

GIS REGISTRY

Cover Sheet

August 2011
(RR-5367)

Source Property Information

BRRTS #:

ACTIVITY NAME:

PROPERTY ADDRESS:

MUNICIPALITY:

PARCEL ID #:

CLOSURE DATE:

FID #:

DATCP #:

PECFA#:

*WTM COORDINATES:

X: Y:

** 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" form)*

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

- Contamination in ROW
- Off-Source Contamination

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

Land Use Controls:

- N/A (Not Applicable)
- Soil: maintain industrial zoning (220)
*(note: soil contamination concentrations
between non-industrial 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 unit or economic
development corporation was directed to
take a response action)*

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

Yes No N/A

RESPONSIBILITY TRANSFERRED TO
ANOTHER SITE (BRRTS# 02-16-556927)

** 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 #: 03-16-000542 PARCEL ID #: HA-01400-18300, -18400, -19400, -172000
ACTIVITY NAME: DOUGLAS CNTY HWY DEPT HAWTHORNE WTM COORDINATES: X: 377970 Y: 670788

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.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- 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:** Douglas County Parcel Map
- 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 11 x 17 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 Vicinity Map
- 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 #: 2a, 2b & CE **Title:** Site Map - Overview, Site Map Detail, Site Map (Coleman)
- 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 #: CE & 5 **Title:** Estimated Area of Hot Spot Excavation (Coleman) & Site Map - Detail Area (REI 1/24/12)

BRRTS #: 03-16-000542

ACTIVITY NAME: DOUGLAS CNTY HWY DEPT HAWTHORNE

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 #: 4b **Title: Geologic 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 #: 3 **Title: GW Contours and Est. Extent of GW Cont. (Benzene and Chloride) May 2006**

- 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 #: 3 **Title: GW Contours and Est. Extent of GW Cont. (Benzene and Chloride) May 2006**

Figure #: **Title:**

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

Tables must be no larger than 11 x 17 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 #: 1 & 2 **Title: Summary of Soil Analytical Results (Colman)**

- 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 #: 1, 3a & 3b **Title: Supplemental Site Investigation 1995 & Analytical Results - Groundwater**

- 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 #: 1 **Title: Analytical Results - Groundwater (on GW tables)**

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).

BRRTS #: 03-16-000542

ACTIVITY NAME: DOUGLAS CNTY HWY DEPT HAWTHORNE

NOTIFICATIONS

Source Property

Not Applicable

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.

Not Applicable

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.

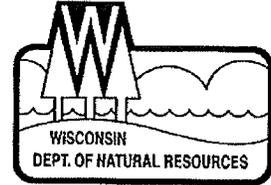
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer 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
107 Sutfill Avenue
Rhineland WI 54501-3349

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



February 17, 2012

Mr. Paul Halverson
Highway Commissioner
Douglas county Highway Department
P.O. Box 174
Hawthorne, WI 54842-0174

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Douglas County Highway Department Former Underground Storage Tanks
7417 South County Highway E, Hawthorne, WI
WDNR BRRTS Activity #: 03-16-000542

Dear Mr. Halverson:

The Department of Natural Resources (DNR) considers the Douglas County Highway Department Former Underground Storage Tanks site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attached maintenance plan to anyone who purchases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wisconsin Administrative Code. The Northern Region Closure Committee reviewed the request for closure on February 16, 2012. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

This site is an actively used by Douglas County as a highway shop. Petroleum contamination was detected in the soil and groundwater following removal of 10,000 gallon diesel and gasoline underground storage tanks (USTs) in 1993. A remedial excavation was completed in 1997, followed by several years of groundwater monitoring. The conditions of closure and continuing obligations required were based on the property being used for commercial purposes.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- One or more monitoring wells are being transferred for continued monitoring to the Douglas County Maintenance – Chloride site, BRRTS #02-16-556927. Do NOT fill and seal these wells at this time.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's internet accessible Geographic Information System (GIS) Registry, to provide notice of residual contamination and of any continuing obligations. DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/org/water/dwg/3300254.pdf> or at the web address listed below for the GIS Registry.

All site information is also on file at the Northern Regional DNR office, at 107 Sutliff Avenue, Rhinelander, Wisconsin 54501. This letter and information that was submitted with your closure request application, including the maintenance plan, will be included on the GIS Registry in a PDF attachment. To review the site on the GIS Registry web page, visit the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Petroleum groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached Figure 3, Groundwater Contours and Estimated Extent of Groundwater Contamination, prepared by REI, dated 2/21/11. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval. The chloride contamination is being addressed as a separate site.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)

Soil contamination remains on the east side of the property in areas adjacent to the location of the remedial excavation conducted in 1993 as indicated on the attached Figure 5, Site Map – Detail Area, prepared by REI, dated 1/24/12. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Transfer of Monitoring Wells

The monitoring wells MW3R, MW4, MW5, MW8, MW9, and MW10, piezometers P1R, P3, P4, P5, P6, P7, P8, P9, P10, P11, and recovery well RW2 should not be filled and sealed at this time, as they will be monitored as part of the Douglas County Maintenance – Chlorides site, BRRTS #02-16-556927. Well filling and sealing will be required of the Douglas County Maintenance – Chlorides site for closure,

upon conclusion of the cleanup of that site. These wells are identified on the attached Figure 2B, Site Map – Detail Area, prepared by REI, dated 3/29/11.

Dewatering Permits

The DNR's Watershed Management Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

Based on the concentrations of contaminants remaining in groundwater at this location, it appears likely that dewatering activities would require a permit from the Watershed Management Program. If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://www.dnr.state.wi.us/org/water/wm/ww/>.

PECFA Reimbursement

Section 101.143, Wis. Stats., requires that Petroleum Environmental Cleanup Fund Award (PECFA) claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Department of Safety and Professional Services PECFA Program to determine the method for salvaging the equipment.

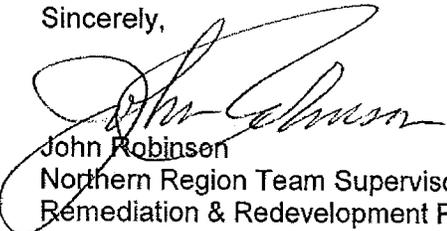
The following DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, was included with this letter, to help explain a property owner's responsibility for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at <http://dnr.wi.gov/org/aw/rr/archives/pubs/RR819.pdf>.

Please send written notifications in accordance with the above requirements to the Northern Region DNR office, located at 107 Sutliff Avenue, Rhinelander, Wisconsin 54501, to the attention of the RR Environmental Program Assistant.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Brenda S. Halmiak at 715-365-8929.

Sincerely,


John Robinsen
Northern Region Team Supervisor
Remediation & Redevelopment Program

Attachments:

- Figure 3, Groundwater Contours and Estimated Extent of Groundwater Contamination, REI, 2/21/11
- Figure 5, Site Map – Detail Area, REI, 1/24/12
- Figure 2B, Site Map – Detail Area, prepared by REI, dated 3/29/11
- RR-819, Continuing Obligations for Environmental Protection

cc: Dave Larsen, REI, 4080 N. 20th Avenue, Wausau, WI 54401
Dave Blair, DSPS

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LEGEND

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- PIEZOMETER
- MONITORING WELL
- RECOVERY WELL
- PROPERTY LINES



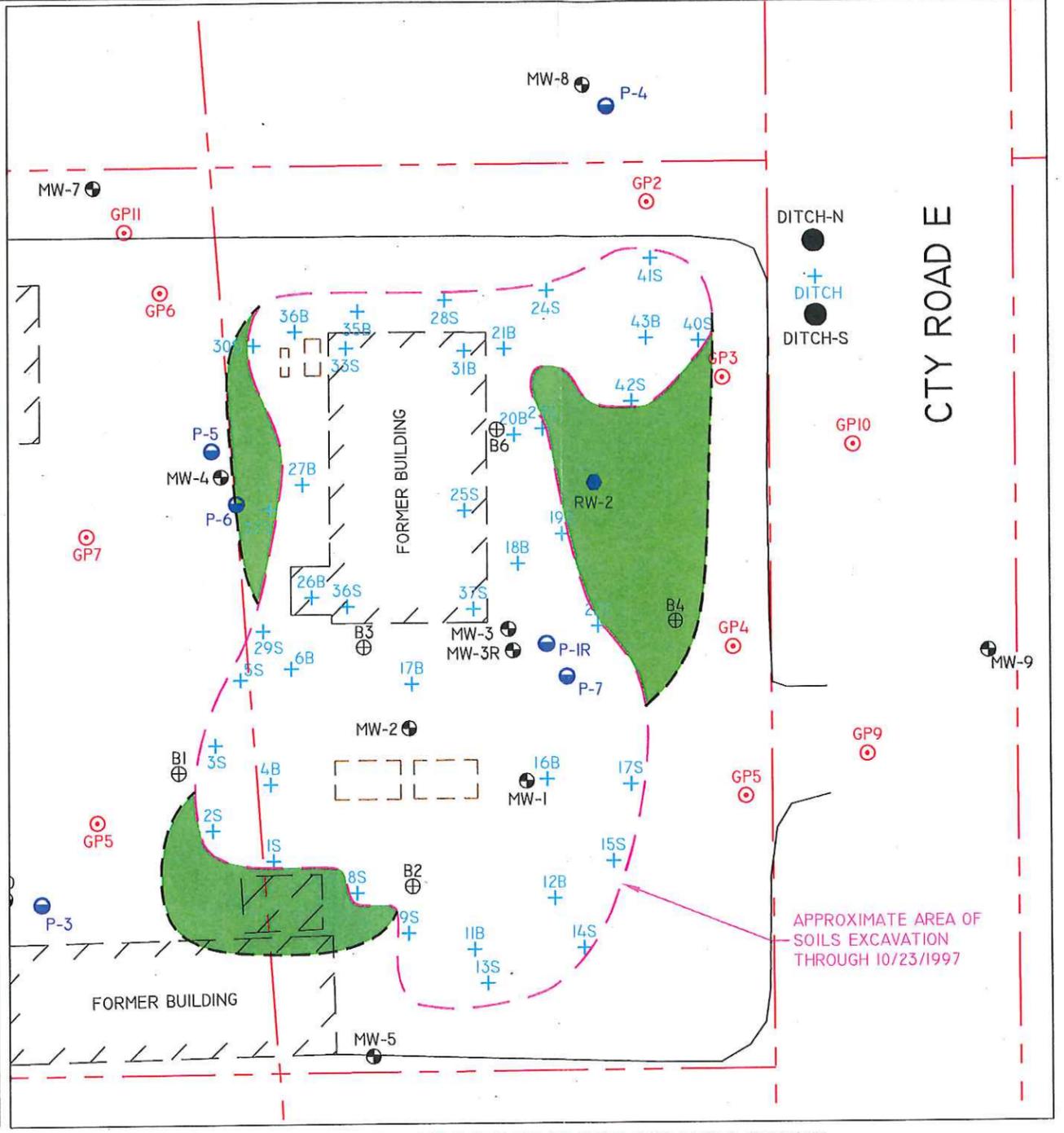
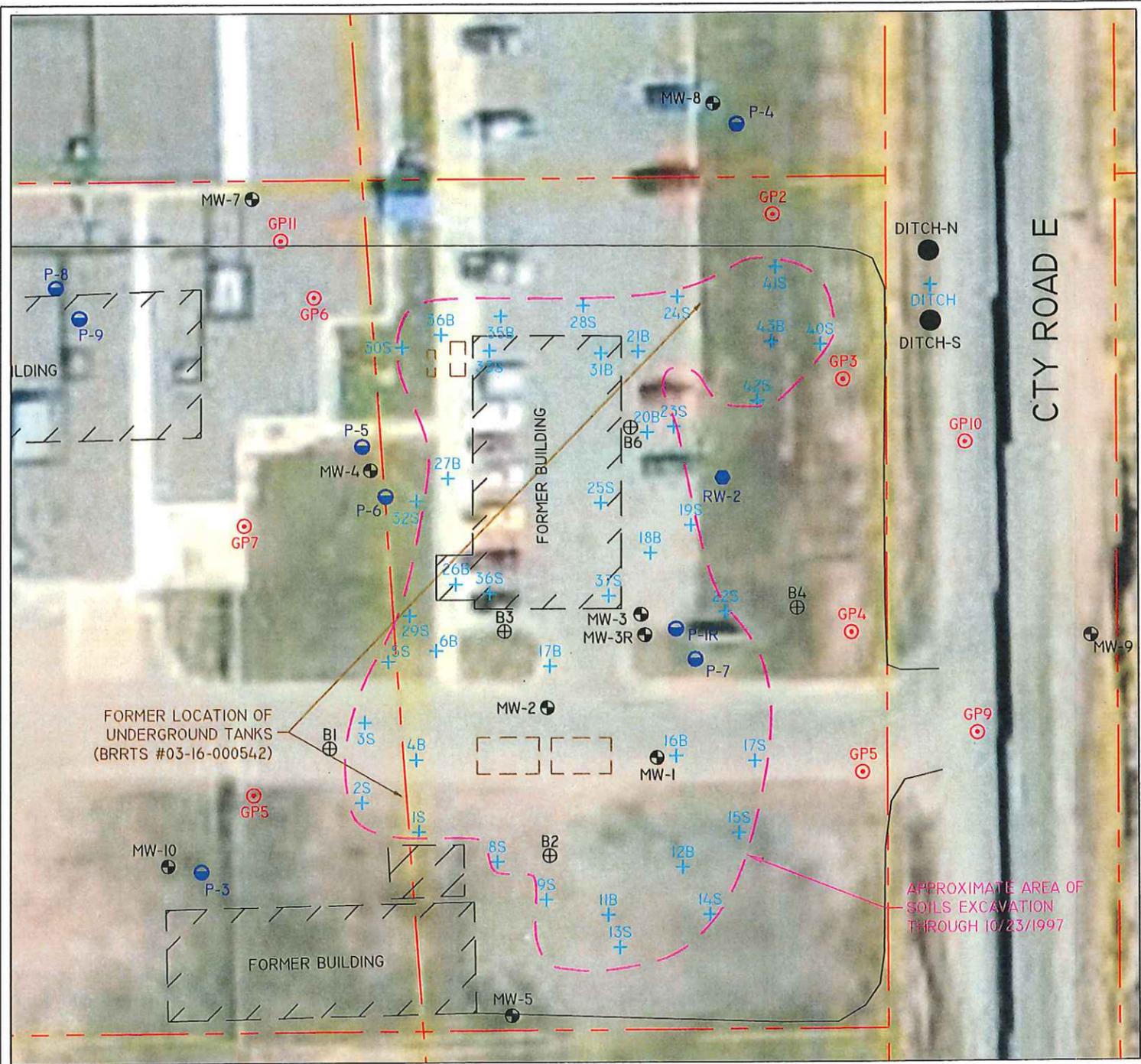
DOUGLAS COUNTY HWY DEPT.
7417 COUNTY ROAD "E"
HAWTHORNE, WISCONSIN

FIGURE 2B : SITE MAP - DETAIL AREA

PROJECT No. 5405x	DRAWN BY: TAW	DATE: 03/29/11
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REI Engineering, INC.

