
- ||| RAILROAD TRACKS
- (N.S.) NOT SAMPLED
- (586.15) GROUNDWATER TABLE ELEV. 12-12-96
- [583.49] PIEZOMETRIC ELEV. 12-12-96
- 586 GROUNDWATER TABLE CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION

DATE	2-5-97
DRAWN BY	D.J.M.
DATE	2-5-97
CHECKED BY	R.J.M.
DATE	2-5-97
APPROVED BY	
SCALE	1" = 100'
FILE	W:\DWG96\20351\W\G4351001.DWG

WISCONSIN CENTRAL LTD.
 ASHLAND AVE. YARD
 GREEN BAY, WISCONSIN

GROUNDWATER TABLE CONTOUR MAP (12-12-96)



STS PROJECT NO.	20351W
STS PROJECT FILE	
SCALE	1" = 100'
FIGURE NO.	1

* GEOPROBE IS A REGISTERED TRADEMARK OF KEJR ENGINEERING, INC.

Table 4 Page 1
 Summary of Laboratory Soil Analyses
 Ashland Avenue Yard
 Green Bay, Wisconsin

Sample ID:	A-200	B+50	B-50	B-100	C00	C+100	C-200	D.5+100	D.5-225	D-100	E0	E-150	F+100	F-50	F-250	G-100	G.5-300	
Depth:	2'-4'	0'-2'	0'-2'	0'-2'	2'-3'	1'-3'	3'-5'	0.5'-2.5'	7.0'-7.5'	0.5'-2.5'	0'-2'	2'-4'	0.5'-2.5'	0'-2'	5'-7'	1.5'-3.5'	0'-2'	
Sample Date:	7/27/94	7/27/94	7/26/94	7/26/94	7/25/94	7/25/94	7/25/94	7/26/94	7/26/94	7/26/94	7/27/94	7/26/94	7/25/94	7/27/94	7/25/94	7/25/94	7/26/94	
Parameter																		
DRO (ug/g)	55.4	21.5	22200	14800	149	<5.0	49.6	113	410	221	<5.0	<5.0	180	155	18.8	15400	22.5	
Units:	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g							
Acenaphthene	--	--	--	--	<3.6	--	16.1	--	--	--	--	--	<4.2	--	--	--	<4.7	
Acenaphthylene	--	--	--	--	<15	--	<18	--	--	--	--	--	<17	--	--	--	<19	
Anthracene	--	--	--	--	<2.8	--	38.9	--	--	--	--	--	149	--	--	--	<3.7	
Benzo(a)anthracene	--	--	--	--	<1.5	--	49.5	--	--	--	--	--	208	--	--	--	<1.9	
Benzo(a)pyrene	--	--	--	--	<2.1	--	<2.5	--	--	--	--	--	97.6	--	--	--	<2.8	
Benzo(b)fluoranthene	--	--	--	--	<1.0	--	86.2	--	--	--	--	--	210	--	--	--	<1.4	
Benzo(k)fluoranthene	--	--	--	--	<2.8	--	<3.4	--	--	--	--	--	119	--	--	--	<3.7	
Benzo(g,h,i)perylene	--	--	--	--	<3.6	--	<4.3	--	--	--	--	--	<4.2	--	--	--	<4.7	
Chrysene	--	--	--	--	<3.6	--	<4.3	--	--	--	--	--	361	--	--	--	<4.7	
Dibenzo(a,h)anthracene	--	--	--	--	<3.9	--	<4.7	--	--	--	--	--	<4.6	--	--	--	<5.1	
Fluoranthene	--	--	--	--	<7.7	--	126	--	--	--	--	--	720	--	--	--	<10	
Fluorene	--	--	--	--	<2.1	--	8.14	--	--	--	--	--	39.0	--	--	--	3.98	
Indo(1,2,3-cd)pyrene	--	--	--	--	<3.6	--	<4.3	--	--	--	--	--	<4.2	--	--	--	<4.7	
1-Methyl Naphthalene	--	--	--	--	<15	--	<18	--	--	--	--	--	<17	--	--	--	<19	
2-Methyl Naphthalene	--	--	--	--	<15	--	<18	--	--	--	--	--	<17	--	--	--	<19	
Naphthalene	--	--	--	--	<3.9	--	<4.7	--	--	--	--	--	866	--	--	--	<5.1	
Phenanthrene	--	--	--	--	<1.8	--	140	--	--	--	--	--	818	--	--	--	240	
Pyrene	--	--	--	--	<3.6	--	<4.3	--	--	--	--	--	<4.2	--	--	--	<4.7	
Total PNAs	--	--	--	--	ND	--	465	--	--	--	--	--	3588	--	--	--	244	

