

Source Property Information

CLOSURE DATE: 06/04/2015

BRRTS #: 03-37-298678
ACTIVITY NAME: 3M Downtown Facility
PROPERTY ADDRESS: 144 Rosecrans ST
MUNICIPALITY: Wausau
PARCEL ID #: 291-2907-354-0976

FID #: 737009460
DATCP #:
PECFA#:

***WTM COORDINATES:**

WTM COORDINATES REPRESENT:

X: 548723 Y: 497604

Approximate Center Of Contaminant Source

Approximate Source Parcel Center

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

Please check as appropriate: (BRRTS Action Code)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

Groundwater Contamination > ES (236)

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

Contamination in ROW

Contamination in ROW

Off-Source Contamination

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")*

*(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")*

Site Specific Obligations:

Soil: maintain industrial zoning (220)

Cover or Barrier (222)

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

Direct Contact

Soil to GW Pathway

Structural Impediment (224)

Vapor Mitigation (226)

Site Specific Condition (228)

Maintain Liability Exemption (230)

*(note: local government unit or economic
development corporation was directed to
take a response action)*

Monitoring Wells:

DFOMW-2 was not properly
abandoned. DFOMW-5,
DFOMW-11 and DFOMW-12
were transferred to
#02-37-000006.

Are all monitoring wells properly abandoned per NR 141? (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 #:	03-37-298678	(No Dashes)	PARCEL ID #:	291-2907-354-0976
ACTIVITY NAME:	3M Downtown Facility		WTM COORDINATES:	X: 548723 Y: 497604

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 *The source property deed may be viewed in the file.

- 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 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 Location 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 #: 5 & 6 **Title: Site Map/Soil Boring Locations & Soil Pile/Sample Locations**
 - 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 #: 2 **Title: Approximate Extent of Residual Soil Contamination**

BRRTS #: 03-37-298678

ACTIVITY NAME: 3M Downtown Facility

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 #: 2 Title: Cross Section Estimated Extent of Residual Petroleum Hydrocarbons in the Soil

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 #: 1 Title: Approximate Extents of Groundwater Contamination

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: Groundwater Elevation Map October 8, 2009

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 #: 2 & 4 Title: Summary of Soil Analytical Results & Soil Analytical Results

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 Title: Groundwater Analytical Results

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 #: 2 Title: Historical Groundwater Elevations, Product Thickness, and Vacuum Measurements *see file

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 #: 1 Title: Approximate Extents of Groundwater Contamination

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

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: 3M Downtown Facility

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 *Off-source property documents may be seen in the file.

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.

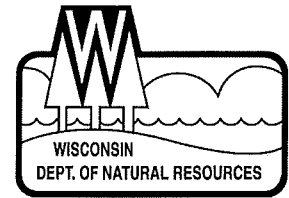
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

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:

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: 2



June 4, 2015

BRRTS#03-37-298678

Mr. Justin Pettinelli
3M EHS Corporate Environmental Programs
3M Center
Building 224-5W-17
St. Paul, MN 55144-1000

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
3M Downtown Facility, 144 Rosecrans Street, Wausau, Wisconsin

Dear Mr. Pettinelli:

The Department of Natural Resources (DNR) considers the 3M Downtown Facility (fuel and slate oil tank areas) site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property 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 attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you. Certain continuing obligations also apply to affected property owners or rights-of-way holders. These are identified within each continuing obligation.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The West Central Closure Committee reviewed the request for closure on February 14, 2014. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on March 11, 2014, and documentation that the conditions in that letter were met was received on March 4, and May 5, 2015.

The slate and fuel oil contamination at the site was identified during underground storage tank removal in the slate and fuel oil areas of the facility. Soil and groundwater contamination including residual product was identified at the site during the site investigation. Remedial activities included groundwater removal along with bioventing. Residual product and contaminated soil and groundwater exist at the site. The existing asphalt and vegetative cover will be required as a cover at this site. The conditions of closure and continuing obligations required were based on the property being used for industrial purposes and the neighboring affected property being used for recreational purposes.

Monitoring wells DFOMW-5, DFOMW-11, and DFOMW-12 are being transferred for continued monitoring as part of the Wauleco project (02-37-000006). Do NOT fill and seal these wells at this time. Well filling and sealing will be required of Wauleco project for closure, upon conclusion of the cleanup

of that site. These wells are identified on the **attached map “Approximate Extent of Groundwater Contamination”, Figure 1, 10-4-2010.**

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 at or 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 were not located and must be properly filled and sealed if found.
- Pavement must be maintained over contaminated soil and the DNR must be notified and approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation and/or cleanup is removed or modified, additional environmental work must be completed.
- Industrial soil standards were applied for closure, and industrial zoning is required. Before the land use may be changed from industrial to non-industrial, additional work must be completed.

The DNR fact sheet, “Continuing Obligations for Environmental Protection”, RR-819, helps to explain a property owner’s responsibility for continuing obligations on their property. The fact sheet may be obtained at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at <http://dnr.wi.gov/topic/Brownfields/clean.html>, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

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. This requirement applies to private drinking water wells and high capacity wells. 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/topic/wells/documents/3300254.pdf>.

All site information is also on file at the West Central Regional DNR office, at 5301 Rib Mountain Drive, Wausau, Wisconsin. This letter and information that was submitted with your closure request application; including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where the cap is required, as shown on the **attached map: "Barrier Location Map", Figure 3, 2014-1-6**, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

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, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program
Lisa Gutknecht
5301 Rib Mountain Drive
Wausau, WI 54401

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

Groundwater contamination greater than enforcement standards is present both on this contaminated property and off this contaminated property, as shown on the **attached map "Approximate Extent of Groundwater Contamination", Figure 1, 10-4-2010**. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

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

Soil contamination remains beneath the asphalt parking and vegetative area east of the plant buildings as indicated on the **attached map: "Approximate Extent of Residual Soil Contamination", Figure 2, dated 2014-1-6**. If soil in the specific location described above is excavated in the future, the property owner or right-of-way holder 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 or right-of-way holder 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. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property and right-of-way holders 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.

Monitoring Wells that could not be Properly Filled and Sealed (ch. NR 141, Wis. Adm. Code)
Monitoring well DFOMW-2 located on shown on the **attached map “Approximate Extent of Groundwater Contamination”, Figure 1, 2010-10-4**, could not be properly filled and sealed because it was missing due to being paved over, covered or removed during site development activities. Your consultant made a reasonable effort to locate the well and to determine whether it was properly filled and sealed, but was unsuccessful. You may be held liable for any problems associated with the monitoring well if it creates a conduit for contaminants to enter groundwater. If the groundwater monitoring well is found, the then current owner of the property on which the well is located is required to notify the DNR, to properly fill and seal the well and to submit the required documentation to the DNR. This continuing obligation applies to the owners of 144 Rosecrans Street property.

Cover or Barrier (s. 292.12(2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)
The asphalt that exists in the specific location shown on the **attached map: “Approximate Extent of Residual Soil Contamination”, Figure 2, dated 2014-1-6** shall be maintained in compliance with the **attached maintenance plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

The cover approved for this closure was designed to be protective for a commercial or industrial use setting. Before using the property for residential purposes, you must notify the DNR at least 45 days before taking an action, to determine if additional response actions are warranted.

A request may be made to modify or replace a cover or barrier. Before removing or replacing the cover, you must notify the DNR at least 45 days before taking an action. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation. A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single family residence.

The **attached maintenance plan and inspection log (DNR form 4400-305)** are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

Structural Impediments (s. 292.12 (2) (b), Wis. Stats., s. NR 726.15, s. NR 727.07, Wis. Adm. Code)

The remaining building over the former slate oil tank area and the small triangular area between the east side of the buildings and the railroad tracks as shown on the **attached map “Approximate Extent of Residual Soil Contamination”, Figure 2, dated 2014-1-6**, made complete investigation and/or remediation of the soil contamination on this property impracticable. If the structural impediment is to be removed, the property owner shall notify the DNR at least 45 days before removal, and conduct an investigation of the degree and extent of petroleum contamination below the structural impediment. If

contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

Industrial Soil Standards (s. NR 726.15, s. NR 727.07, Wis. Adm. Code)

Soil contamination remains at the locations shown on the attached map "**Approximate Extent of Residual Soil Contamination**", **Figure 2, dated 2014-1-6**. Samples contained PAHs in concentrations that met the site-specific industrial standards developed for this site.

This site may not be used or developed for a residential, commercial, agricultural or other non-industrial use, unless prior written approval has been obtained from the DNR. The property owner shall notify the DNR at least 45 days before changing the use. An investigation and remedial action to meet applicable soil cleanup standards may be required at that time.


In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- 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,
- if the property owner does not comply with the conditions of closure,
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

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 Lisa Gutknecht at 715-359-6514, or at Lisa.gutknecht@wisconsin.gov.

Sincerely,



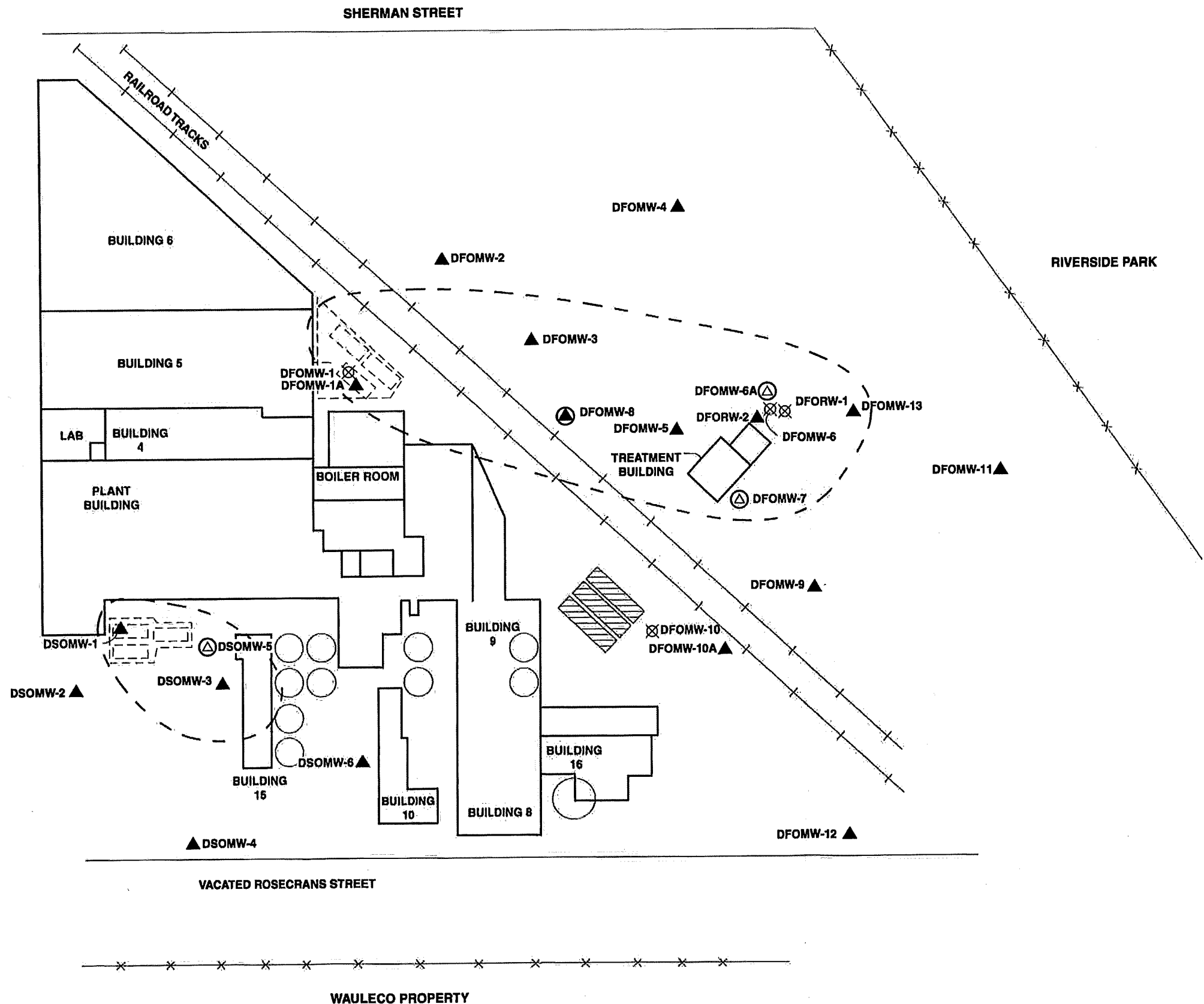
Dave Rozeboom, Team Supervisor
West Central Remediation & Redevelopment Program

Attachments:

- Approximate Extent of Groundwater Contamination, Figure 1, dated 10-4-2010
- Barrier Location Map, Figure 3, dated 2014-1-6
- Approximate Extent of Residual Soil Contamination, Figure 2, dated 2014-1-6
- 3M Downtown Wausau Facility Barrier Maintenance Plan and Form 4400-305, dated January 7, 2014

cc: Lisa Gutknecht, DNR – Wausau
Jennine Trask\Rebecca Robbennolt, ARCADIS (e-copy)
Peter Knotek, Wausau and Marathon County Parks, Recreation and Forestry Department (e-copy)
Robert Brandt, Wauleco (e-copy)
Bruce Iverson, TRC (e-copy)

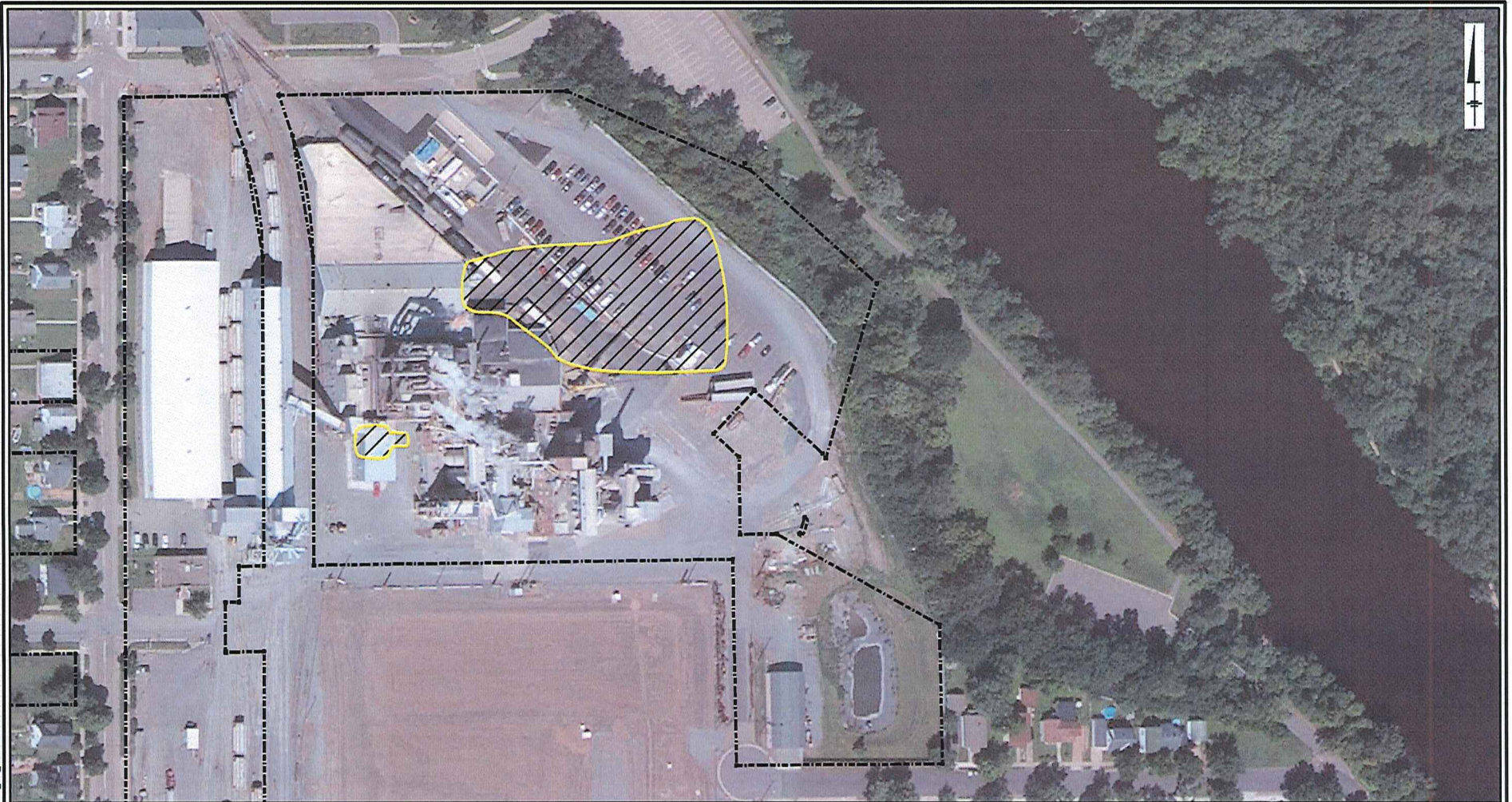
04OCT10ENVIRONMENTSLMB
3MW10441WAUSAUIGRAPHICSGW EXCEED.A1




- LEGEND**
- ▲ GROUNDWATER MONITORING WELL
 - △ GROUNDWATER EXTRACTION WELL
 - ▭ EXCAVATED UNDERGROUND STORAGE TANK LOCATION
 - ▨ UNDERGROUND STORAGE TANK LOCATION
 - ⊙ VAPOR EXTRACTION WELL AND GROUNDWATER EXTRACTION WELL
 - ⊕ VAPOR EXTRACTION WELL AND GROUNDWATER MONITORING WELL
 - ⊗ ABANDONED GROUNDWATER MONITORING WELL IN JULY 2004.
 - - - EXTENT OF GROUNDWATER EXCEEDING NR 140 ENFORCEMENT STANDARD (BASED ON 10/2009 ANALYTICAL RESULTS)

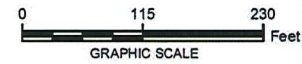
3M DOWNTOWN WAUSAU FACILITY 3M COMPANY WAUSAU, WISCONSIN	
APPROXIMATE EXTENTS OF GROUNDWATER CONTAMINATION	
ARCADIS	FIGURE 1

CITY, MP, DIV/GRUP: IMVY DR, MG, LD, TA
3M WAUSAU
Path: G:\GIS\GPS\3M_Wausau\Map\figimp_Barricade Loc_20140108.mxd



LEGEND:

- PROPERTY LINE
-  ESTIMATED EXTENT OF RESIDUAL PETROLEUM HYDROCARBONS IN THE SOIL



3M DOWNTOWN WAUSAU FACILITY
3M COMPANY
WAUSAU, WISCONSIN

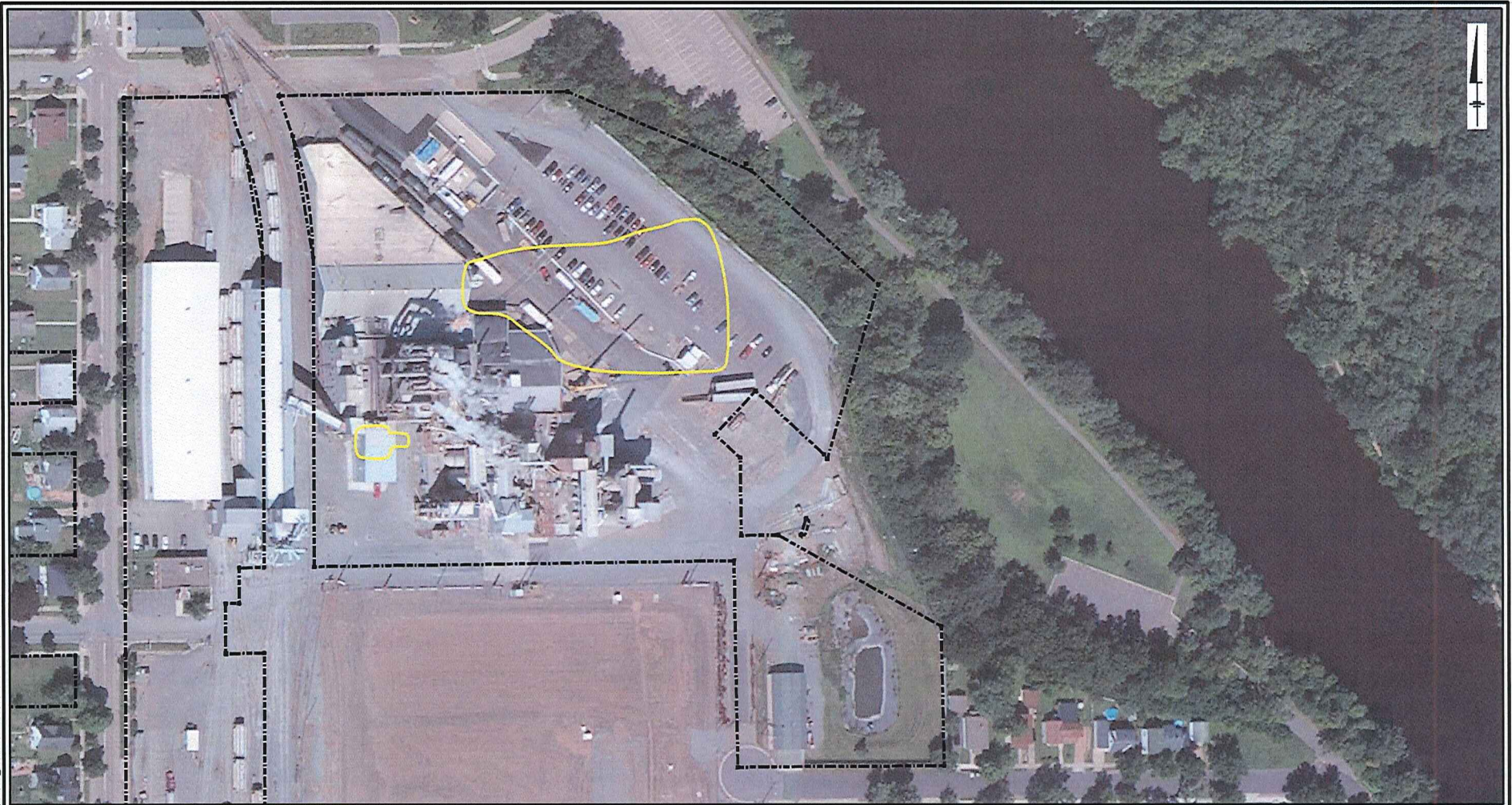
BARRIER LOCATION





FIGURE
3

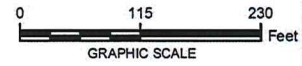
NOTES: IMAGERY ACCESSED THROUGH BING MAPS AERIAL VIA ARCGIS ONLINE LAYER PACKAGES BY ESRI (12/1/2010) (C) 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS ACCESSED ON 1/6/2014 THROUGH ARCGIS 10.