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MAPPING PROVIDED BY COLEMAN ENGINEERING COMPANY

LEGEND

0 40

- SOIL SAMPLE (DITCH)
- ⊕ PIEZOMETER
- ⊕ MONITORING WELL
- ⊕ RECOVERY WELL
- - - PROPERTY LINES
- - - ESTIMATED EXTENT OF POST REMEDIAL RESIDUAL SOIL CONTAMINATION



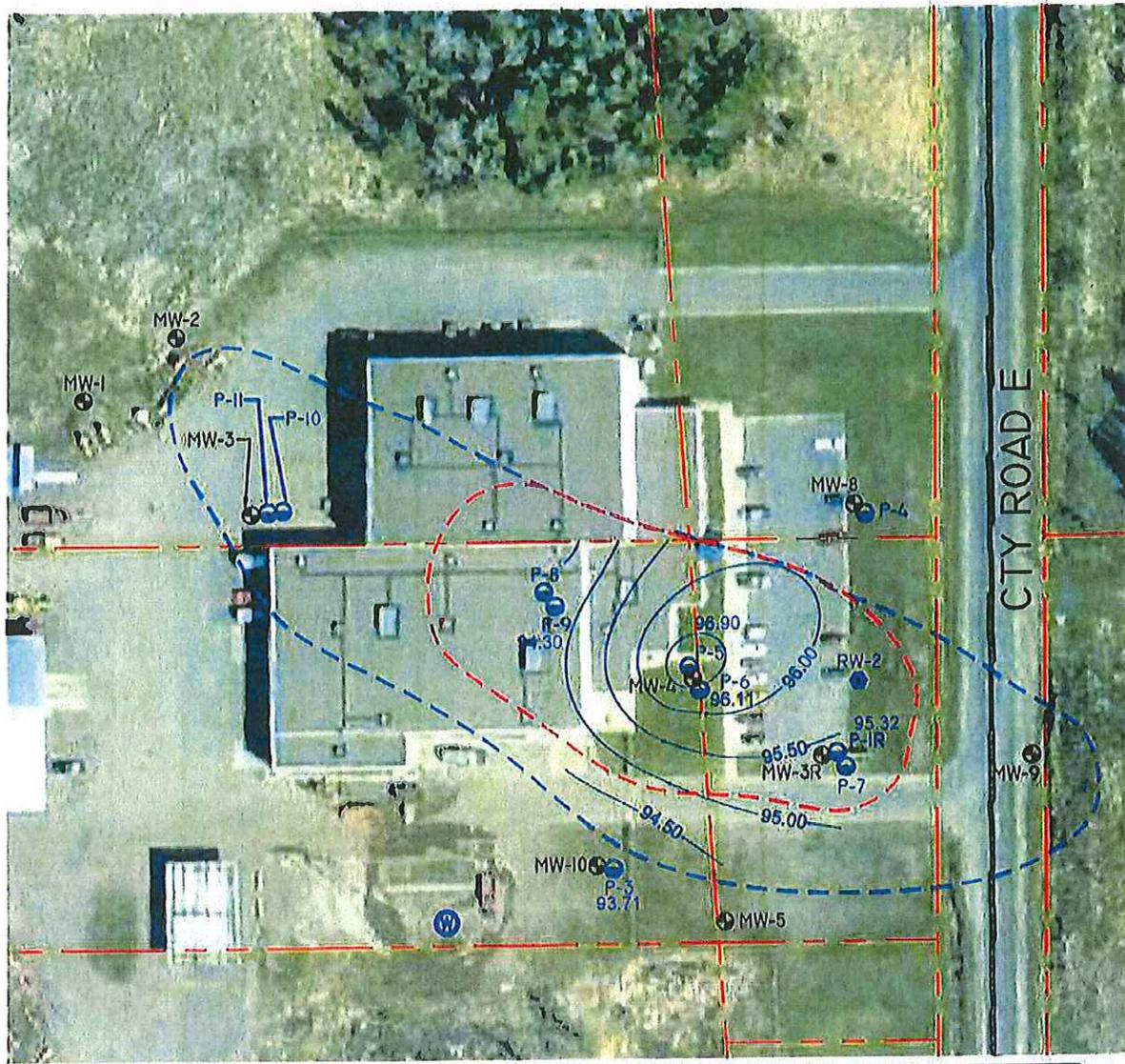
DOUGLAS COUNTY HWY DEPT.
7417 COUNTY ROAD "E"
HAWTHORNE, WISCONSIN

FIGURE 5 : SITE MAP - DETAIL AREA

PROJECT No. 5405x	DRAWN BY: TAW	DATE: 01/24/12
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REI Engineering, INC.

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LEGEND

0 100

- BENZENE CONTAMINATION
- CHLORIDE CONTAMINATION
- 94.50 GROUNDWATER CONTOUR LINE (INTERVAL - X.XX FT. - MSL)
- GROUNDWATER FLOW DIRECTION
- PIEZOMETER
- ⊕ MONITORING WELL
- RECOVERY WELL
- PROPERTY LINES

DOUGLAS COUNTY HWY DEPT.
 7417 COUNTY ROAD "E"
 HAWTHORNE, WISCONSIN

REI Engineering, Inc.

FIGURE 3 : GROUNDWATER CONTOURS & ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION >MRLs(BENZENE & CHLORIDE) MAY 2006

PROJECT NO.	DRAWN BY:	DATE:
5405X	NAP	02/21/11



Continuing Obligations for Environmental Protection

Responsibilities of Wisconsin Property Owners

PUB-RR-819

June 2009

This fact sheet is intended to help property owners understand their legal requirements under s. 292.12, Wis. Stats., regarding continuing obligations that arise due to the environmental condition of their property.

The term “continuing obligations” refers to certain actions for which property owners are responsible following a completed environmental cleanup. They are sometimes called environmental land use controls or institutional controls. These legal obligations, such as a requirement to maintain pavement over contaminated soil, are most often found in a cleanup approval letter from the state.

Less commonly, a continuing obligation may apply where a cleanup is not yet completed but a cleanup plan has been approved, or at a property owned by a local government that is exempt from certain cleanup requirements.

What Are Continuing Obligations?

Continuing obligations are legal requirements designed to protect public health and the environment in regard to contamination that remains on a property.

Continuing obligations still apply after a property is sold. Each new owner is responsible for complying with the continuing obligations.

Background

Wisconsin, like most states, allows some residual contamination to remain after cleanup of soil or groundwater contamination. This minimizes the transportation of contamination and reduces cleanup costs while still ensuring that public health and the environment are protected.

The Department of Natural Resources (DNR), through its Remediation and Redevelopment (RR) Program, places sites or properties with residual contamination on a public database in order to provide notice to interested parties about the residual contamination and any associated continuing obligations. Please see the “Public Information” section on page 3 to learn more about the database. (Prior to June 3, 2006, the state used deed restrictions recorded at county courthouses to establish continuing obligations, and those deed restrictions have also been added into the database.)



Types of Continuing Obligations

1. Manage Contaminated Soil that is Excavated

If the property owner intends to dig up an area with contaminated soil, the owner must ensure that proper soil sampling, followed by appropriate treatment or disposal, takes place.

Managing contaminated soil must be done in compliance with state law and is usually done under the guidance of a private environmental professional.

2. Manage Construction of Water Supply Wells

If there is soil or groundwater contamination and the property owner plans to construct or reconstruct a water supply well, the owner must obtain prior DNR approval to ensure that well construction is designed to protect the water supply from contamination.

Other Types of Continuing Obligations

Some continuing obligations are designed specifically for conditions on individual properties. Examples include:

- keeping clean soil and vegetation over contaminated soil;
- keeping an asphalt “cap” over contaminated soil or groundwater;
- maintaining a vapor venting system; and
- notifying the state if a structural impediment (e.g. building) that restricted the cleanup is removed. The owner may then need to conduct additional state-approved environmental work.

It is common for properties with approved cleanups to have continuing obligations because the DNR generally does not require removal of all contamination.

Property owners with the types of continuing obligations described above will find these requirements described in the state’s cleanup approval letter or cleanup plan approval, and must:

1. comply with these property-specific requirements; and
2. obtain the state’s permission before changing portions of the property where these requirements apply.

The requirements apply whether or not the person owned the property at the time that the continuing obligations were placed on the property.

Changing a Continuing Obligation

A property owner has the option to modify a continuing obligation if environmental conditions change. For example, petroleum contamination can degrade over time and property owners may collect new samples showing that residual contamination is gone. They may then request that DNR modify or remove a continuing obligation. A fee is required for DNR’s review of this request (\$500 or \$750, depending on the nature of the request). Fees are subject to change; current fees are found in Chapter NR 749, Wis. Admin. Code, on the web at www.legis.state.wi.us/rsb/code/nr/nr749.pdf.

Public Information

The DNR provides public information about continuing obligations on the Internet. This information helps property owners, purchasers, lessees and lenders understand legal requirements that apply to a property.

Properties with continuing obligations can generally be located in DNR's *GIS Registry*, part of the *RR Sites Map*. The information includes maps, deeds, contaminant data and the state's closure letter. The closure letter states that no additional environmental cleanup is needed for past contamination and includes information on property-specific continuing obligations. If a cleanup has not been completed, the state's approval of the remedial action plan will contain the information about continuing obligations.

However, some older cleanups may not be listed in the *GIS Registry*, so please consult DNR's comprehensive database of contaminated and cleaned up sites, *BRRTS on the Web*. This database shows all contamination activities known to DNR.

If a completed cleanup is shown in *BRRTS on the Web* but the site documents can not be found in the *GIS Registry*, DNR's closure letter can still be obtained from a regional office. For assistance, please contact a DNR Environmental Program Associate (see the RR Program's Staff Contact web page at dnr.wi.gov/org/aw/rr/technical/lists/contact_rr.htm).

BRRTS on the Web and
RR Sites Map are part of
CLEAN
(the **Contaminated Lands**
Environmental Action Network) at
dnr.wi.gov/org/aw/rr/clean.htm.

Off-Site Contamination: When Continuing Obligations Cross the Property Line

An off-site property owner is someone who owns property that has been affected by contamination that moved through soil, sediment or groundwater from another property. Wisconsin law, s. 292.13, Wis. Stats., provides an exemption from environmental cleanup requirements for owners of "off-site" properties. The DNR will generally not ask off-site property owners to investigate or clean up contamination that came from a different property, as long as the off-site owner allows access to his or her property so that others who are responsible for the contamination may complete the cleanup.

However, off-site property owners are legally obligated to comply with continuing obligations on their property, even though they did not cause the contamination. For example, if the state approved a cleanup where the person responsible for the contamination placed clean soil over contamination on an off-site property, the owner of the off-site property must either keep that soil in place or obtain state approval before disturbing it.

Property owners and others should check the *Public Information* section above if they need to:

- determine whether and where continuing obligations exist on a property;
- review the inspection, maintenance and reporting requirements, and
- contact the DNR regarding changing that portion of the property. The person to contact is the person that approved the closure or remedial action plan.

Option for an Off-Site Liability Exemption Letter

In general, owners of off-site properties have a legal exemption from environmental cleanup requirements. This exemption does not require a state approval letter. Nonetheless, they may request a property-specific liability exemption letter from DNR if they have enough information to show that the source of the contamination is not on their property. This letter may be helpful in real estate transactions. The fee for this letter is \$500 under Chapter NR 749, Wis. Adm. Code. For more information about this option, please see the RR Program's Liability web page at dnr.wi.gov/org/aw/rr/liability/index.htm.

Legal Obligations of Off-Site Property Owners

- Allow access so the person cleaning up the contamination may work on the off-site property (unless the off-site owner completes the cleanup independently).
- Comply with any required continuing obligations on the off-site property.

Required Notifications to Off-Site Property Owners

1. The person responsible for cleaning up contamination must notify affected off-site property owners of any proposed continuing obligations on their off-site property **before** asking the DNR to approve the cleanup. This is required by law and allows the off-site owners to provide the DNR with any technical information that may be relevant to the cleanup approval.

When circumstances are appropriate, an off-site neighbor and the person responsible for the cleanup may enter into a “legally enforceable agreement” (i.e. a contract). Under this type of private agreement, the person responsible for the contamination may also take responsibility for maintaining a continuing obligation on an off-site property. This agreement would not automatically transfer to future owners of the off-site property. The state is not a party to the agreement and can not enforce it.

2. If a cleanup proposal that includes off-site continuing obligations is approved, DNR will send a letter to the off-site owners detailing the continuing obligations that are required for their property. Property owners should inform anyone interested in buying their property about maintaining these continuing obligations. For residential property, this would be part of the real estate disclosure obligation.

More Information

For more information, please visit the RR Program's Continuing Obligations web site at dnr.wi.gov/org/aw/rr/cleanup/obligations.htm.

Additional Information

For more information about DNR's Remediation and Redevelopment Program, see our web site at dnr.wi.gov/org/aw/rr/. This document contains information about certain state statutes and administrative rules but does not include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.

2010 Property Record Superior/Douglas County, WI

Assessed values not finalized until after Board of Review
Years marked with * have delinquent taxes

Property Information is valid as of 5/27/10

Owner
Douglas County 1313 Balknap St Superior, WI 54880

Co-Owner(s)
No co-owners listed

Property Information	
Parcel ID:	HA-014-00183-00
School Districts:	Wltc (vtae) Douglas County Maple School Dist
<u>Section</u> <u>Township</u> <u>Range</u> <u>Qtr</u> <u>Qtr</u> <u>Section</u> <u>Qtr</u> <u>Section</u>	03 46N 12W
Lot:	
Block:	
Plat Name:	

Property Description	
Pt Se Nw S-10a 3-46-12 Desc 341 Rp 481 County Highway Shop	
Property Address:	7417 S County Road E
Municipality:	Town Of Hawthorne

Deed Information		
<u>Volume</u>	<u>Page</u>	<u>Document #</u>

Tax Information			
Net Tax Before Lottery Credit	.00		
Lottery Credit	.00		
Net Tax After	.00		
	<u>Amt. Due</u>	<u>Amt. Paid</u>	<u>Balance</u>
Tax	.00	.00	.00
Special Assessment	.00	.00	.00
Special Charges	.00	.00	.00
Delinquent Charges	.00	.00	.00
Woodland Tax	.00	.00	.00
Private Forest Crop	.00	.00	.00
Managed Forest Land	.00	.00	.00
Property Tax Interest		.00	.00
Special Tax Interest		.00	.00
Other Charges	.00	.00	.00
Total	.00	.00	.00
Over-Payment		.00	

Land Valuation				
<u>Tax Code</u>	<u>Acres</u>	<u>Value</u>	<u>Improvements</u>	<u>Total</u>
X3	10.000			
	10.000	\$.00	\$.00	\$.00
Total Acres:				10.000
Assessment Ratio:				0
Fair Market Value				\$.00

Installments					
<u>Period</u>	<u>End Date</u>	<u>Amount</u>	<u>Period</u>	<u>End Date</u>	<u>Amount</u>

Payment History (Posted Payments)									
<u>Date</u>	<u>Receipt #</u>	<u>Source</u>	<u>Type</u>	<u>Amount</u>	<u>Gen. Tax Balance</u>	<u>Spec. Assessment Balance</u>	<u>Interest</u>	<u>Penalty</u>	<u>Total</u>

DOCUMENT NO.
524370

VOL 341 PAGE 481

OFFICE OF REGISTER OF DEEDS
DOUGLAS COUNTY, WISCONSIN

THIS INDENTURE, Made by JOHN R. TENNEY and
LOIS TENNEY, husband and wife

Received for record this

Day of March, A.D. 1975
at 11:00 o'clock A.M. and
recorded in Volume 341 of
Records on page 481

WARRANTY of Douglas County, Wisconsin, hereby intended
by DOUGLAS COUNTY

Capital Register REGISTER
DEPUTY

of Douglas County, Wisconsin, for the sum of
Seven Hundred and Fifty (\$750.00) Dollars

RETURN TO
County Clerk

the following tract of land in Douglas County, State of Wisconsin

South Ten (8 10) acres of the Southeast Quarter of Northwest Quarter
(SE $\frac{1}{4}$ of NW $\frac{1}{4}$), Section Three (3), Township Forty-six (46), Range
Twelve (12), subject to all easements

This deed is given to correct a description originally recorded
in the office of the Register of Deeds for Douglas County,
Wisconsin, in Volume 298, Page 178, Document No. 495905.

2722 # 2

IN WITNESS WHEREOF, the abovesaid I have hereunto set their hand and seal the 20th
day of March, A.D. 1975

SIGNED AND SEALED IN PRESENCE OF

[Signature]
DORIS M. STANBACH

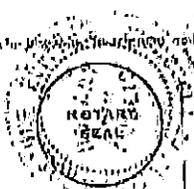
[Signature] (SEAL)
JOHN R. TENNEY

[Signature] (SEAL)
LOIS TENNEY

JOHN TENNEY

STATE OF WISCONSIN,
Douglas County.

Personally came before me, this 20th day of March, A.D. 1975
the above named John R. Tenney and Lois Tenney, husband and wife,



known to me to be the persons whose names are subscribed to the foregoing and to know the contents
hereof, and to be the persons who executed the foregoing instrument.

This instrument was read to
James C. McKey, Sr.