< = Not Detected Above Indicated Method Detection Limit

Table 4 Page 2
 Summary of Laboratory Soil Analyses
 Ashland Avenue Yard
 Green Bay, Wisconsin

Sample ID:	H+50	H-200	H.75-325	I-300	J00	J-100	J.5-300	K-150	K-250	L-300	M-325	Y+200	Z+100	Z-50	MW-27	MW-32	MW-33	B-31
Depth:	1'-3'	2'-4'	0'-2'	0'-2'	3'-5'	0'-2'	0'-2'	0'-2'	2'-4'	0'-2'	0'-2'	0'-2'	0'-2'	0'-2'	4.5'-6'	70'-8.5'	4.5'-6'	4.5'-6'
Sample Date:	7/25/94	7/25/94	7/26/94	7/25/94	7/25/94	7/26/94	7/26/94	7/26/94	7/26/94	7/26/94	7/26/94	7/27/94	7/27/94	7/26/94	9/8/94	9/7/94	9/7/94	9/7/94
Parameter																		
DRC (ug/g)	939	96300	1890	16300	8.58	214	66.1	455	25400	140	127	7.89	12.2	142	<5.0	<5.0	<5.0	428
Units:	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
Acenaphthene	<4.3	--	--	--	30.2	<4.3	--	--	--	<3.6	--	<4.2	--	<4.2	--	--	--	--
Acenaphthylene	<18	--	--	--	<15	<18	--	--	--	<15	--	<17	--	<17	--	--	--	--
Anthracene	118	--	--	--	<3.0	<3.4	--	--	--	<2.8	--	<3.3	--	<3.3	--	--	--	--
Benzo(a)anthracene	207	--	--	--	<1.5	<1.8	--	--	--	125	--	<1.7	--	<1.7	--	--	--	--
Benzo(a)pyrene	181	--	--	--	<2.2	<2.5	--	--	--	169	--	<2.4	--	<2.4	--	--	--	--
Benzo(b)fluoranthene	310	--	--	--	<1.1	<1.3	--	--	--	354	--	<1.2	--	<1.2	--	--	--	--
Benzo(k)fluoranthene	104	--	--	--	<3.0	<3.4	--	--	--	129	--	<3.3	--	<3.3	--	--	--	--
Benzo(g,h,i)perylene	<4.3	--	--	--	<3.7	<4.3	--	--	--	<3.6	--	<4.2	--	<4.2	--	--	--	--
Chrysene	260	--	--	--	<3.7	<4.3	--	--	--	<3.6	--	<4.2	--	<4.2	--	--	--	--
Dibenzo(a,h)anthracene	<4.7	--	--	--	<4.1	<4.7	--	--	--	345	--	<4.5	--	<4.5	--	--	--	--
Fluoranthene	<9.4	--	--	--	<8.1	<9.4	--	--	--	317	--	<9.0	--	<9.1	--	--	--	--
Fluorene	<2.5	--	--	--	<2.2	<2.5	--	--	--	4.51	--	<2.4	--	<2.4	--	--	--	--
Indo(1,2,3-cd)pyrene	<4.3	--	--	--	<3.7	<4.3	--	--	--	<3.6	--	<4.2	--	<4.2	--	--	--	--
1-Methyl Naphthalene	<18	--	--	--	<15	<18	--	--	--	<15	--	<17	--	<17	--	--	--	--
2-Methyl Naphthalene	<18	--	--	--	<15	<18	--	--	--	<15	--	<17	--	<17	--	--	--	--
Naphthalene	1180	--	--	--	<4.1	<4.7	--	--	--	<3.9	--	<4.5	--	<4.5	--	--	--	--
Phenanthrene	398	--	--	--	16.8	563	--	--	--	333	--	308	--	85.6	--	--	--	--
Pyrene	<4.3	--	--	--	<3.7	<4.3	--	--	--	<3.6	--	<4.2	--	<4.2	--	--	--	--
Pyrene	2758	--	--	--	47	563	--	--	--	1776	--	308	--	85.6	--	--	--	--

< = Not Detected Above Indicated Method Detection Limit

Summary of Laboratory Groundwater Analyses
Ashland Avenue Yard
Green Bay, Wisconsin