CITY.MPFS.DWGROUF.IMDV.DB:MG.LD.TA
3M WAUSAU
Path: G:\GIS\SP\3M_Wausau\Map\Extent_SoCont_20140106.mxd




LEGEND:

-  PROPERTY LINE
-  ESTIMATED EXTENT OF RESIDUAL PETROLEUM HYDROCARBONS IN THE SOIL



NOTES: IMAGERY ACCESSED THROUGH BING MAPS AERIAL VIA ARCGIS ONLINE LAYER PACKAGES BY ESRI (12/1/2010) (C) 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS ACCESSED ON 1/6/2014 THROUGH ARCGIS 10.

3M DOWNTOWN WAUSAU FACILITY 3M COMPANY WAUSAU, WISCONSIN	
APPROXIMATE EXTENT OF RESIDUAL SOIL CONTAMINATION	
	FIGURE 2

3M Downtown Wausau Facility Barrier Maintenance Plan

January 7, 2014

Property Located at:

3M Company
144 Rosecrans Street
Wausau, WI 54402

Bureau for Remediation and Redevelopment Tracking System (BRRTS) #03-37-298678

PIN # 37-291-4-2907-354-0976, 37-291-4-2907-354-0996

This document is the Maintenance Plan for an impervious barrier (Barrier) at the above-referenced property, in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing impervious barrier, consisting of asphalt pavement and building occupying the area over the residual soil impacts on site (Figure 3).

More site-specific information about this property may be found in:

- The case file in the Wisconsin Department of Natural Resources (WDNR) Westcentral regional office
- BRRTS on the Web (WDNR's internet based data base of contaminated sites):
<http://botw.dnr.state.wi.us/botw/SetUpBasicSearchForm.do>
- Geographic Information System Registry PDF file for further information on the nature and extent of contamination: <http://dnrmaps.wisconsin.gov>
- The WDNR project manager for Marathon County.

A copy of this Barrier Maintenance Plan shall at all times be kept on file in the offices of: (1) the WDNR Westcentral Region; (2) the owner of the property, its successors and assigns (hereinafter identified collectively as the "Owner"); (3) the property manager, if any; and (4) the property. Owner shall make the Barrier Maintenance Plan available to contractors, utilities, and maintenance personnel and any other public or private persons or entities authorized to perform work at the property.

Description of Contamination

Soil contaminated by petroleum hydrocarbons is located at varying depths of approximately 10 feet below land surface (ft bls) in the former tank locations to approximately 25 ft bls in portions of the northeast parking lot. Groundwater contaminated by petroleum hydrocarbons is located at a depth of approximately 23 to 26 ft bls. The extent of the groundwater and soil contamination is illustrated on Figures 1 and 2, respectively.

Description of the Barrier

The Barrier, which is the subject of this Barrier Maintenance Plan, is the approved impervious barrier consisting of the asphalt pavement and building placed over the Unsaturated Soils. The Unsaturated Soils are hereby defined as the full depth of soils, extending from 10 to 14 ft bls to the groundwater table (approximately 23 to 26 ft bls). Refer to Figure 3 for the impervious barrier location.

The Barrier over the contaminated soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The Barrier also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. This Barrier Maintenance Plan will ensure that the Barrier continues to function as a barrier to surface water infiltration and direct contact exposure at the property. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Required Activities

Annual Inspections. The Barrier (Figure 3) overlying the contaminated groundwater plume and soil will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into underlying soils. The inspections will be performed by the property Owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property Owner and is included as Exhibit A, Barrier Inspection and Maintenance Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. Should there be a significant change to the cover, an updated figure will be attached to the inspection log. A copy of the inspection log will be kept at the property and available for submittal or inspection by WDNR representatives upon their request.

Maintenance Activities. If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying contaminated soil, the Owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment. The Owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the Owner in accordance with applicable local, state and federal law.

In the event the building or asphalt pavement overlying the contaminated groundwater plume and soil is

removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Barrier Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property Owner, in order to maintain the integrity of the Barrier, will maintain a copy of this Barrier Maintenance Plan on site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Restricted Activities

The following activities are prohibited on any portion of the property where pavement, a building foundation, or other barrier is required as shown on Figure 3, unless prior written approval has been obtained from the WDNR or its successors.

Construction or Installation of Buildings, Structures or Other Improvements. Buildings, structures or other improvements may be constructed or installed on the property using footings or other foundations in the following manner:

- A) The contractor performing the work shall be provided with a copy of this Barrier Maintenance Plan by Owner and shall prepare a health and safety plan, appropriate to the work being performed.
- B) All materials used in pavement or foundation shall not contain any hazardous substances which are leachable. Any Unsaturated Soils or granular layer materials which are excavated shall be transferred to appropriate containers for storage, and shall be managed in accordance with state law. Any such excavation of Unsaturated Soils or granular layer materials shall be conducted in accordance with the health and safety plan, and all such excavated Unsaturated Soils or granular layer materials shall be kept on site until completion of the work.
- C) Upon completion of the work, clean soil or granular layered material shall be used to bring the excavation back to grade. The area of the excavation shall be restored in a manner consistent with the original Barrier condition. All excavated soils shall be properly characterized and managed in accordance with state law with notice to the WDNR or its successors.
- D) A memorandum report shall be prepared describing the work performed, identifying the person(s) performing the work and the date of the work, and confirming that the Barrier Maintenance Plan was adhered to in completion of the work. A copy of the report shall be kept on file by the Owner and the property manager, if any, and shall be filed with the WDNR or its successors.

Utility Installations or Repairs. No utility repairs or installation of new or replacement utilities shall be conducted on the property until after the utility and any contractor(s) for the utility have acknowledged receipt of a copy of this Barrier Maintenance Plan. The utility repairs or installation(s) shall be conducted in strict conformance with the standards set forth below with respect to excavations into and/or beneath

the Barrier, such excavations are to be undertaken in the following manner:

- A) The contractor performing the work shall be provided with a copy of this Barrier Maintenance Plan by Owner and shall prepare a health and safety plan, appropriate to the work being performed.
- B) Any Unsaturated Soils or granular layer materials, which are excavated, shall be transferred to appropriate containers for storage, and shall be managed in accordance with state law. Any such excavation of Unsaturated Soils or granular layer materials shall be conducted in accordance with the health and safety plan, and all such excavated Unsaturated Soils or granular layer materials shall be kept on site until completion of the work.
- C) Upon completion of the work, clean soil or granular layered material shall be used to bring the excavation back to grade. All materials used in backfill shall not contain any hazardous substances which are leachable. The area of the excavation shall be restored in a manner consistent with the original Barrier condition. All excavated soils and groundwater affected by such activities shall be properly characterized and managed in accordance with state law with notice to the WDNR or its successors.
- D) The utility/contractor shall prepare a memorandum report describing the work performed, identifying the person performing the work and the date of the work, and confirming that the Barrier Maintenance Plan was adhered to in completion of the work. A copy of the report shall be kept on file with the utility, the Owner, the property manager, if any, and at the property and shall be filed with the WDNR or its successors.

Subsurface Drilling Procedures and Requirements. During subsurface drilling activities at the property, drilling contractors shall at all times maintain compliance with the following requirements to ensure the integrity of the Barrier and to avoid any potential cross contamination of soils and groundwater:

- A) The contractor performing the work shall be provided with a copy of this Barrier Maintenance Plan by Owner and shall prepare a health and safety plan, appropriate to the work being performed. The work shall be supervised on-site by a qualified engineer or geologist.
- B) All contractor personnel conducting or participating in work must be trained in hazardous site work as required by Occupational Safety and Health Administration 29 CFR 1910.120 or its successor regulation. All soil sampling and drilling activities shall be conducted in accordance with American Society for Testing and Materials D1586-99 or its successor standard, and the specified environmental requirements contained in this document.
- C) All drill cuttings and water/drilling mud generated during completion of the boring shall be transferred to appropriate containers for storage, and shall be managed in accordance with state law.

- D) Following completion of the boring and sample collection, the borehole shall be properly abandoned, in accordance with state law.
- E) All drill casings, rods, samplers, tools, rig, and any equipment that comes in contact (directly or indirectly) with the contaminated soils and groundwater shall be steam cleaned on site prior to set up for drilling. The same steam cleaning protocols shall be followed before leaving the property following completion of work. Steam cleaning shall be conducted in such a manner as to collect and contain residuals (water and soil) to prevent surface soil contamination. Residuals shall be drummed and managed in accordance with state law.
- F) A memorandum report shall be prepared describing the work performed, identifying the person(s) performing the work and the date of the work, and confirming that the Barrier Maintenance Plan was adhered to in completion of the work. A copy of the report shall be kept on file by the Owner, the property manager, if any, and at the property, and shall be filed with the WDNR or its successors.

Surface Grading and Filling. Any Unsaturated Soils or granular layer materials which are excavated shall be transferred to appropriate containers for storage, and shall be managed and disposed of in accordance with state law. Any such excavation of Unsaturated Soils or granular layer materials shall be conducted in accordance with the health and safety plan, and all such excavated Unsaturated Soils or granular layer materials shall be segregated and kept on site until completion of the work. Clean fill may be placed at the property for the purposes of grading and such clean fill may consist only of clean natural soils, and granular material. Clean fill shall not contain any hazardous substances which are leachable.

Amendment or Withdrawal of the Barrier Maintenance Plan

This Barrier Maintenance Plan can be amended or withdrawn by the property Owner and its successors with the written approval of the WDNR or its successors.

Contact Information

January 2011

Site Contact: Justin Pettinelli
3M Environmental Technology & Services
3M Center Building 224-2E-55
St. Paul, MN 55144
(651) 737-3481

Consultant: ARCADIS
126 N Jefferson Street, Suite 400
Milwaukee, WI 53202
(414) 276-7742

Department: Lisa Gutknecht
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, WI 54401
(715) 359-6514

Barrier INSPECTION and MAINTENANCE LOG

Inspection Date	Inspector	Condition of Cap	Recommendations	Has recommended maintenance from previous inspection been implemented?



March 11, 2014

BRRTS# 03-37-298678

Mr. Justin Pettinelli
3M EHS Operations
3M Center
Building 224-2E-55
St. Paul, MN 55144-1000

Subject: Conditional Closure Decision with Requirements to Achieve Final Closure,
3M Downtown Facility, 144 Rosecrans Street, Wausau, Wisconsin

Dear Mr. Pettinelli:

On February 14, 2014, the West Central Regional Closure Committee reviewed your request for closure of the case described above. The Regional Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the slate and fuel oil contamination at your site appears to have been investigated and remediated to the extent practicable under site conditions. Your case meets the requirements of ch. NR 726, Wis. Adm. Code and will be closed if the following condition is satisfied:

Monitoring Well Abandonment

All monitoring wells and any other remediation wells at the site except for monitoring wells DFOMW-5, DFOMW-11 and DFOMW-12, which will be transferred to Wauleco, must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Lisa Gutknecht on Form 3300-005 found at <http://dnr.wi.gov/org/water/dwg/gw/forms.htm> or provided by the Department. When you have abandoned all of the wells and submitted the appropriate documentation to verify that the conditional closure condition has been met, your case will be closed.

Your site will be listed on the DNR Remediation and Redevelopment Program's GIS Registry. Information that was submitted with your closure request application will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web). The site may be viewed on the Remediation and Redevelopment Sites Map (RRSM), on the GIS Registry layer. To review the site on BRRTS on the Web, or to view the GIS Registry web page, see <http://dnr.wi.gov/topic/Brownfields/rrsm.html>.

Continuing Obligations and Responsibilities

As part of the approval of the closure of this case, you will be responsible for maintaining the following continuing obligations. In the final closure approval, you will also be required to conduct annual inspections. Documentation of the inspection will be required to be kept on site.

The continuing obligations for this site are summarized below.

- Groundwater contamination is present above ch. NR 140, Wisconsin Administrative Code enforcement standards.

- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed.
- Pavement or an engineered cover must be maintained over contaminated soil and the DNR must approve any changes to this barrier. Please take photos of the cover when you abandoned the wells for your maintenance file and submit a copy to the Department.
- A maintenance plan is required for this site. In the final closure approval you will be required to conduct annual inspections. Documentation of the inspection will be required to be kept at your facility.

IN CLOSING

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- 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,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

I appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-359-6514 or Lisa.gutknecht@wisconsin.gov.

Sincerely,



Lisa Gutknecht
Remediation & Redevelopment Program

c: Bill Evans, DNR-Eau Claire (e-copy)
Jennine Cota-Trask, ARCADIS (e-copy)
Robert Brandt, Wauleco (e-copy)
Bruce Iverson, TRC (e-copy)

Marathon County Land Record

Report Generated:
11/18/2015 at 1:01:36 PM

Request: 29129073540976
PIN: 291-2907-354-0976
Parcel: 59-352907-014-001-00-00
Municipality: City of WAUSAU

For reference purposes only.

No warranties are expressed or implied for the data provided.

View Type: Public**Account:** None

Record Navigation Bar:



PIN



Address

**(1) General Parcel Information:**

PIN	291-2907-354-0976
Parcel Number	59-352907-014-001-00-00
Parcel Status	Active
Sale Type	Undefined
Sale Date	N/A
Sale Amount	\$0.00
Transfer Tax	\$0.00
Deed Type	Undefined
Deed Reference	321-454
Mailing Address	(ROSECRANS PLANT SITE) PO BOX 33441 ST PAUL MN 55133

(3) Parcel Addresses:

Address # 1	144 ROSECRANS ST WAUSAU WI 54401
--------------------	----------------------------------

(4) Parcel Descriptions:

Year	Acre	Description
2001	9.92	THAT PT OF GOVT LOT 3 & OF NW SE SEC 35-29-7 DESD IN VOL 321 OF DEEDS PG 454 VOL 176 PG 44 VOL 239 PG 331 AND ALL OF BLK 5 J M SMITHS ADDITION, INCL NLY 30' OF VAC ROSECRANS ST LYG SLY OF SD PCL, ALSO THE NLY 30' OF VAC CLEVELAND AVE LYG SLY OF SD PCL
1993	N/A	THAT PT OF GOVT LOT 3 & OF NW SE SEC 35-29-7 DESD IN VOL 321 OF DEEDS PG 454 VOL 176 PG 44 VOL 239 PG 331 AND ALL OF BLK 5 J M SMITHS ADDITION 9.920 A

January 12, 2011



Lisa A. Gutknecht
LUST Program Hydrogeologist
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, Wisconsin 54401

Subject:

Deed Certification for Geographic Information System (GIS) Registry, 3M Downtown Wausau
Facility, Wausau, Wisconsin
BRRTS No. 03-37-298678
WDNR FID No. 737009460

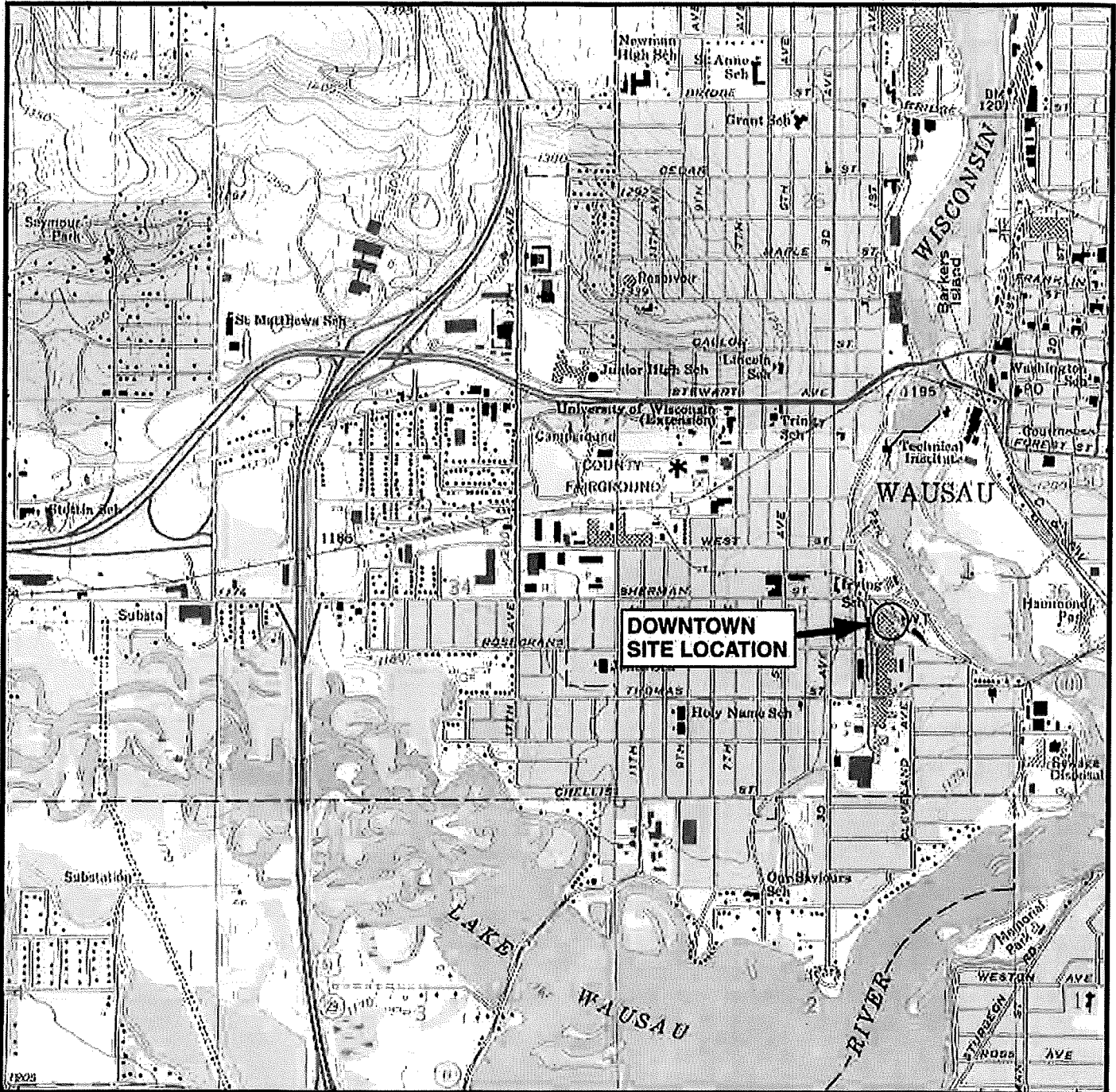
Dear Ms. Gutknecht:

I, Justin Pettinelli, Responsible Party (RP) for the 3M Company do hereby certify that to the best
of my knowledge, the legal descriptions included for Tax Parcel Identification Numbers 37-291-
4-2907-354-0976 and 37-291-4-2907-354-0996 are complete and accurate for the purpose of
registering this site onto the Wisconsin GIS Registry of Closed Remediation Sites.

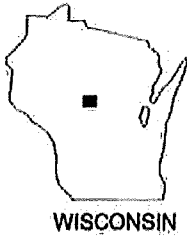
Sincerely,

Signed: Justin A. Pettinelli
Title: Environmental Engineer

Date: 1/12/11



SOURCE: USGS 7.5 Minute Topographic Map, WAUSAU WEST, WISCONSIN Quadrangle, 1978



WISCONSIN



SCALE IN FEET

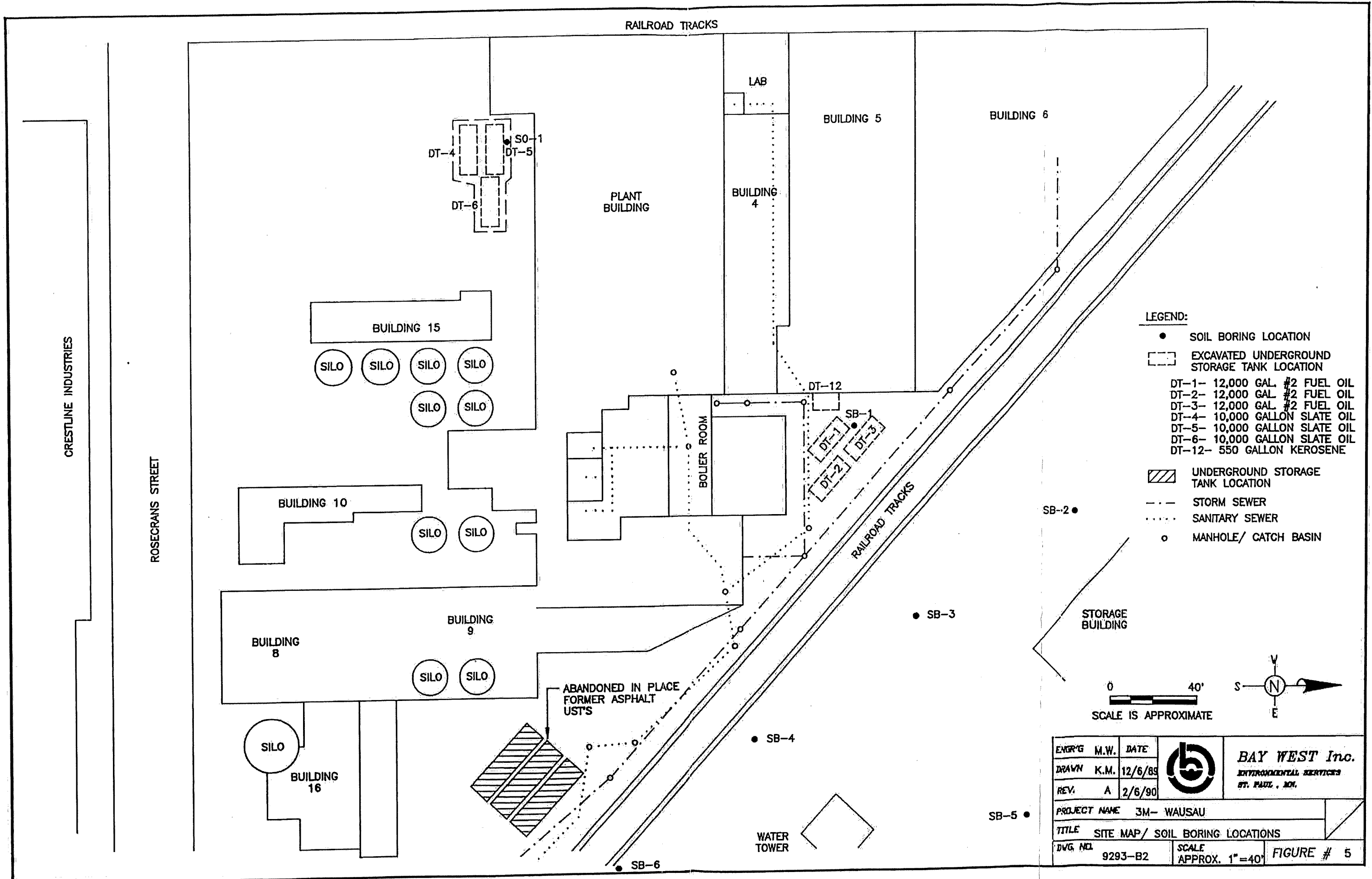
3M DOWNTOWN WAUSAU FACILITY
3M COMPANY
WAUSAU, WISCONSIN