Notary Public, Douglas County, Wis.
My Commission Expires the October 30, 1977

2010 Property Record Superior/Douglas County, WI

Assessed values not finalized until after Board of Review.
Years marked with * have delinquent taxes

Property information is valid as of 5/27/10

Owner
Douglas County 1313 Belknap St Superior WI 54880

Co-Owner(s)
No co-owners listed

Property Information	
Parcel ID:	HA-014-00184-00
School Districts:	Douglas County Maple School Dist Witc (vtac)
<u>Section</u> <u>Township</u> <u>Range</u> <u>Qtr</u> <u>Qtr</u> <u>Section</u> <u>Qtr</u> <u>Section</u>	Q3 46N 12W
Lot:	
Block:	
Plat Name:	

Property Description	
Pt Ne Sw N-240' 3-46-12 Desc 227 Dp 583 282 Dp 409	
Property Address:	None
Municipality:	Town Of Hawthorne

Deed Information		
<u>Volume</u>	<u>Page</u>	<u>Document #</u>

Tax Information				
Net Tax Before Lottery Credit		.00		
Lottery Credit		.00		
Net Tax After		.00		
	<u>Amt. Due</u>	<u>Amt. Paid</u>	<u>Balance</u>	
Tax	.00	.00	.00	
Special Assessment	.00	.00	.00	
Special Charges	.00	.00	.00	
Delinquent Charges	.00	.00	.00	
Woodland Tax	.00	.00	.00	
Private Forest Crop	.00	.00	.00	
Managed Forest Land	.00	.00	.00	
Property Tax Interest	.00	.00	.00	
Special Tax Interest	.00	.00	.00	
Other Charges	.00	.00	.00	
Total	.00	.00	.00	
Over-Payment	.00			

Land Valuation				
<u>Tax Code</u>	<u>Acres</u>	<u>Value</u>	<u>Improvements</u>	<u>Total</u>
X3	7.300			
	7.300	\$.00	\$.00	\$.00
Total Acres:				7.300
Assessment Ratio:				0
Fair Market Value				\$.00

Installments					
<u>Period</u>	<u>End Date</u>	<u>Amount</u>	<u>Period</u>	<u>End Date</u>	<u>Amount</u>

Payment History (Posted Payments)									
<u>Date</u>	<u>Receipt #</u>	<u>Source</u>	<u>Type</u>	<u>Amount</u>	<u>Gen. Tax Balance</u>	<u>Spec. Assessment Balance</u>	<u>Interest</u>	<u>Penalty</u>	<u>Total</u>

406561

Warranty Deed, Made by **Thomas E. Gawne and Jennie T. Gawne,**

husband and wife as joint tenants

grantee of **Douglas** County, Wisconsin, hereby conveyed and warrants to **Douglas County, Wisconsin**

the sum of, **One (\$1.00) Dollar and other valuable consideration** for the following tract of land in **Douglas** County, State of Wisconsin:

That part of the Northeast Quarter (NE $\frac{1}{4}$) of the Southwest Quarter (SW $\frac{1}{4}$) of Section Three (3), Township Forty-six (46) North, Range Twelve (12) West, described as follows, to-wit:

Beginning at the center point of Section Three (3), Township Forty-six (46) North, Range Twelve (12) West; thence running South on the North and South Quarter line a distance of 240 feet; thence running due West a distance of 208.7 feet; thence running due North a distance of 240 feet to the East and West Quarter line of said Section Three (3); thence running East on the East and West Quarter line a distance of 208.7 feet to the point of beginning, containing one and fifteen hundredths (1.15) acres more or less.

In Witness Whereof, the said grantors, have, hereunto set their hands and seal this **6th**

day of **July**, A. D. 1951.

Robert H. Gage
Robert H. Gage
E. N. Potter
E. N. Potter

Thomas E. Gawne
THOMAS E. GAWNE (SEAL)

Jennie T. Gawne
JENNIE T. GAWNE (SEAL)

State of Wisconsin,

Douglas County

Personally appeared me, the **6th** day of **July**, A. D. 1951, the undersigned **Thomas E. Gawne and Jennie T. Gawne, husband and wife as joint tenants**

in me hereunto set their hands and seals, read the foregoing instrument and acknowledged the same.

Ada K. Smith
Notary Public, Douglas County, Wis.
My commission expires **8-15-52**

Robert H. Gage
Notary Public

Thomas E. Gawne
Notary Public
Notary Public, Douglas County, Wis.
My commission expires **8-15-52**

Barthelmy Beard
REGISTRAR'S OFFICE,
STATE OF WISCONSIN

Jennie T. Gawne
Thomas E. Gawne

406561

HA-00184

174078

VOL. 282 PAGE 409

THIS INDENTURE, Made by FRANCIS CADOTTE and
MARIAN CADOTTE, husband and wife as
joint tenants,
of Douglas County, Wisconsin, hereby quit-claims to
DOUGLAS COUNTY

OFFICE OF RECORDER OF DEEDS
DOUGLAS COUNTY, WISCONSIN
RECEIVED FOR RECORDING this 12th day of August, A.D. 1965
at 11:00 A.M. Subject Francis and Marian Cadotte
Recorded by Valene...
DEPUTY

George of Douglas County, Wisconsin, for the sum of
One Dollar (\$1.00) and other valuable consideration
the following tract of land in Douglas County, State of Wisconsin:

Starting 208.7 feet west of the center of Section 3,
Township 46 North, Range 12 West, (3-46-12) as the point
of beginning, thence west to the Northwest corner of the
Northeast Quarter of the Southwest Quarter of Section 3,
Township 46 North, Range 12 West, thence south 240 feet,
thence east to a point 208.7 feet west of the east line of
the Northeast Quarter of the Southwest Quarter of Section 3,
Township 46 North, Range 12 West, (3-46-12), thence north a
distance of 240 feet to point of beginning, consisting of
approximately 5.61 acres more or less.

In Witness Whereof, the said Francis and Marian Cadotte have hereunto set their hands and seals this 12th day of August, A.D. 1965

Francis Cadotte (REAL)
Marian Cadotte (REAL)

W. Arnold
Early... (REAL)

State of Wisconsin,
Douglas County, Wisconsin
Personally appeared this 12th day of August, A.D. 1965
Francis Cadotte and Marian Cadotte
in the presence of the undersigned who executed the foregoing instrument and acknowledged the same

Gartrude Kertum
County Public, Douglas County, Wis.
July 21, 1968

Robert A. DuChambeau
Attorney at Law

2010 Property Record Superior/Douglas County, WI

Assessed values not finalized until after Board of Review
Years marked with * have delinquent taxes

Property Information is valid as of 5/27/10

Owner
Douglas County 1313 Balknap St Superior WI 54880

Co-Owner(s)
No co-owners listed

Property Information	
Parcel ID:	HA-014-00172-00
School Districts:	Wito (vtae) Douglas County Maple School Dist
<u>Section</u> <u>Township</u> <u>Range</u> <u>Qtr</u> <u>Qtr</u> <u>Section</u> <u>Qtr</u> <u>Section</u>	03 46N 12W SW NE
Lot:	
Block:	
Plat Name:	

Property Description	
Pt Sw Ne 3-46-12 Ex Pt E Of Co. Rd E	
Property Address:	None
Municipality:	Town Of Hawthorne

Deed Information		
<u>Volume</u>	<u>Page</u>	<u>Document #</u>
		702816

Tax Information			
Net Tax Before Lottery Credit		.00	
Lottery Credit		.00	
Net Tax After		.00	
	<u>Amt. Due</u> <u>Amt. Paid</u> <u>Balance</u>		
Tax	.00	.00	.00
Special Assessment	.00	.00	.00
Special Charges	.00	.00	.00
Delinquent Charges	.00	.00	.00
Woodland Tax	.00	.00	.00
Private Forest Crop	.00	.00	.00
Managed Forest Land	.00	.00	.00
Property Tax Interest	.00	.00	.00
Special Tax Interest	.00	.00	.00
Other Charges	.00	.00	.00
Total	.00	.00	.00
Over-Payment	.00	.00	.00

Land Valuation				
<u>Tax Code</u>	<u>Acres</u>	<u>Value</u>	<u>Improvements</u>	<u>Total</u>
X3	6.000			
	6.000	\$.00	\$.00	\$.00
Total Acres:				6.000
Assessment Ratio:				0
Fair Market Value				\$.00

Installments					
<u>Period</u>	<u>End Date</u>	<u>Amount</u>	<u>Period</u>	<u>End Date</u>	<u>Amount</u>

Payment History (Posted Payments)									
<u>Date</u>	<u>Receipt #</u>	<u>Source</u>	<u>Type</u>	<u>Amount</u>	<u>Gen. Tax Balance</u>	<u>Spec. Assessment Balance</u>	<u>Interest</u>	<u>Penalty</u>	<u>Total</u>

DOCUMENT NO.

703462

DOCUMENT NO. 703462

THIS INSTRUMENT, Made by GREGORY A. PRYATEL, a single man.

RECORDED ON 10/26/1988 AT 03:38PM
OFFICE OF REGISTER OF DEEDS
DOUGLAS COUNTY, WISCONSIN
KATHY F. WAGON
REGISTER

grantor of Wisconsin County, Wisconsin, hereby conveys and warrants to DOUGLAS COUNTY, WISCONSIN, a Wisconsin body politic

FEE (GRANTY) 198.00

of Douglas County County, Wisconsin, for the sum of \$29,000.00

RETURN TO
Corp Coun,

the following tract of land in Douglas County, State of Wisconsin:

Tax Code Nos.:
HA-014-00194-00
HA-014-00188-00

The North Half of the Northeast Quarter of the Southwest Quarter (N $\frac{1}{2}$ of NE $\frac{1}{4}$ of SW $\frac{1}{4}$), except the North 240 feet thereof (as conveyed by deeds recorded in Volume 227 of Deeds, page 883 and Volume 282 of Deeds, page 409);

AND

That part of the Northwest Quarter of the Southeast Quarter (NW $\frac{1}{4}$ of SE $\frac{1}{4}$), lying Westerly of the Westerly right-of-way of former U.S. Highway 53 (now South County Road "E") as said right-of-way is defined by deed recorded in Volume 244 of Deeds, page 561, except the North 240 feet thereof;

All in Section Three (3), Township Forty-six (46) North, Range Twelve (12) West, Town of Hawthorne, Douglas County, Wisconsin.

TRANSFER
\$29,80
FEE

IN WITNESS WHEREOF, the said grantor has hereunto set his hand and seal, this 26th day of September, A. D., 19 88.

SIGNED AND SEALED IN PRESENCE OF

Gregory A. Pryatel (SEAL)
Gregory A. Pryatel, a single man

____ (SEAL)

____ (SEAL)

____ (SEAL)

STATE OF WISCONSIN,
County, } ss.

Personally came before me, this _____ day of _____, A. D., 19____
the above named _____

to me known to be the person who executed the foregoing instrument and acknowledged the same.



Frederic P. Felker
Frederic P. Felker

This instrument drafted by
Frederic P. Felker

Notary Public Douglas County, Wis.

My Commission Expires (is) Permanent.

(Section 19.01 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have clearly printed or typewritten therein the name of the State of Wisconsin, Wisconsin and Notary.)

12A

702615

Conveyance

Document Number

Document Title

DOCUMENT NO. 702615
RECORDED ON 09/29/1998 AT 09:10AM
OFFICE OF REGISTER OF DEEDS
DOUGLAS COUNTY, WISCONSIN
KATHY F. HANSON
REGISTER

FEE AMOUNT \$12.00

Recording Area

Name and Return Address

*Douglas Co. Highway Dept
Chg. \$ 12.
Corp. Council*

Parcel Identification Number (PIN)

CONVEYANCE

32.05(2a) Wis. Stats.

Document No. _____

Exempt from fee: s. 77.25(12)

A negotiated purchase having been agreed upon pursuant to a relocation order of the County of Douglas, State of Wisconsin, dated September 17th, 1998, and filed in the office of the County Clerk of Douglas County, for the construction of a new highway maintenance facility in Douglas County.

The County of Douglas has determined it necessary to acquire, for the purpose set forth in and in accordance with said relocation order, a parcel of real estate and/or rights therein as set forth, in and to which the following persons have an interest:

Jean B. Fletcher, Stanley Sawicki (deceased), Chester Sawicki (deceased), Helen Bart (deceased), Paul Matan (deceased), Alice Matan (deceased), Stella LaRue (deceased), Alice Sawicki a/k/a Alice Sawycki (deceased)

Jean B. Fletcher, a single woman, having agreed to a negotiated purchase pursuant to Sec. 32.05(2a) of the Wisconsin Statutes hereby conveys to Douglas County, Wisconsin, all right, title and interest to the real property described below:

Tax Code #: HA-014-00172-00
HA-014-00173-00

South Half (S $\frac{1}{2}$) of the Northeast Quarter (NE $\frac{1}{4}$) of Section Three (S.3), Township Forty-six North (T.46N.), Range Twelve West (R.12W.), Town of Hawthorne, County of Douglas, State of Wisconsin.

Said parcel of real estate and/or interests therein will be occupied by the County of Douglas upon filing and recording of this instrument.

The County of Douglas, having complied with all jurisdictional requirements pursuant to law, makes this award to the above persons having an interest in said parcel of real estate, in the sum of Twenty-one Thousand and no/100 dollars (\$21,000.00)-----, for the acquisition of said parcel for real estate and/or interests therein as set forth.

Dated this 22ND day of SEPTEMBER, 1998

x Jean B. Fletcher
JEAN B. FLETCHER, A Single Woman.

Subscribed and sworn to before me this 22ND day of SEPTEMBER, 1998.

William J. Duffy
Notary Public
My commission expires: 11/9/2002



This space reserved for recording data

FEE # <u>21.25(12)</u> EXEMPT

Return to: _____

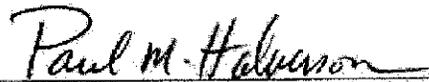
THIS INSTRUMENT WAS DRAFTED BY
Frederic P. Felker
1313 Belknap Street, Room 206
Superior, Wisconsin 54880

Re: Douglas County Highway Shop-AST and UST sites
7417 South County Highway E
Hawthorne, WI
WDNR BRRTS # 02-16-198708 & 03-16-000542

Douglas County Parcels

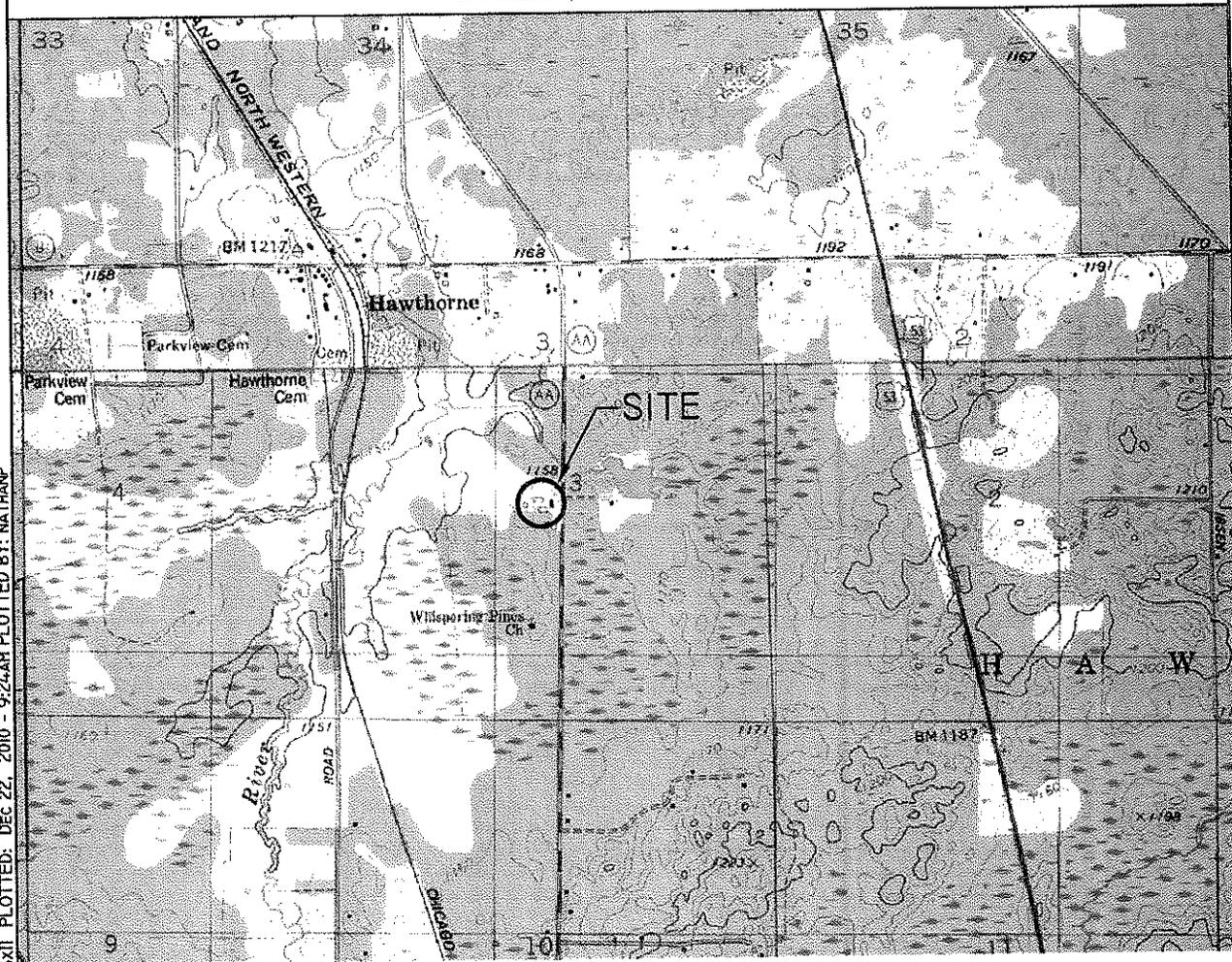
- HA0140018300 (Described in Vol 341, P481)
- HA0140018400 (Described in Vol 227, P583 & Vol 282, P409)
- HA0140019400 & HA0140018500 (Described on Document #703462)
- HA0140017200 (Described on Document #702615)

I have reviewed the above referenced legal description, and hereby certify that it is correct for the Douglas County Highway Shop sites.