Table 11
'93-'96 Sampling

Sample ID: Parameter	Units	MW-5					MW-7					PZ-8					ES ug/l	PAL ug/l
		9/7/93	7/29/95	12/19/95	7/15/96	12/12/96	9/7/93	7/29/95	12/19/95	7/15/96	12/12/96	9/7/93	7/29/95	12/19/95	7/15/96	12/12/96		
Benzene 5/0.5	ug/l	<1.0	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	5	0.5
Ethylbenzene 700/140	ug/l	<1.0	<1.0	<1.0	<0.6	<0.6	5.4	<1.0	<1.0	<0.6	<0.6	<1.0	<1.0	<1.0	<0.6	<0.6	700	140
Methyl tert Butyl Ether 60/12	ug/l	<5.0	<2.0	<2.0	<2.7	<0.9	5.0	<2.0	<2.0	<2.7	<0.9	<5.0	<2.0	<2.0	<2.7	<0.9	60	12
Toluene 343/68.6	ug/l	<1.0	<2.0	<2.0	<0.6	<0.6	1.0	<2.0	<2.0	<0.6	<0.6	1.0	<2.0	<2.0	0.6	<0.6	343	68.6
1,2,4 - Trimethylbenzene	ug/l	<1.0	<1.0	<1.0	<1.7	<1.7	7.6	<1.0	<1.0	<1.7	<1.7	1.8	<1.0	<1.0	<1.7	<1.7	NE	NE
1,3,5 - Trimethylbenzene	ug/l	<1.0	<1.0	<1.0	<0.9	<0.9	2.5	<1.0	<1.0	<0.9	<0.9	<1.0	<1.0	<1.0	<0.9	<0.9	NE	NE
Total Xylenes 620/124	ug/l	<3.0	<2.0	<2.0	<1.7	<2.2	5.5	<2.0	<2.0	<1.7	<2.2	<3.0	<2.0	<2.0	<1.7	<2.2	620	124
Acenaphthene	ug/l	<1.0	<0.22	<0.11	<3.3	<3.9	<1.0	<0.11	<0.11	<1.5	-	<1.0	<0.11	<0.11	<1.5	-	NE	NE
Anthracene	ug/l	<0.10	-	<0.11	<3.1	<0.29	<0.10	-	<0.11	<1.4	-	<0.10	-	<0.11	<0.11	-	NE	NE
Benzo(a)anthracene	ug/l	<0.01	<0.1	<0.05	<0.24	<0.29	<0.01	<0.05	<0.05	<0.11	-	<0.10	<0.05	<0.05	<0.11	-	NE	NE
Benzo(a)pyrene 0.2/0.2	ug/l	<0.01	<0.2	<0.1	<0.49	<0.58	<0.01	<0.1	<0.1	<0.21	-	<0.01	<0.1	<0.1	<0.23	-	0.2	0.02
Benzo(b)fluoranthene	ug/l	<0.02	<0.16	<0.08	<0.29	<0.34	<0.02	<0.08	<0.08	<0.23	-	<0.02	<0.08	<0.08	<0.13	-	NE	NE
Benzo(k)fluoranthene	ug/l	<0.01	<0.16	<0.08	<0.53	<0.63	<0.01	<0.08	<0.08	<0.23	-	<0.01	<0.08	<0.08	<0.25	-	NE	NE
Benzo(g,h,i)perylene	ug/l	<0.02	<0.32	<0.16	<0.53	<0.63	<0.02	<0.16	<0.16	<0.23	-	<0.02	<0.16	<0.16	<0.25	-	NE	NE
Chrysene	ug/l	<0.10	<0.12	<0.06	<0.22	<0.25	<0.10	<0.06	<0.06	<0.094	-	<0.10	<0.06	<0.06	<0.10	-	NE	NE
Fluoranthene	ug/l	<0.02	<0.3	<0.15	<0.53	<0.63	<0.02	<0.15	<0.15	<0.23	-	0.02	<0.15	<0.15	<0.25	-	NE	NE
Fluorene 400/80	ug/l	<0.20	-	<0.08	<0.53	<0.15	<0.20	-	<0.08	<0.057	-	<0.20	-	<0.08	<0.061	-	400 NE	80 NE
Indeno(1,2,3-cd)pyrene	ug/l	<0.05	<0.34	<0.17	<0.27	<0.31	<0.05	<0.17	<0.17	<0.12	-	<0.05	<0.17	<0.17	<0.12	-	NE	NE
1-Methyl Naphthalene	ug/l	<2.0	<0.3	<0.15	<2.2	<2.6	<2.0	<0.15	<0.15	<0.97	-	<2.0	<0.15	<0.15	<1.0	-	NE	NE
2-Methyl Naphthalene	ug/l	<2.0	<0.18	<0.09	<2.2	<2.5	<2.0	<0.09	<0.09	<0.94	-	<2.0	<0.09	<0.09	<1.0	-	NE	NE
Naphthalene 40/8	ug/l	<1.0	1.06	<0.09	9.4	<2.0	<1.0	<0.09	<0.09	<0.75	-	<1.0	<0.09	<0.09	<0.79	-	40	8
Phenanthrene	ug/l	<0.10	<0.18	0.388	<0.27	<0.31	0.1	<0.09	<0.09	<0.12	-	<0.10	<0.09	<0.09	<0.12	-	NE	NE
Pyrene	ug/l	<0.10	-	<0.15	<0.91	<1.1	<0.10	-	<0.15	<0.40	-	<0.10	-	<0.15	<0.42	-	NE	NE