SITE LOCATION MAP

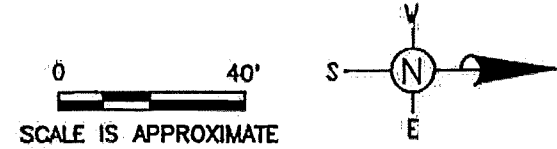



FIGURE
1

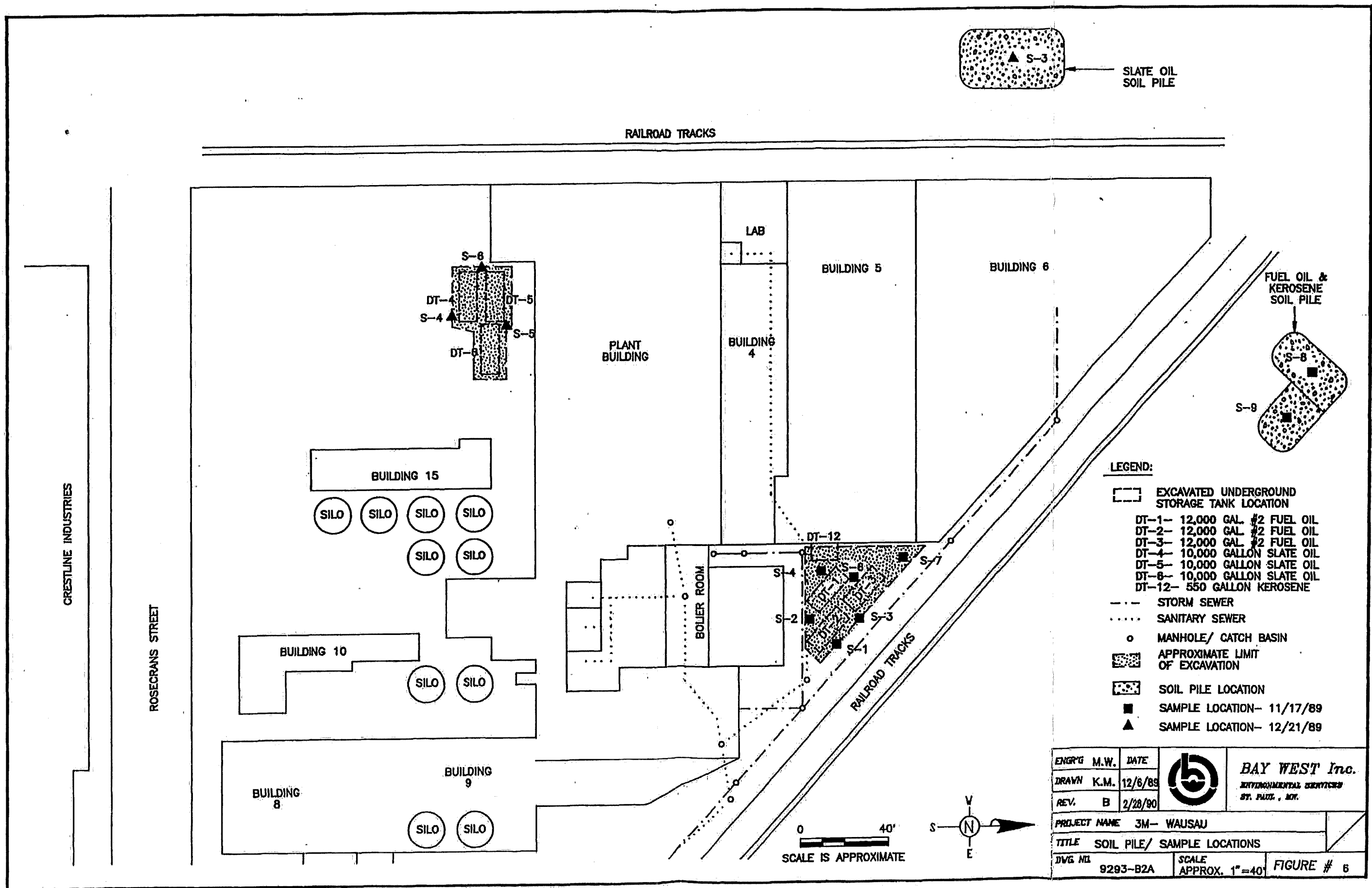
DATE: 17 JUN09 DIV-ENVIRONMENT ORIGINATOR-RR DRAFTER-LMB
3M\W\1044\WAUSAU\GRAPHICS\W_SITE.AI




- LEGEND:**
- SOIL BORING LOCATION
 - EXCAVATED UNDERGROUND STORAGE TANK LOCATION
 - DT-1- 12,000 GAL. #2 FUEL OIL
 - DT-2- 12,000 GAL. #2 FUEL OIL
 - DT-3- 12,000 GAL. #2 FUEL OIL
 - DT-4- 10,000 GALLON SLATE OIL
 - DT-5- 10,000 GALLON SLATE OIL
 - DT-6- 10,000 GALLON SLATE OIL
 - DT-12- 550 GALLON KEROSENE
 - ▨ UNDERGROUND STORAGE TANK LOCATION
 - STORM SEWER
 - SANITARY SEWER
 - MANHOLE/ CATCH BASIN



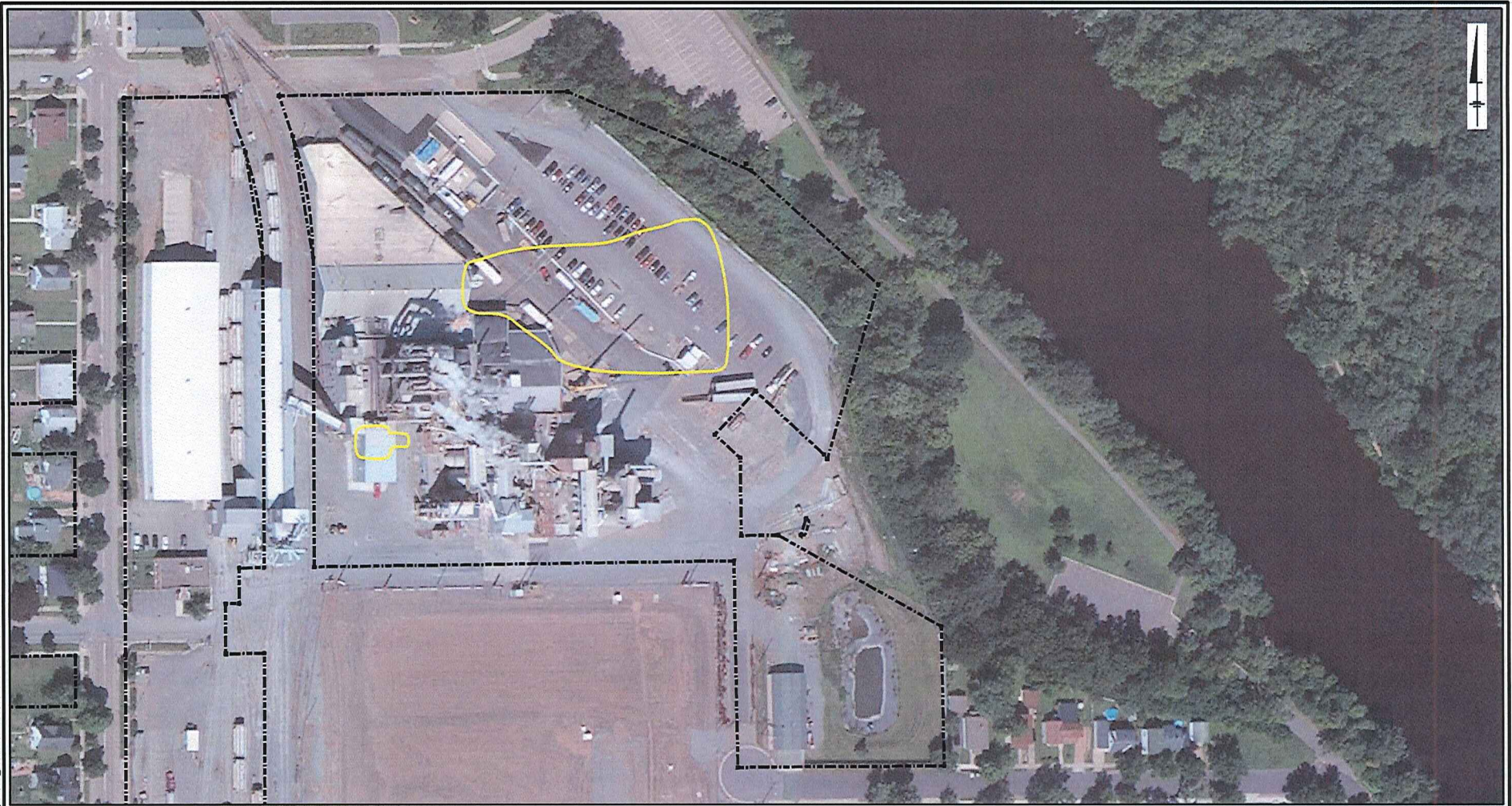
ENGR'G	M.W.	DATE	 BAY WEST Inc. ENVIRONMENTAL SERVICES ST. PAUL, MN.	
DRAWN	K.M.	12/6/89		
REV.	A	2/6/90		
PROJECT NAME			3M- WAUSAU	
TITLE				SITE MAP/ SOIL BORING LOCATIONS
DWG. NO.	9293-B2	SCALE	APPROX. 1"=40'	FIGURE # 5





- LEGEND:**
- ▭ EXCAVATED UNDERGROUND STORAGE TANK LOCATION
 - STORM SEWER
 - SANITARY SEWER
 - MANHOLE/ CATCH BASIN
 - ▨ APPROXIMATE LIMIT OF EXCAVATION
 - ▩ SOIL PILE LOCATION
 - SAMPLE LOCATION- 11/17/89
 - ▲ SAMPLE LOCATION- 12/21/89
- DT-1- 12,000 GAL #2 FUEL OIL
 - DT-2- 12,000 GAL #2 FUEL OIL
 - DT-3- 12,000 GAL #2 FUEL OIL
 - DT-4- 10,000 GALLON SLATE OIL
 - DT-5- 10,000 GALLON SLATE OIL
 - DT-6- 10,000 GALLON SLATE OIL
 - DT-12- 550 GALLON KEROSENE

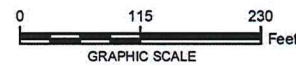
ENGR'G M.W.	DATE	 BAY WEST Inc. ENVIRONMENTAL SERVICES ST. PAUL, MN.
DRAWN K.M.	12/6/89	
REV. B	2/28/90	
PROJECT NAME 3M- WAUSAU		
TITLE SOIL PILE/ SAMPLE LOCATIONS		
DWG NO. 9293-B2A	SCALE APPROX. 1"=40'	FIGURE # 6

CITY.MPFS.DWGROUF.IMDV.DB:MG.LD.TA
3M WAUSAU
Path: G:\GIS\SP\3M_Wausau\Map\Extent_SoCont_20140106.mxd



LEGEND:

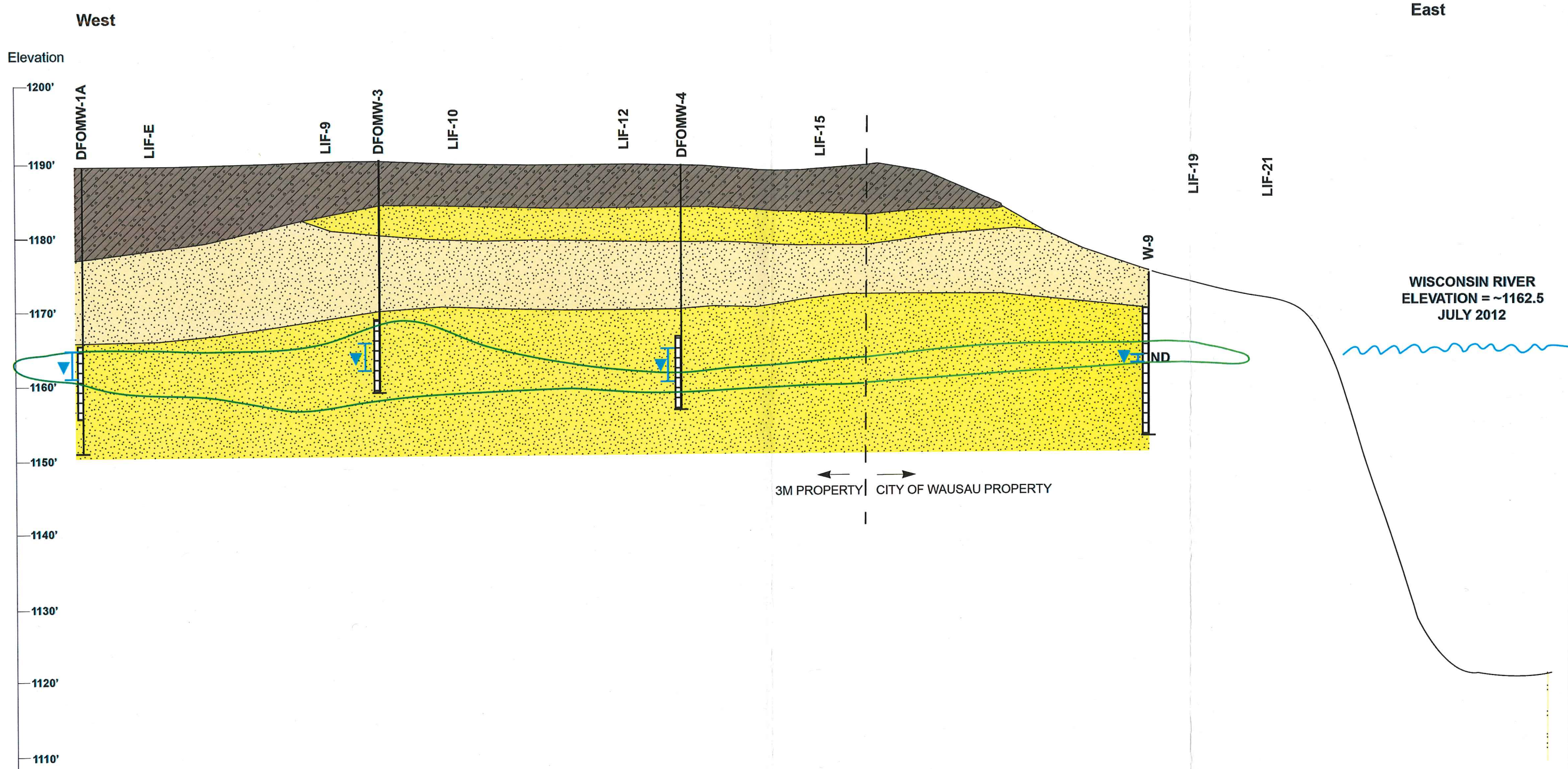
-  PROPERTY LINE
-  ESTIMATED EXTENT OF RESIDUAL PETROLEUM HYDROCARBONS IN THE SOIL






NOTES: IMAGERY ACCESSED THROUGH BING MAPS AERIAL VIA ARCGIS ONLINE LAYER PACKAGES BY ESRI (12/1/2010) (C) 2010 MICROSOFT CORPORATION AND ITS DATA SUPPLIERS ACCESSED ON 1/6/2014 THROUGH ARCGIS 10.



3M DOWNTOWN WAUSAU FACILITY 3M COMPANY WAUSAU, WISCONSIN	
APPROXIMATE EXTENT OF RESIDUAL SOIL CONTAMINATION	
	FIGURE 2

06AUG13 10:51 AM FROM: TTNKJLJAG
3/11/10 10:44 AM WAUSAU\GRAPHICS\XSEC_1.A1

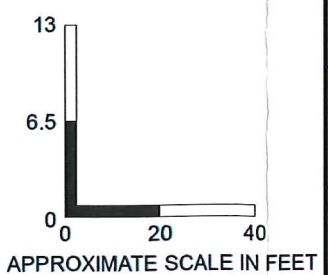


LEGEND

-  FILL - FILL SAND AND GRAVEL.
-  SAND - FINE TO COARSE, POORLY SORTED, LITTLE GRAVEL.
-  SAND - FINE TO MEDIUM, WELL SORTED, LITTLE SILT.

-  ESTIMATED EXTENT OF RESIDUAL PETROLEUM HYDROCARBONS IN THE SOIL
-  GROUNDWATER RANGE 1991-2009
- ND BTEX AND TRIMETHYLBENZENE TOTAL CONCENTRATIONS NOT DETECTED IN GROUNDWATER SAMPLE COLLECTED IN 2009

NOTE: NO LNAPL HAS BEEN OBSERVED IN W-9 SINCE INSTALLATION.



RIVERSIDE PARK
WAUSAU, WISCONSIN

**CROSS SECTION ESTIMATED
EXTENT OF RESIDUAL PETROLEUM
HYDROCARBONS IN THE SOIL**


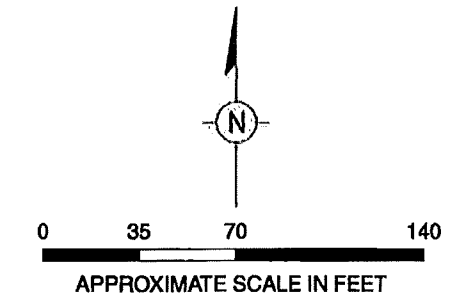
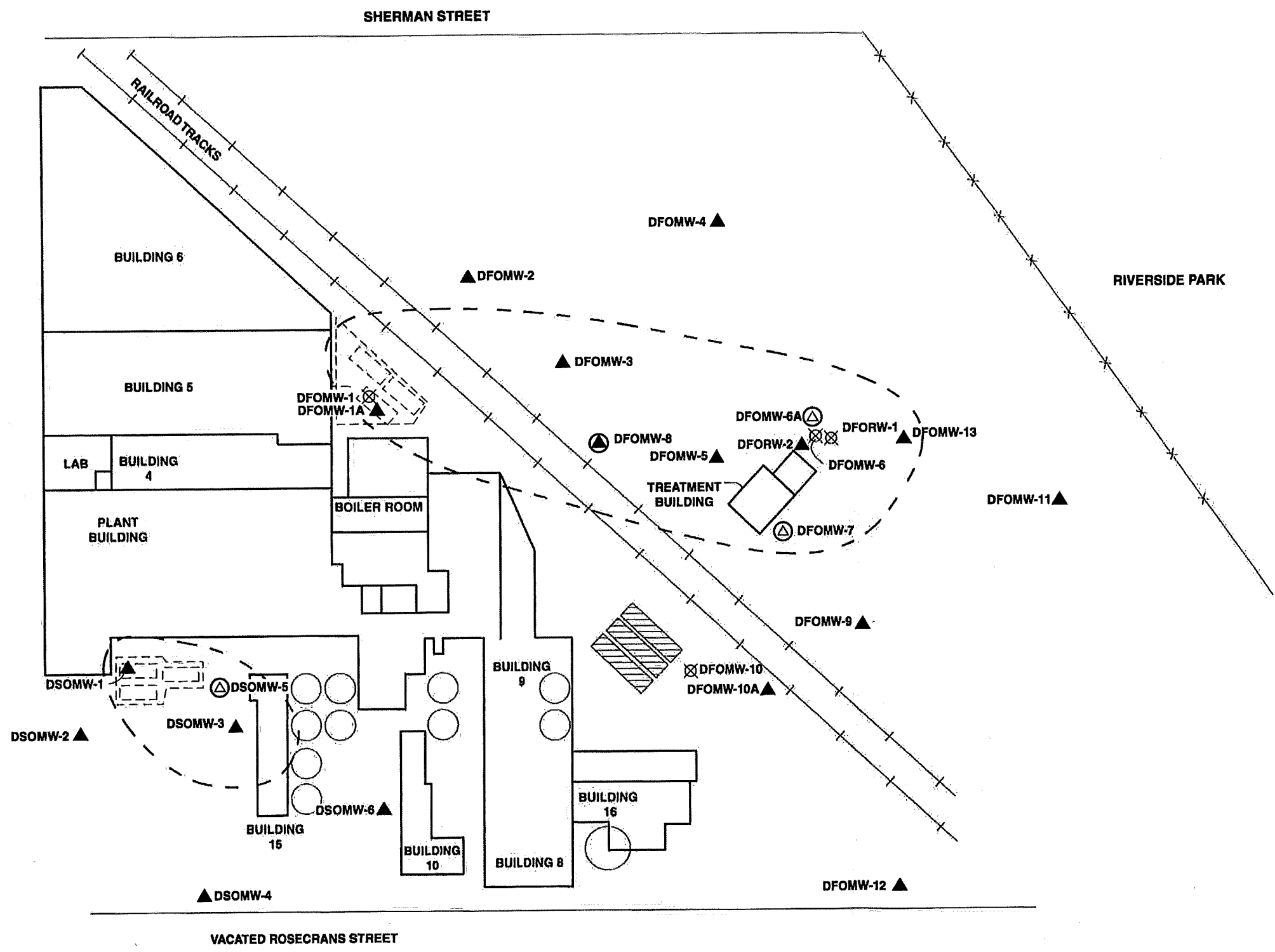
 **ARCADIS**

FIGURE
2

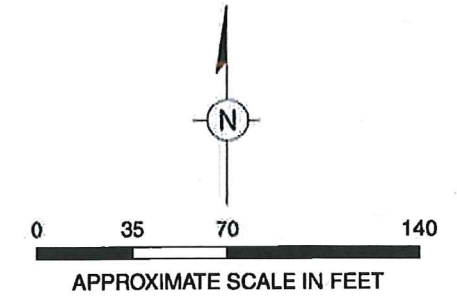
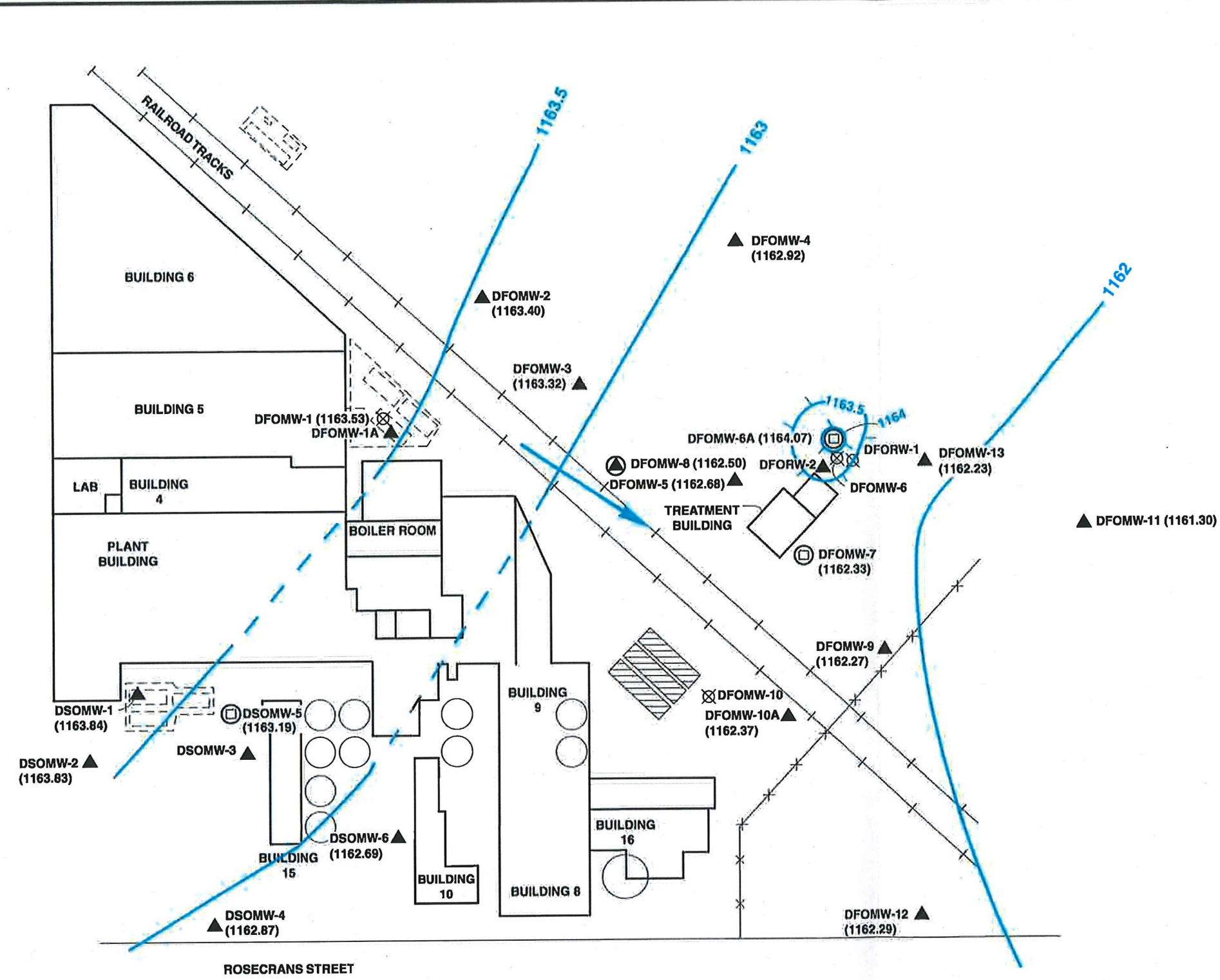
04OCT10ENVIRONMENTSLMB
3MW10441WAUSAUIGRAPHICSGW EXCEED.A1