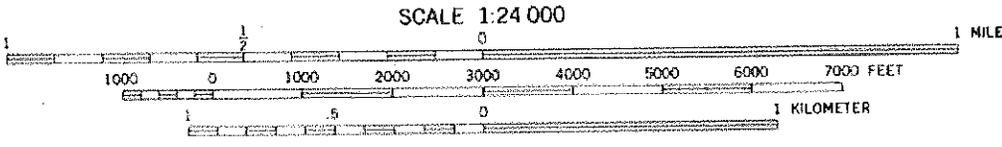


Date

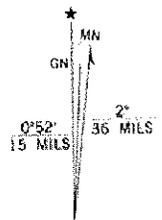
Paul Halverson, Douglas County Highway Department



DRAWING FILE: J:\DRAFTING\5405-DOUGLAS\DWG\5405-VICN.DWG LAYOUT: ENV_VERT-8.5X11 PLOTTED: DEC 22, 2010 - 9:24AM PLOTTED BY: NATHANP



CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1981 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

BENNETT, WIS.
 NE/4 SOLON SPRINGS 15' QUADRANGLE
 N4622.5-W9145/7.5

1981

DMA 2676 IV NE-SERIES V061



QUADRANGLE LOCATION

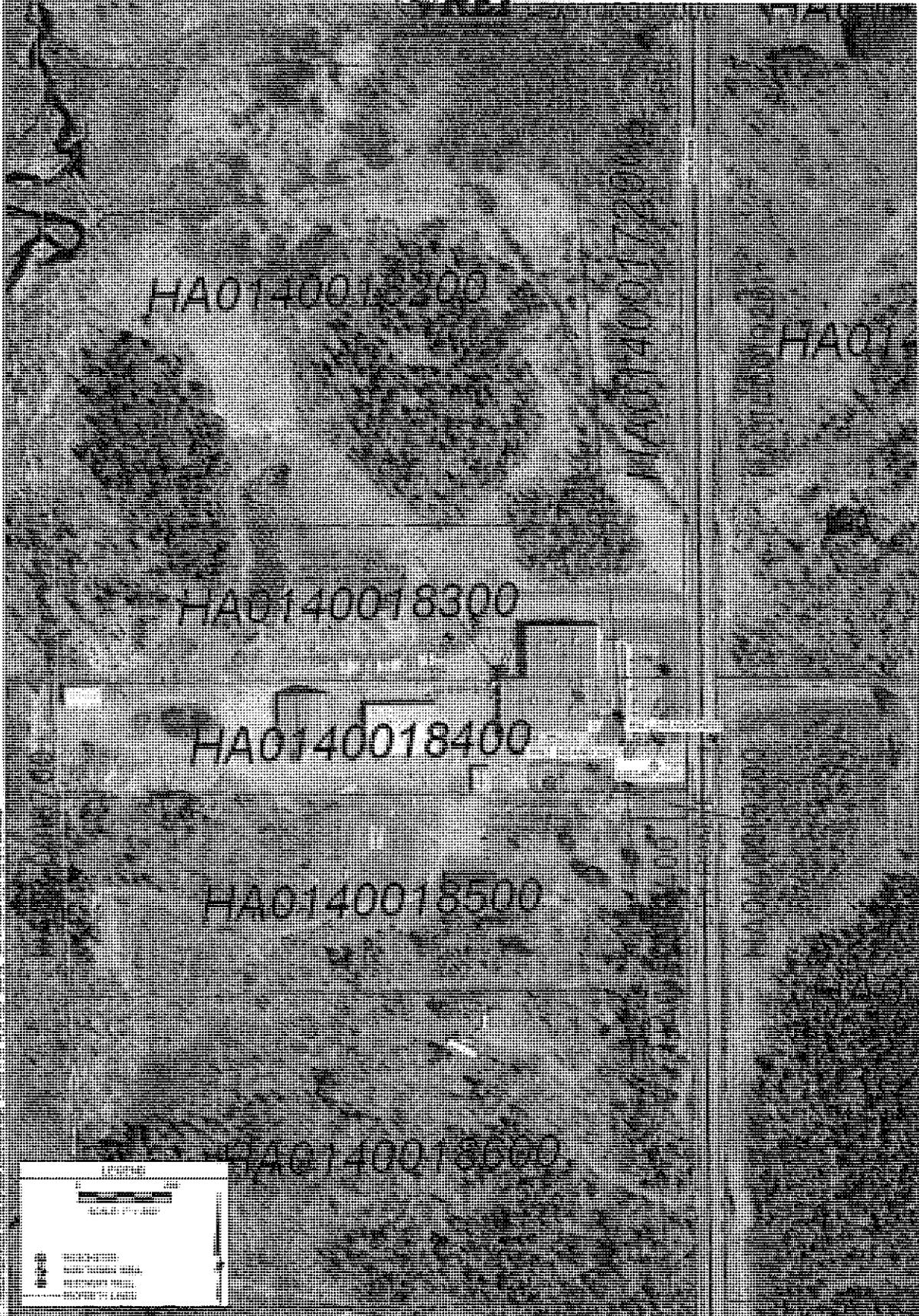
REI Engineering, INC.

DOUGLAS COUNTY HWY DEPT.
 7417 COUNTY ROAD "E"
 HAWTHORNE, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	5405X	DRAWN BY:	NAP	DATE:	12/22/10
-------------	-------	-----------	-----	-------	----------

RET



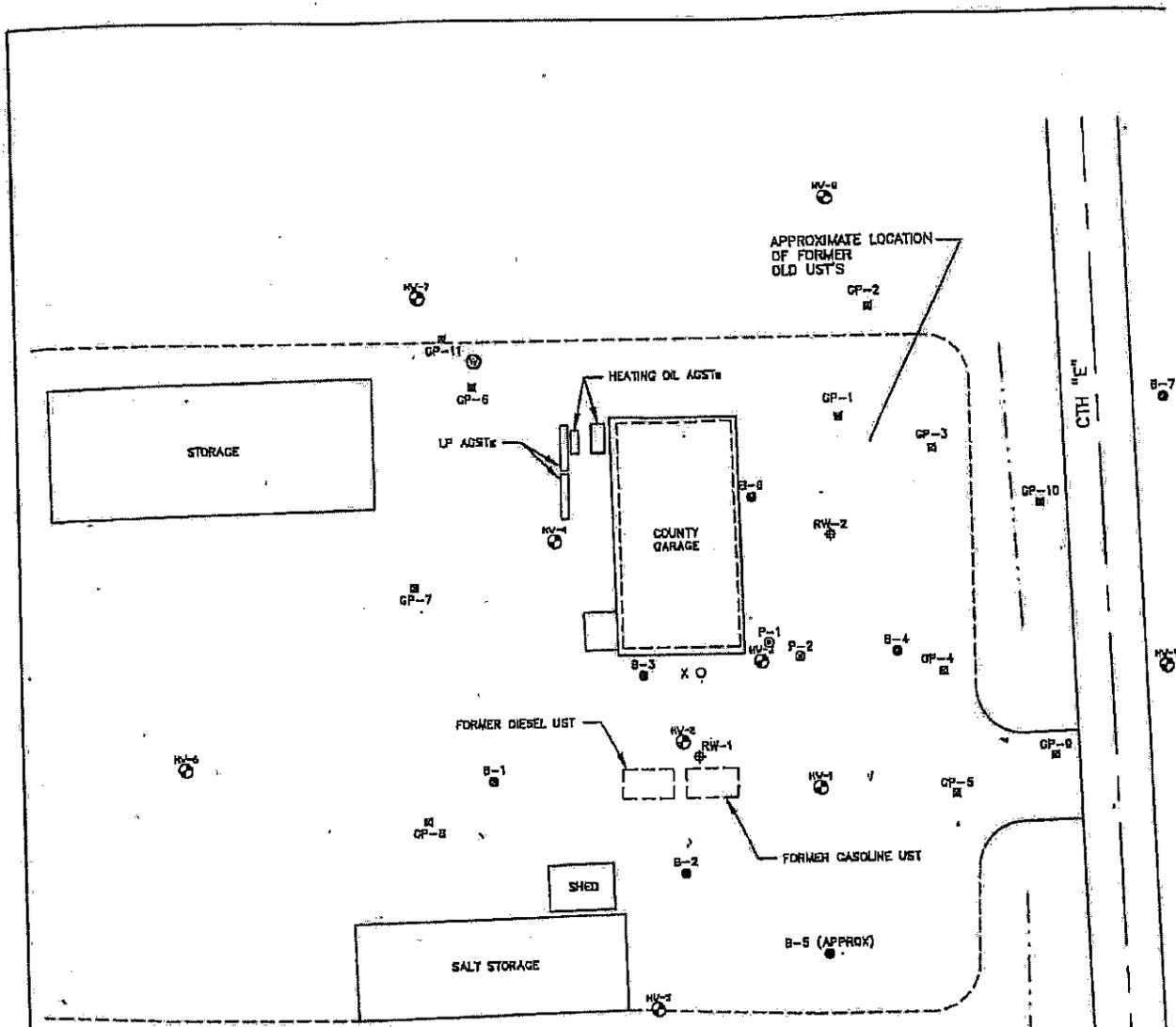
DEVELOP COUNTY HWY 1401,
 7417 COUNTY ROAD "C"
 MATCHEME, WISCONSIN

FIGURE NO. : MAP OVERLAY

PROJECT NO.
 1401

PROJECT DATE
 1/80

DATE
 8/20/81



LEGEND

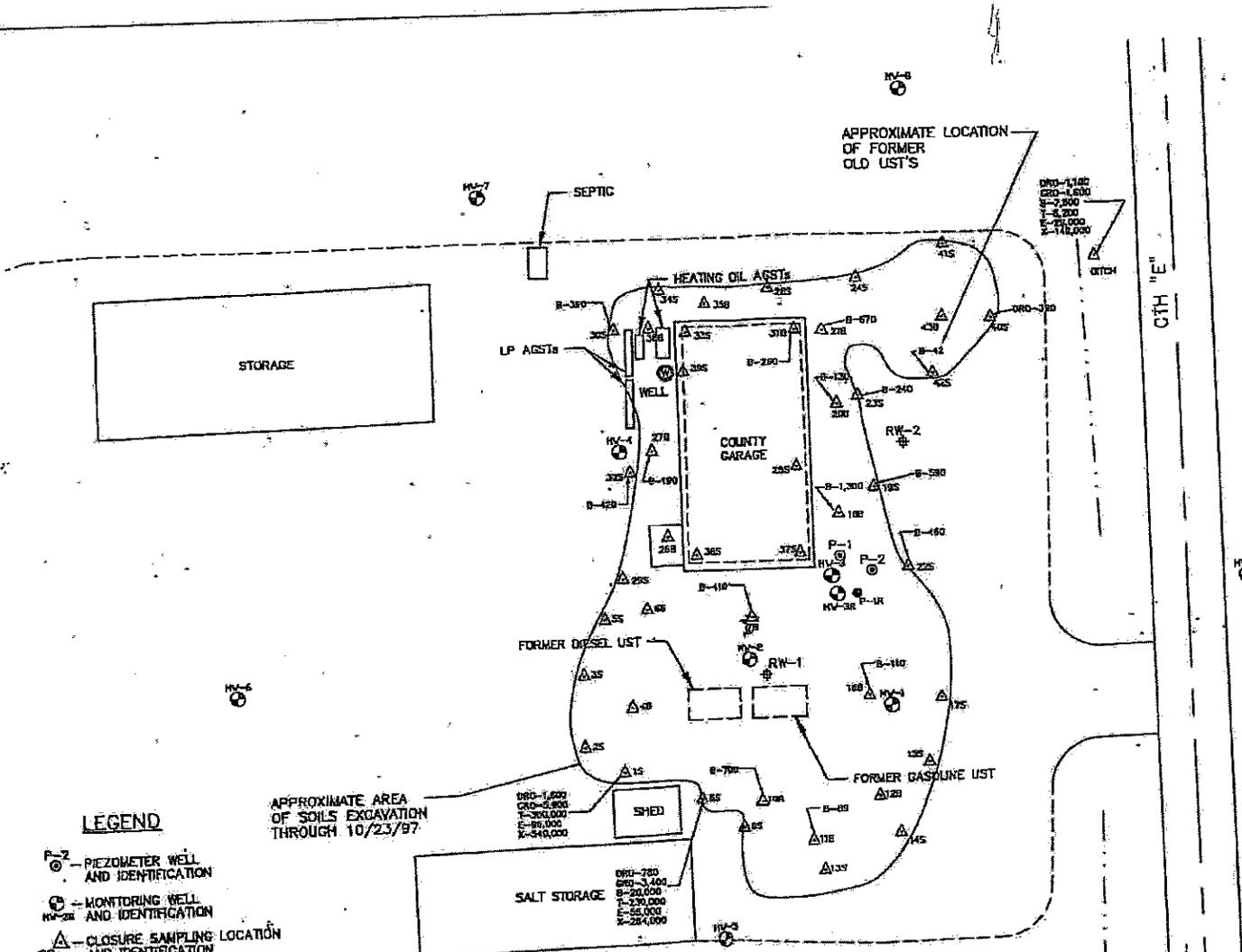
- ⊕ GROUNDWATER MONITORING WELL LOCATION
- SOIL EXPLORATION BORINGS LOCATION
- ⊕ GROUNDWATER RECOVERY WELL LOCATION
- ⊞ GEOPROBE HOLE LOCATION
- ⊙ PIEZOMETER LOCATION
- X PROPOSED MONITORING WELL
- PROPOSED PIEZOMETER

NOTE: MW-1, MW-2, MW-3, RW-1, P-1 AND P-2 WERE ABANDONED DURING EXCAVATION ACTIVITIES.