NR 140 ES Exceedance

Bold = Detection

< = Not Detected Above Indicated Method Detection Limit (MDL)

ES = NR 140 Enforcement Standard as of August 1995

PAL = NR 140 Preventive Action Limit as of August 1995

NE = Standard/Action Limit Not Established

- = No Sample Collected

☐ > ES

● > PAL

Table II (cont.)

Table 2 (continued)
Summary of Laboratory Groundwater Analyses
Ashland Avenue Yard
Green Bay, Wisconsin

Sample ID: Parameter	Units	MW-9						MW-10					P2-11					ES ug/l	PAL ug/l
		9/7/93	9/12/94	7/29/95	12/19/95	7/18/96	12/12/96	9/7/93	7/29/95	12/19/95	7/18/96	12/12/96	9/7/93	7/29/95	12/19/95	7/18/96	12/12/96		
Benzene	ug/l	<1.0	--	<0.5	<0.5	<0.5	<0.5	19	14.9	21.9	13	13	<1.0	<1.0	<1.0	<0.5	<0.5	5	0.5
Ethylbenzene	ug/l	<1.0	--	<1.0	<1.0	<0.6	<0.6	56	9.23	11.6	5.2	7	<1.0	<1.0	<1.0	<0.6	<0.6	700	140
Methyl tert Butyl Ether	ug/l	<5.0	--	<2.0	<2.0	<2.7	<0.9	<25	<2.0	<2.0	<9.0	<0.9	<5.0	<2.0	<2.0	<2.7	<0.9	60	12
Toluene	ug/l	1.9	--	2.00	<2.0	0.7	<0.6	<5.0	<2.0	3.34	<2.0	4.6	5.5	<2.0	<2.0	<0.6	<0.6	343	68.6
1,2,4 - Trimethylbenzene	ug/l	16	--	<1.0	<1.0	<1.7	<1.7	108	53.9	47.4	27	43	<1.0	<1.0	<1.0	<1.7	<1.7	NE	NE
1,3,5 - Trimethylbenzene	ug/l	<1.0	--	<1.0	<1.0	<0.9	<0.9	7.2	3.07	5.52	3.8	18	<1.0	<1.0	<1.0	<0.9	<0.9	NE	NE
Total Xylenes	ug/l	<3.0	--	<2.0	<2.0	<1.7	<2.2	41	<21.0	19.75	7.5	17	<3.0	<2.0	<2.0	<1.7	<2.2	620	124
Acenaphthene	ug/l	4.6	1.85	<0.11	<0.11	<1.3	<1.7	1.4	<0.11	<0.22	<1.6	<1.7	<1.0	<0.22	<0.11	<1.6	<1.8	NE	NE
Anthracene	ug/l	0.34	<0.08	--	<0.11	<0.11	<0.12	<0.10	--	<0.22	<0.12	<0.13	0.1	--	<0.11	0.14	<0.13	NE	NE
Benzo(a)anthracene	ug/l	0.01	<0.04	<0.05	<0.05	<0.11	<0.12	0.02	<0.05	<0.1	<0.12	<0.13	0.03	<0.1	<0.05	<0.12	<0.13	NE	NE
Benzo(a)pyrene	ug/l	0.01	<0.06	<0.1	<0.1	<0.21	<0.25	0.01	<0.1	<0.2	<0.24	<0.25	0.01	<0.2	<0.1	<0.23	<0.27	0.2	0.02
Benzo(b)fluoranthene	ug/l	<0.02	<0.03	<0.08	<0.08	<0.13	<0.15	<0.02	<0.08	<0.16	<0.14	<0.15	<0.02	<0.16	<0.08	<0.14	<0.16	NE	NE
Benzo(k)fluoranthene	ug/l	0.01	<0.08	<0.08	<0.08	<0.23	<0.27	0.01	<0.08	<0.16	<0.26	<0.28	0.01	<0.16	<0.08	<0.26	<0.29	NE	NE
Benzo(g,h,i)perylene	ug/l	<0.02	<0.1	<0.16	<0.16	<0.23	<0.27	<0.02	<0.16	<0.32	<0.26	<0.28	0.04	<0.32	<0.16	<0.26	<0.29	NE	NE
Chrysene	ug/l	<0.10	<0.1	<0.06	<0.06	<0.094	<0.11	0.25	<0.06	<0.12	<0.11	<0.11	0.13	<0.12	<0.06	<0.11	<0.12	NE	NE
Fluoranthene	ug/l	0.05	<0.22	<0.15	<0.15	<0.23	<0.27	<0.10	<0.15	<0.3	<0.26	<0.28	0.14	<0.3	<0.15	<0.26	<0.29	NE	NE
Fluorene	ug/l	6.3	0.963	--	2.25	2.3	1.9	0.73	--	0.73	186	25	0.22	--	0.163	<0.063	<0.072	NE	NE
Indeno(1,2,3-cd)pyrene	ug/l	<0.05	<0.1	<0.17	<0.17	<0.12	<0.14	<0.05	<0.17	<0.34	<0.13	<0.14	<0.05	<0.34	<0.17	<0.13	<0.15	NE	NE
1-Methyl Naphthalene	ug/l	2.9	<0.4	<0.15	<0.15	2.00	<1.1	<2.0	89.4	100	547	116	<2.0	<0.3	<0.15	<1.1	<1.2	NE	NE
2-Methyl Naphthalene	ug/l	4.4	4.63	<0.09	<0.09	2.2	<1.1	<2.0	37	63.9	544	73	<2.0	<0.18	<0.09	3.4	<1.2	NE	NE
Naphthalene	ug/l	<1.0	13	<0.09	<0.09	<0.75	<0.87	1.5	<0.09	<0.18	22	1.7	<1.0	<0.18	<0.09	1.6	<0.94	40	1
Phenanthrene	ug/l	<0.10	<0.05	<0.09	<0.09	<0.12	<0.14	<0.10	<0.09	<0.18	231	16	<0.10	<0.18	<0.09	0.46	<0.15	NE	NE
Pyrene	ug/l	0.1	<0.1	--	<0.15	<0.40	<0.46	0.26	--	<0.15	<0.40	<0.47	0.17	--	<0.15	<0.44	<0.50	NE	NE

