State of Wisconsin
Department of Natural Resources
P.O. Box 7921, Madison, WI 53707-7921

GIS REGISTRY (Cover Sheet)

Form 4400-280 (R 7/12)

Source Property Information

CLOSURE DATE: Apr 9, 2013

BRRTS #: 02-09-228655 (No Dashes)

FID #: 609104100

ACTIVITY NAME: Xcel - Former Chippewa Falls MGP

DATCP #:

PROPERTY ADDRESS: 50 Court St., Chippewa Falls, WI 54729

PECFA#:

MUNICIPALITY: Chippewa Falls

PARCEL ID #: 22808-0532-50050600

***WTM COORDINATES:**

X: 410553 Y: 496514

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

WTM COORDINATES REPRESENT:

○ Approximate Center Of Contaminant Source

◉ Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

☒ Groundwater Contamination > ES *(236)*

☐ Contamination in ROW

☐ Off-Source Contamination

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

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

☐ Contamination in ROW

☐ Off-Source Contamination

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

Continuing Obligations:

☐ N/A (*Not Applicable*)

☐ Soil: maintain industrial zoning *(220)*

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

☐ Structural Impediment *(224)*

☐ Site Specific Condition *(228)*

☒ Cover or Barrier *(222)*

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

☐ Vapor Mitigation *(226)*

☐ Maintain Liability Exemption *(230)*

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

Note: Comments will not print out.

Monitoring Wells:

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

◉ Yes ○ No ○ N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

State of Wisconsin
Department of Natural Resources
http://dnr.wi.gov

PLEASE ASSEMBLE IN THIS ORDER

GIS Registry Checklist

Form 4400-245 (R 8/11)

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

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

BRRTS #: 02-09-228655 *(No Dashes)* PARCEL ID #: 22808-0532-50050600

ACTIVITY NAME: Xcel - Former Chippewa Falls MGP WTM COORDINATES: X: 410553 Y: 496514

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

- [X] **Closure Letter**
- [X] **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)
- [X] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- [X] **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.*
- [X] **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 #: 1&2 of 2 **Title: Map of Survey**
- [X] **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.

- [X] **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 #: 2 **Title: Location Map**
- [X] **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 #: 3 **Title: Site Map**
- [X] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, <u>this map is to show the location of all contaminated soil and a single contour</u> 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 #: 4 **Title: Residual Soil Contamination Contour Map**

BRRTS #: 02-09-228655 ACTIVITY NAME: Xcel - Former Chippewa Falls MGP

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 #: 5 **Title: Final Excavation & Sample Location Map**

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 #: 6 **Title: Residual PAH GW Contamination > ES**

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

Figure #: 6 **Title: Residual PAH GW Contamination > ES**

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 #: 8 & 9 **Title: Confirmation Soil Samples**

☒ **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 - 3 **Title: PAH, Metals & Cyanide, VOCs GW 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 #: 1 **Title: Groundwater Elevations**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☒ **Not Applicable**

☐ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

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

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

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

BRRTS #: 02-09-228655 ACTIVITY NAME: Xcel - Former Chippewa Falls MGP

NOTIFICATIONS

Source Property

☒ **Not Applicable**

☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

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

☒ **Not Applicable**

☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

Number of "Off-Source" Letters:

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.

☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

☐ **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:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster Street
Box 7921
Madison WI 53707-7921

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

April 9, 2013

Mr. LeRoy Wilder, Jr.
Xcel Energy
P.O. Box 8
Eau Claire, WI 54702-0008

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Xcel Energy's Chippewa Falls MGP Site Located at 50 Court Street in Chippewa Falls, Wisconsin,
WDNR BRRTS Activity #: 02-09-228655

Dear Mr. Wilder:

The Department of Natural Resources (DNR) considers Xcel Energy's Chippewa Falls MGP Site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attached maintenance plan to anyone who purchases this property from you. For residential property transactions, you are required to make disclosures under s. 709.02, Wis. Stats.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wisconsin Administrative Code. The West Central Region's Closure Committee reviewed the request for closure on September 13, 2012. 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 September 13, 2012, and documentation that the conditions in that letter were met was received on March 4, 2013.

The property was historically used for the operation of a manufactured gas plant which impacted both soil and groundwater. The contaminants discovered and remediated included petroleum volatile organics (PVOCs), polycyclic aromatic hydrocarbons (PAHs) and metals.

The conditions of closure and continuing obligations required were based on the property being used for non-industrial purposes.

Continuing Obligations

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

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the DNR must approve any changes to this barrier.

GIS Registry

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

All site information is also on file at the West Central Regional DNR office, at 1300 W. Clairemont Ave., Eau Claire, WI. This letter and information that was submitted with your closure request application, including the maintenance plan, will be included on the GIS Registry in a PDF attachment. To review the site on the GIS Registry web page, visit the RR Sites Map page at http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2.

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 a soil cover is required, as shown on the **attached map**, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier;
- replacement with another barrier;
- 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;

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 and the attached maintenance plans are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property.

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

Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the **attached map**. 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 at depth over a significant portion of the property as indicated on the **attached map**. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats.)

The soil cover that exists in the location shown on the **attached map** shall be maintained in compliance with **the attached maintenance plan** in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

A request may be made to modify or replace a cover or barrier. 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.

The **attached maintenance plan and inspection log** are to be kept up-to-date and on-site. Submit the inspection log to the DNR only upon request.

The following DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, was included with this letter, to help explain a property owner's responsibility for continuing

obligations on their property. If the fact sheet is lost, you may obtain a copy at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

Please send written notifications in accordance with the above requirements to the West Central Regional DNR office, at 1300 W. Clairemont Ave., Eau Claire, WI, and to the attention of Doug Joseph.

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

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Doug Joseph at 715-839-1602.

Sincerely,

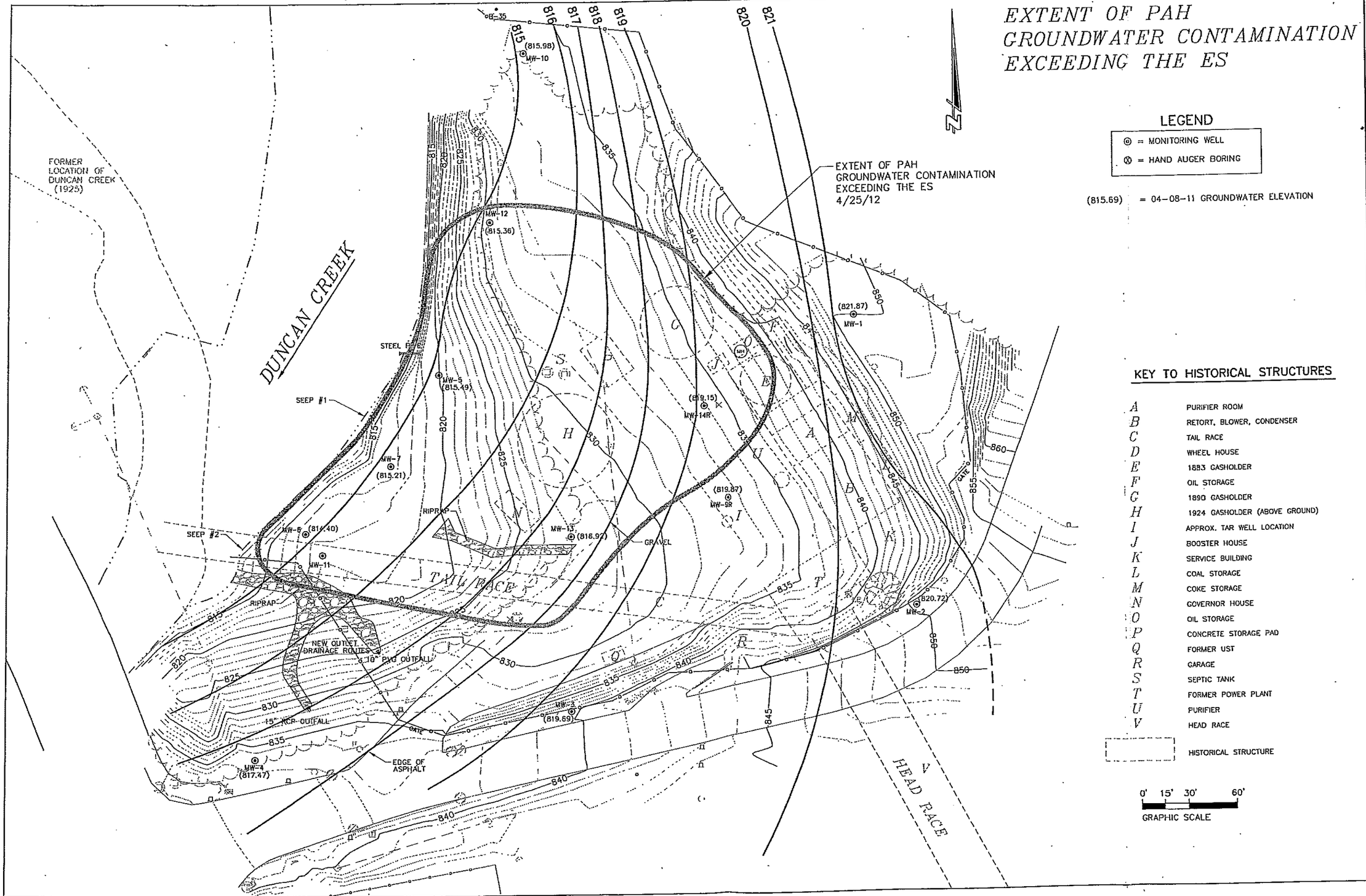
William Evans

William Evans
Team Supervisor
West Central Region - Remediation & Redevelopment Program

Attachments:
- remaining groundwater contamination map (Figure 6)
- remaining soil contamination map (Figure 4)
- extent of cap map (Capped Area)
- maintenance plan
- RR 819

c: Mitch Evenson, Cedar Corporation, 604 Wilson Ave., Menomonie, WI 54751

EXTENT OF PAH GROUNDWATER CONTAMINATION EXCEEDING THE ES



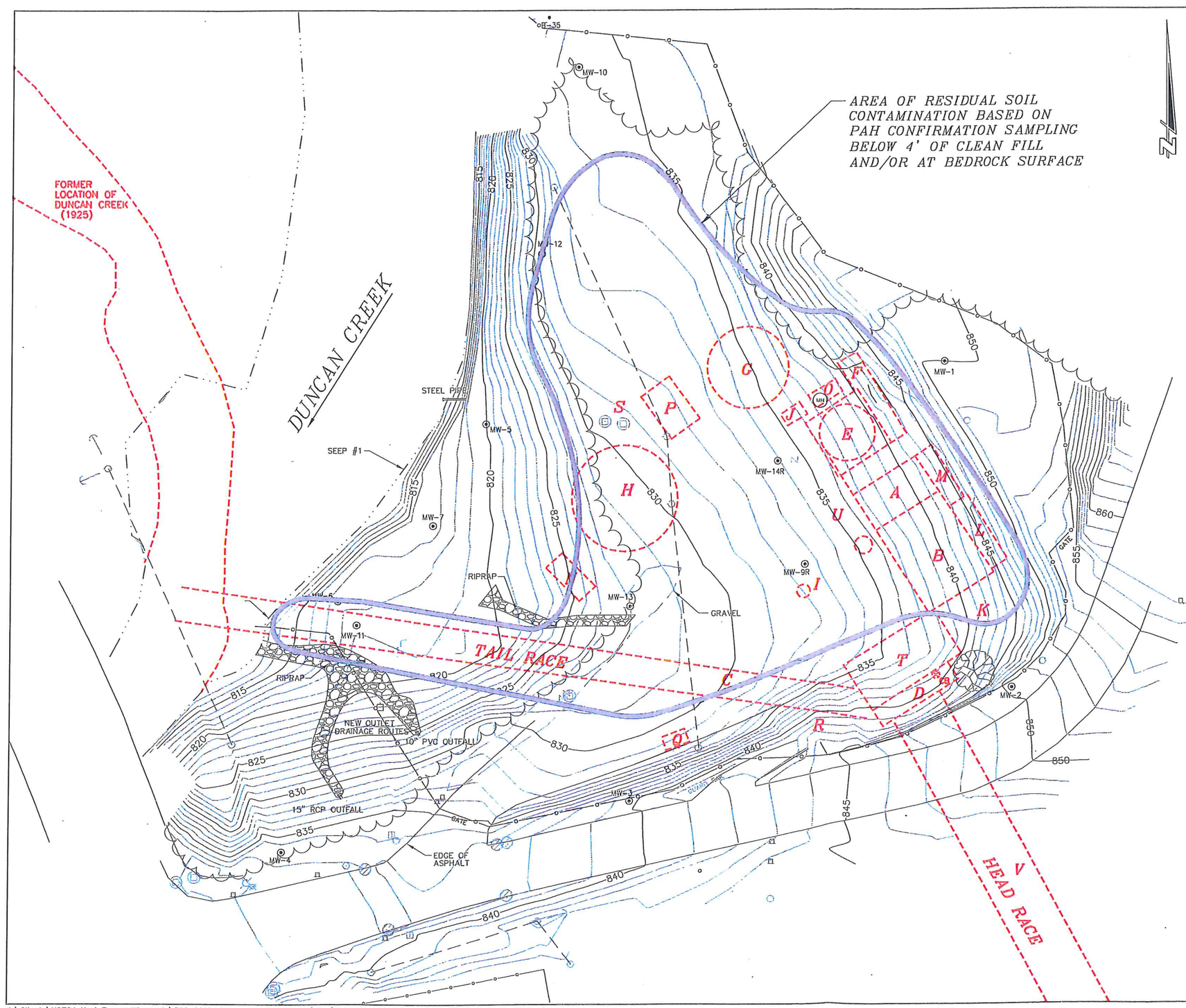
JOB NO.	X0724-0392
BOOK NO.	
DRAWN BY	PKF
CHECKED BY	MEE
DATE	DECEMBER 2011
REVISIONS	JUNE 2012
LAYOUT	PAH GW Contamination
DRAWING FILE	X300 FinalTopo.dwg

Cedar corporation
engineers • architects • planners • environmental specialists
land surveyors • landscape architects • interior designers
604 Wilson Avenue
Menomonie, Wisconsin 54751
715-235-9081
800-472-2372
FAX 715-235-2727
www.cedarcorp.com

XCEL ENERGY
FORMER CHIPPEWA FALLS MGP SITE
RESIDUAL PAH GROUNDWATER
CONTAMINATION EXCEEDING THE ES

FIGURE 6

I:\Clients\X0724 Xcel Energy Wisconsin\300 Chippewa Falls MGP Remediation\General\dwg\X300 FinalTopo.dwg 9/11/2007 11:39:46 AM CDT



LEGEND

⊙ = MONITORING WELL

KEY TO HISTORICAL STRUCTURES

A	PURIFIER ROOM
B	RETORT, BLOWER, CONDENSER
C	TAIL RACE
D	WHEEL HOUSE
E	1883 GASHOLDER
F	OIL STORAGE
G	1890 GASHOLDER
H	1924 GASHOLDER (ABOVE GROUND)
I	APPROX. TAR WELL LOCATION
J	BOOSTER HOUSE
K	SERVICE BUILDING
L	COAL STORAGE
M	COKE STORAGE
N	GOVERNOR HOUSE
O	OIL STORAGE
P	CONCRETE STORAGE PAD
Q	FORMER UST
R	GARAGE
S	SEPTIC TANK
T	FORMER POWER PLANT
U	PURIFIER
V	HEAD RACE
	HISTORICAL STRUCTURE

0' 15' 30' 60'
GRAPHIC SCALE

JOB NO.	X0724-0392
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www.cedarcorp.com

XCEL ENERGY
FORMER CHIPPEWA FALLS MGP SITE
RESIDUAL SOIL CONTAMINATION CONTOUR MAP

FIGURE 4

I:\Clients\X0724 Xcel Energy Wisconsin\392 2011 Chippewa Falls MGP GW\dwg\X300 FinalTopo.dwg 7/12/2012 8:11:22 AM CDT

COVER SOIL MAINTENANCE PLAN

April 10, 2013

Property Located at:

50 Court St., Chippewa Falls, WI 54729

WDNR BRRTS/Activity #02-09-228655

Parcel # 22808-0532-50050600

Introduction

This document is the Maintenance Plan for a soil cover 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 four foot soil cover over the residual contaminated soil and bedrock exposures on-site. The contaminated soil is impacted by polyaromatic hydrocarbons. The location of the impacted soil is identified on Figure 4 of the GIS package.

Cover and Building Barrier Purpose

The four foot soil cover 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. This cover also acts as a partial infiltration barrier (through the development of vegetation and evapotranspiration) to minimize future soil-to-groundwater contamination migration that would otherwise violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the soil cover should function as intended unless disturbed.

Annual Inspection

The cover soil overlying the contaminated soil will be inspected once a year, normally in the spring after all snow and ice is gone, for signs of deterioration, erosion, frost heaves and other potential problems that can cause additional infiltration into underlying impacted soils. The inspections will be performed to evaluate damage due to settling, exposure to the weather, and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. The inspection log must be kept at the nearest Northern States Power Company, a Wisconsin Corporation d/b/a Xcel Energy (NSPW) Administrative Office and made immediately available for review by the Wisconsin Department of Natural Resources (WDNR), its successor, and/or other state agency. It is not necessary to submit a copy of the log annually.

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 filling operations, erosion control, seeding and/sodding or they can include larger grading and restoration operations to maintain the full thickness of the cover soil. In the event

that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). 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 cover soil overlying the contaminated soil is removed or replaced, the replacement cover must be as or more impervious as the original cover soil. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by WDNR or its successor.