**SITE MAP
DOUGLAS COUNTY HIGHWAY DEPARTMENT
HAWTHORNE, WISCONSIN**

 **COLEMAN ENGINEERING COMPANY**
635 CIRCLE DRIVE
IRON MOUNTAIN, MICHIGAN 49801

DATE 29 OCT. 9
JOB NO 93591
CADD FILE 93591A03



LEGEND

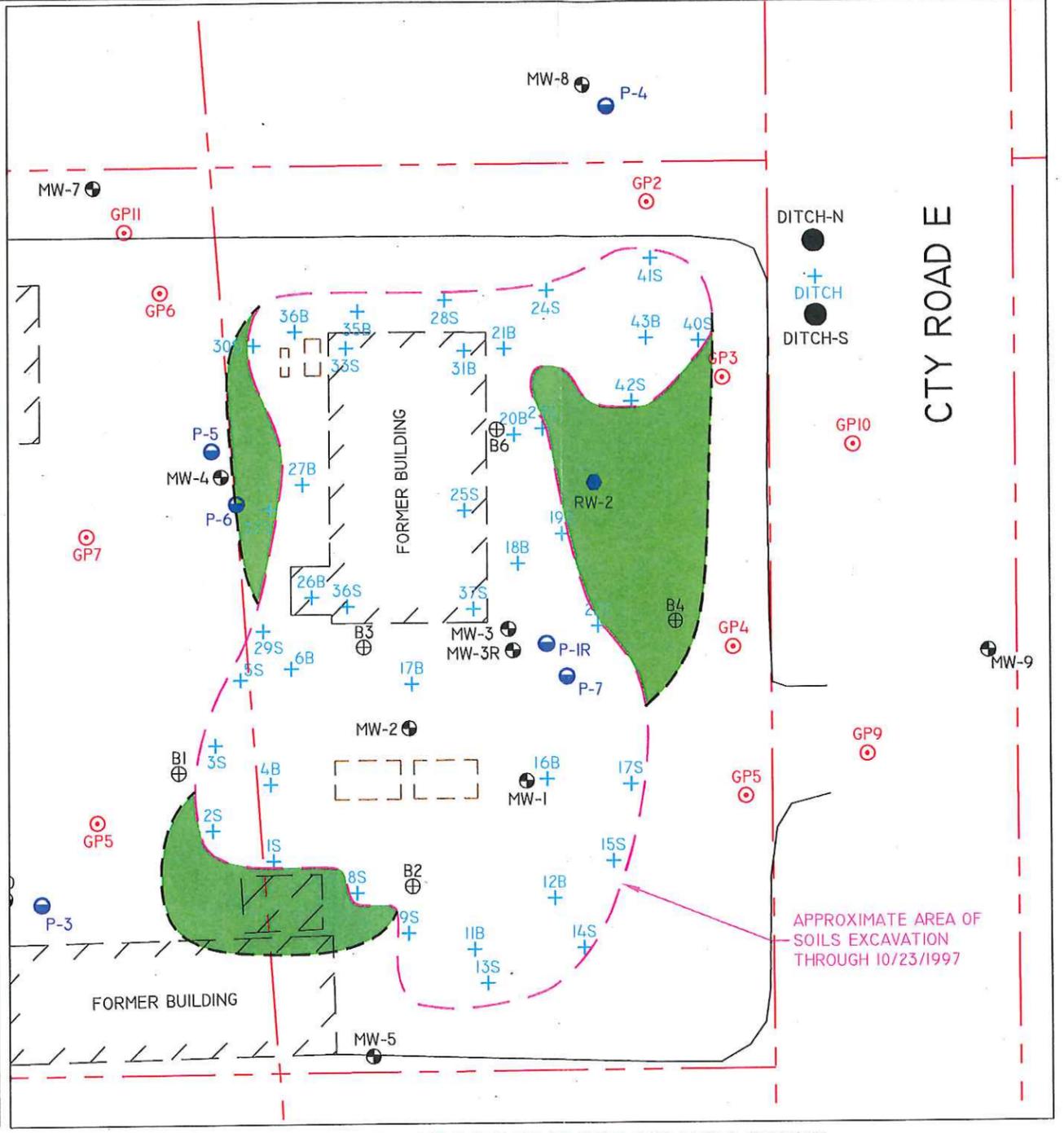
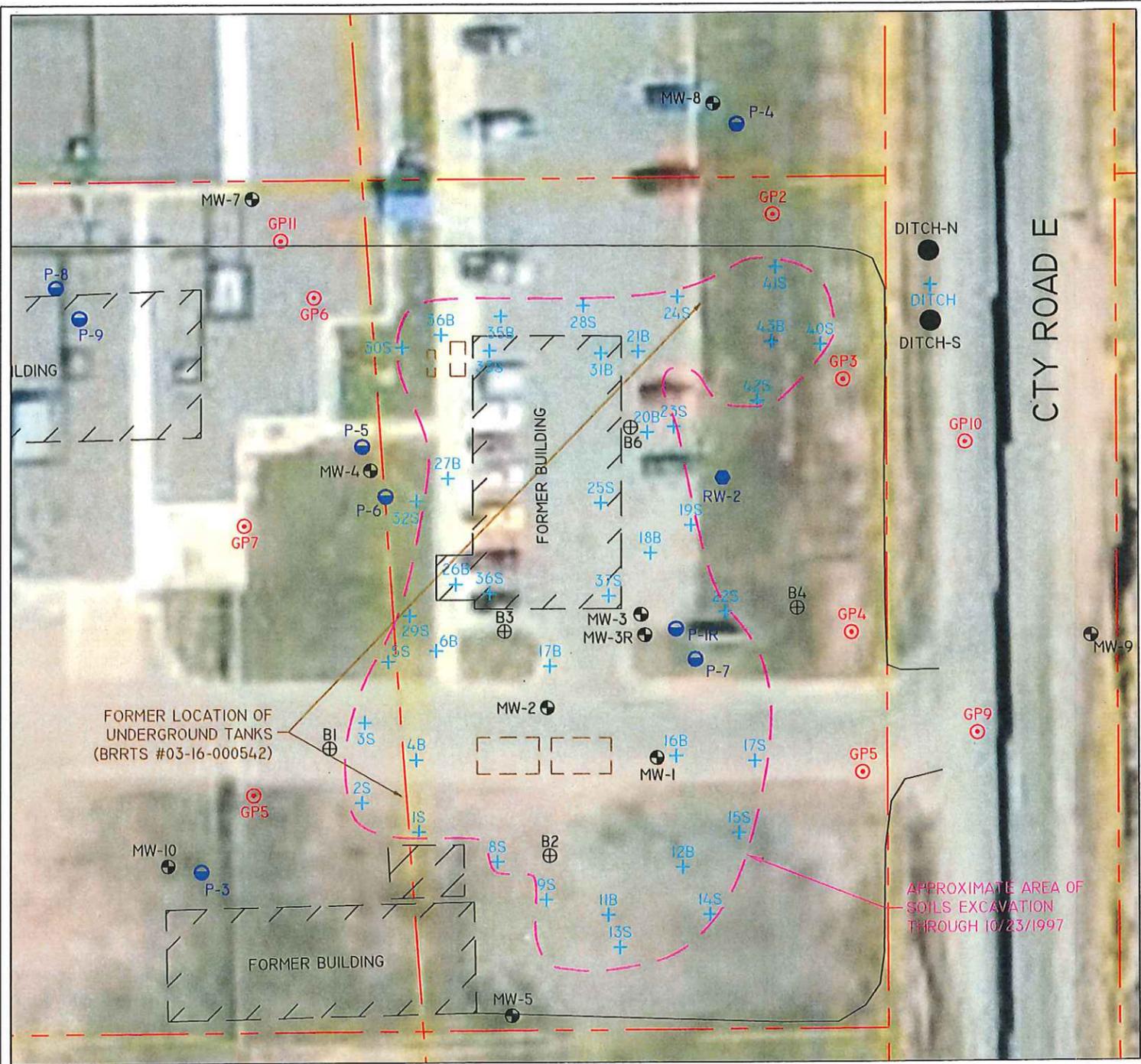
- ⊙-2 - PIEZOMETER WELL AND IDENTIFICATION
- ⊙ - MONITORING WELL AND IDENTIFICATION
- ⊙-26 - MONITORING WELL AND IDENTIFICATION
- △ - CLOSURE SAMPLING LOCATION AND IDENTIFICATION
- 25 - CLOSURE SAMPLING LOCATION AND IDENTIFICATION
- DRG - DIESEL RANGE ORGANICS
- GRO - GASOLINE RANGE ORGANICS
- B - BENZENE CONCENTRATION IN ug/kg
- T - TOLUENE CONCENTRATION IN ug/kg
- E - ETHYLBENZENE IN ug/kg
- X - XYLENE IN ug/kg

**SOIL EXCAVATION LIMITS AND CLOSURE SAMPLING LOCATION
DOUGLAS COUNTY HIGHWAY DEPARTMENT
HAWTHORNE GARAGE
HAWTHORNE, WISCONSIN**

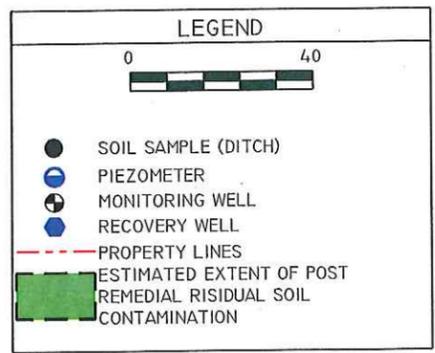
REVISED OCT. 29, 1998
COLEMAN ENGINEERING COMPANY
 635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 DATE 06/25/98
 JOB NO 83591
 CADD FILE 83591A03



DRAWING FILE: J:\DRAFTING\5405-DOUGLAS\DWG\5405-SITE-COLEMAN.DWG LAYOUT: 5 ZOOMED PLOTTED: JAN 25, 2012 - 8:50AM PLOTTED BY: TODDW



MAPPING PROVIDED BY COLEMAN ENGINEERING COMPANY

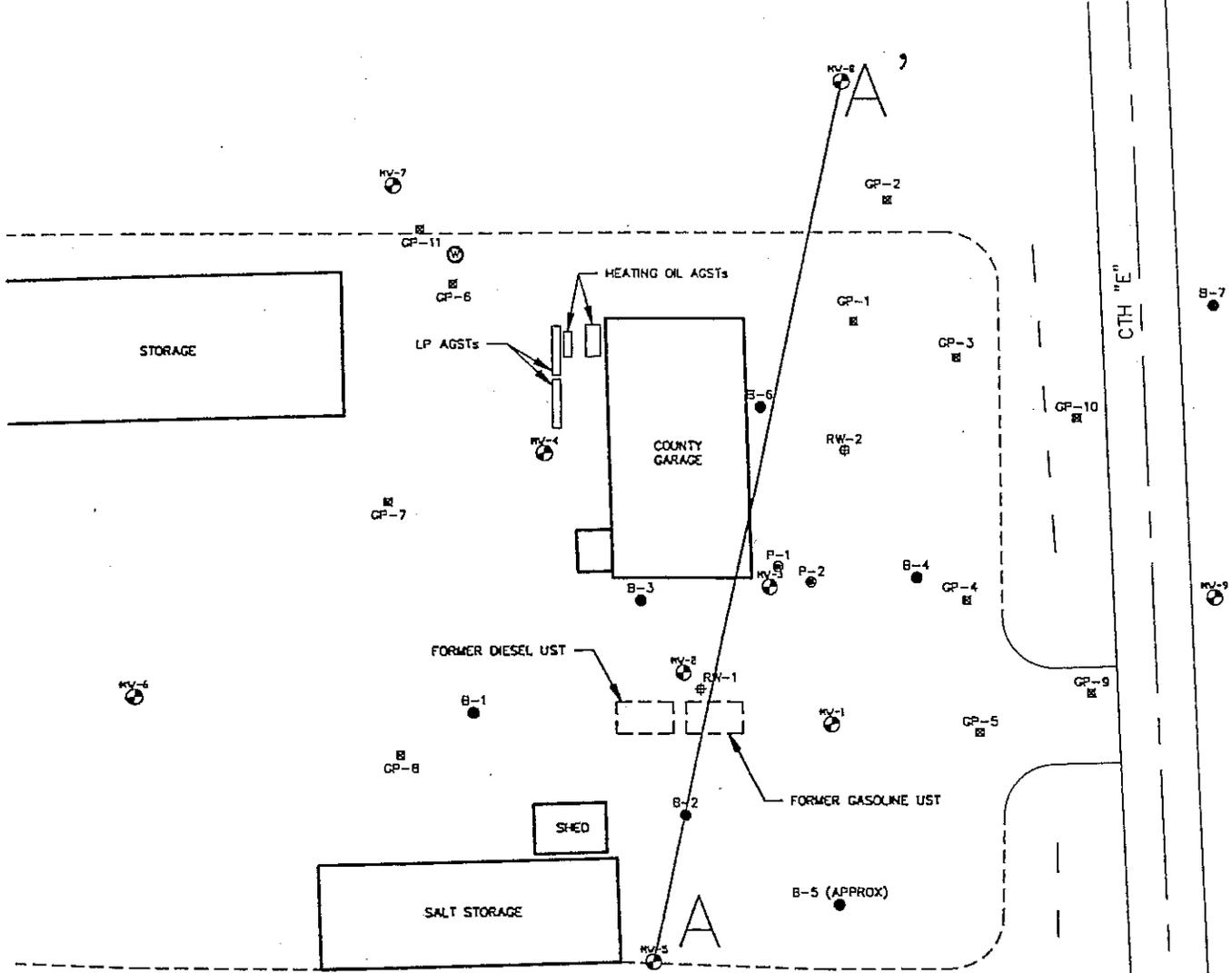


DOUGLAS COUNTY HWY DEPT.
7417 COUNTY ROAD "E"
HAWTHORNE, WISCONSIN

FIGURE 5 : SITE MAP - DETAIL AREA

PROJECT No. 5405x	DRAWN BY: TAW	DATE: 01/24/12
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REI Engineering, INC.



- LEGEND**
- ⊕ GROUNDWATER MONITORING WELL LOCATION
 - SOIL EXPLORATION BORINGS LOCATION
 - ⊕ GROUNDWATER RECOVERY WELL LOCATION
 - GEOPROBE HOLE LOCATION
 - PIEZOMETER LOCATION

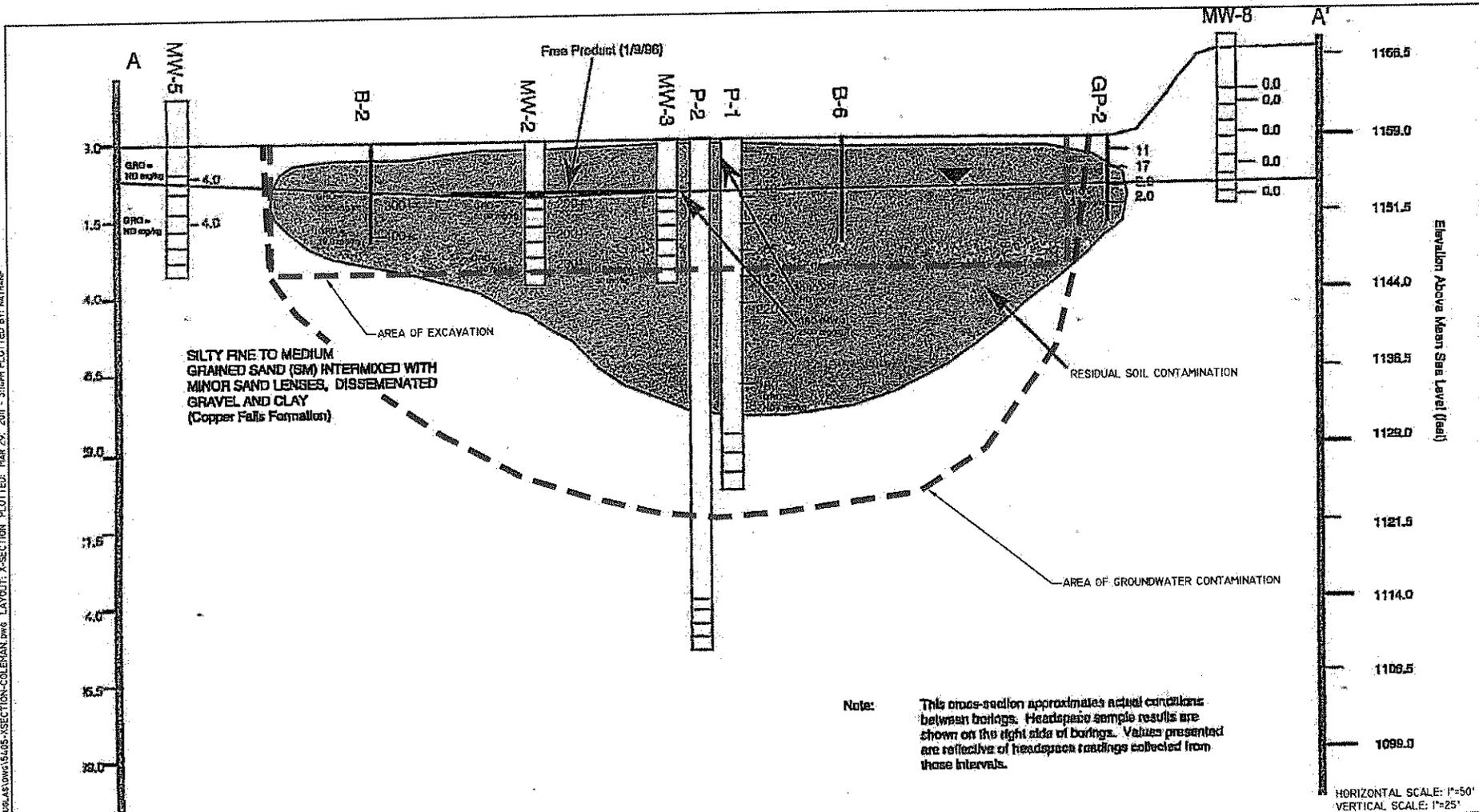


GEOLOGIC CROSS SECTION A - A'
DOUGLAS COUNTY HIGHWAY DEPARTMENT
HAWTHORNE, WISCONSIN

CE COLEMAN ENGINEERING COMPANY
635 Circle Drive
Iron Mountain, Michigan 49801

DATE JULY 96
JOB NO 93591A
CADD FILE 93591A0.