- LEGEND**
- ▲ GROUNDWATER MONITORING WELL
 - △ GROUNDWATER EXTRACTION WELL
 - EXCAVATED UNDERGROUND STORAGE TANK LOCATION
 - ▨ UNDERGROUND STORAGE TANK LOCATION
 - ⊙ VAPOR EXTRACTION WELL AND GROUNDWATER EXTRACTION WELL
 - ⊙ VAPOR EXTRACTION WELL AND GROUNDWATER MONITORING WELL
 - ⊗ ABANDONED GROUNDWATER MONITORING WELL IN JULY 2004.
 - EXTENT OF GROUNDWATER EXCEEDING NR 140 ENFORCEMENT STANDARD (BASED ON 10/2009 ANALYTICAL RESULTS)

3M DOWNTOWN WAUSAU FACILITY 3M COMPANY WAUSAU, WISCONSIN	
APPROXIMATE EXTENTS OF GROUNDWATER CONTAMINATION	
ARCADIS	FIGURE 1

19 JULY 10 ENVIRONMENT RRLMB
 3M WFT044 WAUSAU GRAPHICS/GW ELEVATION 0210_7_A1



LEGEND

- ▲ GROUNDWATER MONITORING WELL
 - ⊕ VAPOR EXTRACTION WELL AND GROUNDWATER EXTRACTION WELL
 - ⊗ VAPOR EXTRACTION WELL AND GROUNDWATER MONITORING WELL
 - ⊗ ABANDONED GROUNDWATER MONITORING WELL IN JULY 2004.
 - - - EXCAVATED UNDERGROUND STORAGE TANK LOCATION
 - ▨ UNDERGROUND STORAGE TANK LOCATION
 - LNAPL LIQUID NON-AQUEOUS PHASE LIQUID
 - (1162.05) GROUNDWATER ELEVATION
 - 1162 — GROUNDWATER ELEVATION CONTOUR (dashed where inferred)
 - ➔ GENERALIZED GROUNDWATER FLOW DIRECTION
 - ⊕ HATCHURED CONTOURS INDICATE A MOUND
- NOTE:** GROUNDWATER EXTRACTION SYSTEM SHUT DOWN IN JULY 2008.
 SVE SYSTEMS SHUT DOWN IN JANUARY 2009.

3M DOWNTOWN WAUSAU FACILITY
 3M COMPANY
 WAUSAU, WISCONSIN

**GROUNDWATER ELEVATION MAP
 OCTOBER 8, 2009**

ARCADIS

FIGURE
3

TABLE 2
Summary of Soil Analytical Results

SAMPLE # (Boring # - Depth bq)	B	T	E	X	TOTAL HYDROCARBONS AS		
					Gas	FO#1	FO#2
SB-1 24-28 feet	ND	2,400	4,400	23,000	ND	ND	17,000
SB-2 25-27 feet	ND	ND	ND	ND	ND	ND	110
SB-3 27-29 feet	ND	150	380	1,400	ND	ND	2,600
SB-4 29-31 feet	ND	ND	530	990	ND	ND	1,900
SB-5 30-32 feet	ND	ND	ND	ND	ND	ND	ND
SB-6 25-27 feet	ND	ND	ND	2,400	93	ND	280
SO-1 25-27 feet	ND	350	440	2,500	240	ND	2,100
GS-1 9.5-11.5 feet	ND	28,000	3,700	69,000	ND	ND	8,600
GS-1 36-38 feet	ND	ND	ND	ND	ND	ND	1,200
GS-2 25-27 feet	ND	ND	ND	ND	ND	ND	ND
GS-2 35-37 feet	ND	ND	ND	ND	ND	ND	ND
GS-3 30-32 feet	ND	ND	ND	ND	ND	ND	ND
GS-4 35-37 feet	ND	ND	ND	ND	ND	ND	ND
GS-5 35-37 feet	ND	ND	ND	ND	ND	ND	ND
GS-6 40-42 feet	ND	ND	ND	ND	ND	ND	21
GQ-1 30-31 feet	ND	ND	ND	ND	ND	ND	ND
GQ-2 28-30 feet	ND	ND	ND	ND	ND	ND	ND
GQ-3 15-17 feet	ND	ND	ND	ND	ND	ND	1,100
GQ-3 20-22 feet	ND	210	ND	410	ND	ND	4,400

Notes:

- ND - Not detected at or above Method Detection Limit.
- B - Benzene, ug/kg
- T - Toluene, ug/kg
- E - Ethylbenzene, ug/kg
- X - Xylenes, ug/kg
- Gas - Total Hydrocarbons as Gasoline, mg/kg
- FO#1 - Total Hydrocarbons as Fuel Oil #1, mg/kg
- FO#2 - Total Hydrocarbons as Fuel Oil #2, mg/kg

**TABLE 4
SOIL ANALYTICAL RESULTS**

DATE COLLECTED	SAMPLE #	DESCRIPTION- LOCATION	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	XYLENE (mg/kg)	TPH (mg/kg)
11-21-89	S-1	DOWNTOWN- FUEL OIL EXCAVATION, EAST SIDE, 14 FT. BG	N.D.	N.D.	N.D.	N.D.	1.4
11-20-89	S-2	DOWNTOWN- FUEL OIL EXCAVATION, SOUTH SIDE, 14 FT. BG	N.D.	N.D.	N.D.	N.D.	N.D.
11-20-89	S-3	DOWNTOWN- FUEL OIL EXCAVATION, NORTH SIDE, 14 FT. BG	N.D.	N.D.	N.D.	N.D.	17
11-20-89	S-4	DOWNTOWN- FUEL OIL EXCAVATION, SW SIDE, 14 FT. BG	N.D.	N.D.	N.D.	N.D.	180
11-20-89	S-5	DOWNTOWN- FUEL OIL EXCAVATION, 8 FT. BG	N.D.	N.D.	N.D.	N.D.	N.D.
11-20-89	S-6	DOWNTOWN- FUEL OIL EXCAVATION, BOTTOM, 14 FT. BG	N.D.	N.D.	N.D.	N.D.	130
11-20-89	S-7	DOWNTOWN- FUEL OIL EXCAVATION, NW SIDE, 6 FT. BG	N.D.	N.D.	N.D.	N.D.	120
11-20-89	S-8	DOWNTOWN- FUEL OIL SOIL PILE COMPOSITE, WEST SIDE	N.D.	N.D.	N.D.	N.D.	—
11-20-89	S-9	DOWNTOWN- FUEL OIL SOIL PILE COMPOSITE, EAST SIDE	N.D.	N.D.	N.D.	N.D.	100
11-20-89	S-10	TRAVEL SOIL BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
11-20-89	S-11	TRAVEL BLANK					
12-21-89	S-1	GREYSTONE- DIESEL SOIL PIL COMPOSITE	N.D.	N.D.	N.D.	N.D.	540
12-21-89	S-2	GREYSTONE- PUMP ISLAND SOIL PILE COMPOSITE	N.D.	N.D.	N.D.	8.9	810
12-21-89	S-3	DOWNTOWN- SLATE OIL SOIL PILE COMPOSITE	N.D.	N.D.	N.D.	N.D.	5.5
12-20-89	S-4	DOWNTOWN- SLATE OIL EXCAVATION, EAST SIDE, 12 FT. BG	N.D.	N.D.	N.D.	N.D.	4.8
12-20-89	S-5	DOWNTOWN- SLATE OIL EXCAVATION, WEST SIDE, 12 FT. BG	N.D.	N.D.	N.D.	N.D.	12
12-20-89	S-6	DOWNTOWN- SLATE OIL EXCAVATION, SOUTH SIDE, 12' BG	N.D.	N.D.	N.D.	N.D.	8.7
12-21-89	S-7	GREYSTONE- FUEL OIL SOIL PILE COMPOSITE	N.D.	N.D.	N.D.	N.D.	160
12-21-89	S-8	SAMPLE BLANK					
12-21-89	S-9	TRAVEL BLANK					

ND= NOT DETECTED ABOVE METHOD DETECTION LIMIT

Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-1				DFOMW-1A	DFOMW-2				
	6/11/91	7/11/91	2/3/92	7/14/93	4/14/04	6/11/91	7/11/91	2/3/92	7/8/92	9/30/92
VOCs (µg/L)										
Benzene	48	23	--	30	2.4	<1	<1	<0.5	<0.5	<0.5
Chloroform	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	120	91	--	120 *	37	<1	<1	<0.5	<0.5	<0.5
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	--	--	--	<25	<2	--	--	--	--	<0.5
Naphthalene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--
Toluene	84	<50	--	37	<2	<5	<5	<0.5	<0.5	<0.5
Trimethylbenzenes, Total	--	--	--	630	119	--	--	--	--	<1
Xylenes, Total	620	340	--	460 *	57	<2	<2	<0.5	0.6 *	1
SVOCs (µg/L)										
1-Methylnaphthalene	--	--	--	--	220 PG	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	160	--	--	--	--	--
Acenaphthene	--	--	--	<20	<20	--	--	--	--	--
Acenaphthylene	--	--	--	<20	<20	--	--	--	--	--
Anthracene	--	--	--	170	<4	--	--	--	--	--
Benzo (a) anthracene	--	--	--	9.7	<2.6	--	--	--	--	--
Benzo (a) Pyrene	--	--	--	8.8	<4	--	--	--	--	--
Benzo (b) Fluoranthene	--	--	--	14	<3.6	--	--	--	--	--
Benzo (g,h,i) perylene	--	--	--	6.8	<4	--	--	--	--	--
Benzo (k) Fluoranthene	--	--	--	3	<3.4	--	--	--	--	--
Chrysene	--	--	--	32	<4	--	--	--	--	--
Dibenzo (a,h) anthracene	--	--	--	<2.0	<4	--	--	--	--	--
Fluoranthene	--	--	--	8.8	28 PG	--	--	--	--	--
Fluorene	--	--	--	190	23 PG	--	--	--	--	--
Indeno (1,2,3-cd) Pyrene	--	--	--	3	<4	--	--	--	--	--
Naphthalene	--	--	--	300	61 PG	--	--	--	--	--
Phenanthrene	--	--	--	290	28	--	--	--	--	--
Pyrene	--	--	--	<5.0	<4	--	--	--	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-2 (continued)									
	12/15/92	3/30/93	7/14/93	11/18/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95	11/15/95
VOCs (µg/L)										
Benzene	<0.5	<0.5	<0.5	<0.50	<1.0	1.2	<0.50	<0.50	<0.50	<1.0
Chloroform	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	<0.50	<1.0	0.52	<0.50	<0.50	<0.50	<1.0
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.5	<0.5	<0.5	<0.50	<1.0	7.7	<0.50	<0.50	<0.50	<1.0
Naphthalene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--
Toluene	<0.5	<0.5	<0.5	<0.50	<1.0	1.1	<0.50	<0.50	<0.50	<1.0
Trimethylbenzenes, Total	<1	<1	<1	<1	<2	0.86	<1	<1	<1	<2
Xylenes, Total	<0.5	<0.5	<0.5	1.4	<3.0	2.3	<0.50	<0.50	<0.50	<1.0
SVOCs (µg/L)										
1-Methylnaphthalene	--	--	--	--	--	<2.0	<2.0	<10	<10	<2.0
2-Methylnaphthalene	--	--	--	--	--	<2.0	<2.0	<10	<10	<2.0
Acenaphthene	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acenaphthylene	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Anthracene	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo (a) anthracene	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Benzo (a) Pyrene	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo (b) Fluoranthene	--	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzo (g,h,i) perylene	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo (k) Fluoranthene	--	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Chrysene	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenzo (a,h) anthracene	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluoranthene	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Fluorene	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Indeno (1,2,3-cd) Pyrene	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Naphthalene	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Phenanthrene	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-2 (continued)										
	5/29/96	9/17/96	4/1/97	9/9/97	4/6/98	10/28/98	4/6/99	10/19/99	3/28/00	10/31/00	4/24/01
VOCs (µg/L)											
Benzene	<1.0	<1.0	<1.0	<0.13	<1	<1	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1.0	<1.0	<1.0	<0.22	<1	<1	17	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1.0	<1.0	<1.0	<0.16	<1	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1.0	<1.0	<1.0	<0.20	<1	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	<2	<2	<2	<0.51	<2	<2	67	<2	<2	<2	<2
Xylenes, Total	<1.0	<1.0	<1.0	<0.23	<1	<1	13	<1	<1	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	<2.0	<2.0	--	--	<2	--	60	--	<2	--	<2
2-Methylnaphthalene	<2.0	<2.0	--	--	<2	--	23	--	<2	--	<2
Acenaphthene	<1.0	<1.0	--	--	<1	--	<10	--	<1	--	<1
Acenaphthylene	<1.0	<1.0	--	--	<1	--	19	--	<1	--	2.5
Anthracene	<1.0	<1.0	--	--	<0.2	--	<2	--	<2	--	<0.2
Benzo (a) anthracene	<0.13	<0.13	--	--	<0.2	--	<1.3	--	<0.13	--	<0.13
Benzo (a) Pyrene	<0.20	<0.20	--	--	<0.2	--	2.5	--	<0.2	--	<0.2
Benzo (b) Fluoranthene	<0.18	<0.18	--	--	<0.18	--	1.8	--	<0.18	--	<0.18
Benzo (g,h,i) perylene	<0.20	<0.20	--	--	<0.2	--	2.8	--	<0.2	--	<0.2
Benzo (k) Fluoranthene	<0.17	<0.17	--	--	<0.17	--	1.8	--	<0.17	--	<0.17
Chrysene	<0.20	<0.20	--	--	<0.2	--	2.7	--	<0.2	--	<0.2
Dibenzo (a,h) anthracene	<0.20	<0.20	--	--	<0.2	--	<2	--	<0.2	--	<0.2
Fluoranthene	<0.20	<0.20	--	--	<0.2	--	8.8	--	<0.2	--	<0.2
Fluorene	<1.0	<1.0	--	--	<0.2	--	<2	--	<1	--	<0.2
Indeno (1,2,3-cd) Pyrene	<0.20	<0.20	--	--	<0.2	--	<2	--	<0.2	--	<0.2
Naphthalene	<1.0	<1.0	--	--	<1	--	22	--	<2	--	1.1
Phenanthrene	<1.0	<1.0	--	--	<0.2	--	<2	--	<1	--	<0.2
Pyrene	<0.20	<0.20	--	--	<0.2	--	14	--	<0.2	--	<0.2

Footnotes on Page 42.

Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-2 (continued)									DFOMW-3	
	10/29/01	4/30/02	10/16/02	4/29/03	10/22/03	4/14/04	4/26/05	4/11/06	4/12/07	12/15/92	3/30/93
VOCs (µg/L)											
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<0.25	0.8 *	1.3 *
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<0.22	3 *	8.2 *
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<1	<1	<0.23	0.5 *	1.6 *
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<0.11	1 *	2.1 *
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<2	<2	<2	<0.44	9	12.1
Xylenes, Total	<1	<1	<1	<1	<1	<1	<1	<1	<0.39	7 *	11 *
SVOCs (µg/L)											
1-Methylnaphthalene	--	<2	--	<2	--	<2	--	<2	--	--	--
2-Methylnaphthalene	--	<2	--	<2	--	<2	--	<2	--	--	--
Acenaphthene	--	<1	--	<1	--	<1	--	<1	--	--	<2.0
Acenaphthylene	--	<1	--	<1	--	<1	--	<1	--	--	<2.0
Anthracene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	2.2
Benzo (a) anthracene	--	<0.13	--	<0.13	--	<0.13	--	<0.13	--	--	3.5
Benzo (a) Pyrene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	4
Benzo (b) Fluoranthene	--	<0.18	--	<0.18	--	<0.18	--	<0.18	--	--	1.4
Benzo (g,h,i) perylene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	0.94
Benzo (k) Fluoranthene	--	<0.17	--	<0.17	--	<0.17	--	<0.17	--	--	0.51
Chrysene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	1.9
Dibenzo (a,h) anthracene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	0.71
Fluoranthene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	1.2
Fluorene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<1.0
Indeno (1,2,3-cd) Pyrene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.20
Naphthalene	--	<1	--	<1	--	<1	--	<1	--	--	<2.0
Phenanthrene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	1.7
Pyrene	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	4.3

Footnotes on Page 42.

Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-3 (continued)										
	7/14/93	11/18/93	3/23/94	8/10/94	2/22/95	5/24/95	10/19/04	4/26/05	10/11/05	4/11/06	10/10/06
VOCs (µg/L)											
Benzene	<0.5	<0.50	<1.0	<0.50	<0.50	<0.50	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	8.8 *	5.7 *	5.7	8.8	6.6	9.8	5.9	10	12	5.9	9.2
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.5	<0.50	<1.0	<0.5	<0.50	<0.50	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	0.97 *	<0.50	1.4	0.78	<0.50	<0.50	<1	<1	<1	<1	0.40 J
Trimethylbenzenes, Total	15.3	3	19	27.8	21	50	19.2	25.9	28.8	19	27.89
Xylenes, Total	15 *	5.3	9.9	16	11	15	1.7	3	3.5	<1	5.7
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	<10	35	24	--	48	--	<2	--
2-Methylnaphthalene	--	--	--	<10	22	<10	--	<2	--	0.98 J	--
Acenaphthene	<2.0	<2.0	<2.0	<10	2.4	<2.0	--	<1	--	<1	--
Acenaphthylene	<2.0	7.1	<2.0	<10	6.7	2.3	--	<1	--	<1	--
Anthracene	<1.0	24	<1.8	<5.0	<1.0	<1.0	--	0.23	--	<0.2	--
Benzo (a) anthracene	0.33	2.5	<65.00	1.4	0.26 *	<0.13	--	<0.13	--	<0.13	--
Benzo (a) Pyrene	3.5	1.5	<1.0	3.6	<0.20	<0.20	--	<0.2	--	<0.2	--
Benzo (b) Fluoranthene	3.8	<0.18	<0.90	2.7	<0.18	<0.18	--	<0.18	--	<0.18	--
Benzo (g,h,i) perylene	0.22	<0.20	<1.0	1.5	0.89 *	<0.20	--	<0.2	--	<0.2	--
Benzo (k) Fluoranthene	0.75	1.3	<0.85	<0.85	<0.17	<0.17	--	<0.17	--	<0.17	--
Chrysene	3	3	1.3	6.2	<0.20	<0.20	--	<0.2	--	<0.2	--
Dibenzo (a,h) anthracene	2.8	<0.20	<1.0	<1.0	<0.20	<0.20	--	<0.2	--	<0.2	--
Fluoranthene	<0.50	<0.50	<2.5	<2.5	<0.50	<0.50	--	2.7	--	<0.2	--
Fluorene	<1.0	17	1.9	<5.0	5.9	5.1	--	2.6 PG	--	<0.2	--
Indeno (1,2,3-cd) Pyrene	5.2	6.4	<1.0	1.2	<0.20	<0.20	--	<0.2	--	<0.2	--
Naphthalene	2.3	2.1	<2.0	<10	11	6	--	5	--	<1	--
Phenanthrene	<1.0	33	<1.0	<5.0	6.5	<1.0	--	<0.2	--	<0.2	--
Pyrene	10	20	3.5	4.1	<0.50	<0.50	--	<0.2	--	2.4 PG	--

Footnotes on Page 42.

Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-3 (continued)							DFOMW-4				
	Sample Date	4/12/07	4/22/08	1/29/09	4/16/09	7/15/09	10/9/09	7/15/09	6/11/91	7/11/91	2/3/92	7/8/92
VOCs (µg/L)												
Benzene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<1	<0.25	<1	<1	<0.5	<0.5
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	13	10	14	10	10	10	10	10	<1	<1	<0.5	<0.5
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.92	<0.23	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	0.20 Ja	0.14 J	<0.25	<0.25	<0.25	<0.25	<1	<0.25	<5	<5	<0.5	<0.5
Trimethylbenzenes, Total	21.5	9.1	3.08	6	17.7	19.7	19.7	18.1	--	--	--	--
Xylenes, Total	5.2	4.2	4.5	3.7	3.8	4.5 J	3.6	3.6	<2	<2	<0.5	0.5 *
SVOCs (µg/L)												
1-Methylnaphthalene	<3.3	<0.33	20	<0.32	<1.6	74	--	--	--	--	--	--
2-Methylnaphthalene	15	<0.32	8.3	<0.31	<1.6	9.1	--	--	--	--	--	--
Acenaphthene	<3.4	<0.34	2.8	<0.33	<1.7	2.5	--	--	--	--	--	--
Acenaphthylene	<7.1	<0.71	<0.73	<0.7	<3.5	<0.69	--	--	--	--	--	--
Anthracene	1.7	<0.039	0.3	<0.038	0.81	0.76	--	--	--	--	--	--
Benzo (a) anthracene	16	0.21	0.78	<0.044	3.4	0.16	--	--	--	--	--	--
Benzo (a) Pyrene	2.2	1.2	0.21	<0.032	2.3	0.23	--	--	--	--	--	--
Benzo (b) Fluoranthene	5.2	2.7	0.21 J	<0.099	2.4	0.17 J	--	--	--	--	--	--
Benzo (g,h,i) perylene	4.4 Ja	0.28	0.17 J	<0.12	1.3	<0.12	--	--	--	--	--	--
Benzo (k) Fluoranthene	1.3 Ja	1.4	0.12 J	<0.049	1.7	0.079 J	--	--	--	--	--	--
Chrysene	4.4	0.64	0.51	0.79	2.9	0.17	--	--	--	--	--	--
Dibenzo (a,h) anthracene	<1.3	<0.13	<0.14	<0.13	<0.66	<0.13	--	--	--	--	--	--
Fluoranthene	13	<0.084	1.6	<0.082	7.2	2.6	--	--	--	--	--	--
Fluorene	3.9	<0.064	4.6	<0.063	<0.32	11	--	--	--	--	--	--
Indeno (1,2,3-cd) Pyrene	1.5 Ja	0.15	<0.066	<0.063	<0.32	<0.062	--	--	--	--	--	--
Naphthalene	6.4 Ja	<0.41	<0.43	<0.4	<2	20	--	--	--	--	--	--
Phenanthrene	1.8	0.073 J	0.85	<0.03	1.6	5.6	--	--	--	--	--	--
Pyrene	25	0.87	0.65	0.22	19	0.86	--	--	--	--	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-4 (continued)												
	Sample Date	9/30/92	12/15/92	3/30/93	7/14/93	11/18/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95	11/15/95	5/29/96
VOCs (µg/L)													
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	1.1	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	<0.5	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<0.5	<0.5	0.54	<0.5	<0.50	2.3	0.6	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0
Trimethylbenzenes, Total	<1	<1	<1	0.62 *	<1	<2	0.72	<1	<1	<1	<1	<2	<2
Xylenes, Total	0.5	<0.5	<0.5	<0.5	0.56	<3.0	0.6	<0.50	0.62	<0.50	<0.50	<1.0	<1.0
SVOCs (µg/L)													
1-Methylnaphthalene	--	--	--	--	--	--	<10	<2.0	<10	<10	<10	<2.0	--
2-Methylnaphthalene	--	--	--	--	--	--	<10	<2.0	<10	<10	<10	<2.0	--
Acenaphthene	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
Acenaphthylene	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
Anthracene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Benzo (a) anthracene	--	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	--
Benzo (a) Pyrene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Benzo (b) Fluoranthene	--	--	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	--
Benzo (g,h,i) perylene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Benzo (k) Fluoranthene	--	--	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	--
Chrysene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Dibenzo (a,h) anthracene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Fluoranthene	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
Fluorene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Indeno (1,2,3-cd) Pyrene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Naphthalene	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
Phenanthrene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Pyrene	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-4 (continued)											
	9/17/96	4/1/97	9/9/97	4/6/98	10/28/98	4/6/99	10/19/99	3/28/00	10/31/00	4/24/01	10/29/01	4/30/02
VOCs (µg/L)												
Benzene	<1.0	<1.0	<0.13	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1.0	<1.0	<0.22	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1.0	<1.0	<0.16	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1.0	<1.0	<0.20	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	<2	<2	<0.51	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	<1.0	<1.0	<0.23	<1	<1	<1	<1	<1	<1	<1	<1	<1
SVOCs (µg/L)												
1-Methylnaphthalene	<2.0	--	--	<2	--	<2	--	<2	--	<2	--	<2
2-Methylnaphthalene	<2.0	--	--	<2	--	<2	--	<2	--	<2	--	<2
Acenaphthene	<1.0	--	--	<1	--	<1	--	<1	--	<1	--	<1
Acenaphthylene	<1.0	--	--	<1	--	<1	--	<1	--	<1	--	<1
Anthracene	<1.0	--	--	<0.2	--	<0.2	--	<2	--	<0.2	--	<0.2
Benzo (a) anthracene	<0.13	--	--	<0.13	--	<0.13	--	<0.13	--	<0.13	--	<0.13
Benzo (a) Pyrene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2
Benzo (b) Fluoranthene	<0.18	--	--	<0.18	--	<0.18	--	<0.18	--	<0.18	--	<0.18
Benzo (g,h,i) perylene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2
Benzo (k) Fluoranthene	<0.17	--	--	<0.17	--	<0.17	--	<0.17	--	<0.17	--	<0.17
Chrysene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2
Dibenzo (a,h) anthracene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2
Fluoranthene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2
Fluorene	<1.0	--	--	<0.2	--	<0.2	--	<1	--	<0.2	--	<0.2
Indeno (1,2,3-cd) Pyrene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2
Naphthalene	<1.0	--	--	<1	--	<1	--	<2	--	<1	--	<1
Phenanthrene	<1.0	--	--	<0.2	--	<0.2	--	<1	--	<0.2	--	<0.2
Pyrene	<0.20	--	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-4 (continued)									DFOMW-5
	10/16/02	4/29/03	10/22/03	4/14/04	4/26/05	4/11/06	4/12/07	4/22/08	4/16/09	6/11/91
VOCs (µg/L)										
Benzene	<1	<1	<1	<1	<1	<1	<0.25	<0.25	<0.25	<10
Chloroform	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<0.22	<0.22	<0.22	110
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<0.23	<0.23	<0.23	--
Naphthalene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<0.11	<0.11	<0.25	69
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<2	<0.44	<0.44	<0.44	--
Xylenes, Total	<1	<1	<1	<1	<1	<1	<0.39	<0.39	<0.39	61
SVOCs (µg/L)										
1-Methylnaphthalene	--	<2	--	<2	--	<2	--	<0.33	<0.33	--
2-Methylnaphthalene	--	<2	--	<2	--	<2	--	<0.32	<0.32	--
Acenaphthene	--	<1	--	<1	--	<1	--	<0.34	<0.34	--
Acenaphthylene	--	<1	--	<1	--	<1	--	<0.71	<0.72	--
Anthracene	--	<0.2	--	<0.2	--	<0.2	--	<0.039	<0.04	--
Benzo (a) anthracene	--	<0.13	--	<0.13	--	<0.13	--	<0.045	<0.046	--
Benzo (a) Pyrene	--	<0.2	--	<0.2	--	<0.2	--	<0.033	<0.033	--
Benzo (b) Fluoranthene	--	<0.18	--	<0.18	--	<0.18	--	<0.1	<0.1	--
Benzo (g,h,i) perylene	--	<0.2	--	<0.2	--	<0.2	--	<0.12	<0.12	--
Benzo (k) Fluoranthene	--	<0.17	--	<0.17	--	<0.17	--	<0.051	<0.051	--
Chrysene	--	<0.2	--	<0.2	--	<0.2	--	<0.042	<0.043	--
Dibenzo (a,h) anthracene	--	<0.2	--	<0.2	--	<0.2	--	<0.13	<0.14	--
Fluoranthene	--	<0.2	--	<0.2	--	<0.2	--	<0.084	<0.084	--
Fluorene	--	<0.2	--	<0.2	--	<0.2	--	<0.064	<0.065	--
Indeno (1,2,3-cd) Pyrene	--	<0.2	--	<0.2	--	<0.2	--	<0.064	<0.065	--
Naphthalene	--	<1	--	<1	--	<1	--	<0.41	<0.42	--
Phenanthrene	--	<0.2	--	<0.2	--	<0.2	--	<0.031	<0.031	--
Pyrene	--	<0.2	--	<0.2	--	<0.2	--	<0.045	<0.046	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-5 (continued)											
	7/15/93	10/29/01	10/19/04	4/26/05	10/11/05	4/11/06	10/10/06	4/12/07	1/29/09	4/16/09	7/15/09	10/9/09
VOCs (µg/L)												
Benzene	<25	1.4	<1	1	<1	0.46 J	<1	0.72 Ja	0.69 J	0.66 J	<0.25	<0.25
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	37 *	<1	<1	<1	<1	<1	<1	<0.44	<0.22	<0.22	<0.22	<0.22
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<25	<1	<1	<1	<1	<1	<1	<0.46	<0.23	<0.23	<0.23	<0.23
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<25	<1	<1	<1	<1	<1	<1	<0.22	<0.25	<0.25	<0.25	<0.25
Trimethylbenzenes, Total	233	<2	<2	<2	<2	<2	<2	<0.88	<0.44	<0.44	<0.44	<0.44
Xylenes, Total	<25	<1	<1	<1	<1	<1	<1	<0.78	<0.39	0.84 J	<0.39	<0.39
SVOCs (µg/L)												
1-Methylnaphthalene	--	--	--	5.0 PG	--	<20	--	<0.33	<0.33	<0.66	<0.32	<0.32
2-Methylnaphthalene	--	--	--	<2	--	4.7 J	--	<0.32	<0.32	<0.64	<0.31	<0.31
Acenaphthene	<500	--	--	<1	--	<10	--	<0.34	<0.34	<0.68	<0.33	<0.33
Acenaphthylene	<500	--	--	<1	--	<10	--	<0.71	<0.71	<1.4	<0.69	<0.69
Anthracene	500	--	--	<0.2	--	<2	--	0.075 Ja	0.18	<0.078	<0.038	<0.038
Benzo (a) anthracene	64	--	--	<0.13	--	<1.3	--	0.82	0.44	<0.091	0.049 J	<0.044
Benzo (a) Pyrene	75	--	--	1.1 PG	--	<2	--	0.10 Ja	0.67	<0.066	0.21	<0.032
Benzo (b) Fluoranthene	120	--	--	<0.18	--	<1.8	--	<0.1	0.83	<0.2	0.13 J	<0.098
Benzo (g,h,i) perylene	87	--	--	0.93 PG	--	<2	--	1.1	0.12 J	<0.25	0.37	<0.12
Benzo (k) Fluoranthene	<42	--	--	<0.17	--	<1.7	--	0.34	0.27	<0.1	0.068 J	<0.049
Chrysene	<50	--	--	<0.2	--	<2	--	0.36	0.77	0.6	<0.041	<0.041
Dibenzo (a,h) anthracene	<50	--	--	0.57	--	<2	--	<0.13	0.18 J	<0.27	<0.13	<0.13
Fluoranthene	<120	--	--	<0.2	--	<2	--	0.97	0.95	<0.17	<0.081	<0.081
Fluorene	<250	--	--	0.47	--	<2	--	0.62	0.66 J	<0.13	<0.062	<0.062
Indeno (1,2,3-cd) Pyrene	<50	--	--	<0.2	--	<2	--	<0.064	0.76	<0.13	<0.062	<0.062
Naphthalene	<500	--	--	<1	--	<10	--	<0.41	<0.41	<0.82	<0.4	<0.4
Phenanthrene	910	--	--	<0.2	--	<2	--	<0.031	0.47	<0.062	<0.03	<0.03
Pyrene	<120	--	--	0.22	--	0.96 J	--	0.34	0.51	0.41	<0.044	<0.044

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-6					DFOMW-6A					
	8/8/91	7/8/92	3/30/93	7/15/93	5/29/96	10/31/00	10/19/04	4/27/05	10/11/05	4/11/06	10/10/06
VOCs (µg/L)											
Benzene	<12	2	2.3 *	<25	<1.0	<1	<1	<1	0.46 J	0.40 J	0.60 J
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	66	10	46 *	110 *	2.4	3	<1	<1	0.40 J	0.38 J	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	--	--	4.1	<25	<1.0	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<12	<0.9	<1	<25	<1.0	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	--	--	72	380	20	11.7	6.4	<2	<2	2.3	2.14
Xylenes, Total	39	2 *	22 *	41	1.3	<1	<1	<1	<1	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	--	18	--	--	<2	--	6.3	--
2-Methylnaphthalene	--	--	--	--	<10	--	--	<2	--	12	--
Acenaphthene	--	--	<100	<10	11	--	--	<1	--	<1	--
Acenaphthylene	--	--	<100	<10	<10	--	--	7.5	--	4.1	--
Anthracene	--	--	<50	130	<10	--	--	<0.2	--	<0.2	--
Benzo (a) anthracene	--	--	64	9.7	1.9 *	--	--	<0.13	--	<0.13	--
Benzo (a) Pyrene	--	--	<10	10	2.4 *	--	--	<0.2	--	<0.2	--
Benzo (b) Fluoranthene	--	--	22	16	3.8 *	--	--	<0.18	--	<0.18	--
Benzo (g,h,i) perylene	--	--	<10	<1.0	1.5 *	--	--	<0.2	--	<0.2	--
Benzo (k) Fluoranthene	--	--	9.1	3.3	0.63 *	--	--	<0.17	--	<0.17	--
Chrysene	--	--	40	3.7	7.4 *	--	--	<0.2	--	<0.2	--
Dibenzo (a,h) anthracene	--	--	11	5.4	<1.0	--	--	<0.2	--	<0.2	--
Fluoranthene	--	--	<25	8.2	2.7 *	--	--	0.69	--	<0.2	--
Fluorene	--	--	550	170	21	--	--	1.6 PG	--	2	--
Indeno (1,2,3-cd) Pyrene	--	--	<10	14	<1.0	--	--	<0.2	--	<0.2	--
Naphthalene	--	--	<100	260	<10	--	--	<1	--	<1	--
Phenanthrene	--	--	120	230	18 *	--	--	<0.2	--	1.9	--
Pyrene	--	--	110	6	6	--	--	<0.2	--	<0.2	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-6A (continued)					DFOMW-7					
	4/13/07	5/20/08	4/16/09	7/15/09	10/9/09	7/8/92	9/30/92	3/30/93	7/15/93	2/27/96	5/29/96
VOCs (µg/L)											
Benzene	0.50 Ja	0.30 J	<0.25	<0.25	<0.5	<5	1 *	0.81 *	<0.5	--	<1.0
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.44	0.25 J	0.38 J	<0.22	0.46 J	8 *	5 *	0.75 *	<0.5	--	<1.0
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.46	<0.23	<0.23	<0.23	<0.46	--	<0.5	0.81 *	<0.5	--	<1.0
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<0.22	<0.11	<0.25	<0.25	<0.5	<5	0.8 *	0.57 *	<0.5	--	<1.0
Trimethylbenzenes, Total	0.72	0.78	2.32	1.3	6.6	--	21	15.5	61	--	<2
Xylenes, Total	<0.78	0.41 J	0.42 J	<0.39	<0.78	<5 *	4 *	0.86 *	33 *	--	<1.0
SVOCs (µg/L)											
1-Methylnaphthalene	3.7	4.8	8.4	9.3	45	--	--	--	--	160	<2.0
2-Methylnaphthalene	7.3	8	6.3	7.6	28	--	--	--	--	240	<2.0
Acenaphthene	0.59 Ja	0.60 J	0.64 J	0.96 J	3	--	--	<4.0	<16	<10	<1.0
Acenaphthylene	<0.71	<0.71	<0.71	<0.7	<0.72	--	--	<4.0	58	<10	<1.0
Anthracene	0.31	0.17	0.44	0.36	3.6	--	--	3.1	260	<10	<1.0
Benzo (a) anthracene	0.69	0.21	0.66	<0.045	18	--	--	4.4	21	4.5 *	<0.13
Benzo (a) Pyrene	0.047 Ja	<0.033	0.12 J	<0.033	1.6	--	--	2.2	26	3.4 *	<0.20
Benzo (b) Fluoranthene	<0.1	<0.1	0.23 J	<0.1	3.3	--	--	1.5	41	5.2	<0.18
Benzo (g,h,i) perylene	<0.12	<0.12	0.12 J	<0.12	1.1	--	--	0.73	1.8	4.4 *	<0.20
Benzo (k) Fluoranthene	<0.051	<0.051	0.051 J	<0.05	0.74	--	--	0.51	8.3	0.93 *	<0.17
Chrysene	0.14 Ja	0.071 J	1	<0.042	21	--	--	2.7	11	24	<0.20
Dibenzo (a,h) anthracene	<0.13	<0.13	<0.13	<0.13	0.67	--	--	0.62	19	<1.0	<0.20
Fluoranthene	1.8	1.1	2	3.1	25	--	--	1.6	15	<5.0	<0.20
Fluorene	2.6	2.3	2.7	2	12	--	--	<2.0	220	45	<1.0
Indeno (1,2,3-cd) Pyrene	<0.064	<0.064	0.070 J	<0.063	<0.065	--	--	<0.40	36	1.9 *	<0.20
Naphthalene	4.1	<0.41	2.3	4.4	8.4	--	--	65	130	34	<1.0
Phenanthrene	1.1	1.3	1.8	2.2	--	--	--	3.6	350	64	<1.0
Pyrene	0.28	0.10 J	5.2	2.1	16	--	--	8	21	9.7 *	<0.20

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-7 (continued)											
	Sample Date	9/17/96	4/7/98	10/28/98	4/6/99	3/28/00	10/31/00	4/30/02	10/19/04	4/27/05	10/11/05	4/11/06
VOCs (µg/L)												
Benzene	--	--	<1	--	--	<1	--	<1	<1	0.38 J	0.66 J	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	<1	--	--	<1	--	<1	<1	<1	0.62 J	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	--	--	<1	--	--	<1	--	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	<1	--	--	<1	--	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	--	--	<2	--	--	5.5	--	<2	<2	1.5	3.9	<2
Xylenes, Total	--	--	<1	--	--	<1	--	<1	<1	<1	<1	<1
SVOCs (µg/L)												
1-Methylnaphthalene	<2.0	<6	--	<200	<200	--	<100	--	4.6 PG	--	5.1	--
2-Methylnaphthalene	<2.0	<6	--	<200	<200	--	<100	--	<2	--	11	--
Acenaphthene	<1.0	<900	--	<100	<100	--	<50	--	<1	--	<1	--
Acenaphthylene	<1.0	<900	--	<100	<100	--	<50	--	2.8	--	1.9	--
Anthracene	<1.0	<180	--	<20	<200	--	<10	--	<0.2	--	<0.2	--
Benzo (a) anthracene	<0.13	120	--	22	59	--	12	--	<0.13	--	<0.13	--
Benzo (a) Pyrene	<0.20	<180	--	<20	32	--	<10	--	<0.2	--	<0.2	--
Benzo (b) Fluoranthene	<0.18	<160	--	<18	<10	--	<9	--	<0.18	--	<0.18	--
Benzo (g,h,i) perylene	<0.20	<180	--	<20	12 PG	--	<10	--	<0.2	--	<0.2	--
Benzo (k) Fluoranthene	<0.17	<150	--	<17	<10	--	<8.5	--	<0.17	--	<0.17	--
Chrysene	0.36 PD	540	--	<20	40	--	<10	--	<0.2	--	<0.2	--
Dibenzo (a,h) anthracene	<0.20	<180	--	<20	<10	--	<10	--	<0.2	--	<0.2	--
Fluoranthene	<0.20	<180	--	100	<10	--	41 PG	--	<0.2	--	<0.2	--
Fluorene	<1.0	250	--	<20	<100	--	<10	--	<0.2	--	1.4	--
Indeno (1,2,3-cd) Pyrene	<0.20	<180	--	<20	<10	--	<10	--	<0.2	--	<0.2	--
Naphthalene	<1.0	<900	--	<100	<200	--	<50	--	<1	--	<1	--
Phenanthrene	<1.0	510	--	<20	<100	--	<10	--	<0.2	--	0.22 PG	--
Pyrene	0.66 PD	1,900	--	420	62 PG	--	19 PG	--	<0.2	--	2.1	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-7 (continued)					DFOMW-8					
	4/13/07	5/20/08	4/16/09	7/15/09	10/9/09	8/8/91	2/3/92	7/8/92	9/30/92	12/15/92	3/30/93
VOCs (µg/L)											
Benzene	<0.25	<0.25	<0.25	<0.25	<0.25	4.7	5.2	10	<10	4 *	5.2 *
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.22	<0.22	<0.22	<0.22	<0.22	61	44	61	<10	23 *	33
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.23	<0.23	<0.23	<0.23	0.46 J	--	--	--	<10	<0.5	2.8 *
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<0.11	0.17 J	<0.25	<0.25	<0.25	<2.5	<2.5	<5	<10	0.8	<0.5
Trimethylbenzenes, Total	<0.44	<0.44	<0.44	<0.44	<0.44	--	--	--	36 *	27	25.4
Xylenes, Total	<0.39	<0.39	<0.39	<0.39	<0.39	3.5	5	8 *	<10	6 *	1.3 *
SVOCs (µg/L)											
1-Methylnaphthalene	<0.66 RL1	<1.7	<0.32	<0.33	<0.32	--	--	--	--	--	--
2-Methylnaphthalene	<0.64 RL1	<1.6	<0.31	<0.32	<0.31	--	--	--	--	--	--
Acenaphthene	<0.68 RL1	<1.7	<0.33	<0.34	<0.33	--	--	--	--	--	2.1
Acenaphthylene	<1.4 RL1	<3.6	<0.7	<0.7	<0.69	--	--	--	--	--	2.7
Anthracene	<0.078 RL1	<0.2	<0.038	0.055 J	<0.038	--	--	--	--	--	<1.0
Benzo (a) anthracene	<0.091 RL1	2.5	<0.044	0.22	0.34	--	--	--	--	--	<0.13
Benzo (a) Pyrene	<0.066 RL1	2	<0.032	0.38	0.69	--	--	--	--	--	<0.20
Benzo (b) Fluoranthene	<0.2 RL1	<0.52	<0.099	0.20 J	0.41	--	--	--	--	--	<0.18
Benzo (g,h,i) perylene	<0.25 RL1	<0.63	<0.12	<0.12	0.13 J	--	--	--	--	--	<0.20
Benzo (k) Fluoranthene	<0.1 RL1	1.8	<0.049	0.15	0.24	--	--	--	--	--	<0.17
Chrysene	<0.085 RL1	1.6	4.3	0.095 J	0.4	--	--	--	--	--	<0.20
Dibenzo (a,h) anthracene	<0.27 RL1	<0.68	<0.13	<0.13	<0.13	--	--	--	--	--	<0.20
Fluoranthene	<0.17 RL1	0.64 J	<0.082	0.17 J	0.51	--	--	--	--	--	<0.50
Fluorene	<0.13 RL1	<0.33	0.59 J	0.16 J	0.5	--	--	--	--	--	<1.0
Indeno (1,2,3-cd) Pyrene	<0.13 RL1	<0.33	<0.063	0.11 J	<0.062	--	--	--	--	--	<0.20
Naphthalene	<0.82 RL1	<2.1	<0.4	<0.41	0.89 J	--	--	--	--	--	4.4
Phenanthrene	<0.062 RL1	0.23 J	0.16	0.24	0.28	--	--	--	--	--	1.3
Pyrene	<0.091 RL1	1.6	2.1	1.2	0.98	--	--	--	--	--	0.81