The property owner, in order to maintain the integrity of the cover soil, will maintain a copy of this Maintenance Plan at the nearest Northern States Power Company, a Wisconsin Corporation d/b/a Xcel Energy (NSPW) Administrative Office and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Amendment or Withdrawal of Maintenance Plan

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

Contact Information:

APRIL 8, 2013
Site Owner and Operator:
Northern States Power Company, a Wisconsin Corporation d/b/a Xcel Energy (NSPW)
1414 West Hamilton Avenue
P.O. Box 8
Eau Claire, WI 54702-0008
(715) 737-2691

Signature: _____
LeRoy J. Wilder, Jr.
Sr. Environmental Analyst

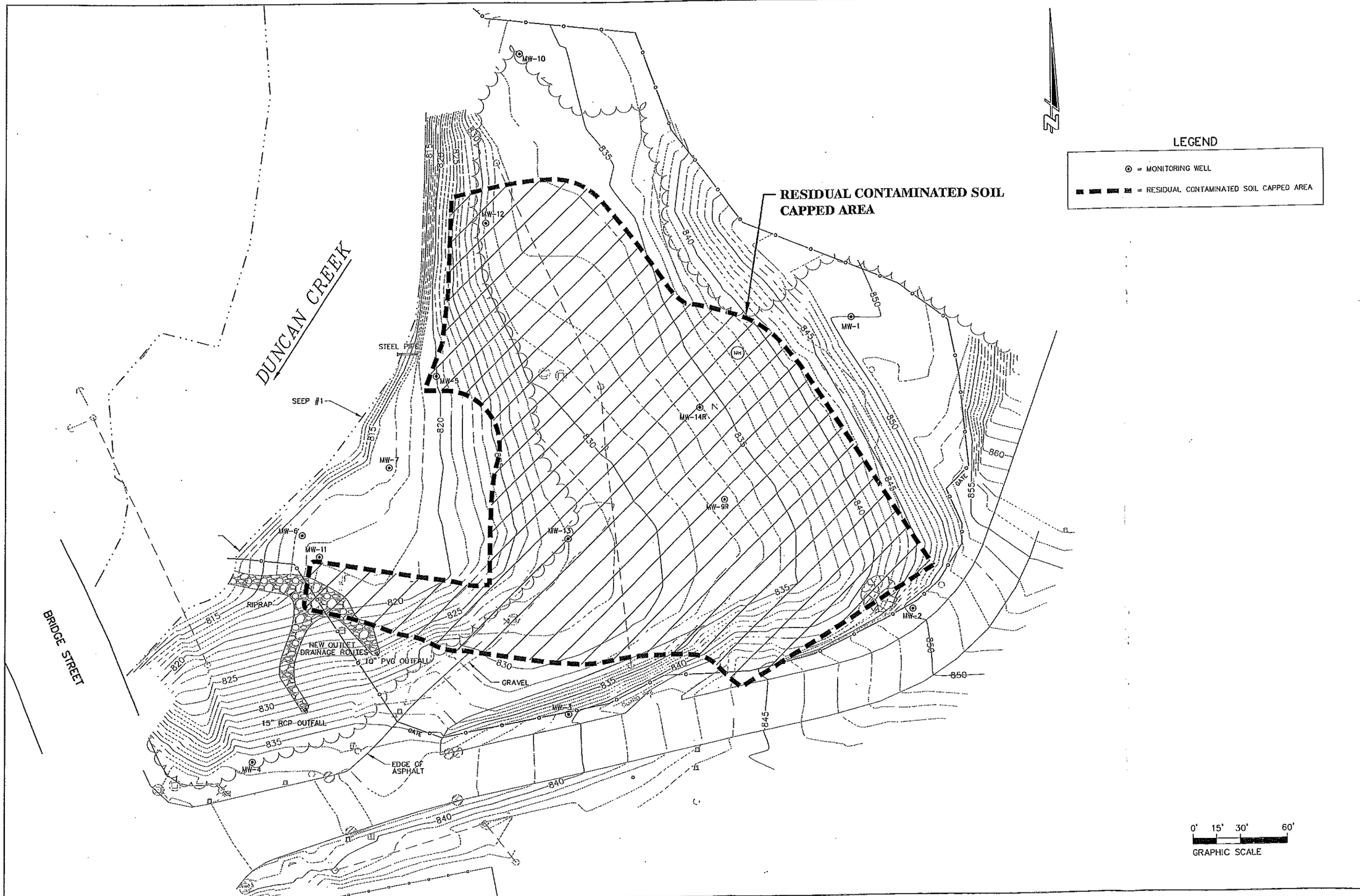
Consultant:
Cedar Corporation, Mitch Evenson
604 Wilson Avenue, Menomonie, WI 54751
(715) 235-9081

Department of Natural Resources:
Doug Joseph
1300 W. Clairemont Avenue, Eau Claire, WI 54701
(715) 837-1602

Exhibit B

Barrier INSPECTION and MAINTENANCE LOG

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



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XCEL ENERGY
FORMER CHIPPEWA FALLS MGP SITE
RESIDUAL CONTAMINATED SOIL CAPPED AREA

I:\Clients\X0724 Xcel Energy Wisconsin\392 2011 Chippewa Falls MGP GW\dwg\X300 FinalTopo.dwg 3/4/2013 2:24:01 PM CST

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
PO Box 4001
Eau Claire WI 54702-4001

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

September 13. 2012

Mr. LeRoy Wilder, Jr.
Xcel Energy
P.O. Box 8
Eau Claire, WI 54702-0008

SUBJECT: Conditional Closure Decision, With Requirements to Achieve Final Closure - Xcel Energy's Chippewa Falls MGP Site Located at 50 Court Street in Chippewa Falls, Wisconsin, Wisconsin
WDNR BRRTS Activity # 02-09-228655

Dear Mr. Wilder:

On September 13, 2012, 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 manufactured gas plant (MGP) type contamination on the site from the historic operation of an MGP facility appears to have been investigated and remediated to the extent practicable under site conditions. The closure of this case requires that the existing surficial three to four foot layer of "clean sand" be maintained to act as a soil barrier (cap) over contaminated soil and the DNR must approve any future changes to this barrier. In addition, residual soil contamination exists below the clean sand cap that must be properly managed should it be excavated or removed in the future. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following condition is satisfied:

1. The monitoring wells at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Doug Joseph on Form 3300-005, found at http://dnr.wi.gov/org/water/dwg/forms/3300005.pdf or provided by the Department of Natural Resources.

2. A revised site diagram showing the shape and size of the cap overlying residual contaminated soil on the site.

When the above conditions have been satisfied, please submit the appropriate well abandonment forms and site diagram to verify that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR's Remediation and Redevelopment GIS Registry. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit the RR Sites Map page at: http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2.

As part of the approval of the closure of this case, you will be responsible for maintaining the following continuing obligations.

1. Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.

2. Residual soil contamination exists that must be properly managed should it be excavated or removed.

3. Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the DNR must approve any changes to this barrier.

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

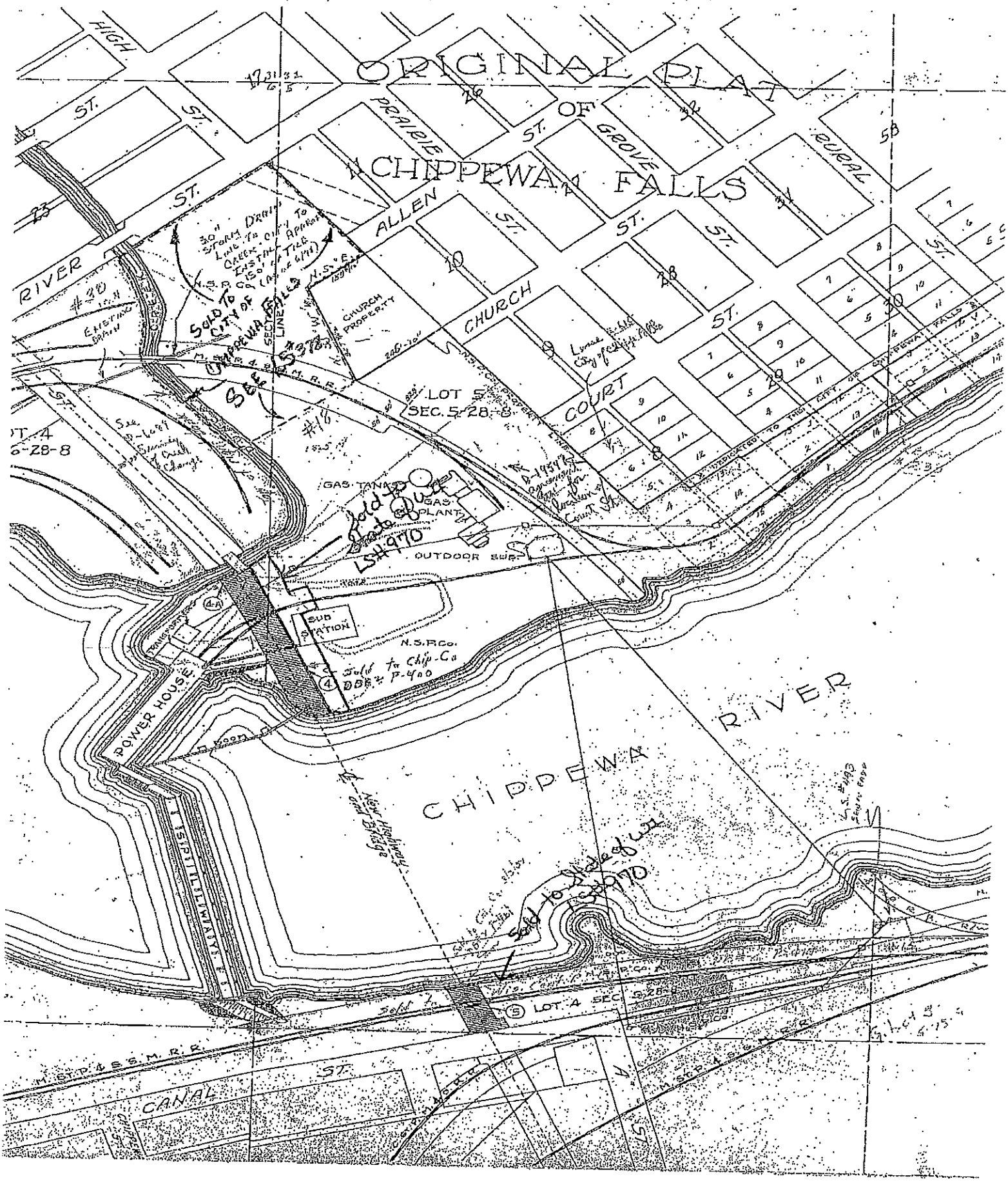
We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-839-1602.

Sincerely,

Doug Joseph
Hydrogeologist
Remediation & Redevelopment Program

Enclosure

c: Mitch Evenson, Cedar Corporation, 604 Wilson Ave., Menomonie, WI 54751


ORIGINAL PLAT OF CHIPPEWA FALLS
HIGH ST.
PRAIRIE ST.
GROVE ST.
RURAL ST.
ALLEN ST.
CHURCH ST.
COURT ST.
RIVER ST.
CHURCH PROPERTY
LOT 5 SEC. 5-28-8
GAS TANK
GAS PLANT
OUTDOOR SUB.
SUB STATION
N.S.R.Co.
POWER HOUSE
CHIPPEWA RIVER
CANAL ST.
M.St.P.&S.S.M.R.R.
LOT 4 SEC. 5-28-8
Sold to City of Chippewa Falls
Sold to Chip. Co

DESCRIPTION				
Mill Reserve				
Lot 5	5	28	8	
" 4	6	"	"	

All that part of the Mill Reserve as shown on the original plat of the Village (Now City) of Chippewa Falls, situated on Lot 5 of Sec. 5 and Lot 4 of Sec. 6-28-8, lying and being on the Easterly side of Duncan Creek,

Excepting that part described in deed from Thaddeus C. Pound and others to Chippewa County dated February 18, 1869, recorded in Chippewa County, Vol. 9 of Deeds, Page 539 (other than reversionary interest) which part so excepted is described as follows: "A public right of highway from the junction of Bridge and Church Streets in Chippewa Falls, as said street were traveled on the date of said deed, to a point on the North bank of the Chippewa River, bearing North 71 degrees (71°) East 495 feet from a point on the section line between said Sections 5 and 6, 50 feet North of the meander post on said section line, and also all the land necessary at said last described point upon which to erect a bridge, so long as the said Chippewa County shall maintain said bridge above mentioned".

Also excepting that part described in deed from Union Lumbering Company to the Chippewa Falls Gas Light Company, a Corporation, dated July 11th, 1876, recorded in Chippewa County, Vol. 24 of Deeds Page 490, which part so excepted is described as follows: "Beginning at a point which is twenty (20) feet in a Southerly direction from the most Southerly corner of the foundry building, and in a straight line with the front of said building; thence running Southwesterly at right angles with said front line of the foundry, Fifty-eight (58) feet; thence exactly parallel with said front being nearly North Forty-five degrees (45°) thirty minutes (30') West, two hundred (200) feet; thence at right angles Northeasterly One Hundred (100) feet; thence at right angles Southeasterly Two Hundred (200) feet; thence at right angles Southwesterly Forty-two (42) feet to the point of beginning.

Also excepting that part described in deed from Chippewa Lumber and Boom Company, a Corporation to Chippewa Falls Gas Light Company, a Corporation, dated July 28th, 1887, recorded in Chippewa County, Vol. 40 of Deeds, Page 586, which part so excepted is described as follows: Beginning at the most Westerly corner of the above described tract of land which is One Hundred (100) feet by Two Hundred (200) feet; thence running in a Northwesterly direction on a continuation of the Southwesterly side of said tract, Thirty-five (35) feet; thence Northeasterly at right angles One Hundred (100) feet; thence Southeasterly at right angles Thirty-five (35) feet; to the most Northerly corner of said tract; thence Southwesterly at right angles to place of beginning.

Also including in this exception, the right of way and other privileges granted in said deed, and which are described as follows: The right of way in common with said Chippewa Falls Gas Light Company, its successors and assigns, by way of the passageway in use from the bridge across Duncan Creek near its mouth on said Lot Five (5) to the Gas House, and the right to maintain the main gas pipe line under said passageway and under the street in use on said Lot Five (5) as said pipe was located on the date of said conveyance.

Also excepting that part described in deed from Chippewa Lumber and Boom Company, a Corporation, to K. C. Flash, Bishop of the Roman Catholic Diocese of La Crosse, Wisconsin, dated Dec. 28th, 1887, recorded in Chippewa County, Vol. 41 of Deeds, Page 164 which part so excepted is described as follows: Beginning at the Southeasterly corner of Block Ten (10) of the Original Plat of the Village (Now City) of Chippewa Falls; thence running Southwesterly on a continuation of the line of the

DESCRIPTION

Mill Reserve Continued

Southeasterly side of said Block, Two Hundred forty-five (245) feet and ten (10) inches, thence North Thirty-five degrees, Forty-five Minutes (35° 45') West, Three Hundred Seven and nine twelfths (307 9/12) feet; thence North Fifty degrees (50°) East One Hundred Fifty-nine and eight twelfths (159 8/12) feet; thence North on the same line to the Westerly corner of said block; thence Southeasterly along the Southwesterly side of said block to the place of beginning.

Also excepting that part described in deed from Chippewa Lumber and Boom Company, a Corporation, to Chippewa Falls and Western Railway Company, a Corporation, acknowledged June 11th, 1866, recorded in Chippewa County, Vol. 45 of Deed, Page 191, which part so excepted is described as follows: A strip, belt or piece of land Thirty (30) feet in width, being part of the Mill Reserve which is situated on Lot Five (5) in Section Five (5) and Lot Four (4) in Section Six (6), in Township Twenty-eight (28) North, of Range Eight (8) West, comprising all that part of said above described tracts of land lying and being within fifteen (15) feet of the center line of the Chippewa Falls and Western Railway extension, so called, as the same was located, constructed and operated on the date of said conveyance; also including in this exception the right of way and other privileges granted in said last mentioned deed and which are described as follows: The right of way across the Chippewa River and the right of easement to build a railroad bridge across the Chippewa River on said Section Five (5) and to build, erect and maintain piers on said dam for the support of said railroad bridge thereon provided however that such bridge shall not interfere with the water power owned by the grantor and others, or the passage of logs to the mill of said grantor or to other mills that may be erected.

Also conveying and assigning all rights and privileges owned or enjoyed by said party of the first part (Chippewa Lumber and Boom Company) by virtue of the agreements made in said last mentioned deed by said railway company, and which are described in said deed as follows: "and as further consideration of this conveyance the above named grantee hereby agrees that the crossing of the railway track owned by the first named party extending from the mill to its lumber yard shall be at all times at the present grade of said track, and that said crossing shall be maintained by the party of the second part, and that trains running through said Mill Reserve shall not run to exceed six miles per hour through the yards of the grantor, and that all cuts through said property made by the party of the second part or maintained on its line through said lands shall be by said party of the second part fully protected from caving or washing by docking, and that a watchman shall be kept by said second named party to watch said crossing and bridges, at all times, nights and day, at the expense of said party of the second part, and the foregoing agreements shall bind the successors and assigns of the grantee above named, and all damages sustained by said first party, and occasioned by violation thereof shall be a prior lien upon the premises herein conveyed".

Also excepting that part described in a deed from Chippewa Lumber and Boom Company, A Corporation, to Chicago, Milwaukee & St. Paul Railway Company, a Corporation, dated December 23, 1891, recorded in Chippewa County in Vol. 58 of Deeds, on Page 86, which part so excepted is described as follows: An undivided one half interest in a strip belt or piece of land one Hundred (100) feet wide, comprising a part of the Mill Reserve, according to the recorded plat of the City of Chippewa Falls, being a part of Lot Five (5) of Section Five (5), and Lot Four (4) of Section Six (6), all in Township Twenty eight (28) North, Range Eight (8) West, lying Northeasterly of the center line of Bridge Street, so called, which is located between two parallel lines, one of which is drawn parallel to and Fifty (50) feet distant Northerly from and the other of which is drawn parallel to and Fifty (50) feet

DESCRIPTION	
Mill Reserve Continued	distant Southerly from the center line of the main track of the railway of the said Chicago, Milwaukee & St. Paul Railway Company, as the same was on the date of said conveyance located, constructed and operated over and across said premises, and which extends from the center line of said Bridge Street in an Easterly direction to a line drawn at right angles to said center line of main track of said railway, through a point therein which is eight hundred twenty-eight (828) feet Easterly from said center line of Bridge Street, measured along said center line of main track; but excluding from the last above described exception, a strip of land thirty (30) feet in width, one half being on each side of the center line of said railroad, previously conveyed by said first party to the Chippewa Falls and Western Railway Company by deed recorded in Chippewa County in Vol. 45 of Deeds, on Page 191. Also conveying and assigning all rights and privileges owned or enjoyed by said party of the first part by virtue of the agreements made in said last mentioned deed by said Railway Company, and which are described in said deed as follows: "This conveyance is made under the express condition that the said party of the second part shall provide and at all times maintain for the use of said first party or its successors or assigns, and opening sixteen (16) feet in clear width across the strip of land above described, lying Northeasterly of Bridge Street, and under its track, about midway between Duncan Creek, so-called and the point above referred to, eight hundred twenty-eight (828) feet Easterly from the center of Bridge Street". Also excepting that part described in a deed from Chippewa Lumber and Boom Company, a Corporation, to Northern Pacific Railroad Company, a Corporation, dated January 6th, 1892, which is recorded in Chippewa County in Vol. 58 of Deeds, on Page 119, which part so excepted is described as follows: An undivided one half interest in a strip, belt or piece of land One Hundred (100) feet Wide, comprising a part of the Mill Reserve, according to the recorded plat of the City of Chippewa Falls, being a part of Lot Five (5) of Section Five (5) and Lot Four (4) of Section Six (6) all in Township Twenty-eight (28) North, Range Eight (8) West, lying Northeasterly of the center line of Bridge Street, so called, which is included between two parallel lines, one of which is drawn parallel to and Fifty (50) feet distant Northerly from, and the other of which is drawn parallel to and Fifty (50) feet distant Southerly from the center line of the main track of the railway of the said Northern Pacific Railroad Company, as the same was on the date of said conveyance located, constructed and operated over and across said premises, and which extends from the center line of said Bridge Street in an Easterly direction to a line drawn at right angles to said center line of main track of said railway, through a point therein which is eight hundred twenty-eight (828) feet Easterly from said center line of Bridge Street measured along said center line of main track. but excluding from the last above described exception, a strip of land Thirty (30) feet in width, one half being on each side of the center line of said railroad, previously conveyed by said first party to the Chippewa Falls and Western Railway Company by deed recorded in Chippewa County, in Vol. 45 of Deeds, on Page 191. Also conveying and assigning all rights and privileges owned or enjoyed by said party of the first part by virtue of the agreements made in said last mentioned deed by said Railway Company, and which are described in said deed as follows: "This conveyance is made under the express condition that the said party of the second part shall provide and at all times maintain for the use of said first party or its successors or assigns, an opening sixteen (16) feet in clear width across