DRAWING FILE: J:\DRAFTING\5405-DOUGLAS\5405-XSECTION-COLEMAN.DWG LAYOUT: X-SECTION PLOTTED BY: NATHAN



Note: This cross-section approximates actual conditions between borings. Headspace sample results are shown on the right side of borings. Values presented are reflective of headspace readings collected from those intervals.

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=25'

Explanation:
 PID readings in units of Isobutylene
 Estimated extent of impacted soil
 GRO - Gasoline Range Organics (mg/kg)
 ND+ - GRO concentration not detected at or above the laboratory concentration with low levels of PVOC's detected

PVOC's - Petroleum Volatile Organic Compounds
 DRO - Diesel Range Organics (mg/kg) mg/kg - milligrams/kilogram (ppm)
 GP-01 Geoprobe Boring 1
 ND - non detectable concentration at or above the Laboratory detection limit

Vertical Exaggeration = 2x
 Groundwater Table (1/9/96)

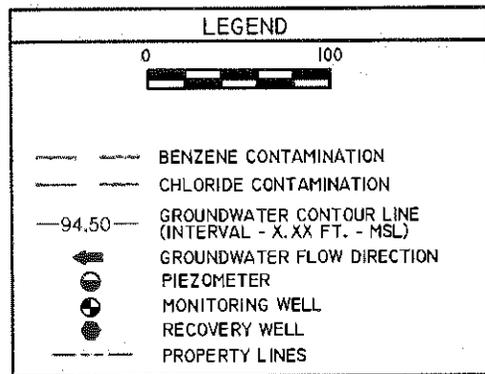
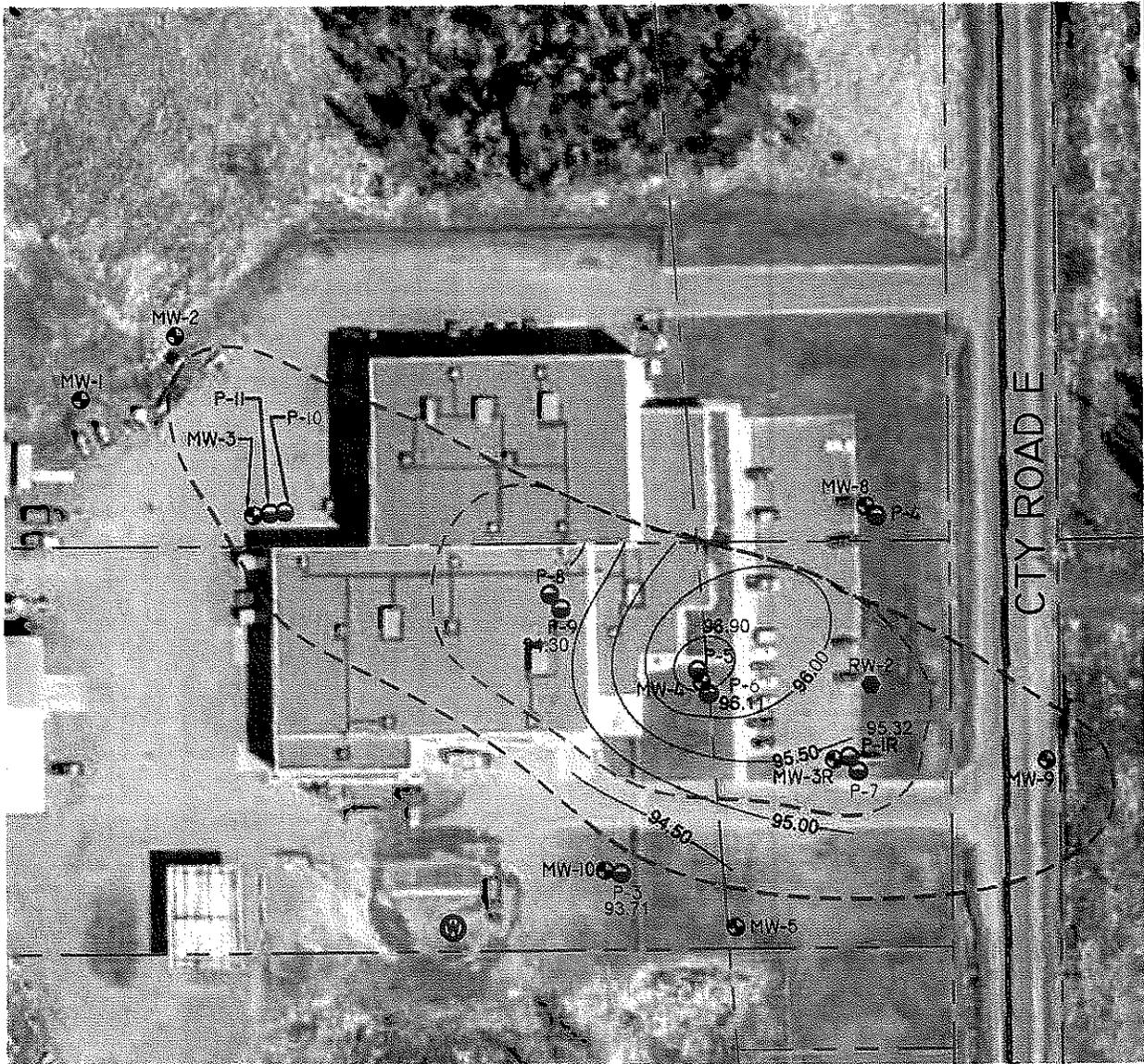
REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING	DOUGLAS COUNTY HWY DEPT. 7417 COUNTY ROAD "E" HAWTHORNE, WISCONSIN	
	FIGURE 48 : CROSS SECTION A-A'	

PROJECT No. 5405x	DRAWN BY: NAP	DATE: 03/29/11
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REI Engineering, INC.

ORIGINAL MAPPING PROVIDED BY COLEMAN ENGINEERING COMPANY.

DRAWING FILE: J:\DRAFTING\15405-Douglas\DWG\15405-GW0506.DWG LAYOUT: GW PLOTTED: FEB 22, 2011 - 8:18AM PLOTTED BY: NATHANP



DOUGLAS COUNTY HWY DEPT.
 7417 COUNTY ROAD "E"
 HAWTHORNE, WISCONSIN

REI Engineering, INC.

FIGURE 3 : GROUNDWATER CONTOURS & ESTIMATED EXTENT OF GROUNDWATER
 CONTAMINATION >MRL40(BENZENE & CHLORIDE) MAY 2006

PROJECT NO.	DRAWN BY:	DATE:
5405X	NAP	02/21/11

Douglas County Highway Department - Hawthorne Garage
 Soil Sample Analysis Results
 February 1994

	Depth ¹	Headspace ²	GRO (ppm)	DRO (ppm)	PVOC (ppb)
B-1	2.0 - 4.0	9	ND	34	**
	5.0 - 7.0	13	ND	34	**
B-2	5.0 - 7.0	300†	1300	560	**
	8.0 - 10.0	400†	19	ND	**
B-3	5.0 - 7.0	200†	2300	300	**
	8.0 - 10.0	200†	2000	230	**
B-4	5.0 - 7.0	6	ND	ND	ND
	8.0 - 10.0	8	ND	ND	**
B-4 Dup.	8.0 - 10.0	NA	ND	NA	NA
B-5	5.0 - 7.0	5	ND	ND	ND
	8.0 - 10.0	6	ND	ND	ND
B-6	4.0 - 6.0	22	ND	ND	**
	7.0 - 9.0	9	ND	ND	**
MW-1	5.0 - 7.0	300	1000	790	**
	8.0 - 10.0	300	27	ND	**
MW-2	5.0 - 7.0	200†	6100	1300	**
	8.0 - 10.0	200†	NA	NA	NA
	11.0 - 13.0	200†	380	110	**
MW-3	5.0 - 7.0	300†	2500	830	**
	11.0 - 13.0	300	30	ND	**
MW-4	4.0 - 6.0	30	ND	ND	**
	10.0 - 12.0	15	ND	ND	**
MW-5	4.0 - 6.0	4	ND	ND	ND
MW-5 Dup.	4.0 - 6.0	NA	ND	NA	NA
MW-5	7.0 - 9.0	4	ND	ND	ND

† Approximate feet below grade.

† Headspace readings in units as isobutylene. Background reading of 3 units as isobutylene.

ND - Not detected above laboratory detection limit.

NA - Not analyzed.

* Sample date.

** Elevated PVOC results detected - See Table 4.

Douglas County Highway Department - Hawthorne Garage
 PVOC Sample Results
 February 1994

Parameter	B-1	B-1	B-2	B-2	B-3	B-3	NR 720 Guideline
Depth	2.0 - 4.0	5.0 - 7.0	5.0 - 7.0	8.0 - 10.0	5.0 - 7.0	8.0 - 10.0	NS
Headspace	9	13	300+	400+	200+	200+	NS
Benzene	36	73	21,000	2,100	64,000	61,000	5.5
Toluene	130	250	110,000	3,900	280,000	240,000	1,500
Ethylbenzene	15	45	24,000	ND	45,000	39,000	2,900
Total Xylene	70	200	150,000	1,000	290,000	250,000	4,100
Methyl Tertiary Butylether	ND	ND	58,000	840	64,000	76,000	NS
1,2,4-Trimethylbenzene	5	11	120,000	ND	260,000	210,000	NS
1,3,5-Trimethylbenzene	6	19	35,000	ND	64,000	44,000	NS

Parameter	B-4	B-6	B-6	MW-1	MW-1	MW-2	NR 720 Guideline
Depth	8.0 - 10.0	4.0 - 6.0	7.0 - 9.0	5.0 - 7.0	8.0 - 10.0	5.0 - 7.0	NS
Headspace	8	22	9	300	300	200+	NS
Benzene	17	64	18	34,000	5,600	290,000	5.5
Toluene	ND	ND	ND	120,000	6,100	870,000	1,500
Ethylbenzene	ND	ND	ND	21,000	ND	140,000	2,900
Total Xylene	ND	ND	ND	113,000	1,400	770,000	4,100
Methyl tertiary Butylether	ND	ND	ND	48,000	1,100	240,000	NS
1,2,4-Trimethylbenzene	ND	ND	ND	85,000	ND	390,000	NS
1,3,5-Trimethylbenzene	ND	ND	ND	24,000	ND	110,000	NS

PVOC results in micrograms per kilogram ($\mu\text{g}/\text{kg}$).

Headspace results in units as isobutylene.

ND = Not detected.

NS - No standard.

Douglas County Highway Department - Hawthorne Garage
 PVOC Sample Results
 February 1994

Parameter	MW-2	MW-3	MW-3	MW-4	MW-4	NR 720 Guideline
Depth	11.0 - 13.0	5.0 - 7.0	11.0 - 13.0	4.0 - 6.0	10.0 - 12.0	NS
Headspace	200+	300+	300	30	15	NS
Benzene	16,000	99,000	5,500	ND	18	5.5
Toluene	47,000	200,000	5,400	ND	5	1,500
Ethylbenzene	7,600	43,000	ND	ND	ND	2,900
Total Xylene	46,000	240,000	ND	14	9	4,100
Methyltertiary Butylether	11,000	93,000	ND	ND	ND	NS
1,2,4-Trimethyl- benzene	8,800	190,000	ND	ND	ND	NS
1,3,5-Trimethyl- benzene	33,000	48,000	ND	5	ND	NS

PVOC results in micrograms per kilogram ($\mu\text{g}/\text{kg}$).

Headspace results in units as isobutylene.

ND = Not detected.

NS - No standard.

Table 2
 Supplemental Site Investigation
 Soil Sample Laboratory Analyses Results
 Douglas County Highway Department, Hawthorne, Wisconsin

Analyte	SOIL SAMPLE																RCL	
	GPS204 (4.0-6.0)	GPS303 (4.0-6.0)	GPS703 (4.0-6.0)	GPS803 (4.0-6.0)	GPS903 (4.0-6.0)	GPS1003 (4.0-6.0)	GPS1103 (4.0-6.0)	MW6 (2.0-4.0)	MW6 (4.5-6.5)	MW7 (2.0-4.0)	MW7 (4.5-6.5)	MW8 (9.5-11.5)	MW9 (2.0-4.0)	MW9 (4.5-6.5)	B7 (4.5-6.5)	PI (2.0-4.0)		PI (24.0-26.0)
GRO *	<10	<10	<10	<10	<10	<10	<10	<10	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	100
DRO *	13	<10	<10	21	220	270	<10	<10	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	<10 **	100
VOCs ***																		
Toluene	<	<	<	<	46	7	<	<	<	<	<	<	<	<	<	<	<	5.5
Para & Meta Xylenes	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1500
2,4-Trimethylbenzene	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	10
Total Lead	1.3	2.3	2.1	1.5	19	1.7	1.6	3.8	6.8	1.3	1.6	1.5	4.1	3.4	2.4	1.8	1.4	50

Note: GRO Gasoline Range Organics
 DRO Diesel Range Organics
 VOCs Volatile Organic Compounds
 RCL Residual Contaminant Level (a. NR 720 WAC)
 * concentrations reported in milligrams per liter (parts per million)
 ** sample was received past holding time for solvent addition
 *** concentrations reported in micrograms per liter (parts per billion)
 < less than, not detected above the method detection limit (MDL)

Compounds not listed were not detected above the MDL.

Compounds listed in hold were detected above the MDL.