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-8 (continued)											
	7/14/93	11/18/93	3/23/94	9/9/97	4/6/98	10/28/98	4/6/99	10/19/99	10/22/03	4/14/04	10/19/04	4/26/05
VOCs (µg/L)												
Benzene	5	3.8	3.5	2.5	16	2.4	2	3	1.5	1.1	1.3	1
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	32 *	36	12	23	150	7.2	12	18	34	7.6	13	24
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<5.0	<0.50	<1.0	<1.6	<5	<1	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<5.0	<0.50	1	<2.0	<5	<1	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	32.1	<0.5	6.4	<5.1	37	6.6	23	4.8	3.4	4.8	2.5	2.6
Xylenes, Total	11 *	0.77	<3.0 *	<2.3	28	1.5	2.1	2.2	3.6	2.5	<1	1.7
SVOCs (µg/L)												
1-Methylnaphthalene	--	--	--	--	<20	--	100	--	--	35 PG	--	<4
2-Methylnaphthalene	--	--	--	--	<20	--	<100	--	--	<4	--	<4
Acenaphthene	<2.0	<2.0	<2.0	--	<10	--	<50	--	--	<2	--	<2
Acenaphthylene	<2.0	<2.0	<2.0	--	<10	--	<50	--	--	<2	--	7.5
Anthracene	1.8	<1.0	4	--	<2	--	<10	--	--	<0.4	--	<0.4
Benzo (a) anthracene	<0.13	0.24	0.16	--	<1.3	--	9.4	--	--	1.8	--	<0.26
Benzo (a) Pyrene	<0.20	0.27	0.2	--	<2	--	<10	--	--	0.51 PG	--	<0.4
Benzo (b) Fluoranthene	<0.18	0.5	0.22	--	<1.8	--	<9	--	--	<0.36	--	<0.36
Benzo (g,h,i) perylene	<0.20	0.45	<0.20	--	<2	--	<10	--	--	2.6	--	<0.4
Benzo (k) Fluoranthene	<0.17	<0.17	<0.17	--	<1.7	--	<8.5	--	--	1.6 PG	--	<0.34
Chrysene	<0.20	1.7	1.3	--	5.7	--	12	--	--	2.2 PG	--	<0.4
Dibenzo (a,h) anthracene	<0.20	<0.20	<0.20	--	<2	--	<10	--	--	<0.4	--	<0.4
Fluoranthene	<0.50	<0.50	<0.50	--	<2	--	<10	--	--	5.7 PG	--	<0.4
Fluorene	4	7.2	4.6	--	7.1	--	<10	--	--	4.9 PG	--	0.75
Indeno (1,2,3-cd) Pyrene	<0.20	0.23	<0.20	--	<2	--	<10	--	--	<0.4	--	<0.4
Naphthalene	7.6	12	<2.0	--	14	--	<50	--	--	2.3 PG	--	<2
Phenanthrene	<1.0	6.5	3.5	--	8	--	<10	--	--	2	--	<0.4
Pyrene	<0.50	0.74	0.72	--	21	--	110	--	--	<0.4	--	<0.4

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-8 (continued)								DFOMW-9		
	10/11/05	4/11/06	4/12/07	4/22/08	1/29/09	4/16/09	7/15/09	10/9/09	8/8/91	2/3/92	7/8/92
VOCs (µg/L)											
Benzene	1.8	1.6	1.5	0.92	1.3	1.2	1.2	1.2	<2.5	<2.5	0.6 *
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	21	15	15	12	14	11	12	7.9	<2.5	<2.5	<0.5
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	--	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<0.11	<0.11	<0.25	<0.25	<0.25	<0.25	<2.5	<2.5	<0.5
Trimethylbenzenes, Total	2.4	4.6	4.02	3.8	1	2.1	3.5	2.7	--	--	--
Xylenes, Total	1.5	2.2	1.0 Ja	1.8	0.89 J	1.0 J	2.1	1.2 J	3.4	<2.5	0.6 *
SVOCs (µg/L)											
1-Methylnaphthalene	--	<2	18	4.3	9	2.9	5.4	8.7	--	--	--
2-Methylnaphthalene	--	<2	18	14	13	9.6	16	15	--	--	--
Acenaphthene	--	<1	3.1	2.7	2.4	1.7 J	2	2.0 J	--	--	--
Acenaphthylene	--	<1	<0.7	<0.7	<0.72	<1.4	<0.69	<1.4	--	--	--
Anthracene	--	<0.2	2.2	<0.039	0.46	<0.078	1.2	1.2	--	--	--
Benzo (a) anthracene	--	<0.13	5.8	3.1	1.1	1.8	1.6	5.8	--	--	--
Benzo (a) Pyrene	--	<0.2	0.27	0.24	0.21	<0.065	0.84	0.68	--	--	--
Benzo (b) Fluoranthene	--	<0.18	1.5	0.49	0.21 J	<0.2	1.3	1.1	--	--	--
Benzo (g,h,i) perylene	--	<0.2	0.71	<0.12	0.17 J	<0.24	0.55	0.52	--	--	--
Benzo (k) Fluoranthene	--	<0.17	0.37	0.29	0.13 J	<0.1	0.94	0.29	--	--	--
Chrysene	--	<0.2	1.4	0.47	0.43	3.5	0.79	6.9	--	--	--
Dibenzo (a,h) anthracene	--	<0.2	0.42 Ja	<0.13	<0.14	<0.27	0.19 J	<0.26	--	--	--
Fluoranthene	--	<0.2	8.1	2.4	2.7	<0.17	3.5	3.7	--	--	--
Fluorene	--	1.7	9.1	6	4.7	3.8	5.7	6.5	--	--	--
Indeno (1,2,3-cd) Pyrene	--	<0.2	0.65	<0.063	0.21	<0.13	0.29	0.15 J	--	--	--
Naphthalene	--	<1	27	<0.41	<0.42	17	23	22	--	--	--
Phenanthrene	--	<0.2	6.7	1.2	0.33	1	2.5	4.4	--	--	--
Pyrene	--	0.72 PG	11	3.2	0.66	0.41	14	15	--	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-9 (continued)										
	9/30/92	12/15/92	3/30/93	7/14/93	11/18/93	11/18/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95
VOCs (µg/L)											
Benzene	2	<0.5	<0.5	<0.5	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	0.66 *	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<1.0	<0.5	<0.50	<0.50	<0.50
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	0.9	<0.5	<0.5	<0.5	<0.50	<0.50	<1.0	0.6	<0.50	<0.50	<0.50
Trimethylbenzenes, Total	<1	<1	<1	16	<1	<1	<2	<1	<1	<1	<1
Xylenes, Total	4	<0.5	<0.5	12 *	1.3	<0.50	<3.0	<0.5	<0.50	<0.50	<0.50
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	--	--	--	--	<2.0	<2.0	<10	<10
2-Methylnaphthalene	--	--	--	--	--	--	--	<2.0	<2.0	<10	<10
Acenaphthene	--	--	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0
Acenaphthylene	--	--	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0
Anthracene	--	--	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo (a) anthracene	--	--	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13
Benzo (a) Pyrene	--	--	<0.20	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo (b) Fluoranthene	--	--	<0.18	<0.18	<0.18	--	<0.18	<0.18	<0.18	<0.18	<0.18
Benzo (g,h,i) perylene	--	--	<0.20	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo (k) Fluoranthene	--	--	<0.17	<0.17	<0.17	--	<0.17	<0.17	<0.17	<0.17	<0.17
Chrysene	--	--	<0.20	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenzo (a,h) anthracene	--	--	<0.20	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Fluoranthene	--	--	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50
Fluorene	--	--	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0
Indeno (1,2,3-cd) Pyrene	--	--	<0.20	<0.20	<0.20	--	<0.20	<0.20	<0.20	<0.20	<0.20
Naphthalene	--	--	<2.0	<2.0	<2.0	--	<2.0	<2.0	<2.0	<2.0	<2.0
Phenanthrene	--	--	<1.0	<1.0	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	--	--	<0.50	<0.50	<0.50	--	<0.50	<0.50	<0.50	<0.50	<0.50

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-9 (continued)										
	11/15/95	5/29/96	9/17/96	4/1/97	9/9/97	4/6/98	10/28/98	4/6/99	10/19/99	3/28/00	10/31/00
VOCs (µg/L)											
Benzene	<1.0	<1.0	<1.0	<1.0	<0.13	<1	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<0.22	<1	<1	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1.0	<1.0	<1.0	<1.0	<0.16	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<0.20	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	<2	<2	<2	17.5	<0.51	<2	<2	<2	<2	<2	<2
Xylenes, Total	<1.0	<1.0	<1.0	4.6	<0.23	<1	<1	<1	<1	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	<2.0	<2.0	<10	--	--	<2	--	<2	--	<2	--
2-Methylnaphthalene	<2.0	<2.0	<10	--	--	<2	--	<2	--	<2	--
Acenaphthene	<2.0	<1.0	<10	--	--	<5	--	<1	--	<1	--
Acenaphthylene	<2.0	<1.0	<10	--	--	<5	--	<1	--	<1	--
Anthracene	<1.0	<1.0	<10	--	--	<1	--	<0.2	--	<2	--
Benzo (a) anthracene	<0.13	<0.13	<1.0	--	--	<0.65	--	<0.13	--	<0.13	--
Benzo (a) Pyrene	<0.20	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--
Benzo (b) Fluoranthene	<0.18	<0.18	<1.0	--	--	<0.9	--	<0.18	--	<0.18	--
Benzo (g,h,i) perylene	<0.20	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--
Benzo (k) Fluoranthene	<0.17	<0.17	<0.50	--	--	<0.85	--	<0.17	--	<0.17	--
Chrysene	<0.20	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--
Dibenzo (a,h) anthracene	<0.20	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--
Fluoranthene	<0.50	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--
Fluorene	<1.0	<1.0	<10	--	--	<1	--	<0.2	--	<1	--
Indeno (1,2,3-cd) Pyrene	<0.20	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--
Naphthalene	<2.0	<1.0	<10	--	--	<5	--	<1	--	<2	--
Phenanthrene	<1.0	<1.0	<10	--	--	<1	--	<0.2	--	<1	--
Pyrene	<0.50	<0.20	<1.0	--	--	<1	--	<0.2	--	<0.2	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-9 (continued)										
	4/24/01	10/30/01	4/30/02	10/16/02	4/29/03	10/22/03	4/14/04	10/19/04	4/26/05	10/11/05	10/10/06
VOCs (µg/L)											
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	<2	--	<2	--	<2	--	<2	--	<20	--	--
2-Methylnaphthalene	<2	--	<2	--	<2	--	<2	--	<20	--	--
Acenaphthene	<1	--	<1	--	<1	--	<1	--	<10	--	--
Acenaphthylene	<1	--	<1	--	<1	--	<1	--	<10	--	--
Anthracene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Benzo (a) anthracene	<0.13	--	<0.13	--	<0.13	--	<0.13	--	<1.3	--	--
Benzo (a) Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Benzo (b) Fluoranthene	<0.18	--	<0.18	--	<0.18	--	<0.18	--	<1.8	--	--
Benzo (g,h,i) perylene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Benzo (k) Fluoranthene	<0.17	--	<0.17	--	<0.17	--	<0.17	--	<1.7	--	--
Chrysene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Dibenzo (a,h) anthracene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Fluoranthene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Fluorene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Indeno (1,2,3-cd) Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Naphthalene	<1	--	<1	--	<1	--	<1	--	<10	--	--
Phenanthrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--
Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<2	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-9 (continued)						DFOMW-9A	DFOMW-10		
	4/12/07	4/22/08	1/29/09	4/16/09	7/15/09	10/9/09	4/11/06	8/8/91	2/3/92	7/8/92
VOCs (µg/L)										
Benzene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<1	<12	<0.5	<0.5
Chloroform	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<1	66	0.98	0.7 *
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<1	--	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--
Toluene	<0.11	<0.11	<0.25	<0.25	<0.25	<0.25	<1	<12	<0.5	<0.5
Trimethylbenzenes, Total	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<2	--	--	--
Xylenes, Total	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	1.3	<12	<0.5	1.0 *
SVOCs (µg/L)										
1-Methylnaphthalene	<0.33	<0.33	<0.33	<0.33	<0.33	<0.82	<2	--	--	--
2-Methylnaphthalene	<0.32	<0.32	<0.32	<0.32	<0.32	<0.79	<2	--	--	--
Acenaphthene	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<1	--	--	--
Acenaphthylene	<0.72	<0.7	<0.71	<0.7	<0.71	<1.8	<1	--	--	--
Anthracene	<0.04	<0.039	<0.039	<0.039	<0.039	<0.097	<0.2	--	--	--
Benzo (a) anthracene	<0.046	<0.045	<0.045	<0.045	<0.045	<0.11	<0.13	--	--	--
Benzo (a) Pyrene	<0.033	<0.033	<0.033	<0.033	<0.033	<0.082	<0.2	--	--	--
Benzo (b) Fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.25	<0.18	--	--	--
Benzo (g,h,i) perylene	<0.12	<0.12	<0.12	<0.12	<0.12	<0.31	<0.2	--	--	--
Benzo (k) Fluoranthene	<0.051	<0.05	<0.051	<0.05	<0.051	<0.13	<0.17	--	--	--
Chrysene	<0.043	<0.042	<0.042	<0.042	<0.042	<0.11	<0.2	--	--	--
Dibenzo (a,h) anthracene	<0.14	<0.13	<0.13	<0.13	<0.13	<0.33	<0.2	--	--	--
Fluoranthene	<0.084	<0.083	<0.084	<0.083	<0.084	<0.21	<0.2	--	--	--
Fluorene	<0.065	<0.063	<0.064	<0.063	<0.064	<0.16	<0.2	--	--	--
Indeno (1,2,3-cd) Pyrene	<0.065	<0.063	<0.064	<0.063	<0.064	<0.16	<0.2	--	--	--
Naphthalene	<0.42	<0.41	<0.41	<0.41	<0.41	<1	<1	--	--	--
Phenanthrene	<0.031	0.087 J	<0.031	<0.031	<0.031	<0.077	<0.2	--	--	--
Pyrene	<0.046	<0.045	<0.045	<0.045	<0.045	<0.11	<0.2	--	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-10 (continued)										
	9/30/92	12/15/92	3/30/93	7/15/93	11/18/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95	8/23/95
VOCs (µg/L)											
Benzene	2	3 *	3.7 *	<0.5	<2.5	<1.0	1.2	1.1	<0.50	<0.50	<1.0
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<2	4 *	7.7 *	<0.5	5.9	1.1	3.3	10	2.7	0.62	12
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<2	<0.5	13 *	<0.5	<2.5	<1.0	<0.50	1.3	<0.50	<0.50	<1.0
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<2	<0.5	0.69 *	<0.5	2.5	<1.0	<0.5	1.1	<0.50	<0.50	<1.0
Trimethylbenzenes, Total	13	12	13.6	22.5	5.1	5.3	11.9	30.9	<1	3.17	31.8
Xylenes, Total	14 *	33 *	47 *	<0.5	23	7.5	24	54	18	4.4	81
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	--	--	--	<2.0	<2.0	<10	<10	--
2-Methylnaphthalene	--	--	--	--	--	--	<2.0	<2.0	<10	<10	--
Acenaphthene	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
Acenaphthylene	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
Anthracene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Benzo (a) anthracene	--	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	--
Benzo (a) Pyrene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Benzo (b) Fluoranthene	--	--	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	--
Benzo (g,h,i) perylene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Benzo (k) Fluoranthene	--	--	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	--
Chrysene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Dibenzo (a,h) anthracene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Fluoranthene	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
Fluorene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	--
Indeno (1,2,3-cd) Pyrene	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	--
Naphthalene	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--
Phenanthrene	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Pyrene	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-10 (continued)									DFOMW-10A	
	11/15/95	5/29/96	9/17/96	4/1/97	9/9/97	4/6/98	10/28/98	4/6/99	10/19/99	4/14/04	10/19/04
VOCs (µg/L)											
Benzene	19	16	240 *	<50	14	6.1	<5	5.6	27	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	76	40	860 *	94	69	25	25	33	77	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<2.5	<10	<50	<50	<0.32	<5	<5	<5	<5	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<2.5	<10	260 *	<50	2.2	<5	<5	<5	<5	<1	<1
Trimethylbenzenes, Total	39.9	122	760	272	187	78	66	96	146	4.3	5.2
Xylenes, Total	270	370	2,600 *	610	400	150	110	110	380	<1	1.4
SVOCs (µg/L)											
1-Methylnaphthalene	<2.0	--	--	--	--	<2	--	<2	--	<2	--
2-Methylnaphthalene	<2.0	--	--	--	--	<2	--	6.3	--	<2	--
Acenaphthene	<2.0	--	--	--	--	<1	--	<1	--	<1	--
Acenaphthylene	<2.0	--	--	--	--	<1	--	<1	--	<1	--
Anthracene	<1.0	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Benzo (a) anthracene	<0.13	--	--	--	--	<0.13	--	<0.13	--	<0.13	--
Benzo (a) Pyrene	<0.20	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Benzo (b) Fluoranthene	<0.18	--	--	--	--	<0.18	--	<0.18	--	<0.18	--
Benzo (g,h,i) perylene	<0.20	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Benzo (k) Fluoranthene	<0.17	--	--	--	--	<0.17	--	<0.17	--	<0.17	--
Chrysene	<0.20	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Dibenzo (a,h) anthracene	<0.20	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Fluoranthene	<0.50	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Fluorene	<1.0	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Indeno (1,2,3-cd) Pyrene	<0.20	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Naphthalene	<2.0	--	--	--	--	3.7	--	<1	--	<1	--
Phenanthrene	<1.0	--	--	--	--	<0.2	--	<0.2	--	<0.2	--
Pyrene	<0.50	--	--	--	--	<0.2	--	<0.2	--	<0.2	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-10A (continued)											
	Sample Date	4/26/05	10/11/05	4/11/06	4/11/06	10/10/06	4/12/07	4/22/08	1/29/09	4/16/09	7/15/09	10/9/09
VOCs (µg/L)												
Benzene	<1	<1	<1	--	<1	<1.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	--	<1	8	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	--	<1	<1.2	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	--	<1	<0.55	<0.11	<0.25	<0.25	<0.25	<0.25	<0.25
Trimethylbenzenes, Total	47	33.3	1.6	--	<2	298	3	19	<0.44	6.3	11.2	
Xylenes, Total	1.1	0.77 J	<1	--	<1	21	0.60 J	4.4	<0.39	3.6	7.3	
SVOCs (µg/L)												
1-Methylnaphthalene	<400	--	<2	<2	--	2.4	<0.33	<0.32	<0.33	<0.33	<0.33	<0.32
2-Methylnaphthalene	<400	--	<2	<2	--	3.6	<0.32	<0.31	<0.32	<0.32	<0.32	<0.31
Acenaphthene	<200	--	<1	<1	--	<0.34	<0.34	<0.33	<0.34	<0.34	<0.34	<0.33
Acenaphthylene	<200	--	<1	<1	--	<0.7	<0.72	<0.69	<0.7	<0.7	<0.7	<0.69
Anthracene	<40	--	<0.2	<0.2	--	<0.039	0.051 J	<0.038	0.048 J	<0.039	<0.038	<0.038
Benzo (a) anthracene	<26	--	<0.13	0.024 J	--	<0.045	<0.046	<0.044	0.38	0.2	<0.044	<0.044
Benzo (a) Pyrene	<40	--	<0.2	0.027 J	--	<0.033	<0.033	<0.032	0.27	0.45	<0.032	<0.032
Benzo (b) Fluoranthene	<36	--	<0.18	<0.18	--	<0.1	<0.1	<0.098	0.83	0.8	<0.098	<0.098
Benzo (g,h,i) perylene	<40	--	<0.2	<0.2	--	<0.12	<0.12	<0.12	0.45	0.69	<0.12	<0.12
Benzo (k) Fluoranthene	<34	--	<0.17	<0.17	--	<0.05	<0.051	<0.049	0.27	0.29	<0.049	<0.049
Chrysene	<40	--	<0.2	<0.2	--	<0.042	<0.043	<0.041	1.1	0.31	<0.041	<0.041
Dibenzo (a,h) anthracene	<40	--	<0.2	<0.2	--	<0.13	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13
Fluoranthene	<40	--	<0.2	0.037 J	--	<0.083	0.25 J	<0.081	2.5	1.1	<0.081	<0.081
Fluorene	<40	--	<0.2	<0.2	--	<0.063	<0.065	<0.062	<0.063	<0.063	<0.062	<0.062
Indeno (1,2,3-cd) Pyrene	<40	--	<0.2	<0.2	--	<0.063	<0.065	<0.062	<0.063	0.41	<0.062	<0.062
Naphthalene	<200	--	<1	<1	--	200	<0.42	<0.4	<0.41	<0.41	<0.4	<0.4
Phenanthrene	<40	--	<0.2	0.058 J	--	0.18	0.12 J	<0.03	0.23	0.34	<0.03	<0.03
Pyrene	<40	--	<0.2	0.13 J	--	<0.045	0.18	<0.044	1.3	1.6	<0.044	<0.044

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-11												
	Sample Date	11/18/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95	8/24/95	11/15/95	5/29/96	9/17/96	4/1/97	9/9/97
VOCs (µg/L)													
Benzene	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	0.96	--	<1.0	<1.0	<1.0	<1.0	0.82
Chloroform	--	--	--	--	--	--	--	--	--	--	--	2.5	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	3	--
Ethylbenzene	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	--	<1.0	<1.0	<1.0	<1.0	1.5
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	<1.0	--
Methyl tert-Butyl Ether	<0.50	<1.0	<0.5	<0.50	<0.50	<0.50	<0.50	--	<1.0	<1.0	<1.0	<1.0	<0.16
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	30	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	<1.0	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	<1.0	--
Toluene	<0.50	<1.0	0.58	<0.50	<0.50	<0.50	<0.50	--	<1.0	<1.0	<1.0	<1.0	0.33
Trimethylbenzenes, Total	<1	<2	<1	<0.5	<1	<1	<1	--	<2	<2	3.4 *	<2	50.3
Xylenes, Total	0.68 *	<3.0	<0.50	<0.50	0.75	<0.50	<0.50	--	<1.0	<1.0	<1.0	<1.0	30
SVOCs (µg/L)													
1-Methylnaphthalene	--	--	<2.0	<2.0	<10	<10	--	<2.0	--	<10	--	--	--
2-Methylnaphthalene	--	--	<2.0	<2.0	<10	<10	--	<2.0	--	<10	--	--	--
Acenaphthene	<2.0	<2.0	<2.0	<2.0	<2.0	<10	--	<2.0	--	<10	--	--	--
Acenaphthylene	<2.0	<2.0	<2.0	2.7	<2.0	18	--	<2.0	--	<10	--	--	--
Anthracene	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--	<1.0	--	<10	--	--	--
Benzo (a) anthracene	<0.13	<0.13	<0.13	<0.13	<0.13	<1.0	--	<0.13	--	<1.0	--	--	--
Benzo (a) Pyrene	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	--	<0.20	--	<1.0	--	--	--
Benzo (b) Fluoranthene	<0.18	<0.18	<0.18	<0.18	<0.18	<1.0	--	<0.18	--	<1.0	--	--	--
Benzo (g,h,i) perylene	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	--	<0.20	--	<1.0	--	--	--
Benzo (k) Fluoranthene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.50	--	<0.17	--	<0.50	--	--	--
Chrysene	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	--	<0.20	--	<1.0	--	--	--
Dibenzo (a,h) anthracene	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	--	<0.20	--	<1.0	--	--	--
Fluoranthene	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	<1.0	--	--	--
Fluorene	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--	<1.0	--	<10	--	--	--
Indeno (1,2,3-cd) Pyrene	<0.20	<0.20	<0.20	<0.20	<0.20	<1.0	--	<0.20	--	<1.0	--	--	--
Naphthalene	<2.0	<2.0	<2.0	2.9	7.4	47	--	<2.0	--	11	--	--	--
Phenanthrene	<1.0	<1.0	<1.0	<1.0	<1.0	<10	--	<1.0	--	<10	--	--	--
Pyrene	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	<1.0	--	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-11 (continued)										
	4/6/98	10/28/98	4/6/99	10/19/99	3/28/00	10/31/00	4/24/01	10/30/01	4/30/02	10/16/02	4/29/03
VOCs (µg/L)											
Benzene	<1	<1	<1	<1	<1	<1	<1	<2.5	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<2.5	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<1	<2.5	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<1	<2.5	<1	<1	<1
Trimethylbenzenes, Total	2.9	12	18	1.6	<2	45	<2	110	<2	<2	<2
Xylenes, Total	1	3	3.5	<1	<1	13	<1	10	<1	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	<2	--	<40	--	<10	--	<2	--	<2	--	<2
2-Methylnaphthalene	<2	--	<40	--	<10	--	<2	--	<2	--	<2
Acenaphthene	<20	--	<20	--	<5	--	<1	--	<1	--	<1
Acenaphthylene	<20	--	<20	--	<5	--	<1	--	<1	--	<1
Anthracene	<4	--	<4	--	<10	--	<0.2	--	<0.2	--	<0.2
Benzo (a) anthracene	<2.6	--	<2.6	--	<0.5	--	<0.13	--	<0.13	--	<0.13
Benzo (a) Pyrene	<4	--	<4	--	<0.5	--	<0.2	--	<0.2	--	<0.2
Benzo (b) Fluoranthene	<3.6	--	<3.6	--	<0.5	--	<0.18	--	<0.18	--	<0.18
Benzo (g,h,i) perylene	<4	--	<4	--	<0.5	--	<0.2	--	<0.2	--	<0.2
Benzo (k) Fluoranthene	<3.4	--	<3.4	--	<0.5	--	<0.17	--	<0.17	--	<0.17
Chrysene	<4	--	<4	--	<0.5	--	<0.2	--	<0.2	--	<0.2
Dibenzo (a,h) anthracene	<4	--	<4	--	<0.5	--	<0.2	--	<0.2	--	<0.2
Fluoranthene	<4	--	<4	--	<0.5	--	<0.2	--	<0.2	--	<0.2
Fluorene	<4	--	<4	--	<5	--	<0.2	--	<0.2	--	<0.2
Indeno (1,2,3-cd) Pyrene	<4	--	<4	--	<0.5	--	<0.2	--	<0.2	--	<0.2
Naphthalene	<20	--	<20	--	<10	--	<1	--	<1	--	<1
Phenanthrene	<4	--	<4	--	<5	--	<0.2	--	<0.2	--	<0.2
Pyrene	<4	--	<4	--	<1	--	<0.2	--	<0.2	--	<0.2