DESCRIPTION	
Mill Reserve Continued	strip of land above described, lying Northeasterly of Bridge Street and under its track, about midway between Duncan Creek, so called, and the point above referred to, Eight Hundred twenty-eight (828) feet Easterly from the center of Bridge Street." Also except and subject to such rights, if any exist, as may have been acquired by the Chicago, St. Paul, Minneapolis & Omaha Railway Company, the Chicago, Milwaukee & St. Paul Railway Company, the Wisconsin Central Railway Company, and the Minneapolis, St. Paul and Sault Ste. Marie Railway Company, or by either thereof to use and occupy as a right of way such part of said portion of said Mill Reserve as is now used and occupied by the railroad tracks of said railway companies or of either thereof, and except and subject to the easement of any public highways over or across said part of said Mill Reserve. Fee Title bought from Chippewa Lumber and Boom Company. Deed #504 Chippewa County. 108 D 148 See also #506 Chippewa Lumber and Boom Company to Wisconsin-Minnesota Light and Power Company. Deed conveying the dam across the Chippewa River at Chippewa Falls together with all franchises pertaining thereto, Chippewa County. 108 D 158 #3199 Appraisal by Andrew Skolas, John M. Serlie and Robert K. Boyd. Abst. #193
Mill Reserve	See #6063 Correspondence regarding survey made to establish the line of the top of the right bank of Duncan Creek, as it was prior to flood conditions of 4/3/34 when it changed its course easterly. Chippewa County. Not Recorded.
Gov. Lot 5 sec. 5 Gov. Lot 4 Sec. 6 T28N, R8W	That part of the following described lands which lie Northwesterly of the North Line of Church Street extended Southwesterly: That part of the Mill Reserve being in Lot Five (5) of Section Five (5) and Lot Four (4) of Section Six (6), Township Twenty-eight (28) North, Range Eight (8) West lying on the Easterly side of Duncan Creek, except such rights as are owned by Chippewa County under a deed from Thaddeus C. Pound and others to said County, dated February 18, 1869, and recorded in the office of the Register of Deeds in and for Chippewa County, Wisconsin, in Volume 9 of Deeds, page 539, and except that part of said premises described in a deed from the Chippewa Lumber and Boom Company to K.C. Flash, Bishop of the Roman Catholic Diocese of La Crosse, Wisconsin dated December 26, 1883 recorded in the office of the Register of Deed in and for Chippewa County, Wisconsin, in Volume 41 of Deeds, on page 184, and except that part sold to Chippewa County for Highway purposes by deed dated March 3, 1932. See #1450 Lst. Wisconsin Trust Co. to N.S.P.Co. - Partial Release - Chippewa County - 445R251-252 See LS#278 Quit Claim Deed from Northern States Power Co. to City of Chippewa Falls - not recorded

DESCRIPTION				
Mill Reserve in				
Lot 5	5	26	6	
" 4	6	"	"	

See [redacted] Agreement between C. St. P. M. & O. Ry. Co. and Northern States Power Company dated 9/16/33 covering industry track to Chippewa Falls Hydro Plant and Chippewa Falls Gas Plant. Not Recorded

See B/S-65 Omaha R.R. covering 561' of track to N.S.P.Co. See letter filed with [redacted] Permission granted for removal of spur track covered by the above agreement.

Abandoned 100 foot right-of-way and 30 foot right-of-way on Mill Reserve in Lot 5-26-6				
" 4-6-26-6				
lying Easterly of Duncan Creek.				

See Deed [redacted] Quit Claim Deed from C. M. St. P. & P. Ry. and Wisconsin Central Railway Company to Northern States Power Co. conveying abandoned 100 ft. right of way between Duncan Creek and a point which is 626 feet Easterly from the center line of Bridge St., measured along the center line of said right of way; also abandoned 30 ft. right of way between said 100 ft. right of way and a point which is 1221 feet Easterly from the center line of Bridge St. measured along the center line of said right of way. Chippewa County. [redacted]

See also Deed [redacted] Quit Claim Deed from Wisconsin Central Railway Co. to N. S. P. Co. conveying abandoned 30 foot right of way from the above point 1221 feet Easterly of center line of Bridge St. Southeasterly to the Chippewa River. Chippewa County. [redacted]

See B/S-63 Milw. R.R. and Wis. Cent. R.R. covering 1955' of track and B/S-64 Milw. R.R. Wis. Cent. R.R. and Omaha R.R. covering 1126' of track to N.S.P.Co.

Abandoned 30 ft. right of way in				
Lot 3	5	26	6	
" 4	"	"	"	
" 5	"	"	"	

See Deed [redacted] Quit Claim Deed from Wisconsin Central Ry. Co. to Northern States Power Co. Chippewa County. [redacted]

Part of				
Lot 3	5	26	6	
" 4	"	"	"	
" 1	6	"	"	

Those portions lying South of a line which is 50 ft. North of and parallel with the center line of the main track of the Wisconsin Central Railway Co. as now operated, and North of the C. St. P. M. & O. Ry. Co. right of way. Deed Book #2. Page 417. N. S. P. Co. conveys fee title to Wisconsin Central Railway Company. [redacted]

Abstract entry

150.

Chippewa Lumber and Boom Company, a corporation of Wisconsin, principal office in Chippewa Falls, Chippewa Co., Wis.

WARRANTY DEED
Dated June 13, 1914
Ack'd June 13, 1914
Rec'd June 29, 1914 4:20 P.M.
Vol. 108 Deeds, Pg. 146-157
Consid. $1.00 & other valuable consid.

to

Wisconsin Minnesota Light and Power Company, a corporation of Wisconsin principal office in LaCrosse, LaCrosse Co., Wis.

CONVEYS:

All that part of the Mill reserve, as shown on the Original Plat of the Village (now City) of Chippewa Falls, situated on Lot 5 of Sec. 5 and Lot 4 of Sec. 6, Town 28 North of Range 8 West, lying and being on the easterly side of Duncan Creek, together with the saw mill building thereon; excepting that part thereof as described in a deed from Thaddeus C. Pound and others to Chippewa County dated Feb. 18, 1869, which is recorded in Vol. 9 Deeds, page 539, other than such reversionary interest as said party of the first part has therein, which part so excepted is described as follows: A public right of highway from the junction of Bridge and Church Streets in Chippewa Falls, as said streets were traveled on the date of said deed, to a point on the North bank of the Chippewa River, bearing N. 71° E., 495 feet from a point on the section line between said Sec. 5 and 6, 50 feet North of the meanderpost on said section line, and also all the land necessary at said last described point upon which to erect a bridge, so long as the said Chippewa County shall maintain said bridge above mentioned:

Also excepting that part thereof described in a deed from the Union Lumbering Company to The Chippewa Falls Gas Light Company, a corporation, dated July 11, 1876, which is recorded in Vol. 24 of Deeds on page 490, which part so excepted is described as follows: Beginning at a point which is 20 feet in a Southerly direction from the most Southerly corner of the foundry building, and in a straight line with the front of said building; thence running Southwesterly at right angles with said front line of the foundry, 58 feet; thence exactly parallel with said front, being nearly North 45°, 30' W., 200 feet; thence at right angles Northeasterly 100 feet; thence at right angles Southeasterly, 200 feet; thence at right angles Southwesterly 42 feet to the point of beginning:

Also excepting that part thereof described in a deed from the Chippewa Lumber and Boom Company, a corporation, to Chippewa Falls Gas Light Company, a corporation, dated July 28, 1887, which is recorded in Vol. 40 of Deeds on page 588, which part so excepted is described as follows: Beginning at the most Westerly corner of the above described tract of land, which is 100 feet by 200 feet; thence running in a Northwesterly direction on a continuation of the Southwesterly side of said tract 35 feet; thence Northeasterly at right angles 100 feet; thence Southeasterly at right angles 35 feet to the most Northerly corner of said tract; thence Southwesterly at right ang to place of beginning; also including in this exception the right of way and other privileges granted in said deed, and which are describe as follows: The right of way in common with said Chippewa Falls Gas Light Company, its successors and assigns, by way of the passageway in use from the bridge across Duncan Creek near its mouth on said Lot 5 to the Gas House (which is now owned by the Chippewa Valley Railway Light & Power Company), and the right to maintain the main gas pipe line under said passage way and under the street in use on said Lot 5 as said pipe was located on the date of said conveyance:

Also excepting that part thereof described in a deed from Chippewa Lumber and Boom Company, a corporation to K. C. Flash, Bishop of the Roman Catholic Diocese, of La Crosse, Wisconsin, dated

(Continued on next sheet.)

No. 150 continued:

Dec. 28, 1883, which is recorded in Vol. 41 of Deeds on page 184, which part so excepted is described as follows: Beginning at the Southeasterly corner of Block 10 of the Original Plat of the Village (now city) of Chippewa Falls, then running Southwesterly on a continuation of the line of the Southeasterly side of said Block, 245 feet and 10 inches; thence North 35°, 45' West, 307 9/12 feet; thence North 50° East, 159 8/12 feet; thence North on the same line to the Westerly corner of said Block; thence Southeasterly along the Southwesterly side of said Block to the place of beginning:

Also excepting that part thereof described in a deed from Chippewa Lumber and Boom Company, a corporation to Chippewa Falls and Western Railway Company, a corporation, acknowledged June 11, 1886, which is recorded in Vol. 45 of Deeds on page 191, which part so excepted is described as follows: A strip belt or piece of land 30 feet in width, being part of the Mill Reserve which is situated on Lot 5 in Sec. 5 and Lot 4 in Sec. 6, Town 28, Range 8 West, comprising all that part of said above described tracts of land lying and being within 15 feet of the center line of the Chippewa Falls and Western Railway extension, so called, as the same was located, constructed and operated on the date of said conveyance;

Also including in this exception the right of way and other privileges granted in said last mentioned deed, and which are described as follows: The right of way across the Chippewa River and the right of easement to build a railroad bridge across the Chippewa River on said Sec. 5 and to build, erect and maintain piers on "Said" dam for the support of said railroad bridge thereon, provided however that such bridge shall not interfere with the water power owned by the grantor and others or the passage of logs to the mill of said grantor or to other mills that may be erected:.

Also conveying and assigning all rights and privileges owned or enjoyed by said party of the first part by virtue of the agreements made in said last mentioned deed by said Railway Company and which are described in said deed as follows, "And as a further consideration of this conveyance the above named grantee hereby agrees that the crossing of the railway track owned by the first named party extending from the Mill to its Lumber yard shall be at all times at the present grade of said track and that said crossing shall be maintained by the party of the second part, and that trains running through said Mill Reserve shall not run to exceed six miles per hour through the yards of the grantor, and that all cuts through said property made by party of second part or maintain on its line through said land shall be by said party of the second part fully protected from caving or washing by docking and that a watchman shall be kept by said second named party to watch said crossing and bridges at all times, hights and day, at the expense of said party of the second part, and the foregoing agreements shall bind the successors and assigns of the grantee above named, and all damages sustained by said first party and occasioned by violation thereof, shall be a prior lien upon the premises herein conveyed.

Also excepting that part thereof described in a deed from Chippewa Lumber and Boom Company, a corporation to Chicago, Milwaukee and St. Paul Railway Company, a corporation, dated Dec. 23, 1891, which is recorded in Vol. 58 of Deeds, page 86, which part so excepted is described as follows: An undivided 1/2 interest in a strip, belt or piece of land 100 feet wide, comprising and part of the Mill reserve according to recorded plat of Chippewa Falls being a part of Lot 5 of Sec. 5 and Lot 4 of Sec. 6, all in Town 28 North of Range 8 West, lying Northeasterly of the center line of Bridge Street, so called, which is included between 2 parallel lines, one of which is drawn parallel to and 50 feet distant Northerly from, and the other of which is drawn parallel to and 50 feet distant Southerly from the center line of the main track of the railway of the said Chicago, Milwaukee and St. Paul Railway Company, as the same was on the date of said conveyance located, constructed and operated over and across said premises; and which extends from the center line of said Bridge Street in an Easterly direction to a line drawn at right angles to said center line of main track of said railway,

(Continued on next sheet)

No. 150 continued:

through a point therein which is 828 feet Easterly from said center line of Bridge Street measured along said center line of main track; but excluding from the last above described exception, a strip of land 30 feet in width, 1/2 being on each side of the center line of said railroad, previously conveyed by said first party to the Chippewa Falls and Western Railway Company by deed recorded in Vol. 45 of Deeds on page 191:

Also conveying and assigning all rights and privileges owned or enjoyed by said party of the first part by virtue of the agreements made in said last mentioned deed by said Railway Company, and which are described in said deed as follows: "This conveyance is made under the express condition that the said party of the second part shall provide and at all times maintain for the use of said first party or its successors or assigns, an opening 16 feet in clear width across the strip of land above described, lying Northeasterly of Bridge Street and under its track, about midway between Duncan Creek, so called, and the point above referred to, 828 feet Easterly from the center of Bridge Street;"

Also excepting that part thereof described in a deed from Chippewa Lumber and Boom Company, a corporation, to Northern Pacific Railroad Company, a corporation dated Jan. 6, 1892, which is recorded in Vol. 58 of Deeds on page 119, which part so excepted is described as follows: An undivided 1/2 interest in a strip, belt or piece of land 100 feet wide, comprising a part of the Mill Reserve, according to the recorded plat of the City of Chippewa Falls, being a part of Lot 5 of Sec. 5 and Lot 4 of Sec. 6, Town 28 North of Range 8 West, lying Northeasterly of the center line of Bridge Street, so called, which is included between two parallel lines, one of which is drawn parallel to and 50 feet distant Northerly from, and the other of which is drawn parallel to and 50 feet distant Southerly from the center line of the main track of the railway of the said Northern Pacific Railroad Company as the same was on the date of said conveyance located, constructed and operated over and across said premises, and which extends from the center line of said Bridge Street in an Easterly direction to a line drawn at right angles to said center line of main track of said railway, through a point therein which is 828 feet Easterly from said center line of Bridge Street measured along said center line of main track; but excluding from the last above described exception a strip of land 30 feet in width, 1/2 being on each side of the center line of said railroad, previously conveyed by said first party to the Chippewa Falls and Western Railway Company by deed recorded in Vol. 45 of Deeds, page 191:

Also conveying and assigning all rights and privileges owned or enjoyed by said party of the first part by virtue of the agreements made in said last mentioned deed by said Railway Company, and which are described in said deed as follows: "this conveyance is made under the express condition that the said party of the second part shall provide and at all times maintain for the use of said first party or its successors or assigns, an opening 16 feet in clear width across the strip of land above described, lying Northeasterly of Bridge Street, and under its track about midway between Duncan Creek so called, and the point above referred to, 828 feet Easterly from the center of Bridge Street":

Also except and subject to such rights, if any exist, as may have been acquired by the Chicago, St. Paul, Minneapolis and Omaha Railway Company, the Chicago, Milwaukee and St. Paul Railway Company, the Wisconsin Central Railway Company, and the Minneapolis, St. Paul and Sault Ste. Marie Railway Company, or by either thereof to use and occupy as a right of way such part of said portion of said Mill Reserve as is now used and occupied by the railroad tracks of said Railway Companies, or of either thereof, and except and subject to the easement of any public highways over or across said part of said Mill Reserve:

Also conveying and assigning all the lands and all the riparian and other rights andprivileges reserved to and by the said party of the first part in and by the terms of a certain deed from the Chippewa Lumber and Boom Company, a corporation to the Chicago, Milwaukee and St. Paul Railway Company, a corporation, dated May 13, 1912,

(Continued on next sheet)

No. 150 continued:

which is recorded in Vol. 103 of Deeds, page 421, and which conveys an undivided 1/2 of a portion of Lots 3 and 4 of Sec. 6, Town 28 North of Range 8 West; which rights and privileges are described in said deed as follows: "Said party of the first part, however, hereby expressly reserves to itself, and to its successors and assigns, all riparian rights of every kind and nature whatsoever in any manner or in any wise pertaining to or connected with said above described premises, together with the right to fill in, reclaim, use and enjoy the submerged and unsubmerged lands lying immediately South of the South line of said above described premises, to the same extent and as fully and completely as though this conveyance had not been made.

Also conveying and assigning all the lands and all the riparian and other rights and privileges reserved to and by the said party of the first part in and by the terms of a certain deed from the Chippewa Lumber and Boom Company, a corporation, to the Wisconsin Central Railway Company, a corporation, dated May 13, 1912, which is recorded in Vol. 103 of Deeds on page 436, and which conveys an undivided 1/2 of a portion of Lots 3 and 4 of Sec. 6, Town 28 North of Range 8 West, which rights and privileges are described in said deed as follows: "Said party of the first part, however, hereby expressly reserves to itself and to its successors and assigns all riparian rights of every kind and nature whatsoever in any manner or in any wise pertaining to or connected with said above described premises, together with the right to fill in, reclaim, use and enjoy the subjerged and unsubmerged lands lying immediately south of the south line of said above described premises, to the same extent and as fully and completely as though this conveyance had not been made."

Also conveying and assigning all the lands and all the riparian and other rights and privileges reserved to and by the said party of the first part in and by the terms of a certain deed from the Chippewa Lumber and Boom Company, a corporation to the Wisconsin Central Railway Company, a corporation, dated Oct. 14, 1912, which is recorded in Vol. 103 of Deeds, page 568, and which conveys portions of said Mill Reserve, being located on lot 5 of Sec. 5 and Lot 4 of Sec. 6, Town 28 North of Range 8 West; which rights and privileges are described in said deed as follows: "Expressly excepting, however, from this grant and conveyance, and reserving to said party of the first part, its successors and assigns, all riparian rights of every kind and nature whatsoever in any manner or in any wise appurtenant to or connected with said described parcels of land, together with the right to fill in, reclaim, use and enjoy the submerged and unsubmerged lands lying and being immediately adjacent to said described parcels of land where the same is bounded by the bank of the Chippewa River or by the bank of Duncan Creek, to the same extent and as fully and completely as though this conveyance had not been made."

Also conveying Lot 5 of Sec. 4, Town 28 North of Range 8 West, with other land, except and subject to the right of the Chippewa Falls Water Works Company, its successors and assigns, to maintain, repair, renew, use and operate the water mains and attachments thereto now located on said premises, and expressly reserving to it and them the right to enter upon said premises at any time for the purpose of taking and removing therefrom all water pipes, connections and attachments to it or them belonging.

Also conveying Lots 1 and 2 of Sec. 2, Town 28, Range 8 West, with other land.

Also conveying Lot 5 in Sec. 3, Town 28, Range 8 West, except the right of way granted by the Chippewa Lumber and Boom Company to the Eau Claire, Chippewa Falls and Northeastern Railway Company by a deed dated March 13, 1902, which is recorded in Vol. 84 of Deeds on page 8; which deed conveys a strip of land across said above described land, 100 feet in width, being 50 feet on each side of the center line of said Railway Company's railroad.