No soil samples from P2 were collected and subjected to field screening or laboratory analyses

Douglas County Highway Department
 Supplemental Site Investigation and Remedial Alternative Analysis
 July 1996

Douglas County Highway Commission
Hawthorne Garage
Soil Remediation Laboratory Results
Closure Sidewall and Bottom Samples

Sample Number	Depth (bgs)	Headspace	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE
						300000	96000	540000	350000	110000	16000
1S	5.5-6	400	1600	5900	<2500	<25	<25	<50	<25	<25	<25
2S	5.5-6	10	<4	<3.1	<25	<25	<25	<50	<25	<25	<25
3S	5.5-6	150	<3.5	<2.8	<25	830	150	670	210	58	<25
4B	8	90	<3.8	3	<25	<25	<25	<50	<25	<25	<25
5S	5.5-6	5	<3.8	<2.9	<25	<25	<25	<50	<25	<25	<25
6B	8	6	<4	<2.9	<25	<25	<25	<50	94	29	<25
7B	12	90	<3.7	2.9	410	590	51	270	190000	61000	8700
8S	4-5	300	780	3400	20000	230000	56000	284000	190000	61000	8700
9S	4-5	100	<3.8	<3.8	<25	57	<25	<74	29	<25	<25
10B	8	120	<3.6	4.3	700	1300	98	550	150	43	<25
11B	12-13	200	<3.7	<2.9	89	300	42	232	84	<25	<25
12B	9	11	<3.8	<2.9	<25	77	<25	<57	<25	<25	<25
13S	6	14	<3.7	<2.9	<25	480	79	390	120	37	<25
14S	6	2.3	<3.8	<3	<25	<25	<25	<50	<25	<25	<25
15S	5	5	NA	NA	<25	<25	<25	<59	33	<25	<25
16B	12-13	9	<3.7	<2.8	110	<25	<25	<50	<25	<25	<25
17S	6	9	<3.9	<2.9	<25	<25	<25	<50	<25	<25	<25
18B	12	148	27	9.9	1300	1400	170	1000	510	160	<25
19S	5-6	51	<3.8	<3	590	240	61	310	180	56	<25
20B	8	NA	<3.9	<2.9	130	<25	<25	<50	<25	<25	<25
21B	8	NA	<3.8	<2.9	670	<25	42	<50	<25	<25	<25
22S	5-6	111	<4	<3	460	600	84	420	100	31	<25
23S	5-6	60	<4.1	<3	240	<25	42	<135	54	<25	<25
WAC NR 720 Closure Standard	NS	NS	250	250	5.5	1500	2900	4100	NS	NS	NS

WAC NR 720 Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Levels
mg/kg - Milligrams per kilogram or parts per million (ppm)
µg/kg - Micrograms per kilogram or parts per billion (ppb)
bgs - Approximate depth in feet below ground surface
DRO - Diesel Range Organics

GRO - Gasoline Range Organics
TMB - Trimethylbenzene
MTBE - Methyl-tert-butyl-ether
NS - No Standard
Shaded areas indicate an exceedance of RCL's

Douglas County Highway Commission
Hawthorne Garage
Soil Remediation Laboratory Results
Closure Sidewall and Bottom Samples

Sample Number	Depth (bgs)	Headspace	DRO	GRO	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE
24S	6	40	<3.8	<2.9	<25	<25	<25	<50	<25	<25	<25
25S	6	10	<3.9	<2.9	<25	<25	<25	<50	<25	<25	<25
26B	8	50	<4.1	<3	<25	<25	<25	<50	<25	<25	<25
27B	8	160	<3.9	<2.8	190	<25	32	147	40	<25	<25
28S	7	100	<3.8	<2.8	<25	<25	<25	<55	<25	160	<25
29S	6	80	<3.9	6.8	<25	<25	36	<90	<25	<25	<25
30S	6.5	70	<3.7	<2.8	390	<25	<25	<50	<25	<25	<25
31B	8	50	<4.3	<3	260	49	48	<116	51	<25	<25
32S	6	70	5.4	5.9	420	1400	160	910	220	64	<25
33S	5.5	110	<4.2	3	<25	<25	62	<50	<25	<25	<25
34S	5.5	170	<4.1	<3	<25	<25	<25	<50	<25	<25	<25
35B	8	120	<3.8	<2.9	<25	<25	<25	<50	<25	<25	<25
36S	6	150	<4	<2.9	<25	<25	<25	<50	<25	<25	<25
37S	5	120	<3.8	<2.8	<25	<25	<25	<50	<25	<25	<25
38B	8	100	<3.8	<2.8	<25	<25	<25	<50	<25	<25	<25
39S	5.5	110	<4	<2.9	<25	<25	<25	<50	<25	<25	<25
40S	6	200	390	90	<62	<62	100	255	950	430	73
41S	6	70	23	<2.9	<25	<25	<25	<50	<25	<25	<25
42S	5.5	110	<4	3.2	42	<25	<25	<50	<25	<25	<25
43B	9	70	<4	<2.8	<28	<25	<25	<50	<25	<25	<25
DITCH	3.5	170	1100	1600	7800	6200	29000	149000	150000	44000	4100
WAC NR 720 Closure Standard	NS	NS	250	250	5.5	1500	2900	4100	NS	NS	NS

WAC NR 720 Wisconsin Administrative Code Chapter NR 720 Residual Contaminant Levels
mg/kg - Milligrams per kilogram or parts per million (ppm)
µg/kg - Micrograms per kilogram or parts per billion (ppb)
bgs - Approximate depth in feet below ground surface
DRO - Diesel Range Organics

GRO - Gasoline Range Organics
TMB - Trimethylbenzene
MTBE - Methyl-tert-butyl-ether
NS - No Standard
Shaded areas indicate an exceedance of RCL's

Table 3A
 Supplemental Site Investigation
 May 23, 1995 Groundwater Sample Laboratory Analysis
 Douglas County Highway Department, Hawthorne, Wisconsin

Analyte	SAMPLE LOCATION											
	MW 5	MW6	MW7	MW8	MW9	MW9000	P1	F.B.	DWI	T.B.	E.S.	P.A.L.
GRO*	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	35	<0.1	N/A	<0.1	---	---
DRO*	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.1	<0.1	N/A	N/A	---	---
VOC's**												
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9	<1.0	<1.0	<1.0	---	---
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18000	<1.0	<1.0	<1.0	5	0.67
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4900	<1.0	<1.0	<1.0	343	68.6
1,2-Dibromoethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	<1.0	<1.0	<1.0	0.01	0.001
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1200	<1.0	<1.0	<1.0	1360	272
Para & Meta Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4500	<2.0	<2.0	<2.0	620	124
Ortho Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	230	<1.0	<1.0	<1.0	620	124
IsopropylBenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	83	<1.0	<1.0	<1.0	---	---
n-PropylBenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	180	<1.0	<1.0	<1.0	---	---
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	170	<1.0	<1.0	<1.0	---	---
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	750	<1.0	<1.0	<1.0	---	---
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	380	<1.0	<1.0	<1.0	40	8
PAH's**												
1-Methyl naphthalene	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	28	<0.55	<0.55	<0.55	---	---
2-Methyl naphthalene	<0.64	<0.64	<0.64	<0.64	<0.64	<0.64	100	<0.64	<0.64	<0.64	---	---
Naphthalene	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	300	<0.43	<0.43	<0.43	40	8
Dissolved Lead*	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	0.014	<0.002	N/A	N/A	50	5

Note: GRO Gasoline Range Organics
 DRO Diesel Range Organics
 VOC's Volatile Organic Compounds
 PVOC's Petroleum Volatile Organic Compounds
 PAH's Polynuclear Aromatic Hydrocarbons
 * concentrations reported in - milligrams per liter (parts per million)
 ** concentrations reported in - micrograms per liter (parts per billion)

FB Field Bland
 TB Trip Blank
 ES Enforcement Standard
 PAL Preventative Action Limit
 --- No ES or PAL established as of July 1995
 N/A Not Analyzed
 < less than, not detected above - the method detection limit (MDL)
 DW1 Drinking Water Supply Well

MW9000 is a duplicate sample from MW9
 Compounds not listed were not detected above the MDL
 Concentrations in bold exceed the MDL
 Concentrations shaded exceed the ES (if established)

Table 3B
 Supplemental Site Investigation
 November 14, 1995 Groundwater Sample Laboratory Analysis
 Douglas County Highway Department, Hawthorne, Wisconsin

Analyte	SAMPLE LOCATION											
	MW 5	MW6	MW7	MW8	MW8000	MW9	P1	P2	F.B.	T.B.	E.S.	P.A.L.
GRO*	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	44	<0.1	<0.1	N/A	---	---
DRO*	<0.1	<0.1	0.2	0.2	0.8	<0.1	1.9	<0.1	<0.1	N/A	---	---
PVOC's/VOC's**												
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18000	2	<1.0	<1.0	5	0.67
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4800	<1.0	<1.0	<1.0	343	68.6
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1100	<1.0	<1.0	<1.0	1360	272
Total Xylenes (PVOC's)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	N/A	N/A	N/A	N/A	620	124
Para & Meta Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	3800	<2.0	<2.0	<2.0	620	124
Ortho Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	320	<1.0	<1.0	<1.0	620	124
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	1	<1.0	<1.0	<200	<1.0	<1.0	<1.0	---	---
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	610	<1.0	<1.0	<1.0	---	---
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	380	<1.0	<1.0	<1.0	40	8
PAH's**												
Naphthalene	N/A	N/A	N/A	N/A	N/A	N/A	60	<0.90	N/A	N/A	40	8
Dissoived Lead*	0.015	0.008	<0.001	0.001	<0.002	<0.002	0.01	0.002	<0.002	N/A	50	5

Note: GRO Gasoline Range Organics
 DRO Diesel Range Organics
 VOC's Volatile Organic Compounds
 PVOC's Petroleum Volatile Organic Compounds
 PAH's Polynuclear Aromatic Hydrocarbons
 * concentrations reported in - milligrams per liter (parts per million)
 ** concentrations reported in - micrograms per liter (parts per billion)

FB Field Bland
 TB Trip Blank
 ES Enforcement Standard
 PAL Preventative Action Limit
 --- No ES or PAL established as of July 1995
 N/A Not Analyzed
 < less than, not detected above - the method detection limit (MDL)

MW8000 is a duplicate sample from MW8
 Compounds not listed were not detected above the MDL
 Concentrations in bold exceed the MDL
 Concentrations shaded exceed the ES (if established)

TABLE 1 (page 1 of 16)
 ANALYTICAL RESULTS - GROUNDWATER
 DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	MW-3					NR 140 Remedial Action Limits	
	Jun-00	Sep-00	Aug-04	Aug-05	Aug-05 May-06		
Depth to Water (ft)	5.80	6.20	5.80	6.35	5.45		
ANALYTE						ES	PAL
Iron (ppb)	---	---	45,000	1,600	21,000	---	---
Nitrogen (ppm)	---	---	ND	0.037	< 0.1	---	---
Sulfate (ppm)	---	---	47	24	48	---	---
Chloride	---	---	1,150	190	1,700	250	125
PVOCs (ppb)							
Benzene	ND	ND	< 0.25	< 0.25	< 0.25	5	0.5
Ethylbenzene	ND	ND	< 0.22	< 0.22	< 0.22	700	140
MTBE	ND	ND	< 0.23	< 0.23	< 0.23	60	12
Naphthalene	0.17	0.054	< 0.5	< 0.5	< 0.5	40	8
Toluene	ND	ND	< 0.11	< 0.11	< 0.11	1,000	200
1,2,4- & 1,3,5-TMB	ND	ND	< 0.25	< 0.25	< 0.25	480	96
Total Xylenes	ND	ND	< 0.39	< 0.39	< 0.39	10,000	1,000

ND = Not Detected

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

--- = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 2 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	MW-3R									NR 140 Remedial Action Limits	
	Jun-98	Mar-00	Jun-00	May-01	Dec-01	Sep-02	Jun-03	Aug-04	Aug-05	ES	PAL
Date	Jun-98	Mar-00	Jun-00	May-01	Dec-01	Sep-02	Jun-03	Aug-04	Aug-05		
Relative Elevation (ft)	94.33	95.44	96.65	98.08	96.63	97.21	97.83	97.46	76.70		
ANALYTE					170	—	63,000	ND	55		
Iron (ppb)	—	—	—	—	0.18	—	1.2	0.052	0.037	—	—
Nitrogen (ppm)	—	—	—	—	17	—	36	31	39	—	—
Sulfate (ppm)	—	—	—	—	17	—	36	31	39	250	125
Chloride (ppm)	3,500	480	410	570	730	—	410	420	500		
PVOCs (ppb)								< 0.25	< 0.25	5	0.5
Benzene	2,700	3.8	3.6	ND	ND	ND	ND	< 0.22	< 0.22	700	140
Ethylbenzene	69	ND	ND	ND	ND	ND	ND	< 0.23	< 0.23	60	12
MTBE	ND	ND	ND	ND	ND	ND	ND	< 0.5	< 0.5	40	8
Naphthalene	11	ND	ND	ND	ND	ND	ND	< 0.11	< 0.11	1,000	200
Toluene	810	0.25	ND	ND	ND	ND	ND	< 0.25	< 0.25	480	96
1,2,4- & 1,3,5-TMB	76	ND	ND	ND	ND	ND	ND	< 0.39	< 0.39	10,000	1,000
Total Xylenes	480	ND	ND	ND	ND	ND	ND				

ND = Not Detected

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MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 3 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	MW-4									NR 140 Remedial Action Limits	
	Jun-98	Mar-00	Jun-00	May-01	Dec-01	Sep-02	Jun-03	Aug-04	Aug-05	ES	PAL
Relative Elevation (ft)	94.43	94.99	96.48	97.81	96.74	97.09	97.50	97.34	96.79	—	—
ANALYTE											
Iron (ppb)	—	—	—	—	180	—	2,900	1,400	780	—	—
Nitrogen (ppm)	—	—	—	—	1.5	—	1.4	1.6	2.1	—	—
Sulfate (ppm)	—	—	—	—	14	—	28	30	30	250	125
Chloride	—	—	—	—	66	—	140	79	72		
PVOCs (ppb)										5	0.5
Benzene	5.6	9.4	5.4	0.56	ND	ND	ND	< 0.25	< 0.25	700	140
Ethylbenzene	4.6	57	20	2.7	ND	ND	ND	< 0.22	< 0.22	60	12
MTBE	ND	1.2	0.57	ND	ND	ND	ND	< 0.23	< 0.23	40	8
Naphthalene	2.4	15	0.94	ND	ND	ND	ND	< 0.5	< 0.5	1,000	200
Toluene	ND	3.5	0.37	ND	ND	ND	ND	< 0.11	< 0.11	480	96
1,2,4- & 1,3,5-TMB	16	207	141	16.5	ND	ND	ND	< 0.25	< 0.25	10,000	1,000
Total Xylenes	14	105	43.6	15.4	ND	ND	ND	< 0.39	< 0.39		

ND = Not Detected

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bold numbers indicate concentrations above the PAL outlined in NR 140.10.

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MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 4 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	MW-9								NR 140 Remedial Action Limits	
	Jun-98	Jun-00	May-01	Dec-01	Sep-02	Jun-03	Aug-04	Aug-05	ES	PAL
Date										
Relative Elevation (ft)	94.04	96.21	97.00	98.52	99.14	96.94	96.44	95.82		
ANALYTE										
Iron (ppb)	—	—	—	66,000	—	65,000	64,000	56,000	—	—
Nitrogen (ppm)	—	—	—	ND	—	ND	0.12	0.037	—	—
Sulfate (ppm)	—	—	—	35	—	2.5	22	11	—	—
Chloride	—	—	—	3,000	—	2,400	1,970	3,500	250	125
PVOCs (ppb)										
Benzene	ND	ND	ND	ND	ND	ND	< 0.25	< 0.25	5	0.5
Ethylbenzene	ND	ND	ND	ND	ND	ND	< 0.22	< 0.22	700	140
MTBE	ND	ND	ND	ND	ND	ND	< 0.23	< 0.23	60	12
Naphthalene	ND	ND	ND	ND	ND	ND	< 0.5	< 0.5	40	8
Toluene	ND	ND	ND	ND	ND	ND	< 0.11	< 0.11	1,000	200
1,2,4- & 1,3,5-TMB	ND	ND	ND	ND	ND	ND	< 0.25	< 0.25	480	96
Total Xylenes	ND	ND	ND	ND	ND	ND	< 0.39	< 0.39	10,000	1,000

ND = Not Detected

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TMB = trimethylbenzene

TABLE 1 (page 5 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	MWV-10						NR 140 Remedial Action Limits	
	Date	Dec-01	Sep-02	Jun-03	Aug-04	Aug-05	May-06	ES
Relative Elevation (ft)	96.73	98.27	98.27	97.68	97.82	97.58		
ANALYTE								
Iron (ppb)	--	--	--	8,700	7,800	9,000	--	--
Nitrogen (ppm)	--	--	--	0.1	0.037	< 0.1	--	--
Sulfate (ppm)	--	--	--	11	11	< 10	--	--
Chloride	--	--	--	30	25	15	260	125
PVOCs (ppb)								
Benzene	ND	ND	ND	< 0.25	< 0.25	< 0.25	5	0.5
Ethylbenzene	ND	ND	ND	< 0.22	< 0.22	< 0.22	700	140
MTBE	ND	ND	ND	< 0.23	< 0.23	< 0.23	60	12
Naphthalene	ND	ND	ND	< 0.5	< 0.5	< 0.5	40	8
Toluene	ND	ND	ND	< 0.11	< 0.11	< 0.11	1,000	200
1,2,4- & 1,3,5-TMB	ND	ND	ND	< 0.25	< 0.25	< 0.25	480	96
Total Xylenes	ND	ND	ND	< 0.39	< 0.39	< 0.39	10,000	1,000

ND = Not Detected

Italic numbers indicate concentrations above the ES outlined in NR 140.10.