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-11 (continued)									DFOMW-12	
	10/22/03	4/14/04	4/26/05	4/11/06	4/12/07	4/22/08	4/16/09	7/15/09	10/9/09	4/1/97	6/3/97
VOCs (µg/L)											
Benzene	<1	<1	<1	<1	<0.5	<0.25	<0.25	<0.25 Q2	<0.25	<50	<20
Chloroform	--	--	--	--	--	--	--	--	--	<50	<20
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	<50	<20
Ethylbenzene	<1	<1	<1	<1	<0.44	<0.22	<0.22	<0.22 Q2	<0.22	<50	<20
Isopropylbenzene	--	--	--	--	--	--	--	--	--	<50	33
Methyl tert-Butyl Ether	<1	<1	<1	<1	<0.46	<0.23	<0.23	<0.23 Q2	<0.23	<50	<20
Naphthalene	--	--	--	--	--	--	--	--	--	<50	130
n-Propylbenzene	--	--	--	--	--	--	--	--	--	<50	51
Styrene	--	--	--	--	--	--	--	--	--	<50	170 **
Toluene	<1	<1	<1	<1	<0.22	<0.11	<0.25	<0.25 Q2	<0.25	<50	<20
Trimethylbenzenes, Total	<2	<2	<2	2.6	<1.48	<0.44	5.9	22	7.6	1,390	770
Xylenes, Total	<1	<1	<1	1	1.5 Ja	<0.39	2	4.7 Q2	0.84 J	540	210
SVOCs (µg/L)											
1-Methylnaphthalene	--	<2	--	<2	--	<0.33	<0.33	<0.32	<0.33	95	--
2-Methylnaphthalene	--	<2	--	<2	--	<0.32	<0.32	<0.31	<0.32	<10	--
Acenaphthene	--	<1	--	<1	--	<0.34	<0.34	<0.33	<0.34	<10	--
Acenaphthylene	--	<1	--	<1	--	<0.72	<0.7	<0.69	<0.71	39	--
Anthracene	--	<0.2	--	<0.2	--	<0.04	<0.039	<0.038	<0.039	<10	--
Benzo (a) anthracene	--	<0.13	--	<0.13	--	<0.046	<0.045	<0.044	<0.045	<1.0	--
Benzo (a) Pyrene	--	<0.2	--	<0.2	--	<0.033	<0.033	<0.032	<0.033	<1.0	--
Benzo (b) Fluoranthene	--	<0.18	--	<0.18	--	<0.1	<0.1	<0.098	<0.1	<1.0	--
Benzo (g,h,i) perylene	--	<0.2	--	<0.2	--	<0.12	<0.12	<0.12	<0.12	<1.0	--
Benzo (k) Fluoranthene	--	<0.17	--	<0.17	--	<0.051	<0.05	<0.049	<0.051	<0.50	--
Chrysene	--	<0.2	--	<0.2	--	<0.043	<0.042	<0.041	<0.042	<1.0	--
Dibenzo (a,h) anthracene	--	<0.2	--	<0.2	--	<0.14	<0.13	<0.13	<0.13	<1.0	--
Fluoranthene	--	<0.2	--	<0.2	--	<0.084	<0.083	<0.081	<0.084	<1.0	--
Fluorene	--	<0.2	--	<0.2	--	<0.065	<0.063	0.083 J	<0.064	<10	--
Indeno (1,2,3-cd) Pyrene	--	<0.2	--	<0.2	--	<0.065	<0.063	<0.062	<0.064	<1.0	--
Naphthalene	--	<1	--	<1	--	0.83 J	<0.41	4.7	<0.41	100	--
Phenanthrene	--	<0.2	--	<0.2	--	0.11 J	<0.031	<0.03	<0.031	<10	--
Pyrene	--	<0.2	--	<0.2	--	<0.046	<0.045	<0.044	<0.045	<1.0	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DFOMW-12 (continued)										
	9/9/97	4/6/98	10/19/99	3/28/00	10/31/00	4/30/02	4/29/03	10/22/03	4/14/04	10/19/04	4/26/05
VOCs (µg/L)											
Benzene	2.4	<20	<20	<20	<100	<20	<20	<20	<10	<10	<10
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	29	<20	21 *1	24	<100	<20	<20	<20	<10	14	<10
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.80	<20	<20	<20	<100	<20	<20	<20	<10	<10	<10
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	3.2	<20	<20	<20	<100	<20	<20	<20	<10	<10	<10
Trimethylbenzenes, Total	820	1,230	2,540	9,600	2,100	730	920	610	590	835	652
Xylenes, Total	340	210	310 *1	570	140	94	84	75	55	59	18
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	<200
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	<200
Acenaphthene	--	--	--	--	--	--	--	--	--	--	<100
Acenaphthylene	--	--	--	--	--	--	--	--	--	--	<100
Anthracene	--	--	--	--	--	--	--	--	--	--	<20
Benzo (a) anthracene	--	--	--	--	--	--	--	--	--	--	<13
Benzo (a) Pyrene	--	--	--	--	--	--	--	--	--	--	<20
Benzo (b) Fluoranthene	--	--	--	--	--	--	--	--	--	--	<18
Benzo (g,h,i) perylene	--	--	--	--	--	--	--	--	--	--	<20
Benzo (k) Fluoranthene	--	--	--	--	--	--	--	--	--	--	<17
Chrysene	--	--	--	--	--	--	--	--	--	--	<20
Dibenzo (a,h) anthracene	--	--	--	--	--	--	--	--	--	--	<20
Fluoranthene	--	--	--	--	--	--	--	--	--	--	<20
Fluorene	--	--	--	--	--	--	--	--	--	--	<20
Indeno (1,2,3-cd) Pyrene	--	--	--	--	--	--	--	--	--	--	<20
Naphthalene	--	--	--	--	--	--	--	--	--	--	120
Phenanthrene	--	--	--	--	--	--	--	--	--	--	<20
Pyrene	--	--	--	--	--	--	--	--	--	--	<20

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-12								DFOMW-13		
	10/11/05	4/11/06	10/10/06	4/12/07	4/22/08	4/16/09	7/15/09	10/9/09	4/14/04	4/26/05	10/11/05
VOCs (µg/L)											
Benzene	<50	<10	<10	<0.25	0.34 J	<0.25	<0.25	<0.25	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<50	4.0 J	<10	<0.22	5	<0.22	0.87	0.43 J	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<50	<10	<10	<0.23	<0.23	<0.23	<0.23	<0.23	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<50	<10	<10	<0.11	10	<0.25	<0.25	<0.25	<1	<1	<1
Trimethylbenzenes, Total	790	410	212	<0.44	758	21.83	66.2	58	<2	<2	<2
Xylenes, Total	<50	39	<10	<0.39	24	1.2 J	3.7	1.5	<1	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	--	<2	--	<0.32	5.3	<0.82	0.37 J	<0.32	<2	3.5 PG	--
2-Methylnaphthalene	--	<2	--	<0.31	10	<0.79	0.55 J	<0.31	<2	<2	--
Acenaphthene	--	<1	--	<0.33	<0.34	<0.85	<0.34	<0.33	<1	11 PG	--
Acenaphthylene	--	<1	--	<0.7	<0.71	<1.8	<0.7	<0.69	<1	<1	--
Anthracene	--	<0.2	--	<0.038	0.057 J	<0.097	<0.039	<0.038	<0.2	<0.2	--
Benzo (a) anthracene	--	<0.13	--	<0.044	0.17	<0.11	<0.045	<0.044	<0.13	<0.13	--
Benzo (a) Pyrene	--	<0.2	--	<0.032	<0.033	<0.082	<0.033	<0.032	<0.2	<0.2	--
Benzo (b) Fluoranthene	--	<0.18	--	<0.099	<0.1	<0.25	<0.1	<0.098	<0.18	<0.18	--
Benzo (g,h,i) perylene	--	<0.2	--	<0.12	<0.12	<0.31	<0.12	<0.12	0.30 PG	<0.2	--
Benzo (k) Fluoranthene	--	<0.17	--	<0.049	<0.051	<0.13	<0.05	<0.049	<0.17	<0.17	--
Chrysene	--	<0.2	--	<0.041	<0.042	<0.11	<0.042	<0.041	<0.2	<0.2	--
Dibenzo (a,h) anthracene	--	<0.2	--	<0.13	<0.13	<0.33	<0.13	<0.13	<0.2	<0.2	--
Fluoranthene	--	<0.2	--	<0.082	0.62	<0.21	<0.083	<0.081	<0.2	<0.2	--
Fluorene	--	<0.2	--	<0.063	<0.064	<0.16	<0.063	<0.062	<0.2	0.57 PG	--
Indeno (1,2,3-cd) Pyrene	--	<0.2	--	<0.063	<0.064	<0.16	<0.063	<0.062	<0.2	<0.2	--
Naphthalene	--	42 PG	--	<0.4	160	1.0 J	1.3	<0.4	<1	<1	--
Phenanthrene	--	0.21	--	<0.03	0.43	0.19 J	<0.031	<0.03	<0.2	<0.2	--
Pyrene	--	<0.2	--	<0.044	0.19	<0.11	<0.045	<0.044	<0.2	<0.2	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DFOMW-13 (continued)							DSOMW-1			
	4/11/06	10/10/06	4/12/07	4/22/08	4/16/09	7/15/09	10/9/09	6/12/91	10/19/04	4/26/05	10/11/05
VOCs (µg/L)											
Benzene	0.53 J	<1	<0.5	<0.25	0.27 J	0.33 J	0.35 J	4	1.4	<1	1.1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<0.44	<0.22	<0.22	<0.22	<0.22	3	<1	<1	0.60 J
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<0.46	0.53 J	<0.23	<0.23	<0.23	--	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	0.28 Ja	<0.11	0.28 J	0.34 J	<0.25	<5	<1	<1	<1
Trimethylbenzenes, Total	<2	0.26	0.38	<0.44	<0.44	<0.44	0.52	--	<2	<2	<2
Xylenes, Total	<1	<1	<0.78	<0.39	0.62 J	0.78 J	<0.39	13	1.2	<1	<1
SVOCs (µg/L)											
1-Methylnaphthalene	<2	--	<0.33	<0.66	<0.65	<0.32	<0.67	--	--	<2	--
2-Methylnaphthalene	<2	--	<0.32	<0.64	<0.63	3.1	<0.65	--	--	<2	--
Acenaphthene	<1	--	<0.34	<0.68	<0.67	0.57 J	<0.69	--	--	<1	--
Acenaphthylene	<1	--	<0.7	<1.4	<1.4	<0.69	<1.5	--	--	<1	--
Anthracene	<0.2	--	<0.039	<0.078	<0.077	0.17	0.3	--	--	0.46	--
Benzo (a) anthracene	<0.13	--	<0.045	0.4	<0.089	0.24	2.5	--	--	<0.13	--
Benzo (a) Pyrene	<0.2	--	<0.033	<0.066	<0.065	0.12 J	2.9	--	--	<0.2	--
Benzo (b) Fluoranthene	<0.18	--	<0.1	<0.2	<0.2	<0.098	5.1	--	--	<0.18	--
Benzo (g,h,i) perylene	<0.2	--	<0.12	<0.25	<0.24	<0.12	1.9	--	--	<0.2	--
Benzo (k) Fluoranthene	<0.17	--	<0.05	<0.1	<0.099	0.059 J	1.1	--	--	<0.17	--
Chrysene	<0.2	--	<0.042	0.18 J	0.33	0.086 J	0.86	--	--	<0.2	--
Dibenzo (a,h) anthracene	<0.2	--	<0.13	<0.27	<0.26	<0.13	0.58	--	--	<0.2	--
Fluoranthene	<0.2	--	<0.083	0.19 J	<0.16	0.69	2.4	--	--	2.8 PG	--
Fluorene	<0.2	--	<0.063	<0.13	0.98 J	1.7	<0.13	--	--	2.0 PG	--
Indeno (1,2,3-cd) Pyrene	<0.2	--	<0.063	<0.13	<0.13	0.072 J	0.64	--	--	<0.2	--
Naphthalene	<1	--	<0.41	<0.82	<0.81	<0.4	<0.84	--	--	<1	--
Phenanthrene	<0.2	--	<0.031	0.13 J	<0.061	0.42	0.87	--	--	<0.2	--
Pyrene	<0.2	--	<0.045	0.21 J	0.55	1	9.6	--	--	<0.2	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-1 (continued)									DSOMW-2	
	4/11/06	10/10/06	4/12/07	4/22/08	1/29/09	4/16/09	7/15/09	10/9/09	7/15/09	6/12/91	7/11/91
VOCs (µg/L)											
Benzene	0.83 J	0.94 J	<5	1.3	0.41 J	0.70 J	1.1	0.67 J	1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	0.56 J	0.90 J	<4.4	0.95	0.22 J	0.49 J	0.85	0.56 J	0.81	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<4.6	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<2.2	0.19 J	<0.25	<0.25	<0.25	<0.25	<0.25	<5	<5
Trimethylbenzenes, Total	<2	0.28	<8.8	0.68	<0.44	<0.44	0.59	<0.44	0.56	--	--
Xylenes, Total	<1	1.7	<7.8	2	0.46 J	1.1 J	1.8	1.0 J	1.7	<2	<2
SVOCs (µg/L)											
1-Methylnaphthalene	<2	--	1.7	4.1	2.6	<0.32	4.2	3.6	--	--	--
2-Methylnaphthalene	<2	--	1.4	2.5	2.6	<0.31	2.8	3.2	--	--	--
Acenaphthene	<1	--	0.70 Ja	0.97 J	0.82 J	<0.33	0.79 J	0.89 J	--	--	--
Acenaphthylene	4.6	--	<0.71	<0.7	<0.73	<0.7	<0.7	<0.73	--	--	--
Anthracene	0.42	--	0.48	0.59	0.88	0.68	0.75	0.95	--	--	--
Benzo (a) anthracene	<0.13	--	0.84	0.4	0.68	<0.044	0.35	0.29	--	--	--
Benzo (a) Pyrene	<0.2	--	<0.033	0.10 J	<0.034	<0.032	0.16	0.22	--	--	--
Benzo (b) Fluoranthene	<0.18	--	0.25 Ja	<0.1	<0.1	<0.099	0.13 J	0.10 J	--	--	--
Benzo (g,h,i) perylene	<0.2	--	0.14 Ja	<0.12	<0.13	<0.12	0.17 J	<0.13	--	--	--
Benzo (k) Fluoranthene	<0.17	--	0.14 Ja	0.12 J	0.057 J	<0.049	0.26	0.13 J	--	--	--
Chrysene	<0.2	--	0.18	0.16	0.23	1.5	0.23	0.31	--	--	--
Dibenzo (a,h) anthracene	<0.2	--	<0.13	<0.13	<0.14	<0.13	<0.13	<0.14	--	--	--
Fluoranthene	<0.2	--	2.8	2.3	1.2	<0.082	3.1	2.9	--	--	--
Fluorene	1.2	--	1.6	1.7	2	1.3	1.8	3.2	--	--	--
Indeno (1,2,3-cd) Pyrene	<0.2	--	<0.064	<0.063	<0.065	<0.063	0.070 J	<0.066	--	--	--
Naphthalene	<1	--	3.1	<0.41	<0.42	<0.4	7.7	8.2	--	--	--
Phenanthrene	1.2	--	0.73	1.5	2.3	1.1	1.7	2.3	--	--	--
Pyrene	2.1 PG	--	0.77	0.37	0.38	0.25	6.8	1.2	--	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-2 (continued)											
	2/4/92	3/31/93	7/15/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95	8/24/95	2/27/96	5/29/96	9/17/96
VOCs (µg/L)												
Benzene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	12
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	<1.0	<0.5	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	--	1.2 *	<0.5	<1.0	<0.5	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<0.5	<0.5	<0.5	<1.0	0.94	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
Trimethylbenzenes, Total	--	<1	<1	<2	<1	<1	<1	<1	<2	<2	<2	<2
Xylenes, Total	<0.5	1.3 *	<0.5	<3.0	1.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0
SVOCs (µg/L)												
1-Methylnaphthalene	--	--	--	--	<2.0	<2.0	<10	<10	2.5	<10	<10	<20
2-Methylnaphthalene	--	--	--	--	<2.0	<2.0	<10	<10	<2.0	<10	<10	<20
Acenaphthene	--	<2.0	<10.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<10	<10	<20
Acenaphthylene	--	<2.0	<10.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<10	<10	<20
Anthracene	--	2.2	6.6	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<20
Benzo (a) anthracene	--	3.4	<0.65	<0.13	0.24 *	<0.13	<0.13	<1.0	<0.13	<1.0	<1.0	<2.0
Benzo (a) Pyrene	--	<2.0	<1.0	<0.20	0.46 *	<0.20	0.23 *	<1.0	<0.20	<1.0	<1.0	<2.0
Benzo (b) Fluoranthene	--	<1.8	<0.90	<0.18	0.43 *	<0.18	0.23	<1.0	<0.18	<1.0	<1.0	<2.0
Benzo (g,h,i) perylene	--	<2.0	<1.0	<0.20	0.41 *	<0.20	0.67 *	<1.0	<0.20	<1.0	<1.0	<2.0
Benzo (k) Fluoranthene	--	<1.7	<0.85	<0.17	0.18 *	<0.17	<0.17	<0.50	<0.17	<0.50	<0.50	<1.0
Chrysene	--	2.3	1.6	<0.20	0.55	<0.20	<0.20	<1.0	0.26 *	<1.0	<1.0	<2.0
Dibenzo (a,h) anthracene	--	<2.0	<1.0	<0.20	<0.20	<0.20	<0.20	<1.0	<0.20	<1.0	<1.0	<2.0
Fluoranthene	--	<5.0	<2.5	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<2.0
Fluorene	--	2.3	9.5	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<20
Indeno (1,2,3-cd) Pyrene	--	<2.0	<1.0	<0.20	0.31 *	<0.20	<0.20	<1.0	<0.20	<1.0	<1.0	<2.0
Naphthalene	--	5.5	15	<2.0	<2.0	<2.0	<2.0	<10	7	<10	<10	<20
Phenanthrene	--	14	15	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<10	<10	<20
Pyrene	--	11	2.7	<0.50	1.6	<0.50	1.6	2.6	1.8	2.6 *	1.5 *	<2.0

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-2 (continued)												
	Sample Date	4/1/97	9/9/97	4/7/98	10/28/98	4/6/99	10/19/99	3/28/00	10/31/00	4/24/01	10/30/01	4/30/02	10/16/02
VOCs (µg/L)													
Benzene	<1.0	<0.13	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1.0	<0.22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1.0	<0.16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1.0	<0.20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	<2	<0.51	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	<1.0	<0.23	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SVOCs (µg/L)													
1-Methylnaphthalene	--	--	<2	--	<10	--	<100	--	<2	--	<10	--	--
2-Methylnaphthalene	--	--	<2	--	<10	--	<100	--	<2	--	<10	--	--
Acenaphthene	--	--	<10	--	<5	--	<50	--	<1	--	<5	--	--
Acenaphthylene	--	--	<10	--	<5	--	<50	--	<1	--	<5	--	--
Anthracene	--	--	<2	--	<1	--	<100	--	<0.2	--	<1	--	--
Benzo (a) anthracene	--	--	<1.3	--	<0.65	--	<5	--	<0.13	--	<0.65	--	--
Benzo (a) Pyrene	--	--	<2	--	<1	--	<5	--	<0.2	--	<1	--	--
Benzo (b) Fluoranthene	--	--	<1.8	--	<0.9	--	<5	--	<0.18	--	<0.9	--	--
Benzo (g,h,i) perylene	--	--	<2	--	<1	--	<5	--	<0.2	--	<1	--	--
Benzo (k) Fluoranthene	--	--	<1.7	--	<0.85	--	<5	--	<0.17	--	<0.85	--	--
Chrysene	--	--	<2	--	<1	--	<5	--	<0.2	--	<1	--	--
Dibenzo (a,h) anthracene	--	--	<2	--	<1	--	<5	--	<0.2	--	<1	--	--
Fluoranthene	--	--	<2	--	<1	--	<5	--	<0.2	--	<1	--	--
Fluorene	--	--	<2	--	<1	--	<50	--	<0.2	--	<1	--	--
Indeno (1,2,3-cd) Pyrene	--	--	<2	--	<1	--	<5	--	<0.2	--	<1	--	--
Naphthalene	--	--	<10	--	<5	--	<100	--	<1	--	<5	--	--
Phenanthrene	--	--	<2	--	<1	--	<50	--	<0.2	--	<1	--	--
Pyrene	--	--	<2	--	1.2	--	<10	--	<0.2	--	<1	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-2 (continued)											
	Sample Date	4/29/03	10/21/03	4/14/04	10/19/04	4/26/05	10/11/05	4/11/06	10/10/06	4/12/07	4/22/08	4/16/09
VOCs (µg/L)												
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.25	<0.25
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.8	<0.22	<0.22
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1.8	<0.23	<0.23
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.88	<0.11	<0.25
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<3.5	<0.44	<0.44
Xylenes, Total	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3.1	<0.39	<0.39
SVOCs (µg/L)												
1-Methylnaphthalene	<20	--	<2	--	<2	--	--	--	--	<0.33	<0.74	<0.33
2-Methylnaphthalene	<20	--	<2	--	<2	--	--	--	--	<0.32	<0.72	<0.32
Acenaphthene	<10	--	<1	--	<1	--	--	--	--	<0.34	<0.77	<0.34
Acenaphthylene	<10	--	<1	--	<1	--	--	--	--	<0.71	<1.6	<0.7
Anthracene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.039	<0.088	<0.039
Benzo (a) anthracene	<1.3	--	<0.13	--	<0.13	--	--	--	--	<0.045	<0.1	<0.045
Benzo (a) Pyrene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.033	<0.074	<0.033
Benzo (b) Fluoranthene	<1.8	--	<0.18	--	<0.18	--	--	--	--	<0.1	<0.23	<0.1
Benzo (g,h,i) perylene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.12	<0.28	<0.12
Benzo (k) Fluoranthene	<1.7	--	<0.17	--	<0.17	--	--	--	--	<0.051	<0.11	<0.05
Chrysene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.042	<0.095	<0.042
Dibenzo (a,h) anthracene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.13	<0.3	<0.13
Fluoranthene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.084	<0.19	<0.083
Fluorene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.064	<0.14	<0.063
Indeno (1,2,3-cd) Pyrene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.064	<0.14	<0.063
Naphthalene	<10	--	<1	--	<1	--	--	--	--	<0.41	<0.93	<0.41
Phenanthrene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.031	0.15 J	<0.031
Pyrene	<2	--	<0.2	--	<0.2	--	--	--	--	<0.045	<0.1	<0.045