Also conveying Lot 4 in Sec. 3, Town 28 North of Range 8 West, except the right of way granted by the Chippewa Lumber and Boom Company to the Eau Claire, Chippewa Falls and Northeastern Railway Company by a deed dated March 13, 1902, which is recorded in Vol. 84 of Deeds, page 9; which deed conveys a strip of land across said

(Continued on next sheet)

No. 150 continued:

above described land 150 feet in width, being 75 feet on each side of the center line of said Railway Company's railroad.

Also conveying Lots 1, 2, 8 and 9 in Sec. 3, Town 28, Range 8 West, with other land.

It is expressly understood and agreed by the parties hereto that as to such of lands and premises above described as are affected thereby, this grant and conveyance is made subject to all the terms and conditions of 3 certain contracts now existing between the grantor herein named and the Chippewa Falls Water Works and Lighting Company one of which contracts is dated Sept. 5, 1896, and two thereof are dated March 16, 1899 concerning all of the terms and conditions of which three contracts the grantee herein named hereby admits that it is fully advised, all of which three contracts the grantee herein named hereby assumes and agrees to keep and perform in so far as the same or any part thereof are obligatory on the part of the grantor herein.

All of said premises are conveyed subject to all legal highways and to all existing railroad rights of way.

This conveyance has been duly authorized by the stockholders of said Chippewa Lumber & Boom Company and directed by its Board of Directors.

Chippewa Lumber & Boom Company
by: O. H. Ingram, Vice President
Countersigned by: Wm. Irvine, Secretary

With corporate seal.

151.

Wisconsin-Minnesota Light & Power Company, a corporation of Wisconsin, principal office in LaCrosse, Wisconsin,

to

Harris Trust and Savings Bank, a corporation of Illinois, principal office in Chicago, Illinois, as Trustee and Albert W. Harris, as Co-Trustee.

TRUST DEED
Dated May 1, 1914
Ack'd June 22, 1914
Rec'd June 23, 1914 9:55AM
Vol. 59 Mtgs., Pg. 500-565
Consid. $1.00 and to secure payment of bonds to the amount of $20,000,000

CONVEYS:

That part of the mill reserve being in Lot 5 of Sec. 5 and Lot 4 of Sec. 6, lying on the Easterly side of Duncan Creek, except such rights as are owned by Chippewa County under a deed from Thaddeus C. Pound and others to said county, dated February 18, 1869, and recorded in the office of the Register of Deeds in and for Chippewa Co., Wis., in Vol. 9 of Deeds on page 539, and except that part of said premises described in a deed from the Chippewa Lumber and Boom Company to K. C. Flash, Bishop of the Roman Catholic Diocese of LaCrosse, Wisconsin, dated Dec. 28, 1883, recorded in the office of the Register of Deeds in and for Chippewa Co., Wis., in Vol. 41 of Deeds on page 184. Said premises constituting the site of the Gas Works, Hydro-Electric Plants and Dam of the Company in the City of Chippewa Falls, with other land.

No. 104

Union Lumbering Company,

To

William A. Wallace.

Quit Claim Deed.
Dated & Ack'd Aug. 20, 1878
Rec'd Dec. 23, 1879, 3:40 PM
Vol. 29 Deeds, Page 1.

Quit claim,-

Description	Sec.	Town	Range
Lot 5	5	28	8
Lot 4	6	"	"

(and other land)

Abstracter's note:- Consideration given:-
In consideration of satisfaction of Judgments against said Company.

No. 105

William A. Wallace,

To

The Chippewa Lumber
and Boom Company.

Quit Claim Deed, $850,000
Dated Dec. 19, 1879.
Ack'd Dec. 20, 1879.
Rec'd Dec. 20, 1879, 4:30 PM
Vol. 27 Deeds, P. 632.

Grant all those the several named and described tracts and lots of land, water rights, mills, booms, dams, franchises and real and personal property of every kind and character, purchased, owned and held by the said William A. Wallace under and by virtue of two deeds of conveyance from Stanton Barnard and Thomas L. Halbert, Trustees of the Union Lumbering Company, both dated Aug. 15, 1878; and under two quit claim deeds from the Union Lumbering Company to the said William A. Wallace dated Aug. 20, 1878, and two deeds executed by said trustees dated Aug. 25, 1879, situated in Chippewa County, Wisconsin, which said lands are described as follows:-

Lot 5 Sec. 5 and Lot 4 Sec. 6, Town 28, Range 8.

Also the following City property described as follows, to-wit, situated in Chippewa Falls:-

Lot 9 in Block 7, (and other lots).

Also the following upon which are located the mills, booms, dams and other improvements formerly owned by the Union Lumbering Company, to-wit:-

That portion of Lot 5 Sec. 5 and Lot 4 in Sec. 6, Town 28, Range 8, known as Mill Reserve as appears from the recorded plat of the Village (now City) of Chippewa Falls, containing about 30 acres, except that portion of said Lot 5 described in a conveyance to the Chippewa Falls Gas Light Company. (Other land described).

Also all the booms, piers, structures and other improvements and fixtures connected with said booms, located in Chippewa River and Yellow River in the said County of Chippewa. Also all the dams and improvements connected therewith, situated, erected and built in Chippewa River, Yellow River and in Duncan Creek. To have and to hold the lands, franchises, rights and premises hereby conveyed for such title as and no other or greater title than the said William A. Wallace now hath therein.

(108) Lot Four (4), of Section Thirty (30), Township Thirty (30) North, Range Seven (7) West.

(109) Lots One (1), Two (2), and that part of Lot Three (3) lying West of the highway, in Section Thirty-one (31), Township Thirty (30) North, Range Seven (7) West.

(110) That part of Lots Four (4) and Five (5) of Section Thirty-one (31), Township Thirty (30) North, Range Seven (7) West, lying west of the following described line: Beginning at a point on the South line of said Lot Four (4), Two hundred six (206) feet West of the intersection of the South line of said Lot Four with the West line of railroad right of way; running thence Northeasterly to intersection with Prospect avenue in Badger State Land Company's plat of Jim Falls, said intersection being a point One hundred eighty-five (185) feet distant Northwesterly of intersection of West line of railroad right of way with Prospect avenue; running thence Northwesterly along Prospect avenue to West corner of said plat of Jim Falls; running thence Northeasterly along Northwest line of said plat of Jim Falls to intersection of North line of said Lot Five, containing Forty-one and two-tenths (41.2) acres, more or less.

(111) Lot Six (6), Section Thirty-one (31), Township Thirty (30) North, Range Seven (7) West, provided however that the water shall not be permanently maintained at an elevation higher than Nine hundred two (902) feet, sea level datum, based on the United States Government Survey Bench Mark, on the City Building, at Chippewa Falls, Wisconsin, and that not more than Eighty-six hundredths (.86) of an acre shall be permanently submerged.

(112) Lots One (1), Two (2) and Three (3) in Section Thirty-six (36), Township Thirty (30) North, Range Eight (8) West.

Site of the Chippewa Falls Gas Plant, Hydro Electric Plant, Dam and Flowage Lands:

(1) That part of the mill reserve being in Lot Five (5) of Section Five (5) and Lot Four (4) of Section Six (6), Township Twenty-eight (28) North, Range Eight (8) West, lying on the Easterly side of Duncan Creek, except such rights as are owned by Chippewa County under a deed from Thaddeus C. Pound and others to said County, dated February 18, 1869, and recorded in the office of the Register of Deeds in and for Chippewa County, Wisconsin, in Volume 9 of Deeds, page 539, and except that part of said premises described in a deed from the Chippewa Lumber and Boom Company to K. C. Flash, Bishop of the Roman Catholic Diocese of La Crosse, Wisconsin, dated December 28, 1883, recorded in the office of the Register of Deeds in and for Chippewa County, Wisconsin, in Volume 41 of Deeds, on page 184, and except that part sold to Chippewa County for Highway purposes by deed dated March 3, 1932.

(2) Lots Three (3) and Four (4) of Section Five (5) and Lot One (1) of Section Six (6), Township Twenty-eight (28)

Trust Indenture 41-47 recorded Vol. 145 No page 150 Doc# 244351

Portion Donated To City of Chippewa Falls LS# 1294

Partial Sold to City of Chippewa Falls for new Highway Bridge - 4175 SEE LS#3336

Sold to State of WI Chippewa Bridge LS#970 Doc#398835

MARATHON & MONROE PARKER RUSK SAWYER CLARK DUNN EAU CLAIRE

North, Range Eight (8) West, except that part lying South of a line which is Fifty (50) feet North of and parallel with the center line of the main track of the Wisconsin Central Railway Company as now operated, and North of the Chicago, St. Paul, Minneapolis & Omaha Railway Company right of way, except that part of Lot Four (4) sold to Chippewa County for Highway purposes by deed dated March 3, 1932.

(3) Lot Seven (7), Section Three (3), Township Twenty-eight (28) North, Range Eight (8) West.

(4) Lots One (1), Two (2), Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Fourteen (14), Fifteen (15) and Sixteen (16) in Block Eight (8), Lots One (1), Two (2), Thirteen (13) and Fourteen (14) in Block Twenty-nine (29), Lots One (1), Two (2), Thirteen (13) and Fourteen (14) in Block Thirty (30), Lots One (1), Two (2), Thirteen (13) and Fourteen (14) in Block Fifty-nine (59) of the original plat of the Village, now City, of Chippewa Falls.

(5) Lot Thirteen (13), Block Eight (8), except the North Twenty-four (24) feet thereof, of the Original Plat of Chippewa Falls.

(6) Lots Three (3) and Twelve (12), Block Twenty-nine (29), except the North Thirty (30) feet thereof, of the Original Plat of Chippewa Falls.

(7) Lots Three (3) and Twelve (12), Block Thirty (30), except the North Thirty (30) feet thereof, of the Original Plat of Chippewa Falls.

(8) Lots Three (3) and Twelve (12), Block Fifty-nine (59), except the North Thirty (30) feet thereof, of the Original Plat of Chippewa Falls.

Lots 2,3,4 & 5 and part of 7 sold to Willis Loew, et al 10-29-58 DB#3 P-434

(9) Lots Two (2), Three (3), Four (4), Five (5), Six (6) and Seven (7) in Block Sixteen (16) of the Eastern Addition to the City of Chippewa Falls.

The right and privilege to perpetually overflow lands as described in Paragraphs numbered Ten (10) to Twenty-five (25) inclusive.

The right and privilege perpetually to flow and overflow the following described land at any and all times, by raising the waters of the Chippewa River, as the same may from time to time be raised, by increasing the height of the present dam across the Chippewa River in the City of Chippewa Falls, to such height as shall be from time to time determined for the purpose of raising or increasing the water power.

(10) Lot Six (6) of Section Three (3), Township Twenty-eight (28) North, Range Eight (8) West.

(11) Lots One (1), Two (2), Three (3) and Four (4) of Section Four (4), Township Twenty-eight (28) North, Range Eight (8) West.

(12) Lot Five (5), Section Four (4), Township Twenty-eight (28) North, Range Eight (8) West.

The right and privilege perpetually to flow, flood and overflow any and all portions of the following described land to such an extent as it or they may or shall deem necessary or convenient for the full use and enjoyment of any and all dams and reservoirs on or across the Chippewa River, either as said dams and reservoirs are now constructed and maintained or as they may be hereafter constructed, re-constructed, raised and maintained; and to raise and lower the water in the ponds and reservoirs created by said dams at any and all times and to such an extent as shall be deemed necessary or convenient. Provided, however, that said lands shall not be submerged to a greater extent than the same would be submerged by the flowage of a dam across the Chippewa River with its crest five (5) feet higher than the crest of the present dam across the Chippewa River at Chippewa Falls, Wisconsin, whether said flowage be created by the backwater from said dam or dams or otherwise.

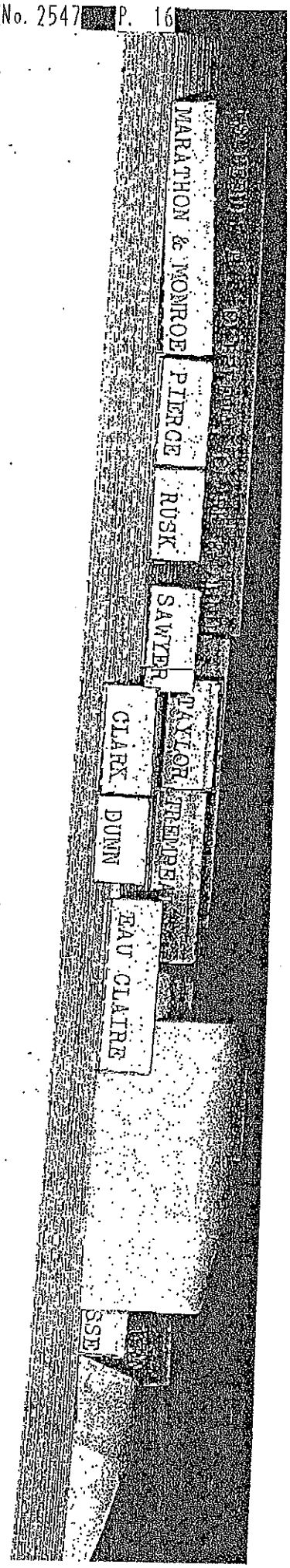
(13) Lot Six (6), Section Four (4), Township Twenty-eight (28) North, Range Eight (8) West.

(14) That part of Lots One (1), Two (2) and Three (3) of Section Five (5), Township Twenty-eight (28) North, Range Eight (8) West, described as follows: A strip of land One hundred (100) feet wide being Fifty (50) feet on each side of the center line of the main track of the Chicago, St. Paul, Minneapolis & Omaha Railway Company.

The perpetual right and privilege to flow, flood and overflow the following described lands by the backwater from any dam which may, at any time hereafter, be constructed, renewed or reconstructed in and across the Chippewa River in Chippewa County, with its crest not higher than Eight Hundred forty-six (846) feet above sea level as determined by the records of the United States Geological Survey.

(15) That part of Lot One (1), Section Five (5), Township Twenty-eight (28) North, Range Eight (8) West described as follows:

Beginning at a point on the East line of said Lot Seventy-one and eight tenths (71.8) feet North of the Northerly line of right of way formerly owned by the Chicago, St. Paul, Minneapolis & Omaha Railway, running thence Southwesterly on a line which is Sixty-six (66) feet Northerly from and parallel with said Northerly line of right of way Three hundred and sixty-three and seven-tenths (363.7) feet, thence North parallel with the East line of said Lot One thousand two hundred eighty-three and two-tenths (1283.2) feet to the Southerly bank of the Chippewa



River, thence Northeasterly along Southerly bank of said River Three hundred eighty-three and seven-tenths (383.7) feet to the Northeast corner of said Lot, thence South on East line of said Lot One thousand three hundred twenty-eight and two-tenths (1328.2) feet to the place of beginning.

The perpetual right and privilege to flow, flood and overflow any and all portions of the following described lands, at any and all times and to such an extent as the same would be flooded during any stage of water by the dam at Chippewa Falls, Wisconsin, with flash boards thereon, or any dam built to replace the same, and to raise and lower the water in the ponds or reservoirs created by said dams at any and all times and to such an extent as may be deemed necessary or convenient.

(16) Lot One (1), Section Five (5), Township Twenty-eight (28) North, Range Eight (8) West, lying North of vacated Omaha right of way, except that portion described as follows:

Beginning at a point in the East line of said Lot, seventy-one and eight-tenths (71.8) feet North of the Northerly line of the Right of Way formerly owned by the Chicago, St. Paul, Minneapolis & Omaha Railway; running thence Southwesterly on a line which is Sixty-six (66) feet Northerly from and parallel with said Northerly line of Right of Way Three hundred sixty-three and seven-tenths (363.7) feet; thence North parallel with the East line of said Lot, Twelve hundred eighty-three and two-tenths (1283.2) feet to the Southerly bank of the Chippewa River, and thence Northeaserly along said Southerly bank of said river, Three hundred eighty-three and seven-tenths (383.7) feet to the Northeast corner of said Lot; thence South on the East line of said Lot, Thirteen hundred twenty-eight and two-tenths (1328.2) feet to place of beginning.

(17) That part of Lot Two (2) lying North of vacated Omaha railroad right of way, Lots Seven (7) and Eight (8), the Northwest Quarter of the Northeast Quarter (NW¼ of NE¼), that part of the Northeast Quarter of the Northwest Quarter (NE¼ of NW¼) lying East of railway, and that part of Lot Six (6) lying East of railway, of Section Five (5), Township Twenty-eight (28) North, Range Eight (8) West.

The perpetual right and privilege to flow, flood and overflow the following described lands by the backwater from any dam which may, at any time hereafter, be constructed, renewed or reconstructed in and across the Chippewa River in Chippewa County, with its crest not higher than Eight hundred forty-one (841) feet above sea level as determined by the records of the United States Geological Survey.

(18) Those parts of Lots Three (3) and Four (4) of Section Five (5) and Lot One (1) of Section Six (6), Township Twenty-eight (28) North, Range Eight (8) West, which lie Southerly of a line running parallel with and Fifty (50) feet distant Northerly

from the center line of the main track of the railroad of Wisconsin Central Railway Company, and Northerly of the right of way of the Chicago, St. Paul, Minneapolis & Omaha Railway Company, as said railroads are now located, staked out, established and operated over and across said premises.

The perpetual right and privilege to flow, flood and overflow any and all portions of the following described lands, at any and all times and to such an extent as the same would be flooded during any stage of water by the dam at Chippewa Falls, Wisconsin, with flash boards thereon, or any dam built to replace the same, and to raise and lower the water in the ponds or reservoirs created by said dams at any and all times and to such an extent as may be deemed necessary or convenient.

(19) That part of Government Lots Three (3) and Four (4) of Section Six (6), Township Twenty-eight (28) North, Range Eight (8) West, bounded on the East by Bridge Street, on the North by River Street, on the West by the Easterly line of Taylor Street produced, and on the South partly by the Chippewa River, beginning at the intersection of the West line of Bridge Street by the South line of River Street as said streets are now used, thence in a Southerly direction on a continuation of said Westerly line of Bridge Street Two Hundred (200) feet, thence in a Westerly direction on a line parallel with River Street between Bridge and Island Streets Four Hundred nine and five-tenths (409.5) feet, thence Westerly on a straight line to a point on the Westerly line of Island Street produced to the river Two Hundred and five-tenths (200.5) feet from the Northwesterly corner of River and Island Streets, thence Westerly on a straight line to a point on the Easterly line of Pine Street produced to the river One Hundred forty-six and five-tenths (146.5) feet from the Northeasterly corner of River and Pine Streets, thence Westerly on a straight line to a point on the Easterly line of Taylor Street produced to the river One Hundred twenty-six (126) feet from the Northeasterly corner of Taylor and River Streets, thence Northerly on the Easterly line of Taylor Street produced to the Southerly line of River Street, thence Easterly on the Southerly side of River Street to the place of beginning.