NR 140 ES Exceedance

BOLD = Detection

< = Not Detected Above Indicated Method Detection Limit (MDL)

ES = NR 140 Enforcement Standard as of August 1995

PAL = NR 140 Preventive Action Limit as of August 1995

NE = Standard/Action Limit Not Established

-- = No Sample Collected

☐ > ES
■ PAL

Table 11 (cont.)

Summary of Laboratory Groundwater Analyses
Ashland Avenue Yard
Green Bay, Wisconsin

Sample ID: Parameter	Units	MW-15					PZ-16A					MW-19					ES ug/l	PAL ug/l		
		9/7/93	7/12/95	12/19/95	7/15/96	12/12/96	9/7/93	9/12/94	7/12/95	12/19/95	7/15/96	12/12/96	9/7/93	9/12/94	7/12/95	12/19/95			7/15/96	12/12/96
Benzene	ug/l	<10	<0.5	<0.5	<0.5	<0.5	<1.0	--	<0.3	<0.3	<0.3	<0.3	<1.0	--	<0.5	<0.5	<0.5	<0.5	5	0.5
Ethylbenzene	ug/l	<10	<1.0	<1.0	<0.6	<0.6	<1.0	--	<1.0	<1.0	0.7	<0.6	<1.0	--	<1.0	<1.0	<0.6	<0.6	700	140
Methyl tert Butyl Ether	ug/l	<50	<2.0	<2.0	<2.7	<0.9	<5.0	--	<2.0	<2.0	<2.7	<0.9	17	--	9.95	5.23	6.9	5.2	60	12
Toluene	ug/l	<10	<2.0	<2.0	<0.6	<0.6	4.8	--	<2.0	<2.0	<0.6	<0.6	<1.0	--	<2.0	<2.0	<0.6	<0.6	343	68.6
1,2,4 - Trimethylbenzene	ug/l	<10	<1.0	<1.0	<1.7	<1.7	<1.0	--	<1.0	<1.0	<1.7	<1.7	1.4	--	<1.0	<1.0	<1.7	<1.7	NE	NE
1,3,5 - Trimethylbenzene	ug/l	<10	<1.0	<1.0	<0.9	<0.9	<1.0	--	<1.0	<1.0	<0.9	<0.9	<1.0	--	<1.0	<1.0	<0.9	<0.9	NE	NE
Total Xylenes	ug/l	<30	<2.0	<2.0	<1.7	<2.2	<3.0	--	<2.0	<2.0	<1.7	<2.2	<3.0	--	<2.0	<2.0	<1.7	<2.2	620	111 124
Acenaphthene	ug/l	280	68.8	179	86	18	1.6	<0.1	<0.11	1.61	<1.6	<1.9	<1.0	0.306	<0.11	<0.11	<1.5	<1.7	NE	NE
Anthracene	ug/l	140	--	262	34	6.5	<0.10	<0.08	--	<0.11	<0.12	<0.14	<0.10	<0.08	--	<0.11	<0.11	<0.12	NE	NE