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-3									DSOMW-4	
	6/12/91	7/11/91	2/4/92	9/30/92	3/31/93	7/15/93	5/29/96	7/15/09	10/9/09	6/12/91	7/11/91
VOCs (µg/L)											
Benzene	10	6	7.3	11 *	6.4 *	6.4	5.4	0.62 J	4.4	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	10	3	3	4 *	2.8 *	3.6 *	1.9	<0.22	2.3	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	--	--	--	<0.5	3.9 *	<2.5	<1.0	<0.23	<0.46	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<5	<5	0.62	0.9 *	2.1 *	<2.5	6.5	<0.25	0.50 J	<5	<5
Trimethylbenzenes, Total	--	--	--	17	11.6	24.3	6.9	0.81	6.6	--	--
Xylenes, Total	14	6	9.3	11 *	10 *	10 *	3.1	0.72 J	5	<2	<2
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	--	--	--	10	1.3	23	--	--
2-Methylnaphthalene	--	--	--	--	--	--	<10	1.2 J	11	--	--
Acenaphthene	--	--	--	--	<40	<2.0	<10	0.99 J	1.7 J	--	--
Acenaphthylene	--	--	--	--	47	<2.0	<10	<0.69	<1.4	--	--
Anthracene	--	--	--	--	<20	12	<10	0.13	2.5	--	--
Benzo (a) anthracene	--	--	--	--	<2.6	0.14	<1.0	0.14	14	--	--
Benzo (a) Pyrene	--	--	--	--	<4.0	3.3	<1.0	0.61	1.5	--	--
Benzo (b) Fluoranthene	--	--	--	--	<3.6	2.9	1.0 *	0.31	4.6	--	--
Benzo (g,h,i) perylene	--	--	--	--	<4.0	7.4	1.2 *	0.72	1.1	--	--
Benzo (k) Fluoranthene	--	--	--	--	<3.4	0.22	<0.50	0.32	0.71	--	--
Chrysene	--	--	--	--	4.7	<2.0	<1.0	<0.041	15	--	--
Dibenzo (a,h) anthracene	--	--	--	--	<4.0	1.8	<1.0	0.14 J	<0.26	--	--
Fluoranthene	--	--	--	--	<10	0.82	1.5 *	0.22 J	21	--	--
Fluorene	--	--	--	--	<20	3.4	<10	0.73	2.6	--	--
Indeno (1,2,3-cd) Pyrene	--	--	--	--	<4.0	1.1	<1.0	0.17	<0.12	--	--
Naphthalene	--	--	--	--	<40	<2.0	<10	6.1	18	--	--
Phenanthrene	--	--	--	--	39	33	<10	0.42	5.3	--	--
Pyrene	--	--	--	--	19	13	7.7 *	1.1	31	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-4										
	2/4/92	7/8/92	9/30/92	3/31/93	7/14/93	11/18/93	3/23/94	8/10/94	11/29/94	2/22/95	5/24/95
VOCs (µg/L)											
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	<0.5	<0.50	<0.50	<0.50
Chloroform	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	<0.5	<0.50	<0.50	<0.50
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	--	--	<0.5	<0.5	<0.5	<0.50	<1.0	<0.5	<0.50	<0.50	<0.50
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Toluene	<0.5	<0.5	<0.5	2	<0.5	<0.50	<1.0	0.69	<0.50	<0.50	<0.50
Trimethylbenzenes, Total	--	--	<1	<1	<1	<1	<2	<1	<1	<1	<1
Xylenes, Total	<0.5	0.6 *	0.6	<0.5	<0.5	<0.50	<3.0	1.2	<0.50	0.64	<0.50
SVOCs (µg/L)											
1-Methylnaphthalene	--	--	--	--	--	--	--	<2.0	<2.0	<10	<10
2-Methylnaphthalene	--	--	--	--	--	--	--	<2.0	<2.0	<10	<10
Acenaphthene	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acenaphthylene	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Anthracene	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo (a) anthracene	--	--	--	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Benzo (a) Pyrene	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo (b) Fluoranthene	--	--	--	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzo (g,h,i) perylene	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo (k) Fluoranthene	--	--	--	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Chrysene	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenzo (a,h) anthracene	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluoranthene	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Fluorene	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Indeno (1,2,3-cd) Pyrene	--	--	--	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Naphthalene	--	--	--	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Phenanthrene	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	--	--	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-4 (continued)											
	Sample Date	11/15/95	5/29/96	9/17/96	4/1/97	9/9/97	4/7/98	10/28/98	4/6/99	10/19/99	3/28/00	10/31/00
VOCs (µg/L)												
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<0.13	<1	<1	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<1	<1	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1.0	<1.0	<1.0	<1.0	<1.0	<0.16	<1	<1	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<1	<1	<1	<1	<1	<1
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<0.51	<2	<2	<2	<2	<2	<2
Xylenes, Total	<1.0	<1.0	<1.0	<1.0	<1.0	<0.23	<1	<1	<1	<1	<1	<1
SVOCs (µg/L)												
1-Methylnaphthalene	<2.0	<2.0	<2.0	--	--	<2	--	<2	--	<10	--	--
2-Methylnaphthalene	<2.0	<2.0	<2.0	--	--	<2	--	<2	--	<10	--	--
Acenaphthene	<2.0	<1.0	<1.0	--	--	<1	--	<1	--	<5	--	--
Acenaphthylene	<2.0	<1.0	<1.0	--	--	<1	--	3	--	<5	--	--
Anthracene	<1.0	<1.0	<1.0	--	--	<0.2	--	<0.2	--	<10	--	--
Benzo (a) anthracene	<0.13	<0.13	<0.13	--	--	<0.13	--	<0.13	--	<0.5	--	--
Benzo (a) Pyrene	<0.20	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--
Benzo (b) Fluoranthene	<0.18	<0.18	<0.18	--	--	<0.18	--	<0.18	--	<0.5	--	--
Benzo (g,h,i) perylene	<0.20	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--
Benzo (k) Fluoranthene	<0.17	<0.17	<0.17	--	--	<0.17	--	<0.17	--	<0.5	--	--
Chrysene	<0.20	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--
Dibenzo (a,h) anthracene	<0.20	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--
Fluoranthene	<0.50	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--
Fluorene	<1.0	<1.0	<1.0	--	--	<0.2	--	<0.2	--	<5	--	--
Indeno (1,2,3-cd) Pyrene	<0.20	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--
Naphthalene	<2.0	<1.0	<1.0	--	--	<1	--	<1	--	<10	--	--
Phenanthrene	<1.0	<1.0	<1.0	--	--	<0.2	--	<0.2	--	<5	--	--
Pyrene	<0.50	<0.20	<0.20	--	--	<0.2	--	<0.2	--	<0.5	--	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-4 (continued)											
	Sample Date	4/24/01	10/30/01	4/30/02	10/16/02	4/29/03	10/21/03	4/14/04	4/26/05	4/11/06	4/12/07	4/22/08
VOCs (µg/L)												
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.25	<0.25
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.22	<0.22
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.23	<0.23
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.11	<0.11
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.44	<0.44
Xylenes, Total	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.39	<0.39
SVOCs (µg/L)												
1-Methylnaphthalene	<2	--	<2	--	<2	--	<2	--	<2	--	--	<0.33
2-Methylnaphthalene	<2	--	<2	--	<2	--	<2	--	<2	--	--	<0.32
Acenaphthene	<1	--	<1	--	<1	--	<1	--	<1	--	--	<0.34
Acenaphthylene	<1	--	<1	--	<1	--	<1	--	<1	--	--	<0.7
Anthracene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.039
Benzo (a) anthracene	<0.13	--	<0.13	--	<0.13	--	<0.13	--	<0.13	--	--	<0.045
Benzo (a) Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.033
Benzo (b) Fluoranthene	<0.18	--	<0.18	--	<0.18	--	<0.18	--	<0.18	--	--	<0.1
Benzo (g,h,i) perylene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.12
Benzo (k) Fluoranthene	<0.17	--	<0.17	--	<0.17	--	<0.17	--	<0.17	--	--	<0.05
Chrysene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.042
Dibenzo (a,h) anthracene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.13
Fluoranthene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.083
Fluorene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.063
Indeno (1,2,3-cd) Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.063
Naphthalene	<1	--	<1	--	<1	--	<1	--	<1	--	--	<0.41
Phenanthrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.031
Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--	--	<0.045

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-4 (continued)				DSOMW-5					
	1/29/09	4/16/09	7/15/09	10/9/09	9/17/96	9/9/97	4/7/98	10/28/98	4/6/99	10/19/99
VOCs (µg/L)										
Benzene	<0.25	<0.25	<0.25	<0.25	<1.0	0.42	<1	<1	<1	<1
Chloroform	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<0.22	<0.22	<0.22	<0.22	<1.0	0.83	<1	<1	<1	<1
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<0.23	<0.23	<0.23	<0.23	<1.0	<0.16	<1	<1	<1	<1
Naphthalene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--
Toluene	<0.25	<0.25	<0.25	<0.25	<1.0	<0.20	<1	<1	<1	<1
Trimethylbenzenes, Total	<0.44	<0.44	<0.44	<0.44	1.5	5.5	5.3	7.8	<2	4.1
Xylenes, Total	<0.39	<0.39	<0.39	<0.39	<1.0	2.6	1.4	3.9	<1	1.1
SVOCs (µg/L)										
1-Methylnaphthalene	<0.33	<0.32	<0.88	<0.33	<50	--	<40	--	<20	--
2-Methylnaphthalene	<0.32	<0.31	<0.85	<0.32	<50	--	<40	--	<20	--
Acenaphthene	<0.34	<0.33	<0.9	<0.34	<50	--	<10	--	<10	--
Acenaphthylene	<0.7	<0.7	<1.9	<0.71	<50	--	<10	--	<10	--
Anthracene	<0.039	<0.038	<0.1	<0.039	<50	--	2.7	--	<2	--
Benzo (a) anthracene	<0.045	<0.044	<0.12	<0.045	<5.0	--	<1.3	--	<1.3	--
Benzo (a) Pyrene	<0.033	<0.032	<0.088	<0.033	<5.0	--	<2	--	<2	--
Benzo (b) Fluoranthene	<0.1	<0.099	<0.27	<0.1	<5.0	--	<1.8	--	<1.8	--
Benzo (g,h,i) perylene	<0.12	<0.12	<0.33	<0.12	<5.0	--	<2	--	<2	--
Benzo (k) Fluoranthene	<0.05	<0.049	<0.13	<0.051	<2.5	--	<1.7	--	<1.7	--
Chrysene	<0.042	<0.041	<0.11	<0.042	6.8 PD	--	3.5	--	<2	--
Dibenzo (a,h) anthracene	<0.13	<0.13	<0.36	<0.13	<5.0	--	<2	--	<2	--
Fluoranthene	<0.083	<0.082	<0.22	<0.084	<5.0	--	<2	--	<2	--
Fluorene	<0.063	<0.063	<0.17	<0.064	<50	--	4.5	--	<2	--
Indeno (1,2,3-cd) Pyrene	<0.063	<0.063	<0.17	<0.064	<5.0	--	<2	--	<2	--
Naphthalene	<0.41	<0.4	<1.1	<0.41	<50	--	12	--	<10	--
Phenanthrene	<0.031	<0.03	<0.082	<0.031	<50	--	13	--	<2	--
Pyrene	<0.045	<0.044	<0.12	<0.045	22	--	10	--	26	--

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-5 (continued)											
	Sample Date	10/31/00	10/22/03	4/14/04	10/19/04	10/11/05	4/11/06	4/12/07	5/20/08	4/17/09	7/15/09	10/9/09
VOCs (µg/L)												
Benzene	<1	<1	<1	<1	<1	<1	<1	0.30 Ja	<0.5	2.5 RL8,	2.3	3.5
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<0.22	<0.44	<2.2 RL8	1.9	2
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<1	<0.23	<0.46	<2.3 RL8	<0.23	<0.46
Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<1	<0.11	<0.22	<2.5 RL8	0.58 J	0.54 J
Trimethylbenzenes, Total	5.1	2.7	2.5	<2	0.87	<2	<2	0.54	0.84	<4.4	2.37	4.2
Xylenes, Total	1	2.2	<1	<1	<1	<1	<1	0.55 Ja	<0.78	4.2 RL8,	4.5	5
SVOCs (µg/L)												
1-Methylnaphthalene	--	--	--	--	--	--	<2	<0.33	14	13	28	18
2-Methylnaphthalene	--	--	--	--	--	--	<2	0.90 Ja	11	4.9 J	18	3.9 J
Acenaphthene	--	--	--	--	--	--	<1	0.36 Ja	2.4 J	<3.4	2.6 J	<1.7
Acenaphthylene	--	--	--	--	--	--	9.8	<0.72	<1.9	<7	3.7 J	<3.5
Anthracene	--	--	--	--	--	--	1.1	0.98	6.4	4.4	8.9	1.4
Benzo (a) anthracene	--	--	--	--	--	--	<0.13	4.7	28	9.3	9.2	3.2
Benzo (a) Pyrene	--	--	--	--	--	--	<0.2	1.5	7.5	<0.33	<0.065	0.41 J
Benzo (b) Fluoranthene	--	--	--	--	--	--	<0.18	0.19 Ja	2.4	<1	1.1	0.78 J
Benzo (g,h,i) perylene	--	--	--	--	--	--	<0.2	0.87	3	<1.2	3.2	<0.61
Benzo (k) Fluoranthene	--	--	--	--	--	--	<0.17	1.2	5.3	<0.5	7.1	<0.25
Chrysene	--	--	--	--	--	--	<0.2	1.2	11	23	9.7	3.4
Dibenzo (a,h) anthracene	--	--	--	--	--	--	<0.2	0.33 Ja	0.49 J	<1.3	0.68	<0.66
Fluoranthene	--	--	--	--	--	--	<0.2	7.6	68	29	61	5.6
Fluorene	--	--	--	--	--	--	0.87	1.2	6.7	3.9 J	7.2	2.2
Indeno (1,2,3-cd) Pyrene	--	--	--	--	--	--	<0.2	<0.065	2.3	<0.63	<0.13	0.64 J
Naphthalene	--	--	--	--	--	--	<1	<0.42	<1.1	<4.1	21	<2
Phenanthrene	--	--	--	--	--	--	1.5	0.53	19	7.1	28	3.7
Pyrene	--	--	--	--	--	--	11 PG	3.9	12	11	120	13

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name	DSOMW-6									
	4/14/04	10/19/04	4/26/05	10/11/05	4/11/06	10/10/06	4/12/07	4/22/08	1/29/09	4/16/09
VOCs (µg/L)										
Benzene	<1	<1	<1	<1	<1	<1	<0.25	<0.25	<0.25	<0.25
Chloroform	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	<1	<1	<1	<1	<1	<1	<0.22	<0.22	<0.22	<0.22
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--
Methyl tert-Butyl Ether	<1	<1	<1	<1	<1	<1	<0.23	<0.23	<0.23	<0.23
Naphthalene	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--
Toluene	<1	<1	<1	<1	<1	<1	<0.11	<0.11	<0.25	<0.25
Trimethylbenzenes, Total	<2	<2	<2	<2	<2	<2	<0.44	<0.44	<0.44	<0.44
Xylenes, Total	<1	<1	<1	<1	<1	<1	<0.39	<0.39	<0.39	<0.39
SVOCs (µg/L)										
1-Methylnaphthalene	<2	--	<2	--	<2	--	<0.33	<0.34	<0.33	0.55 J
2-Methylnaphthalene	<2	--	<2	--	<2	--	<0.32	<0.33	<0.32	<0.31
Acenaphthene	<1	--	<1	--	<1	--	<0.34	<0.35	<0.34	<0.33
Acenaphthylene	<1	--	<1	--	<1	--	<0.71	<0.74	<0.71	<0.68
Anthracene	<0.2	--	<0.2	--	<0.2	--	<0.039	<0.041	<0.039	<0.038
Benzo (a) anthracene	<0.13	--	<0.13	--	<0.13	--	<0.045	<0.047	<0.045	<0.044
Benzo (a) Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.033	<0.034	<0.033	<0.032
Benzo (b) Fluoranthene	<0.18	--	<0.18	--	<0.18	--	<0.1	<0.11	<0.1	<0.097
Benzo (g,h,i) perylene	<0.2	--	<0.2	--	<0.2	--	<0.12	<0.13	<0.12	<0.12
Benzo (k) Fluoranthene	<0.17	--	<0.17	--	<0.17	--	<0.051	<0.053	<0.051	<0.049
Chrysene	<0.2	--	<0.2	--	<0.2	--	<0.042	<0.044	<0.042	<0.041
Dibenzo (a,h) anthracene	<0.2	--	<0.2	--	<0.2	--	<0.13	<0.14	<0.13	<0.13
Fluoranthene	<0.2	--	<0.2	--	<0.2	--	<0.084	<0.087	<0.084	<0.08
Fluorene	<0.2	--	<0.2	--	<0.2	--	<0.064	<0.067	<0.064	0.077 J
Indeno (1,2,3-cd) Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.064	<0.067	<0.064	<0.061
Naphthalene	<1	--	<1	--	<1	--	0.50 Ja	<0.43	<0.41	5
Phenanthrene	<0.2	--	<0.2	--	<0.2	--	<0.031	<0.032	<0.031	0.062 J
Pyrene	<0.2	--	<0.2	--	<0.2	--	<0.045	<0.047	<0.045	<0.044

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Sample Name Sample Date	DSOMW-6 (continued)		ES	PAL
	7/15/09	10/9/09		
VOCs (µg/L)				
Benzene	<0.25	<0.25	5	0.5
Chloroform	--	--	6	0.6
Dichlorodifluoromethane	--	--	1,000	200
Ethylbenzene	<0.22	<0.22	700	140
Isopropylbenzene	--	--	NE	NE
Methyl tert-Butyl Ether	<0.23	<0.23	60	12
Naphthalene	--	--	100	10
n-Propylbenzene	--	--	NE	NE
Styrene	--	--	100	10
Toluene	<0.25	<0.25	1,000	200
Trimethylbenzenes, Total	<0.44	<0.44	480	96
Xylenes, Total	<0.39	<0.39	10,000	1,000
SVOCs (µg/L)				
1-Methylnaphthalene	<0.33	--	NE	NE
2-Methylnaphthalene	<0.32	--	NE	NE
Acenaphthene	<0.34	--	NE	NE
Acenaphthylene	<0.71	--	NE	NE
Anthracene	<0.039	--	3,000	600
Benzo (a) anthracene	<0.045	--	NE	NE
Benzo (a) Pyrene	<0.033	--	0.2	0.02
Benzo (b) Fluoranthene	<0.1	--	0.2	0.02
Benzo (g,h,i) perylene	<0.12	--	NE	NE
Benzo (k) Fluoranthene	<0.051	--	NE	NE
Chrysene	<0.042	--	0.2	0.02
Dibenzo (a,h) anthracene	<0.13	--	NE	NE
Fluoranthene	<0.084	--	400	80
Fluorene	<0.064	--	400	80
Indeno (1,2,3-cd) Pyrene	<0.064	--	NE	NE
Naphthalene	<0.41	--	100	10
Phenanthrene	<0.031	--	NE	NE
Pyrene	<0.045	--	250	50

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Table 1. Groundwater Analytical Results, 3M Downtown Wausau Facility, Wausau, Wisconsin.

Only detected constituents are presented.

<	Constituent not present above the laboratory method detection limit, which is the value following the "<" sign.
*, **, *I	Indicate the data is suspect based on the laboratory quality assurance/quality control.
--	Not analyzed.
<i>Italic</i>	Constituent concentration exceeds Chapter NR 140 PAL.
Italic	Constituent concentration exceeds Chapter NR 140 ES.
B	Estimated Result. Result is less than reporting limit.
°C	Degrees Celsius.
E	(VOCs) Estimated results. Resulted in less than reporting limit.
E1	Concentration Estimated.
ES	Groundwater Quality Enforcement Standard, as established in Chapter NR 140 of the Wisconsin Administrative Code.
J	(VOCs) Estimated result. Result is less than reporting limit.
J	(Indicator Parameters) Method blank contamination. The method blank contains the target analyte at a reportable limit.
J	(Metals) Method Blank Contamination. The associated method blank contains the target analyte at a reportable limit.
Ja	Result is reported between the method detection limit and limit of quantitation. These results are less certain than results at or above the limit of quantitation.
µg/L	Micrograms per liter.
µS/cm	Micro Siemens per centimeter.
mg/L	Milligram per liter.
NE	Not established.
PAL	Groundwater Quality Preventive Action Limit, as established in Chapter NR 140 of the Wisconsin Administrative Code.
PD	The identification and quantification of compound may be suspect because the difference between analyses is >25%.
PG	The percent difference between the original and confirmation analyses is greater than 40 percent.
VOCs	Volatile organic compounds.
Q2	Non-target analytes present in sample.
RL1	Reporting limit raised due to sample matrix effects.
RL8	Sample diluted due to foaming.
SVOCs	Semivolatile organic compounds.