(20) That part of Government Lot Four (4) of Section Six (6), Township Twenty-eight (28) North, Range Eight (8) West, being a part of the Mill Reserve shown on the Original Plat of the Village (now City) of Chippewa Falls, and of record in the office of the Register of Deeds in and for Chippewa County, State of Wisconsin, described as follows: Commencing at a point on the Southwesterly line of Bridge Street Two Hundred Seventy-five (275) feet Southeasterly from the intersection of the Southwesterly line of Bridge Street with the Southeasterly line of River Street as said streets are now used, thence Southwesterly on a line parallel with the Southeasterly line of said River Street One Hundred eighty (180) feet, thence Northwesterly on a line

MARATHON & MONROE PIERCE RUSK SAWYER CLARK DUNN EAU CLAIRE SSE

parallel with the Southwesterly line of said Bridge Street Seventy-five (75) feet, thence Southwesterly on a line parallel with the Southeasterly line of said River Street Two Hundred twenty-nine and five-tenths (229.5) feet, thence in a Southeasterly and Northeasterly direction on the line of the top of the right bank of the Chippewa River and of Duncan Creek to the Southwesterly line of said Bridge Street, and thence Northwesterly on the Southwesterly line of Bridge Street to the place of beginning.

(21) That part of Government Lot Five (5) in Section Five (5) and Lot Four (4) in Section Six (6), Township Twenty-eight (28) North, Range Eight (8) West, being a part of said Mill Reserve that is bounded on the Southwest by Bridge Street, on the East, Northeast and North by the line of the top of the right bank of Duncan Creek and by the railroad right of way owned in common by Minneapolis, St. Paul & Sault Ste. Marie Railway Company and Chicago, Milwaukee and St. Paul Railway Company.

The right and privilege perpetually to flow and overflow the following described land at any and all times, by raising the water of the Chippewa River, as the same may from time to time be raised, by increasing the height of the present dam across the Chippewa River in the City of Chippewa Falls, to such extent as shall from time to time determine for the purpose of creating or increasing the water power.

(22) Lots One (1) and Two (2), Northwest Quarter of Southeast Quarter (NW¼ of SE¼), North Half of Southwest Quarter (NW½ of SW¼), Northwest Quarter (NW¼), West Half of Northeast Quarter (W½ of NE¼) and Southeast Quarter of Northeast Quarter (SE¼ of NE¼) of Section Thirty-three (33), Township Twenty-nine (29) North, Range Eight (8) West.

The perpetual right and privilege to flow, flood and overflow any and all portions of the following described lands, at any and all times and to such an extent as the same would be flooded during any stage of water by the dam at Chippewa Falls, Wisconsin, with flash boards thereon, or any dam built to replace the same, and to raise and lower the water in the ponds or reservoirs created by said dams at any and all times and to such an extent as may be deemed necessary or convenient.

(23) Lot Three (3) in Section Thirty-three (33), Township Twenty-nine (29) North, Range Eight (8) West, except that portion described in deed from William A. Wallace to Joseph Crowley dated November 16, 1878, recorded in Chippewa County in Volume 27 of Deeds, page 301.

(24) That part of Lot Four (4) in Section Thirty-three (33), Township Twenty-nine (29) North, Range Eight (8) West described as follows: Commencing at a point on the South line of said Section Thirty-three (33), Seven hundred fifty-five (755) feet East of the Southwest corner thereof, thence North Twenty-one and one-half degrees (21½°) East Two hundred ninety-two (292) feet

to the point of beginning; thence North, Forty-nine and one-half degrees (49½°) West to the Southerly boundary line of the land heretofore conveyed by Union Lumbering Company to Joseph Crowley, by warranty deed recorded in the office of the Register of Deeds of Chippewa County, Wisconsin, in Volume 27 of Deeds, at page 301; thence Southwesterly and Westerly along said boundary line to the West line of said Lot Four (4); thence South on said West line to the Southwest corner of said Lot Four (4); thence East on the South line of said Lot Four (4) to the Chippewa River; thence Northeasterly along the bank of said river to a point which is South, Forty-nine and one-half degrees (49½°) East from the point of beginning; thence North, Forty-nine and one-half degrees (49½°) West, to the point of beginning.

The perpetual right and privilege to flow, flood and overflow the following described lands by the backwater from any dam which may at any time hereafter, be constructed, renewed or reconstructed in and across the Chippewa River in Chippewa County, with its crest not higher than Eight hundred forty-three (843) feet above sea level as determined by the records of the United States Geological Survey.

(25) That part of Lot Four (4), Section Thirty-three (33), Township Twenty-nine (29) North, Range Eight (8) West described as follows: Commencing at a point on the South line of Section Thirty-three (33), Township Twenty-nine (29) North, Range Eight (8) West, Seven hundred and fifty-five (755) feet East of the Southwest corner of said Section Thirty-three (33), thence North Twenty-one and one-half degrees (21½°) East Two hundred and ninety-two (292) feet to the point of beginning, thence North Forty-nine and one-half degrees (49½°) West to the Southerly boundary line of the land heretofore conveyed by the Union Lumbering Company to Joseph Crowley by Warranty Deed, recorded in the Office of Register of Deeds of Chippewa County, Wisconsin, in Vol. 27 of Deeds at Page 301, thence Northeasterly along said boundary line to the East line of Government Lot Four (4) in said Section Thirty-three (33), thence South along East line of said Lot Four (4) to the Chippewa River, thence Southwesterly, along the bank of said River, to a point which is South Forty-nine and one-half degrees (49½°) East from the point of beginning, thence North Forty-nine and one-half degrees (49½°) West to the point of beginning, containing Seven and two tenths (7.2) acres, more or less.

Site of the Cornell Dam and Flowage Lands:

(1) All of Government Lot Six (6), Section Eighteen (18), Township Thirty-one (31) North, Range Six (6) West, except the following described tracts:

Commencing at the quarter post between Sections Eighteen (18) and Nineteen (19), Township Thirty-one (31) North, Range Six (6) West, running from said point West Eighty (80) rods,

Part sold to State of Wis. 6-3-57 DB#3 P-355 Res. Flpg.

Part sold to Einar Wall 7-13-56 DB#3 P-333 Res. Flpg.

Part sold to Morris Salmer 7-13-56 DB#3 P-335 Res. Flpg.

MARATHON & MONROE | PIERCE | RUSK | SAWYER | CLARK | DUNN | EAU CLAIRE | SSE

MAP OF SURVEY

West 1/4 Corner
05-28-08
Location based on Coordinate obtained from County Surveyors office. No Monument was found or set.

FND 1" I.P.

Government Lot 4, Sec. 6, T28N, R8W
Government Lot 5, Sec. 5, T28N, R8W

CHIPPEWA PARK SURVEY
DENNIS MIKESH
5/14/77

MILL RESERVE

FND DISTURBED 1" I.P.

514.74'
232.32'

P.O.B. PARCEL "C"

N49°32'26"E 158.53'
141.47'
S00°07'28"E
N00°16'34"E 234.94'
N35°53'10"W 99.71'
S28°26'40"W 94.34'
N23°17'24"W 44.39'
N20°33'26"E 125.30'
N01°13'08"W 2618.78'
N34°12'41"E 194.54'

PARCEL "C"
0.48 AC±
20878 SFT

DUNCAN CREEK
CURRENT LOCATION
PREVIOUS LOCATION

Existing Fence

Asphalt

BLOCK 10
ORIGINAL PLAT
OF CHIPPEWA FALLS

CHURCH STREET

S40°35'17"E 364.53' Gross

Shaded area used by others, Owned by XCEL.

PARCEL "A"
5.38 AC±
234534 SFT

MILL RESERVE

Previous Building Location

50 Court Street

BLOCK 9
ORIGINAL PLAT
OF CHIPPEWA FALLS

COURT HOUSE SQUARE

PRAIRIE STREET

BLOCK 18
ORIGINAL PLAT
OF CHIPPEWA FALLS

COURT STREET

3/4" IRON BAR

2" I.P.

BLOCK 8
ORIGINAL PLAT
OF CHIPPEWA FALLS

C3
229.92'
S15°26'00"W
N15°26'00"E
219.48'
S40°35'17"E
355.21'

C4

C1

N25°16'47"W 34.86'
N20°35'21"W 19.62'
332.88'
S73°48'05"W
329.04'
N73°48'05"E
789.47'

P.O.B. PARCEL "A"

C2
S69°24'39"W 81.62'
N69°24'39"E 73.42'
N20°35'21"W 30.23'
3/4" Rebar
Existing Substation
N25°16'47"W 185.51'
S62°03'03"W
N01°13'08"W 1596.09'
N02°05'39"E 1227.70'
N09°46'48"E 982.69'
150'
100'
±89'

MILL RESERVE

PARCEL "B"
4.74 AC±
206271 SFT

P.O.B. PARCEL "B"

20' Wide Bike Trail Easement

Existing Bike Trail

Deck/ Overlook

CHIPPEWA RIVER

S.T.H. 124/29
BRIDGE STREET
REFERENCE LINE

C1
R=165.00'
Δ =58°22'04"
L=168.09'
CB=N44°37'02"E
CL=160.91'

C2
R=1235.92'
Δ =0°22'59"
L=8.26'
CB=N25°28'17"W
CL=8.26'

C3
R=225.00'
Δ =05°44'16"
L=22.53'
CB=S18°18'09"W
CL=22.52'

C4
R=1235.92'
Δ =58°22'04"
L=117.15'
CB=S44°37'02"W
CL=112.15'

North is referenced to the south line of the SW 1/4 Section 5, T28N, R8W which bears N89°58'44"W

South 1/4 Corner
05-28-08
2" I.P. w/ B.C.

SW Corner
05-28-08
Found 2" I.P.

N89°58'44"W
2630.49'

SCALE: 1" = 100'
0' 100' 200'

LEGEND
GOVERNMENT CORNER (AS NOTED)
SET 3/4"x 18" IRON REBAR WEIGHING 1.503 LBS./LINEAL FT.
FOUND MONUMENTATION AS NOTED
MC MEANDER CORNER

PREPARED FOR:
XCEL ENERGY
414 Nicollet Mall 7th Floor
Minneapolis, MN 55401

PREPARED BY:
Ronald D. Jasperson
Cedar Corporation
604 Wilson Ave.
Menomonie, WI 54751

SHEET NO. 1 OF 2

MAP OF SURVEY
PROPERTY IN MILL RESERVE
SEC. 5, T28N, R8W,
CITY OF CHIPPEWA FALLS
CHIPPEWA COUNTY, WISCONSIN

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JOB NO.	3059-0029
BOOK NO.	
DRAWN BY	
CHECKED BY	R.D.J.
DATE	02-21-07
REVISIONS	
REFERENCE FILE	05-28-8
DRAWING FILE	05-28-8.dwg

MAP OF SURVEY

DESCRIPTION PARCEL "A"

Part of the Mill Reserve, Original Plat of Chippewa Falls, located in Government Lot 5, Section 5, T28N, R8W, City of Chippewa Falls, Chippewa County, Wisconsin, more particularly described as follows:
Commencing at the Southwest corner said Section 5;
Thence N02°05'39"E 1227.70 feet to the easterly right of way line of STH 124/29 and the point of beginning of this description;
Thence N25°16'47"W 34.86 feet along said easterly right of way line to the arc of a 1235.92 foot radius curve, concave to the southwest;
Thence 8.26 feet along the arc of said curve, the chord of which bears N25°28'17"W 8.26 feet to a meander corner that is S26°36'13"E ±41 feet from the southerly shoreline of Duncan Creek as it was located on January 2007;
Thence N34°12'41"E 194.54 feet along the easterly meander line of Duncan Creek;
Thence N20°33'26"E 125.30 feet along the easterly meander line of Duncan Creek;
Thence N00°16'34"E 234.94 feet along the easterly meander line of Duncan Creek to a meander corner that is N49°32'26"E ±38 feet from the easterly shoreline of Duncan Creek;
Thence N49°32'26"E 232.32 feet to the westerly line of Block 9, Original Plat of Chippewa Falls;
Thence S40°35'17"E 364.53 feet along said westerly line of Block 9, Original Plat of Chippewa Falls to the northwesterly right of way line of Court Street;
Thence 22.53 feet along the arc of a 225.00 foot radius curve, concave to the southeast, the chord of which bears S18°18'09"W 22.52 feet;
Thence S15°26'00"W 229.92 feet along the northerly right of way line of Court Street to the arc of a 1235.92 foot radius curve, concave to the northwest;
Thence 117.15 feet along the arc of said curve, the chord of which bears S44°37'02"W 112.15 feet;
Thence S73°48'05"W 332.88 feet along the northerly right of way line of Court Street;
Thence N20°35'21"W 19.62 feet;
Thence S69°24'39"W 81.62 feet along the northerly right of way line of Court Street to the point of beginning.
Said described parcel contains 234,534 square feet (5.38 acres), including the area between the described meander line and the easterly shore line of the Duncan Creek.

Parcel is subject to all easements, reservations and restrictions of record.

DESCRIPTION PARCEL "B"

Part of the Mill Reserve, Original Plat of Chippewa Falls, located in Government Lot 5, Section 5, T28N, R8W, City of Chippewa Falls, Chippewa County, Wisconsin, more particularly described as follows:
Commencing at the Southwest corner said Section 5;
Thence N09°46'48"E 982.69 feet to the easterly right of way line of STH 124/29 and the point of beginning of this description;
Thence N25°16'47"W 185.51 feet along said easterly right of way line to the southerly right of way line of Court Street;
Thence N69°24'39"E 73.42 feet along said southerly right of way line of Court Street;
Thence N20°35'21"W 30.23 feet;
Thence N73°48'05"E 329.04 feet along said southerly right of way line of Court Street to the arc of a 165.00 foot radius curve, concave to the northwest;
Thence 168.09 feet along the arc of said curve, the chord of which bears N44°37'02"E 160.91 feet;
Thence N15°26'00"E 219.48 feet to the westerly line of Block 8, Original Plat of Chippewa Falls;
Thence S40°35'17"E 355.21 feet along said westerly line of Block 8, Original Plat of Chippewa Falls to a mender corner that is N40°35'17"W ±48 feet from the northerly shore line of the Chippewa River;
Thence S62°03'03"W 789.47 feet along the meander line said Chippewa River to the point of beginning.
Said described parcel contains 206,271 square feet (4.74 acres), including the area between the described meander line and the northerly shore line of the Chippewa River.

Parcel is subject to all easements, reservations and restrictions of record.

DESCRIPTION PARCEL "C"

Part of the Mill Reserve, Original Plat of Chippewa Falls, located in Government Lot 5, Section 5, T28N, R8W, City of Chippewa Falls, Chippewa County, Wisconsin, more particularly described as follows:
Commencing at the Southwest corner said Section 5;
Thence N01°13'08"W 1596.09 feet to the previous location of Duncan Creek and the point of beginning of this description;
Thence N49°32'26"E 158.53 feet to a meander corner that is S49°32'26"W ±26 feet from the westerly shoreline of Duncan Creek as it was located on January 2007;
Thence S00°07'28"E 141.47 feet along the westerly meander line of the current Duncan Creek;
Thence S28°26'40"W 94.34 feet along the westerly meander line to a meander corner that is N23°17'24"W ±24' from the northwesterly shoreline of the current Duncan Creek and the easterly shoreline of the previous location of Duncan Creek;
Thence N23°17'24"W 44.39 feet along the easterly line of the previous Duncan Creek;
Thence N35°53'10"W 99.71 feet along the easterly line of the previous Duncan Creek to the point of beginning.
Said described parcel contains 20,878 square feet (0.48 acres), including the area between the described meander line and the westerly shore line of the Duncan Creek.

Parcel is subject to all easements, reservations and restrictions of record.

SURVEYOR'S NOTE:

There was no physicall evidence of the old Duncan Creek channel so the surveyor was not able to re-establish the location of the old Duncan Creek channel. The surveyor obtained an aerial photo of the City of Chippewa Falls dated back to 1938. This aerial photo did not show the old Duncan Creek location.
The location of the old Duncan Creek channel shown on this survey was derived from WI DOT R-O-W Plat, Project No. 1052-04-22, STH 29/124, Chippewa River Bridge & Approaches.

SURVEYOR'S CERTIFICATE:

I, Ronald D. Jasperson, Wisconsin Registered Land Surveyor, hereby certify that this survey, is correct and accurate to the best of my knowledge and belief and complied to the Minimum Standards for Property Surveys, Chapter A-E 7 of the Wisconsin Administrative Code.

_____
Ronald D. Jasperson, RLS #2564

SHEET NO. 2 OF 2

MAP OF SURVEY
PROPERTY IN MILL RESERVE
SEC. 5, T28N, R8W,
CITY OF CHIPPEWA FALLS
CHIPPEWA COUNTY, WISCONSIN

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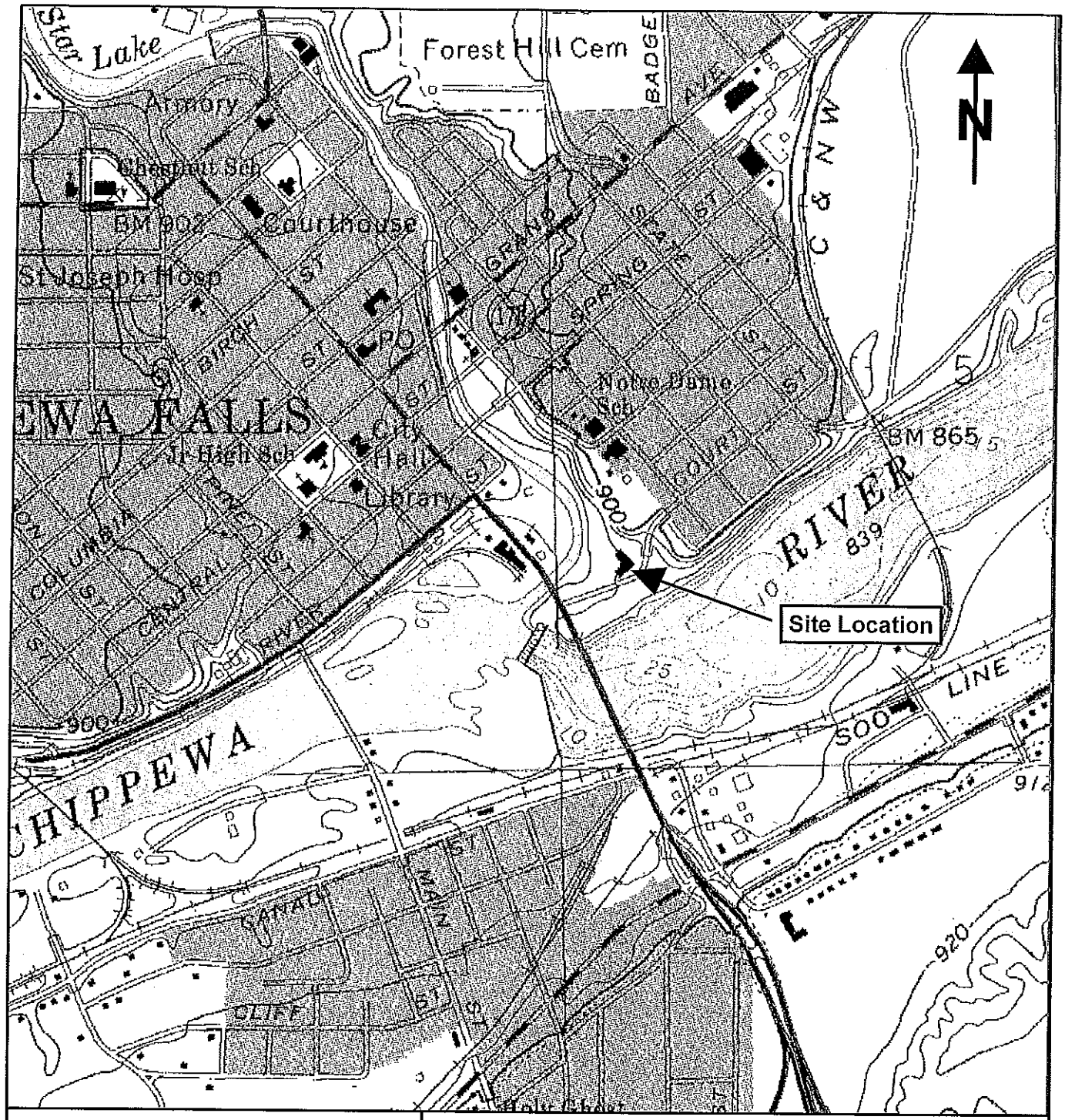
JOB NO.	3059-0029
BOOK NO.	
DRAWN BY	
CHECKED BY	R.D.J.
DATE	02-21-07
REVISIONS	
REFERENCE FILE	05-28-B
DRAWING FILE	05-28-B.dwg

I, LeRoy Wilder, duly authorized agent for Xcel Energy, in accordance with Ch. 292, Wis. Stats. and Ch. NR726 Wis. Adm. Code, certify the correct legal descriptions for the property located at 50 Court Street, City of Chippewa Falls, Chippewa County, Wisconsin, is accurately described in that deed recorded in Volume 108 of Records at Pages 146-157, a copy of which is attached.