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MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 6 of 16)
 ANALYTICAL RESULTS - GROUNDWATER
 DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	P-1R															NR 140 Remedial Action Limits	
	Jun-98	Mar-00	Jun-00	May-01	Dec-01	Apr-02	Sep-02	Dec-02	Jun-03	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Relative Elevation (ft)	84.78	95.10	95.97	97.30	96.07	97.09	95.91	95.59	97.21	95.97	95.92	95.00	94.28	94.56	95.32	—	—
ANALYTE																	
Iron (ppb)	—	—	—	—	51,000	—	—	—	60,000	14,000	16,000	13,000	5,100	1,900	4,600	—	—
Nitrogen (ppm)	—	—	—	—	0.15	—	—	—	0.11	0.084	< 0.024	< 0.024	0.037	0.15	< 0.1	—	—
Sulfate (ppm)	—	—	—	—	230	—	—	—	100	34	54	62	39	48	48	260	125
Chloride (ppm)	—	—	—	—	18,000	—	—	—	15,000	5,410	6,080	3,800	3,200	2,800	2,300		
PVOCs (ppb)																	
Benzene	10,000	14,000	14,000	13,000	19,000	14,000	13,000	13,000	11,000	5,400	5,300	2,200	1,200	< 10	550	5	0.5
Ethylbenzene	860	1,100	1,300	1,200	1,300	1,300	1,100	1,300	840	910	720	530	460	< 8.8	280	700	140
MTBE	ND	< 46	< 23	< 9.2	< 0.23	< 9.2	< 4.6	60	12								
Naphthalene	ND	160	230	190	230	280	210	220	150	260	180	130	150	< 20	110	40	8
Toluene	7,600	9,700	9,700	5,400	1,700	2,600	1,400	600	390	220	140	62	46	< 4.4	14	1,000	200
1,2,4- & 1,3,5-TMB	3,660	5,190	6,070	5,440	5,596	5,730	5,080	5,677	3,490	1,220	960	780	700	< 7.6	500	480	96
Total Xylenes	3,210	4,500	5,160	4,530	4,496	4,630	4,130	4,577	2,800	970	790	570	490	< 16	320	10,000	1,000

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MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 7 of 16)
 ANALYTICAL RESULTS - GROUNDWATER
 DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	P-3										NR 140 Remedial Action Limits	
	Dec-01	Apr-02	Sep-02	Dec-01	Jun-03	Aug-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Relative Elevation (ft)	95.19	96.08	95.67	95.33	95.89	93.11	95.04	93.90	93.35	93.71	—	—
ANALYTE						ND	< 42	< 42	< 42	42	—	—
Iron (ppb)	—	—	—	—	—	0.34	0.66	0.46	0.36	0.52	—	—
Nitrogen (ppm)	—	—	—	—	—	53	< 10	< 2	16	< 10	—	—
Sulfate (ppm)	—	—	—	—	—	2,150	16	6.1	24	24	250	125
Chloride	—	—	—	—	—	—	—	—	—	—	—	—
PVOCs (ppb)						0.27	< 0.25	< 0.25	< 1	< 0.25	5	0.5
Benzene	4	ND	ND	ND	ND	< 0.22	< 0.22	< 0.22	< 0.88	< 0.22	700	140
Ethylbenzene	ND	ND	ND	ND	ND	< 0.23	< 0.23	< 0.23	< 0.92	< 0.23	60	12
MTBE	ND	ND	ND	ND	ND	< 0.5	< 0.5	< 0.5	< 2	< 0.5	40	8
Naphthalene	ND	ND	ND	ND	ND	< 0.11	< 0.11	< 0.11	0.56	< 0.11	1,000	200
Toluene	ND	ND	ND	ND	ND	< 0.25	< 0.25	< 0.25	< 1	< 0.25	480	96
1,2,4- & 1,3,5-TMB	ND	ND	ND	ND	ND	< 0.39	< 0.39	< 0.39	< 1.6	< 0.39	10,000	1,000
Total Xylenes	ND	ND	ND	ND	ND	< 0.39	< 0.39	< 0.39	< 1.6	< 0.39	10,000	1,000

ND = Not Detected

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TMB = trimethylbenzene

TABLE 1 (page 8 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	P-4							NR 140 Remedial Action Limits	
	Dec-01	Apr-02	Sep-02	Dec-01	Jun-03	Aug-04	Aug-05	ES	PAL
Date	95.19	95.69	95.36	95.07	95.53	95.31	94.19		
Relative Elevation (ft)	95.19	95.69	95.36	95.07	95.53	95.31	94.19		
ANALYTE									
Iron (ppb)	—	—	—	—	—	84	< 0.042	—	—
Nitrogen (ppm)	—	—	—	—	—	ND	0.15	—	—
Sulfate (ppm)	—	—	—	—	—	ND	< 2	—	—
Chloride	—	—	—	—	—	16	20	250	125
PVOCs (ppb)									
Benzene	ND	ND	ND	ND	ND	< 0.25	< 0.25	5	0.5
Ethylbenzene	ND	ND	ND	ND	ND	< 0.22	< 0.22	700	140
MTBE	ND	ND	ND	ND	ND	< 0.23	< 0.23	60	12
Naphthalene	ND	ND	ND	ND	ND	< 0.5	< 0.5	40	8
Toluene	ND	ND	ND	ND	ND	< 0.11	< 0.11	1,000	200
1,2,4- & 1,3,5-TMB	ND	ND	ND	ND	ND	< 0.25	< 0.25	480	96
Total Xylenes	ND	ND	ND	ND	ND	< 0.39	< 0.39	10,000	1,000

ND = Not Detected

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MTBE = methyl-terf-butylether

TMB = trimethylbenzene

TABLE 1 (page 9 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	P-5									NR 140 Remedial Action Limits	
	Sep-02	Dec-02	Jun-03	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Relative Elevation (ft)	95.81	95.40	95.94	95.55	95.50	95.76	94.65	94.84	96.90		
ANALYTE											
Iron (ppb)	—	—	—	ND	1,800	< 42	< 42	< 42	89	—	—
Nitrogen (ppm)	—	—	—	ND	0.078	3.5	0.99	5.3	1.2	—	—
Sulfate (ppm)	—	—	—	47	26	< 10	< 2	16	< 10	250	125
Chloride (ppm)	—	—	—	3,680	3,440	12	2,100	170	64		
PVOCs (ppb)										5	0.5
Benzene	250	64	24	1.7	2.9	< 0.25	0.43	< 1	< 0.25	700	140
Ethylbenzene	4.7	ND	ND	< 0.22	0.25	< 0.22	< 0.22	< 0.88	< 0.22	60	12
MTBE	ND	ND	ND	< 0.23	< 0.23	< 0.23	< 0.23	< 0.92	< 0.23	40	8
Naphthalene	ND	ND	ND	< 0.5	> 0.5	< 0.5	< 0.5	< 2	< 0.5	1,000	200
Toluene	68	8.3	ND	< 0.11	0.2	< 0.11	< 0.11	0.92	0.14	480	96
1,2,4- & 1,3,5-TMB	1.9	ND	ND	< 0.25	< 0.25	< 0.25	< 0.25	< 1	< 0.25	10,000	1,000
Total Xylenes	19.8	3.07	ND	< 0.39	< 0.29	< 0.39	0.39	< 1.6	< 0.39		

ND = Not Detected

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MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 10 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	P-6									NR 140 Remedial Action Limits	
	Sep-02	Dec-02	Jun-03	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Date											
Relative Elevation (ft)	95.86	95.61	96.14	95.76	95.71	96.09	95.13	95.96	96.11		
ANALYTE											
Iron (ppb)	—	—	—	13,000	12,000	< 42	< 42	< 42	210	—	—
Nitrogen (ppm)	—	—	—	0.071	< 0.024	1.4	1.7	0.94	0.67	—	—
Sulfate (ppm)	—	—	—	36	25	< 10	< 2	14	< 10	—	—
Chloride	—	—	—	4,250	5,090	15	23	8.3	700	250	125
PVOCs (ppb)											
Benzene	8,600	8,100	6,300	3,000	2,500	< 0.25	2.4	< 0.25	360	5	0.5
Ethylbenzene	180	200	230	180	120	< 0.22	1	< 0.22	41	700	140
MTBE	ND	ND	ND	< 3	< 9.2	< 0.23	< 0.23	< 0.23	< 0.46	80	12
Naphthalene	ND	ND	26	42	27	< 0.5	< 0.5	< 0.5	11	40	8
Toluene	460	220	330	160	34	< 0.11	0.54	0.16	6.9	1,000	200
1,2,4- & 1,3,5-TMB	110	120	160	188	144	< 0.25	0.78	< 0.25	39	480	96
Total Xylenes	597	618	660	630	350	< 0.39	3.2	< 0.39	69	10,000	1,000

ND = Not Detected

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TMB = trimethylbenzene

TABLE 1 (page 11 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	P-7					NR 140 Remedial Action Limits	
	Sep-02	Dec-02	Jun-03	Aug-04	Aug-05	ES	PAL
Date							
Relative Elevation (ft)	95.91	95.61	96.45	95.78	94.93		
ANALYTE							
Iron (ppb)	—	—	—	22,000	< 0.042	—	—
Nitrogen (ppm)	—	—	—	0.18	0.037	—	—
Sulfate (ppm)	—	—	—	56	66	—	—
Chloride	—	—	—	—	3,800	250	125
PVOCs (ppb)							
Benzene	0.73	ND	ND	< 0.25	8.2	5	0.6
Ethylbenzene	ND	ND	ND	< 0.22	< 0.22	700	140
MTBE	ND	ND	ND	< 0.23	< 0.23	60	12
Naphthalene	ND	ND	ND	< 0.5	< 0.5	40	8
Toluene	ND	ND	ND	< 0.11	< 0.11	1,000	200
1,2,4- & 1,3,5-TMB	ND	ND	ND	< 0.25	< 0.25	480	96
Total Xylenes	ND	ND	ND	< 0.39	< 0.39	10,000	1,000

ND = Not Detected

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TMB = trimethylbenzene

TABLE 1 (page 12 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	P-8							NR 140 Remedial Action Limits	
	Jun-03	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Date									
Relative Elevation (ft)	91.05	84.01	94.01	97.61	92.96	—	92.16		
ANALYTE									
Iron (ppb)	11,000	52	< 42	56	450	780	550	—	—
Nitrogen (ppm)	0.066	ND	0.034	0.32	0.36	0.078	0.12	—	—
Sulfate (ppm)	18	73	8.1	100	11	18	37	—	—
Sulfate (ppm)	18	73	8.1	100	11	18	37	250	125
Chloride	4,200	—	3,240	2,900	120	150	3,500		
PVOCs (ppb)								5	0.5
Benzene	7.3	2.6	3	1	< 0.25	< 2.5	1	700	140
Ethylbenzene	ND	< 0.22	< 0.22	< 0.22	< 0.22	< 2.2	< 0.22	60	12
MTBE	ND	< 0.23	< 0.23	< 0.23	< 0.23	< 2.3	< 0.23	40	8
Naphthalene	ND	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	1,000	200
Toluene	ND	0.15	0.14	< 0.11	< 0.11	1.1	< 0.11	480	96
1,2,4- & 1,3,5-TMB	ND	< 0.25	< 0.25	< 0.25	< 0.25	< 2.5	< 0.25	10,000	1,000
Total Xylenes	ND	< 0.39	< 0.39	< 0.39	< 0.39	< 3.9	< 0.39		

ND = Not Detected

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TMB = trimethylbenzene

TABLE 1 (page 13 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	P-9							NR 140 Remedial Action Limits	
	Jun-03	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Date									
Relative Elevation (ft)	95.85	95.45	95.35	95.55	94.86	—	94.30		
ANALYTE									
Iron (ppb)	2,100	4,500	9,300	7,600	370	210	12,000	—	—
Nitrogen (ppm)	ND	0.037	< 0.024	< 0.24	0.037	1.1	< 0.1	—	—
Sulfate (ppm)	4.2	12	23	22	30	22	24	—	—
Chloride	4,100	—	1,500	1,300	1,300	1,400	1,600	250	125
PVOCs (ppb)									
Benzene	5,100	520	890	280	190	230	270	5	0.5
Ethylbenzene	140	69	140	6.1	5	4.2	67	700	140
MTBE	ND	< 4.6	< 2.3	< 2.3	< 0.23	< 2.3	< 0.92	60	12
Naphthalene	ND	< 10	12	< 5	< 0.5	< 5	8.3	40	8
Toluene	140	11	31	< 1.1	< 0.11	1.1	5.8	1,000	200
1,2,4- & 1,3,5-TMB	ND	39.6	58	< 2.5	< 0.25	< 2.5	30	480	96
Total Xylenes	364	120	200	< 3.9	< 0.39	< 3.9	92	10,000	1,000

ND = Not Detected

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

— = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 14 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	P-10						NR 140 Remedial Action Limits	
	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Depth to Water (ft)	7.00	6.95	6.70	8.82	8.45	8.10		
ANALYTE								
Iron (ppb)	ND	74	< 42	1,700	< 42	< 42	—	—
Nitrogen (ppm)	0.45	0.083	0.11	0.087	1.6	0.11	—	—
Sulfate (ppm)	41	32	23	20	31	25	—	—
Chloride	—	1,040	1,100	1,200	1,200	1,200	250	125
PVOCs (ppb)								
Benzene	< 0.25	< 0.25	< 0.25	< 0.25	< 1	< 0.25	5	0.5
Ethylbenzene	< 0.22	0.37	< 0.22	< 0.22	< 0.88	< 0.22	700	140
MTBE	< 0.23	< 0.23	< 0.23	< 0.23	< 0.92	< 0.23	60	12
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	40	8
Toluene	< 0.11	< 0.11	< 0.11	< 0.11	< 0.44	< 0.11	1,000	200
1,2,4- & 1,3,5-TMB	< 0.25	< 0.25	< 0.25	< 0.25	< 1	< 0.25	480	96
Total Xylenes	< 0.39	2.6	< 0.39	< 0.39	< 1.6	< 0.39	10,000	1,000

ND = Not Detected

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

— = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 15 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

Date	P-11						NR 140 Remedial Action Limits	
	Aug-04	Dec-04	May-05	Aug-05	Jan-06	May-06	ES	PAL
Depth to Water (ft)	5.70	5.90	5.40	7.96	7.48	6.70		
ANALYTE								
Iron (ppb)	8,500	2,700	4,900	< 0.042	3,000	15,000	—	—
Nitrogen (ppm)	ND	< 0.024	< 0.024	0.037	2.8	< 0.1	—	—
Sulfate (ppm)	52	40	26	35	46	41	250	125
Chloride	—	1,400	1,300	1,400	1,400	1,400		
PVOCs (ppb)								
Benzene	< 0.25	< 0.25	< 0.25	< 0.25	< 2.5	< 1	5	0.5
Ethylbenzene	< 0.22	< 0.22	< 0.22	< 0.22	< 2.2	< 0.88	700	140
MTBE	< 0.23	< 0.23	< 0.23	< 0.23	< 2.3	< 0.92	60	12
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 2	40	8
Toluene	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1	< 0.44	1,000	200
1,2,4 & 1,3,5-TMB	< 0.25	< 0.25	< 0.25	< 0.25	< 2.5	< 1	480	96
Total Xylenes	< 0.39	< 0.39	< 0.39	< 0.39	< 3.9	< 1.6	10,000	1,000

ND = Not Detected

Bold italic numbers indicate concentrations above the ES outlined in NR 140.10.

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

— = not analyzed or no standard

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

TABLE 1 (page 16 of 16)
ANALYTICAL RESULTS - GROUNDWATER
DOUGLAS COUNTY HIGHWAY GARAGE SITE, HAWTHORNE, WISCONSIN

	PW-1		NR 140 Remedial Action Limits	
	Aug-04	Aug-05	ES	PAL
Date:	---	---		
Relative Elevation (ft)	---	---		
ANALYTE				
PVOCs/VOCs (ppb)				
Benzene	< 0.25	< 0.05	<i>5</i>	<i>0.5</i>
Chloride	---	230	250	125
Ethylbenzene	< 0.22	< 0.05	700	140
MTBE	< 0.23	< 0.05	60	12
Naphthalene	< 0.5	< 0.25	40	8
Toluene	0.16	< 0.05	1,000	200
1,2,4 & 1,3,5 TMB	< 0.25	< 0.05	480	96
Total Xylenes	< 0.39	< 0.05	10,000	1,000

ND = not detected

--- = not analyzed or no standard

Bold Italic numbers indicate concentrations above the ES outlined in NR 140.10

Bold numbers indicate concentrations above the PAL outlined in NR 140.10.

PW-1 represents a sample collected from the on-site potable well.

TMB = trimethylbenzene

MTBE = methyl-tert-butylether