Benzo(a)anthracene	ug/l	61	36.1	124	11	2.1	0.02	<0.04	<0.05	<0.05	<0.12	<0.14	<0.05	0.343	0.650	<0.05	<0.11	<0.12	NE	NE
Benzo(a)pyrene	ug/l	30	13.5	54.4	4	0.92	0.01	<0.06	<0.1	<0.1	<0.24	<0.27	0.06	<0.06	<0.1	<0.1	<0.22	<0.24	0.2	0.02
Benzo(h)fluoranthene	ug/l	34	16.2	92.7	8	0.51	0.02	<0.03	<0.08	<0.08	<0.14	<0.16	0.07	0.322	<0.08	0.181	<0.13	<0.14	NE	NE
Benzo(k)fluoranthene	ug/l	18	7.26	28.3	2.3	0.33	0.01	<0.08	<0.08	<0.08	<0.26	<0.30	0.03	<0.08	<0.08	<0.08	<0.24	<0.27	NE	NE
Benzo(g,h,i)perylene	ug/l	7.3	4.73	16.4	3.7	<0.25	<0.02	<0.1	<0.16	<0.16	<0.26	<0.30	0.06	<0.1	<0.16	<0.16	<0.24	<0.27	NE	NE
Chrysene	ug/l	58	27.7	105	11	1.1	<0.10	<0.1	<0.06	<0.06	<0.10	<0.12	0.12	<0.1	<0.06	<0.06	<0.097	<0.11	NE	NE
Fluoranthene	ug/l	380	225	765	103	14	0.11	<0.22	<0.15	<0.15	<0.26	<0.30	0.11	<0.22	<0.15	0.572	<0.24	<0.27	NE	NE
Fluorene	ug/l	280	--	209	71	12	<0.20	<0.06	--	<0.08	<0.064	<0.071	0.24	0.491	--	0.214	<0.059	<0.066	400 400	800 800
Indeno(1,2,3-cd)pyrene	ug/l	<5.0	6.09	22.7	2.5	0.16	<0.05	<0.1	<0.17	<0.17	<0.13	<0.15	<0.05	<0.1	<0.17	<0.17	<0.12	<0.13	NE	NE
1-Methyl Naphthalene	ug/l	<200	<0.15	<6.0	9.7	2.9	2.2	<0.4	<0.15	1.8	2.6	<1.2	<2.0	<0.4	<0.15	<0.15	<1.0	<1.1	NE	NE
2-Methyl Naphthalene	ug/l	280	<0.09	<3.6	<0.99	<1.0	<2.0	<0.4	<0.09	<0.09	1.8	<1.2	<2.0	<0.4	<0.09	<0.09	<0.97	<1.1	NE	NE
Naphthalene	ug/l	490	<0.09	217	<0.79	11	3.5	<0.11	<0.09	2.09	4.6	1.9	<1.0	<0.11	<0.09	<0.09	<0.77	<0.86	40	8
Phenanthrene	ug/l	630	206	684	96	14	0.11	<0.05	<0.09	<0.09	<0.13	<0.15	<0.10	0.754	<0.09	<0.09	<0.12	<0.13	NE	NE
Pyrene	ug/l	220	--	732	93	9.6	<0.10	<0.1	--	<0.15	0.64	<0.51	0.13	<0.1	--	<0.15	<0.41	<0.46	NE	NE

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>ES
PAL