XCEL ENERGY

By: LeRoy J. Wilder, Jr.
LeRoy Wilder



LEGEND

CHIPPEWA FALLS, WI
USGS TOPOGRAPHIC QUADRANGLE
7.5 MINUTE SERIES, 1981

CONTOUR INTERVAL = 20 FEET

W 1/2 OF THE SW 1/4, SECTION 5,
TOWNSHIP 28 NORTH, RANGE 8 WEST
CHIPPEWA COUNTY, WI

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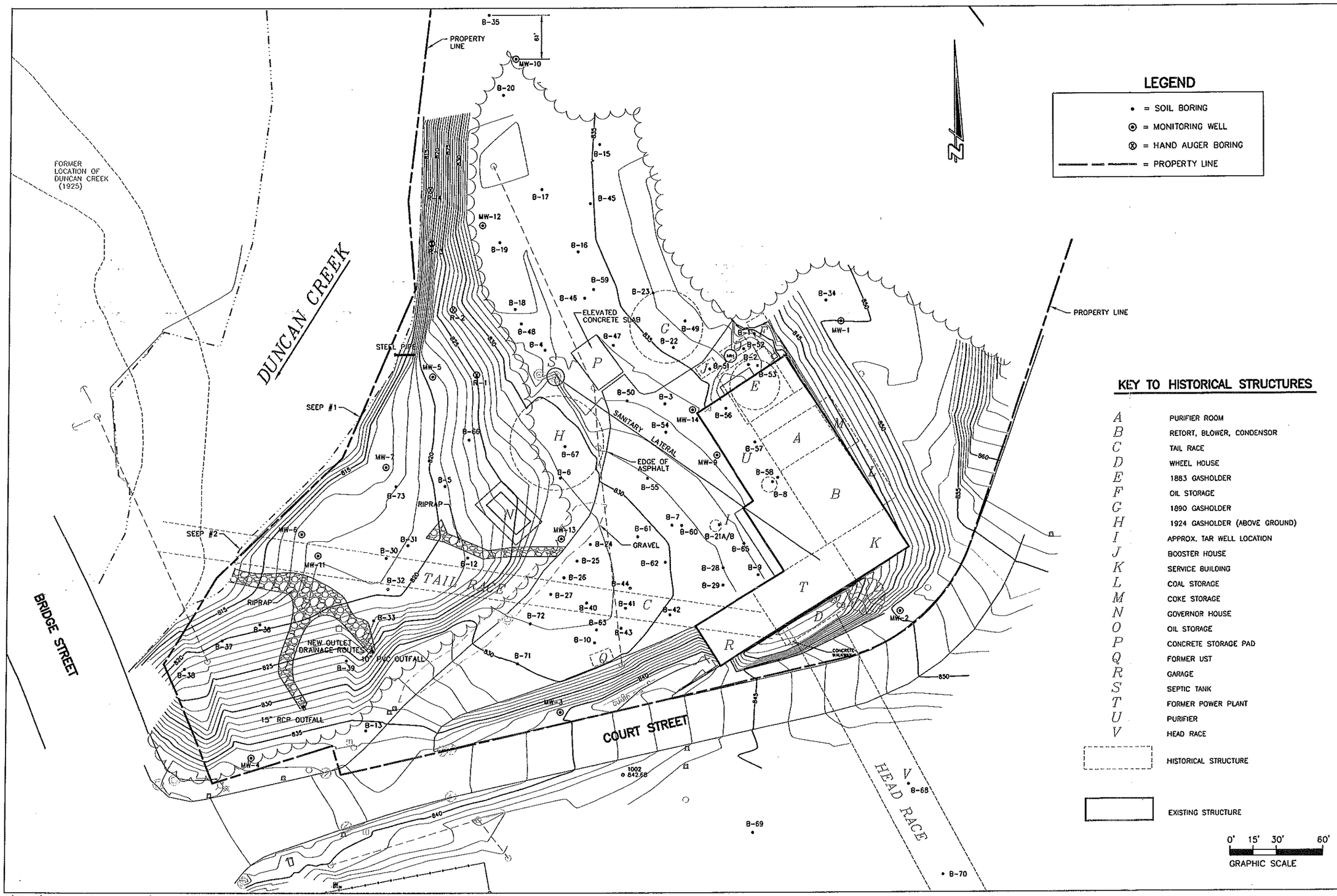
DRAWN BY	SITE LOCATION MAP	CHECKED BY
USGS	Location Map XCEL ENERGY FORMER MGP COURT STREET CHIPPEWA FALLS, WI	MAT
DATE: 6/06		JOB NO. 724
REVISED BY: MAT		FIGURE 2
SCALE: 1" : 1000 '		



JOB NO.	X724-0300
BOOK NO.	
DRAWN BY	PKF
CHECKED BY	MEE
DATE	OCT. 2005
REVISIONS	JUNE 2012
LAYOUT	SITE MAP
DRAWING FILE	X250base.dwg

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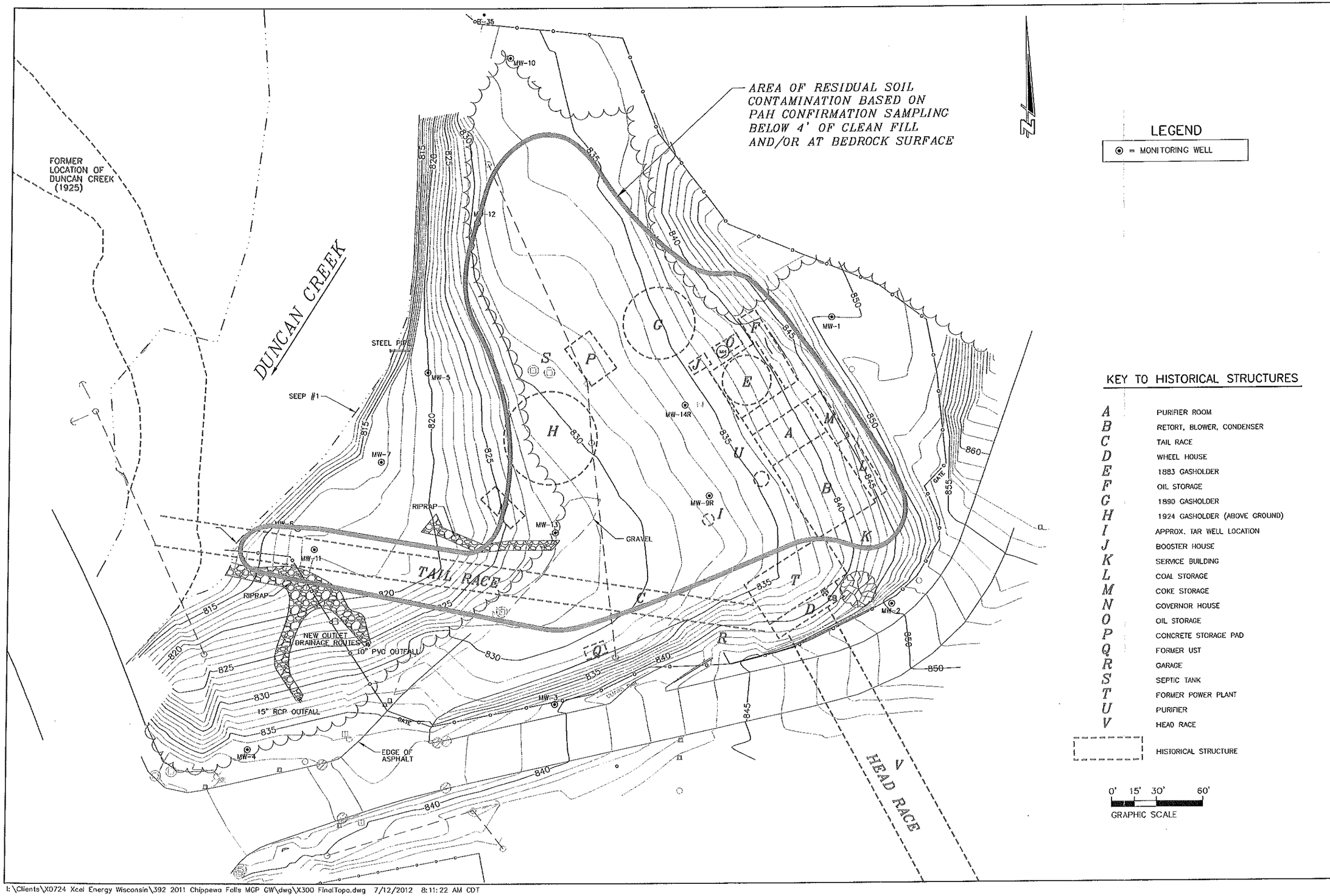
XCEL ENERGY
FORMER CHIPPEWA FALLS MGP SITE
SITE MAP

SHEET NO.
FIGURE 3

I:\Clients\X0724 Xcel Energy Wisconsin\392 2011 Chippewa Falls MGP GW\dwg\X250base.dwg 6/14/2012 9:36:57 AM CDT



JOB NO.	X0724-0392
BOOK NO.	
DRAWN BY	PKF
CHECKED BY	MEE
DATE	DECEMBER 2011
REVISIONS	JUNE 2012
LAYOUT	PAH GW Contamination
DRAWING FILE	X300 FinalTopo.dwg

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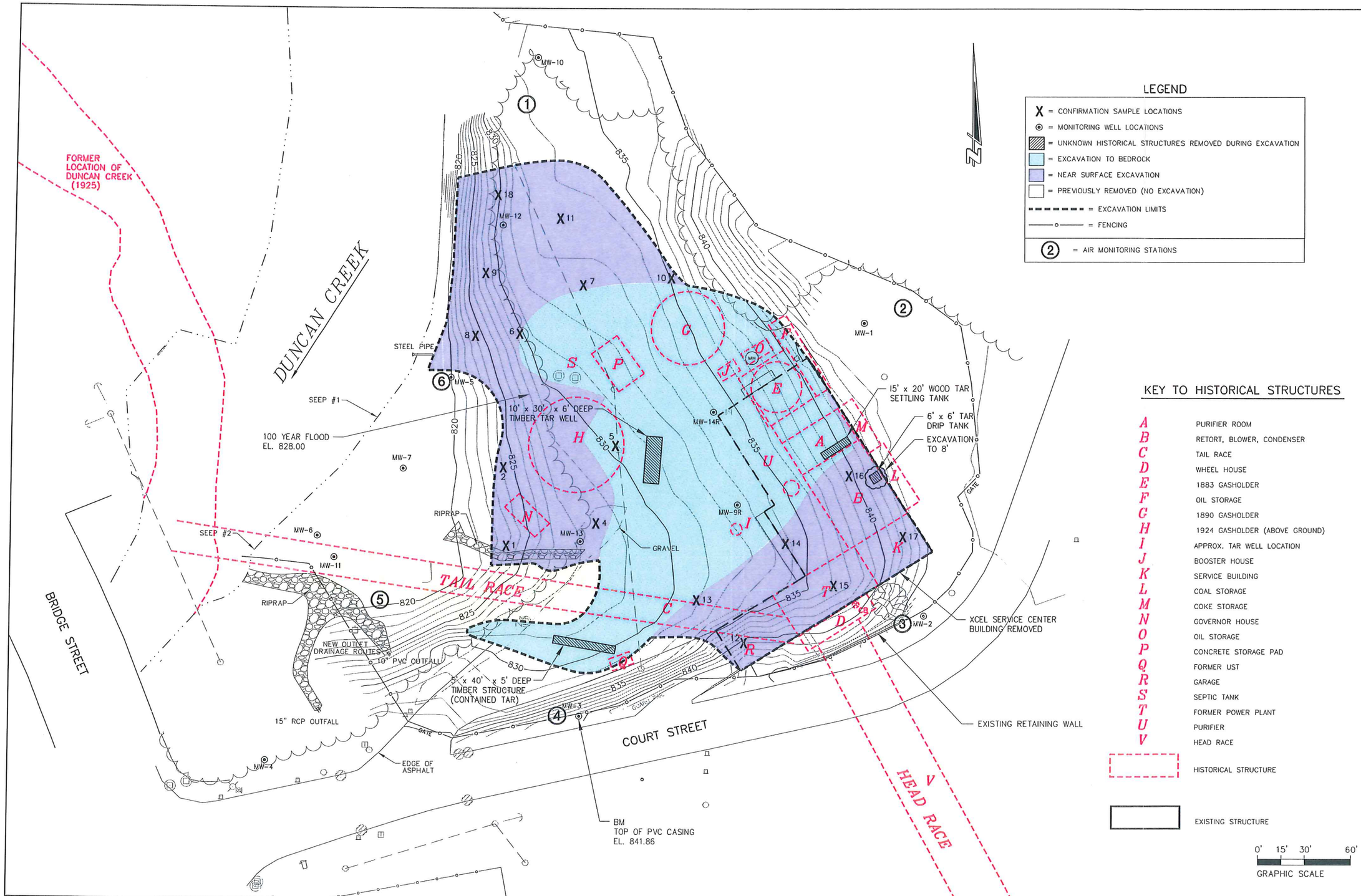
XCEL ENERGY
FORMER CHIPPEWA FALLS MGP SITE
RESIDUAL SOIL CONTAMINATION CONTOUR MAP

FIGURE 4

I:\Clients\X0724 Xcel Energy Wisconsin\392 2011 Chippewa Falls MGP GW\dwg\X300 FinalTopo.dwg 7/12/2012 8:11:22 AM CDT



JOB NO. X724-0300
BOOK NO.
DRAWN BY PKF
CHECKED BY MEE
DATE MAY 2007
REVISIONS
LAYOUT Final Contours
DRAWING FILE X300 FinalTopo.dwg

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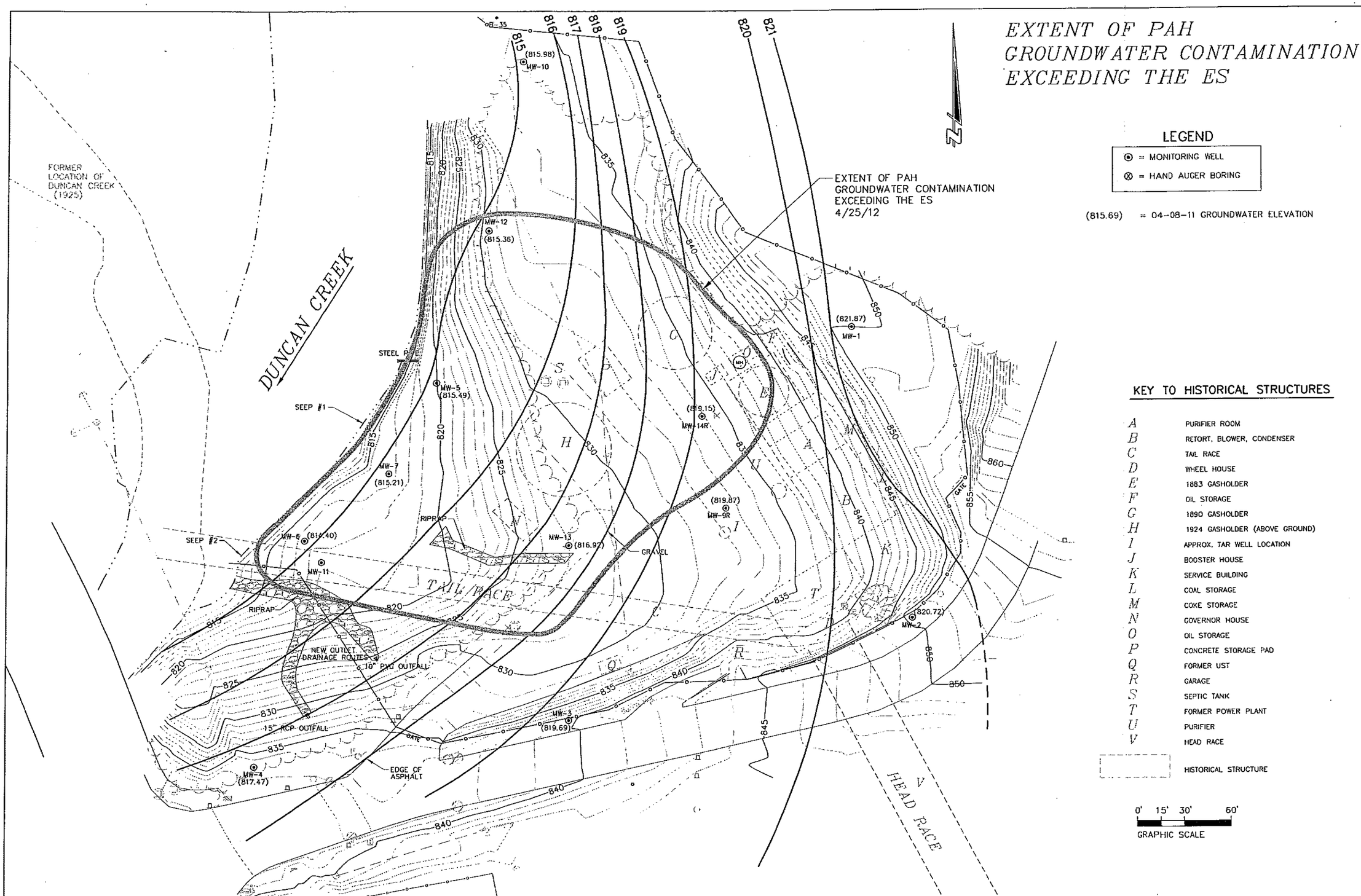
XCEL ENERGY

FINAL EXCAVATION, SAMPLE LOCATION MAP, & AIR MONITORING STATIONS

FIGURE 5

I:\Clients\X0724 Xcel Energy Wisconsin\300 Chippewa Falls MGP Remediation\General\dwg\X300 FinalTopo.dwg 9/11/2007 11:39:46 AM CDT

EXTENT OF PAH GROUNDWATER CONTAMINATION EXCEEDING THE ES



JOB NO.	X0724-0392
BOOK NO.	
DRAWN BY	PKF
CHECKED BY	MEE
DATE	DECEMBER 2011
REVISIONS	JUNE 2012
LAYOUT	PAH GW Contamination
DRAWING FILE	X300 FinalTopo.dwg

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XCEL ENERGY
FORMER CHIPPEWA FALLS MGP SITE
RESIDUAL PAH GROUNDWATER
CONTAMINATION EXCEEDING THE ES

FIGURE 6

I:\Clients\X0724 Xcel Energy Wisconsin\300 Chippewa Falls MGP Remediation\General\dwg\X300 FinalTopo.dwg 9/11/2007 11:39:46 AM CDT

Confirmation Soil Samples

TABLE 8
POST EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS, POLYNUCLEAR AROMATIC HYDROCARBONS
XCEL ENERGY CHIPPEWA FALLS MGP
CHIPPEWA FALLS, WI

PAH Compounds	Units of Measure	Direct Contact Pathway Non-Industrial	Sample ID / Lab ID / Sample Date	1 (4') WQA0331-01 01/09/2007	2 (4') WQA0331-02 01/09/2007	3 (4') WQA0331-03 01/09/2007	4 (4') WQA0331-04 01/09/2007	5 (12') WQA0331-05 01/09/2007	6 (12') WQB0038-01 01/31/2007	7 (12') WQB0038-02 01/31/2007	8 (4') WQB0038-03 01/31/2007	9 (5') WQB0038-04 01/31/2007
ACENAPHTHENE	ug/kg	900,000		<510	<52	<54	<52	8,300	<3300	<1600	<390	410
ACENAPHTHYLENE	ug/kg	18,000		<870	<89	<91	<88	2,700	<5600	<2700	<670	<680
ANTHRACENE	ug/kg	5,000,000		<51	28	12	<5.2	9,700	<330	410	<39	400
BENZO (a) ANTHRACENE	ug/kg	88		240	24	27	5.7	10,000	1,600	3,200	600	2,600
BENZO (b) FLUORANTHENE	ug/kg	88		200	8.6	16	<5.2	4,700	750	1,500	310	1,200
BENZO (k) FLUORANTHENE	ug/kg	880		140	6.8	11	<5.2	3,200	500	990	200	840
BENZO (a) PYRENE	ug/kg	8.8		230	18	26	<5.2	11,000	1,400	2,700	580	2,500
BENZO (ghi) PERYLENE	ug/kg	1,800		420	18	32	<5.2	9,300	1,500	2,700	850	2,400
CHRYSENE	ug/kg	8,800		180	19	22	<5.2	7,500	930	2,100	290	1,600
DIBENZO (a,h) ANTHRACENE	ug/kg	8.8		<77	<7.8	<8.1	<7.7	980	<500	300	62	280
FLUORANTHENE	ug/kg	600,000		540	92	82	20	33,000	2,700	4,800	500	4,000
FLUORENE	ug/kg	600,000		<100	33	<11	<10	12,000	<660	<320	<79	280
INDENO (1,2,3-cd) PYRENE	ug/kg	88		200	11	23	<5.2	6,700	940	2,000	610	1,900
1-METHYLNAPHTHALENE	ug/kg	1,100,000		<310	<31	<32	<31	5,900	<2000	<950	<240	<240
2-METHYLNAPHTHALENE	ug/kg	600,000		<260	28	<27	<26	9,800	<1700	830	<200	790
NAPHTHALENE	ug/kg	20,000		<310	<31	<32	<31	1,600	<2000	<950	<240	<240
PHENANTHRENE	ug/kg	18,000		190	110	33	24	36,000	630	1,300	130	1,400
PYRENE	ug/kg	500,000		440	54	65	11	26,000	3,200	5,900	630	4,800

PAH Compounds	Units of Measure	Direct Contact Pathway Non-Industrial	Sample ID / Lab ID / Sample Date	10 (14') WQB0038-05 01/31/2007	11 (3') WQB0038-06 01/31/2007	12 (4') WQB0551-01 02/19/2007	13 (4') WQB0551-02 02/19/2007	14 (4') WQB0551-03 02/19/2007	15 (4') WQB0551-04 02/19/2007	16 (4') WQB0551-05 02/19/2007	17 (4') WQB0551-06 02/19/2007	18 (3') WQB0551-07 02/19/2007
ACENAPHTHENE	ug/kg	900,000		<3200	<1400	<52	<52	<52	<64	71	84	75
ACENAPHTHYLENE	ug/kg	18,000		<5500	<2300	<89	<88	<88	<110	<110	<110	<88
ANTHRACENE	ug/kg	5,000,000		450	170	<5.2	<5.2	<5.2	<6.4	91	140	100
BENZO (a) ANTHRACENE	ug/kg	88		2,500	1,200	5.7	5.6	6.6	10	250	180	130
BENZO (b) FLUORANTHENE	ug/kg	88		1,000	580	<5.2	<5.2	<5.2	<6.4	120	73	46
BENZO (k) FLUORANTHENE	ug/kg	880		730	490	<5.2	<5.2	<5.2	<6.4	78	52	32
BENZO (a) PYRENE	ug/kg	8.8		2,000	890	<5.2	<5.2	5.2	7.1	180	160	93
BENZO (ghi) PERYLENE	ug/kg	1,800		1,800	1,300	<5.2	<5.2	<5.2	7.3	140	140	81
CHRYSENE	ug/kg	8,800		1,500	700	<5.2	<5.2	5.9	9.9	180	130	90
DIBENZO (a,h) ANTHRACENE	ug/kg	8.8		<480	<200	<7.9	<7.8	<7.7	<9.6	21	16	9.5
FLUORANTHENE	ug/kg	600,000		3,700	1,400	18	14	16	25	500	490	270
FLUORENE	ug/kg	600,000		<640	<270	<10	<10	<10	<13	60	89	82
INDENO (1,2,3-cd) PYRENE	ug/kg	88		1,200	900	<5.2	<5.2	<5.2	<6.4	130	120	64
1-METHYLNAPHTHALENE	ug/kg	1,100,000		<1900	<810	<31	<31	<31	<39	<39	<39	34
2-METHYLNAPHTHALENE	ug/kg	600,000		<1600	<680	<26	<26	<26	<32	83	60	64
NAPHTHALENE	ug/kg	20,000		<1900	<810	<31	<31	<31	<39	<39	<39	<31
PHENANTHRENE	ug/kg	18,000		1,400	560	17	11	12	23	320	460	320
PYRENE	ug/kg	500,000		4,800	2,000	12	10	13	6.9	420	330	300

ug/kg = micrograms per Kilogram (ppb - parts per billion)
PAH = Polynuclear Aromatic Hydrocarbons
All results reported as < are presented as the reported value (<5.1 = 5.1)

Confirmation Soil Samples

TABLE 9
XCEL ENERGY CHIPPEWA FALLS MGP
POST EXCAVATION SOIL SAMPLING FOR CYANIDE AND LEAD
CHIPPEWA FALLS, WI

Sample ID	Sample Depth	Sample Date	Laboratory ID	Total Cyanide (mg/kg)	Lead (mg/kg)
1	4	1/9/2007	WQA0331-01	<0.51	32
2	4	1/9/2007	WQA0331-02	<0.52	<4.2
3	4	1/9/2007	WQA0331-03	<0.54	<4.3
4	4	1/9/2007	WQA0331-04	<0.52	<4.1
5	12	1/9/2007	WQA0331-05	<0.51	13
6	12	1/31/2007	WQB0038-01	<0.53	24
7	12	1/31/2007	WQB0038-02	<0.53	20
8	4	1/31/2007	WQB0038-03	<0.53	11
9	5	1/31/2007	WQB0038-04	<0.54	23
10	14	1/31/2007	WQB0038-05	<0.53	18
11	3	1/31/2007	WQB0038-06	<0.51	26
12	4	2/19/2007	WQB0551-01	<0.52	<4.2
13	4	2/19/2007	WQB0551-02	<0.52	<4.2
14	4	2/19/2007	WQB0551-03	<0.52	<4.1
15	4	2/19/2007	WQB0551-04	<0.51	<4.1
16	4	2/19/2007	WQB0551-05	<0.52	<4.1
17	4	2/19/2007	WQB0551-06	<0.52	<4.1
18	3	2/19/2007	WQB0551-07	<0.51	<4.1

Table 1

PAH WATER ANALYTICAL RESULTS
XCEL ENERGY
Chippewa Falls MGP Site

WELL #	Compounds	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (b) FLUORANTHENE	BENZO (K) FLUORANTHENE	BENZO (a) PYRENE	BENZO (ghi) PERYLENE	bis(2-ETHYLHEXYL)PHTHALATE	CARBAZOLE	CHRYSENE	DIBENZO (a,h) ANTHRACENE	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO (1,2,3-cd) PYRENE	1-METHYLNAPTHALENE	2-METHYLNAPTHALENE	4-METHYLPHENOL	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE
	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-1	11/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	5/22/2006	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	7/31/2007	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.086	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	11/1/2007	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.086	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	4/2/2008	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	7/29/2008	<0.94	<2.0	<0.11	<0.13	<0.28	<0.14	<0.091	<0.34	NA	NA	<0.12	<0.37	NA	<0.23	<0.18	<0.18	<0.91	<0.89	NA	<1.1	<0.086	NA	<0.13
	10/21/2008	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.086	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	5/8/2009	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	10/28/2009	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	4/9/2010	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	10/19/2010	<0.35	<0.74	<0.041	<0.047	<0.11	<0.053	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.087	<0.067	<0.067	<0.034	<0.33	NA	<0.43	<0.032	NA	<0.047
	10/25/2011	<0.022	<0.087	<0.010	<0.020	<0.028	<0.007	<0.008	<0.008	NA	NA	<0.008	<0.01	NA	<0.010	<0.016	<0.006	<0.100	<0.10	NA	<0.046	<0.005	NA	<0.017
	4/25/2012	<0.38	<0.34	<0.34	<0.047	<0.062	<0.079	<0.060	<0.45	NA	NA	<0.15	<0.068	NA	<0.34	<0.40	<0.089	NA	NA	NA	<0.32	<0.37	NA	<0.51
MW-2	11/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.086	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	5/22/2006	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	7/31/2007	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<.046
	11/1/2007	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<.046
	4/2/2008	<0.87	<1.8	<0.10	<0.12	<0.26	<0.13	<0.084	<0.32	NA	NA	<0.11	<0.34	NA	<0.21	<0.16	<0.16	<0.84	<0.82	NA	<1.1	<0.079	NA	<0.12
	7/29/2008	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	0.14	<0.066	<0.066	<0.34	<0.33	NA	<0.43	0.12	NA	<.047
	10/21/2008	<0.94	<2.0	<0.11	<0.13	<0.28	<0.14	<0.091	<0.34	NA	NA	<0.12	<0.37	NA	<0.23	<0.18	<0.18	<0.91	<0.89	NA	<1.1	<0.086	NA	<0.13
	5/8/2009	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	10/28/2009	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	4/9/2010	<1.0	<2.1	<0.12	<0.13	<0.30	<0.15	<0.097	<0.36	NA	NA	<0.12	<0.39	NA	<0.25	<0.19	<0.19	<0.97	<0.94	NA	1.2	<0.091	NA	<0.13
	10/19/2010	<0.73	<1.5	<0.084	<0.098	<0.22	<0.11	<0.071	<0.27	NA	NA	<0.091	<0.29	NA	<0.18	<0.14	<0.14	<0.71	<0.69	NA	<0.89	<0.067	NA	<0.098
	10/25/2011	<0.022	<0.087	<.010	<0.020	<0.028	<0.007	<0.008	<0.008	NA	NA	<0.008	<0.01	NA	<0.01	<0.016	<0.006	<0.10	<0.10	NA	<0.046	<0.005	NA	<0.017
	4/25/2012	<0.38	<0.33	<0.33	<0.046	<0.060	<0.077	<0.058	<0.44	NA	NA	<0.15	<0.067	NA	<0.33	<0.40	<0.088	NA	NA	NA	<0.31	<0.36	NA	<0.50

PAL = NR140.10 Preventive Action Limits
ES = NR140.10 Enforcement Standards

NA = Not Analyzed
ND = Not Detected

PAH = Polynuclear Aromatic Hydrocarbons.
All measurements in ug/L.

Table 1

PAH WATER ANALYTICAL RESULTS
XCEL ENERGY
Chippewa Falls MGP Site

WELL #	Compounds	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (b) FLUORANTHENE	BENZO (K) FLUORANTHENE	BENZO (a) PYRENE	BENZO (ghi) PERYLENE	bis(2-ETHYLHEXYL)PHTHALATE	CARBAZOLE	CHRYSENE	DIBENZO (a,h) ANTHRACENE	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO (1,2,3-cd) PYRENE	1-METHYLNAPTHALENE	2-METHYLNAPTHALENE	4-METHYLPHENOL	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE
	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-3	11/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	5/22/2006	<0.35	<0.73	<0.040	<0.047	<0.10	0.052	0.05	<0.13	NA	NA	<0.044	<0.14	NA	0.097	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	7/31/2007	<0.34	<0.72	<0.40	<0.046	<0.10	<0.051	0.065	<0.12	NA	NA	<0.043	<0.14	NA	<0.084	<0.065	0.073	<0.33	<0.32	NA	<0.42	<0.031	NA	<0.046
	11/1/2007	<0.37	<0.77	<0.042	<0.049	<0.11	<0.054	0.037	<0.13	NA	NA	<0.046	<0.14	NA	<0.090	<0.069	<0.069	<0.36	<0.34	NA	<0.44	<0.033	NA	<.049
	4/2/2008	<0.34	<0.72	<0.040	<0.046	<0.10	<0.051	0.071	<0.12	NA	NA	<0.043	<0.14	NA	0.092	<0.065	<0.065	<0.33	<0.32	NA	<0.42	0.036	NA	0.084
	7/29/2008	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	10/21/2008	<0.34	<0.72	<0.040	0.093	<0.10	<0.051	0.11	0.12	NA	NA	0.066	<0.14	NA	0.14	<0.065	0.099	<0.33	<0.32	NA	<0.42	<0.031	NA	0.18
	5/8/2009	<0.36	<0.76	<0.042	<0.048	<0.11	<0.054	<0.035	<0.13	NA	NA	<0.045	<0.14	NA	<0.089	<0.068	<0.068	<0.35	<0.34	NA	<0.44	<0.033	NA	<0.048
	10/28/2009	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	0.078	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	0.085	0.094	<0.34	<0.33	NA	<0.42	0.15	NA	0.24
	4/9/2010	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	NA	NA	<0.041	<0.13	NA	<0.081	<0.062	<0.062	<0.32	<0.31	NA	<0.40	<0.030	NA	<0.044
	10/19/2010	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	0.092	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	4/8/2011	<0.20	<0.40	<0.100	<0.100	<0.100	<0.100	0.124	<0.20	NA	NA	<0.100	<0.20	NA	<0.100	<0.100	<0.100	<0.20	<0.20	NA	<0.20	<0.10	NA	<0.100
	10/25/2011	<0.022	<0.087	<0.01	0.029	<0.028	<0.007	0.0687	0.0552	NA	NA	0.0328	<0.01	NA	0.1	<0.016	0.0477	<0.10	<0.10	NA	<0.046	<0.005	NA	0.0668
	4/25/2012	<0.37	<0.33	<0.33	<0.045	0.13	<0.076	0.1600	<0.43	NA	NA	<0.14	<0.066	NA	<0.33	<0.39	0.1600	NA	NA	NA	<0.31	<0.36	NA	<0.49
MW-4	11/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	5/22/2006	<0.82	<1.7	<0.095	<0.11	<0.24	<0.12	<0.080	<0.30	NA	NA	<0.10	<0.32	NA	0.28	<0.16	<0.16	<0.80	<0.78	NA	<1.0	0.085	NA	<0.11
	7/31/2007	<0.36	<0.75	<0.041	<0.048	<0.11	<0.053	<0.035	<0.13	NA	NA	<0.045	<0.14	NA	<0.088	<0.067	<0.067	<0.35	<0.34	NA	<0.43	<0.033	NA	<0.048
	11/1/2007	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	4/2/2008	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	7/29/2008	<0.32	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	10/21/2008	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	5/8/2009	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	10/28/2009	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	4/9/2010	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	10/19/2010	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	4/8/2011	<0.20	<0.40	<0.100	<0.100	<0.100	<0.100	<0.100	<0.200	NA	NA	<0.100	<0.20	NA	<0.100	<0.100	<0.100	<0.20	<0.20	NA	<0.20	<0.100	NA	<0.100
	10/25/2011	<0.022	<0.087	<0.01	<0.020	<0.028	<0.007	<0.008	<0.008	NA	NA	<0.008	<0.01	NA	<0.01	<0.016	<0.006	<0.10	<0.10	NA	<0.046	<0.005	NA	<0.017
	4/25/2012	<0.37	<0.33	<0.33	<0.045	<0.060	<0.076	<0.058	<0.43	NA	NA	<0.14	<0.066	NA	<0.3	<0.39	<0.087	NA	NA	NA	<0.31	<0.36	NA	<0.49

PAL = NR140.10 Preventive Action Limits
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NA = Not Analyzed
ND = Not Detected

PAH = Polynuclear Aromatic Hydrocarbons.
All measurements in ug/L.

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PAH WATER ANALYTICAL RESULTS
XCEL ENERGY
Chippewa Falls MGP Site

WELL #	Compounds	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (b) FLUORANTHENE	BENZO (k) FLUORANTHENE	BENZO (a) PYRENE	BENZO (ghi) PERYLENE	bis(2-ETHYLHEXYL)PHTHALATE	CARBAZOLE	CHRYSENE	DIBENZO (a,h) ANTHRACENE	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO (1,2,3-cd) PYRENE	1-METHYLNAPTHALENE	2-METHYLNAPTHALENE	4-METHYLPHENOL	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE
	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-5	11/29/2001	16	1	6.4	0.67	NA	NA	NA	NA	NA	NA	NA	NA	0.54	11	5.4	NA	NA	NA	NA	NA	9.8	NA	14
	12/19/2001	14	1	5.8	1.4	NA	0.85	1.1	NA	NA	NA	2.2	NA	NA	11	5.9	NA	NA	NA	NA	4.9	0.57	NA	NA
	5/24/2002	5.6	NA	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.7	NA	NA	NA	NA	NA	NA	9.9	NA	12
	7/9/2003	5.5	NA	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6	NA	NA	NA	NA	NA	2.8	NA	12
	12/16/2005	47	<9.3	110	96	41	28	98	64	NA	NA	120	8.3	NA	320	31	58	<4.3	12	NA	<5.4	160	NA	380
	5/22/2006	29	1.5	11	5.2	2	1.2	5.3	3.4	NA	NA	5.3	0.39	NA	28	14	2.8	5.6	5.9	NA	16	28	NA	26
	7/31/2007	14	1.1	1.5	0.68	0.31	0.16	0.6	0.36	NA	NA	0.74	<0.14	NA	5.2	<0.067	0.3	2.8	1.8	NA	<0.43	0.54	NA	4.5
	11/1/2007	32	<3.6	16	15	5.1	4.1	16	10	NA	NA	21	1.2	NA	49	13	7.9	11	6.8	NA	5	25	NA	64
	4/2/2008	6.7	<0.73	0.76	0.62	0.37	0.26	0.86	0.69	NA	NA	0.71	<0.14	NA	5.4	0.29	0.51	<0.34	<0.33	NA	<0.42	0.38	NA	5
	7/29/2008	22	0.84	2.5	1.7	0.35	0.32	1.1	0.53	NA	NA	1.5	<0.13	NA	15	2.4	0.51	4.2	2	NA	<0.41	0.73	NA	18
	10/21/2008	32	3.4	3	1.4	<0.39	<0.20	0.74	1.8	NA	NA	0.85	1	NA	21	16	<0.25	16	<1.2	NA	5.9	35	NA	15
	5/8/2009	<0.34	<0.71	0.27	0.21	0.32	0.18	0.46	0.33	NA	NA	0.45	<0.13	NA	2.7	0.67	0.4	1	3.6	NA	2	0.26	NA	1.1
	10/28/2009	33	4.4	3.3	0.42	<0.10	<0.051	0.064	<0.12	NA	NA	0.37	<0.13	NA	18	19	<0.064	9.7	3.5	NA	3.1	28	NA	28
	4/9/2010	27	3.1	2.2	0.39	0.11	<0.051	0.24	<0.12	NA	NA	0.28	<0.13	NA	11	3	0.067	4.2	0.83	NA	0.89	0.46	NA	9.4
	10/19/2010	22	1.7	2.2	0.58	<0.10	<0.050	0.063	<0.12	NA	NA	0.25	<0.13	NA	15	15	<0.063	5.5	3	NA	2.4	22	NA	14
	4/8/2011	18	1.58	1.18	0.224	<0.10	<0.100	0.15	<0.20	NA	NA	0.196	<0.20	NA	6.66	0.111	<0.100	<0.20	<0.20	NA	<0.20	0.114	NA	7.59
	10/25/2011	27.1	3.2	<0.01	0.421	0.119	<0.007	0.226	0.157	NA	NA	0.323	<0.01	NA	12	9.31	0.1	1.45	<0.1	NA	0.402	<0.005	NA	13.6
	4/25/2012	27	2.7	0.64	0.42	<0.061	<0.078	0.13	<0.44	NA	NA	0.134	<0.067	NA	11	11	<0.088	NA	NA	NA	0.980	29	NA	13
MW-6	11/29/2001	35	2.6	6.6	1.1	NA	NA	NA	NA	NA	0.4	1	NA	1.9	7.8	9.2	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001	30	2.1	4.7	1	NA	NA	NA	NA	NA	0.36	0.9	NA	1.7	7	7.8	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2002	29	NA	9.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2	13	NA	NA	NA	NA	3.3	26	NA	8.1
	7/9/2003	37	NA	9.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.9	11	NA	NA	NA	NA	41	32	8.1	13
	12/16/2005	39	<0.73	8.4	2.3	0.41	0.25	0.89	0.37	NA	NA	1.2	<0.28	NA	13	22	0.4	33	8.7	NA	60	31	NA	6.2
	5/22/2006	40	1.4	11	2.8	0.63	0.45	1.6	0.75	NA	NA	1.8	0.14	NA	18	20	0.64	32	11	NA	49	32	NA	9.4
	7/31/2007	1.7	<0.73	0.6	0.45	0.12	<0.052	0.15	<0.13	NA	NA	0.28	<0.14	NA	3.6	0.45	<0.065	<0.34	0.63	NA	<0.42	0.23	NA	1.7
	11/1/2007	32	<0.72	9.2	3.2	0.65	0.4	1.7	0.78	NA	NA	2.1	0.16	NA	20	19	0.71	25	7.4	NA	62	27	NA	9.5
	4/2/2008	4.1	<0.70	2.1	1.4	0.24	0.18	0.49	0.21	NA	NA	0.65	0.16	NA	11	1.8	0.21	0.72	<0.32	NA	0.73	0.69	NA	6.2
	7/29/2008	5.5	<0.75	5.5	0.93	<0.11	0.088	0.21	<0.13	NA	NA	0.36	<0.14	NA	9.8	4.2	0.1	5	2.8	NA	1.8	7.2	NA	2.7
	10/21/2008	9	<0.69	7	1.3	0.22	0.17	0.43	0.2	NA	NA	0.81	<0.13	NA	16	5.1	0.27	11	<0.31	NA	60	18	NA	6.2
	5/8/2009	3.4	<0.69	4.1	0.54	0.19	0.09	0.23	0.21	NA	NA	0.84	<0.13	NA	9.4	3.1	0.12	<0.32	1.7	NA	0.69	5.6	NA	14
	10/28/2009	5.4	2.9	5.2	0.46	0.2	<0.049	0.17	<0.12	NA	NA	0.43	<0.13	NA	10	3.9	<0.062	4.4	1.4	NA	0.92	8.2	NA	16
	4/9/2010	4.8	<0.69	5.4	0.74	<0.098	<0.049	0.25	<0.12	NA	NA	0.6	<0.13	NA	11	3.8	<0.062	4.1	1.5	NA	0.56	9.7	NA	17
	10/19/2010	6.8	<0.70	2.8	1.1	<0.099	<0.049	0.29	0.4	NA	NA	0.6	<0.13	NA	8	4.2	0.14	11	2.5	NA	130	7.8	NA	9.6
	4/8/2011	4.27	<0.400	2.85	0.484	0.137	0.1	0.225	<0.200	NA	NA	0.593	<0.2	NA	2.99	2.08	0.115	3.03	<0.2	NA	<0.2	4.65	NA	0.86
	10/25/2011	6.61	4.94	2.63	0.932	0.369	0.221	0.59	0.229	NA	NA	0.942	0.0271	NA	6.58	3.89	0.216	12.7	3.15	NA	119	8.39	NA	6.55
	4/25/2012	1.9	<0.35	1.2	0.52	0.21	0.24	0.32	<0.46	NA	NA	0.158	<0.070	NA	2.8	1	0.150	NA	NA	NA	3.5	3.4	NA	3.2

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XCEL ENERGY
Chippewa Falls MGP Site

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	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-7	11/29/2001	70	3.4	14	0.76	NA	NA	NA	NA	NA	1.3	0.63	NA	5.1	11	32	NA	NA	3.8	NA	15	59	NA	14
	12/19/2001	43	2.4	4.7	2.4	1.6	2	3	2.3	NA	0.75	2.7	5.3	1.7	11	10	1.8	NA	NA	3.4	2.6	1.3	NA	16
	5/24/2002	61	3.1	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7	13	26	NA	NA	NA	NA	63	60	NA	16
	7/9/2003	47	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2	22	NA	NA	NA	NA	NA	96	59	NA	16
	12/16/2005	60	<0.74	23	16	3.9	2.6	9.7	5	NA	NA	8.8	0.59	NA	57	38	4.3	42	20	NA	82	90	NA	47
	5/22/2006	72	4.8	30	19	5.8	3.4	15	8.3	NA	NA	13	0.91	NA	74	42	6.8	42	27	NA	58	110	NA	64
	7/13/2007	20	<7.3	5.3	5.1	1.9	1.2	4.4	3.5	NA	NA	3.6	<1.4	NA	19	6.9	2.5	3.6	4.6	NA	<4.2	5.7	NA	19
	11/1/2007	61	<3.6	15	4.5	2.3	0.61	4.4	2.2	NA	NA	4.8	<0.68	NA	32	31	1.3	22	15	NA	<2.1	27	NA	27
	4/2/2008	28	<0.74	7.1	7.7	2.9	2.1	6.3	3.9	NA	NA	3.9	0.62	NA	25	13	3.3	11	11	NA	3.6	15	NA	19
	10/21/2008	72	12	21	6.2	1.6	1.2	4.4	2.5	NA	NA	3.8	<1.4	NA	39	38	1.9	61	<3.4	NA	120	70	NA	26
	5/8/2009	2.5	<0.77	0.87	0.56	0.68	0.35	0.99	0.71	NA	NA	0.85	<0.14	NA	7.3	0.42	0.71	0.58	3.1	NA	<0.44	0.76	NA	6.3
	10/28/2009	11	<0.73	1.1	0.93	0.57	0.27	1.2	0.99	NA	NA	0.91	<0.14	NA	6.1	0.99	0.57	<0.34	3.1	NA	0.82	1.2	NA	7.1
	4/9/2010	36	7.8	8.5	3.7	1.3	0.5	2.8	2.2	NA	NA	3	0.14	NA	21	17	1.5	22	9.3	NA	18	20	NA	27
	10/19/2010	49	11	9.7	0.75	0.15	<0.052	0.13	<0.13	NA	NA	0.4	<0.14	NA	12	32	<0.065	44	9.9	NA	34	42	NA	22
	4/8/2011	39.3	8.12	6.09	0.799	0.4	0.202	0.648	0.547	NA	NA	0.66	<0.20	NA	6.12	16	0.489	28.7	<0.2	NA	2.89	14.5	NA	3.8
	10/25/2011	3.56	42.6	5.04	<0.02	4.06	1.9	6.77	4.77	NA	NA	6.41	0.425	NA	25.8	17.4	4.21	13.5	0.251	NA	0.399	6.9	NA	34.2
	4/25/2012	9.6	3.6	2.9	8.8	8.8	4.1	11	8.7	NA	NA	9.0	1.4	NA	24	2.6	6.1	NA	NA	NA	0.720	9.6	NA	30
MW-9	5/24/2002	57	NA	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	29	NA	NA	8	NA	110	84	NA	17
	6/25/2002	85	7.1	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.3	9.9	34	NA	NA	12	3.4	140	72	NA	13
	7/9/2003	55	4.7	16	NA	NA	NA	NA	NA	3.7	NA	NA	NA	5.2	11	28	NA	NA	NA	NA	NA	53	NA	15
	12/16/2005	260	20	370	310	97	70	230	100	NA	NA	190	19	NA	980	250	100	180	91	NA	37	1,000	NA	820
	5/22/2006	170	8.2	140	100	39	29	96	45	NA	NA	74	7.2	NA	350	140	42	150	60	NA	150	430	NA	330

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XCEL ENERGY
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	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-9R	7/31/2007	3	<0.73	0.65	0.33	0.2	0.1	0.34	0.2	NA	NA	0.29	<0.14	NA	1.9	1.2	0.2	3	2.8	NA	10	2	NA	1.6
	11/1/2007	<1.1	<2.3	0.99	1.2	0.47	0.36	1.3	1.2	NA	NA	0.8	<0.43	NA	4.1	<0.21	0.85	<1.1	<1.0	NA	<1.3	1.6	NA	4.3
	4/2/2008	6.3	<0.70	1.2	0.76	0.47	0.34	1.1	0.78	NA	NA	1.1	<0.13	NA	4	1.2	0.76	2.5	2.1	NA	4.5	5.6	NA	3.1
	7/29/2008	3	<0.71	0.34	0.23	0.11	0.11	0.3	0.24	NA	NA	0.15	<0.13	NA	1.1	0.29	0.19	<0.33	<0.32	NA	<0.41	0.27	NA	1.4
	10/21/2008	4.4	<0.73	1.5	0.16	<0.10	<0.052	0.15	<0.13	NA	NA	0.13	<0.14	NA	3.2	2.1	<0.065	1.9	1.9	NA	3.2	5.5	NA	2.4
	5/8/2009	3.4	<0.72	0.56	0.17	0.14	0.094	0.27	0.2	NA	NA	0.22	<0.14	NA	2.2	1.4	0.23	0.89	0.82	NA	1.9	1.7	NA	2.9
	10/28/2009	3.6	<0.69	1.6	0.096	<0.098	<0.049	<0.032	<0.12	NA	NA	0.12	<0.13	NA	3	1.8	0.075	1.5	1.8	NA	2.9	5.4	NA	4.3
	4/9/2010	1.3	<0.70	0.79	0.11	<0.10	<0.050	0.18	0.12	NA	NA	0.1	<0.13	NA	2.1	0.99	0.064	0.72	0.94	NA	2	2.2	NA	2.2
	10/19/2010	1.4	<0.70	0.64	0.46	0.24	0.19	0.47	0.42	NA	NA	0.33	0.29	NA	2.3	0.72	0.26	0.46	0.37	NA	1.3	1.6	NA	2.8
	4/8/2011	0.995	<0.4	0.306	<0.10	<0.10	<0.10	0.115	0.341	NA	NA	<0.100	<0.20	NA	0.935	0.205	<0.100	<0.20	<0.20	NA	0.45	0.4	NA	0.783
	10/25/2011	0.672	<0.087	0.227	0.0514	<0.028	<0.007	<0.008	<0.008	NA	NA	0.0494	<0.01	NA	0.843	0.153	<0.006	0.137	0.116	NA	0.568	0.604	NA	1.16
	4/25/2012	<0.40	<0.35	<0.35	<0.048	<0.064	<0.081	<0.062	<0.46	NA	NA	<0.15	<0.070	NA	0.43	<0.42	<0.092	NA	NA	NA	0.560	<0.38	NA	0.56
MW-10	5/24/2002	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.32	NA	<0.046
	5/22/2006	<0.36	<0.75	0.049	<0.048	<0.11	<0.053	0.053	<0.13	NA	NA	<0.045	<0.14	NA	0.22	<0.067	<0.067	<0.35	<0.34	NA	<0.43	0.13	NA	0.083
	7/31/2007	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.086	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	11/1/2007	<0.35	<0.73	<0.040	<0.047	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.044	<0.14	NA	<0.086	<0.066	<0.066	<0.34	<0.33	NA	<0.43	<0.032	NA	<0.047
	4/2/2008	<0.33	<0.70	0.16	0.12	<0.099	<0.049	0.18	<0.12	NA	NA	0.084	<0.13	NA	0.39	<0.063	0.093	<0.32	<0.31	NA	<0.40	0.34	NA	0.31
	7/29/2008	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	10/21/2008	<0.38	<0.78	<0.043	<0.050	<0.11	<0.056	<0.036	<0.14	NA	NA	<0.047	<0.15	NA	<0.092	<0.070	<0.070	<0.36	<0.35	NA	<0.45	<0.034	NA	<0.050
	5/8/2009	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.084	<0.064	<0.064	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	10/28/2009	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	NA	NA	<0.042	<0.13	NA	<0.083	<0.063	<0.063	<0.33	<0.32	NA	<0.41	<0.031	NA	<0.045
	4/9/2010	<0.35	<0.73	<0.040	<0.046	<0.10	<0.052	<0.034	<0.13	NA	NA	<0.043	<0.14	NA	<0.085	<0.065	<0.065	<0.34	<0.33	NA	<0.42	<0.032	NA	<0.046
	10/19/2010	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	NA	NA	<0.041	<0.13	NA	<0.081	<0.062	<0.062	<0.32	<0.31	NA	<0.40	<0.030	NA	<0.044
	4/8/2011	<0.20	<0.40	<0.100	<0.100	<0.100	<0.100	<0.100	<0.20	NA	NA	<0.100	<0.200	NA	<0.100	<0.100	<0.100	<0.20	<0.20	NA	<0.200	<0.100	NA	<0.100
	10/25/2011	<0.022	<0.087	<0.010	<0.020	<0.028	<0.007	<0.008	<0.008	NA	NA	<0.008	<0.010	NA	<0.010	<0.016	<0.006	<0.10	<0.10	NA	<0.046	<0.005	NA	<0.017
	4/25/2012	<0.36	<0.32	<0.32	<0.044	<0.058	<0.074	<0.056	<0.42	NA	NA	<0.14	<0.064	NA	<0.32	<0.38	<0.084	NA	NA	NA	<0.30	<0.35	NA	<0.48

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	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-11	7/9/2003	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	NA	NA	NA	NA	190	39	NA	NA
	5/22/2006	85	8.8	10	2.3	0.78	0.54	1.9	1.2	NA	NA	1.7	0.15	NA	13	34	1.3	100	44	NA	370	44	NA	6.8
	5/8/2009	69	<0.70	13	2.1	1.5	0.93	2.3	1.3	NA	NA	3	0.2	NA	11	42	1.3	46	18	NA	9.7	47	NA	29
	10/28/2009	64	4.1	15	2.6	1.3	0.75	2.2	1.6	NA	NA	2.6	<0.27	NA	23	40	0.98	43	16	NA	4.3	54	NA	36
	4/9/2010	78	11	14	2.2	0.9	0.43	2	1.2	NA	NA	1.8	0.15	NA	18	47	0.94	81	34	NA	280	48	NA	27
	10/19/2010	64	<4.5	15	7.8	3.1	2.1	5.7	5.2	NA	NA	5	4.2	NA	33	41	3.8	66	23	NA	240	53	NA	48
	4/8/2011	3.06	<0.4	6.05	1.86	1.03	0.619	1.81	1.15	NA	NA	2.05	<0.2	NA	8.81	4.88	1.01	<0.2	<0.2	NA	<0.2	1.53	NA	13.4
MW-12	12/16/2005	61	5.4	21	5.9	1.4	0.98	3.8	1.8	NA	NA	3.1	0.28	NA	34	38	1.6	54	58	NA	41	79	NA	20
	5/22/2006	12	1.2	4.7	0.3	<0.10	<0.051	0.058	<0.12	NA	NA	0.19	<0.14	NA	5.4	8	<0.065	12	5.4	NA	15	14	NA	2.7
	7/31/2007	13	1.7	5.3	1.4	0.57	0.38	1.5	0.87	NA	NA	1	<0.15	NA	7.9	8.7	0.67	14	5.6	NA	20	15	NA	5.2
	11/1/2007	16	4.6	6	0.8	0.18	0.15	0.54	0.33	NA	NA	0.35	<0.14	NA	6.8	11	0.25	19	6.4	NA	41	17	NA	3.2
	4/2/2008	8.8	<0.71	4	1.3	0.48	0.39	1.1	0.52	NA	NA	1.3	0.17	NA	6.7	5.9	0.53	8.8	4.4	NA	10	9.8	NA	4.1
	7/29/2008	12	2	5.6	1.3	0.46	0.41	1.3	0.67	NA	NA	0.76	<0.13	NA	8.2	7.5	0.73	12	5.2	NA	8.6	10	NA	5.8
	10/21/2008	9.3	1.8	5.1	0.8	0.25	0.19	<0.034	0.41	NA	NA	0.44	<0.14	NA	6.9	5.5	0.32	11	<0.33	NA	13	12	NA	4
	5/8/2009	9.7	2.3	3.5	0.27	0.18	0.11	0.23	0.13	NA	NA	0.43	<0.14	NA	3.5	7.5	0.14	11	4.4	NA	11	8.3	NA	7
	10/28/2009	9.6	2.9	4.1	0.25	<0.10	<0.051	0.08	<0.12	NA	NA	0.24	<0.14	NA	4.3	7.9	<0.065	10	4.7	NA	6.1	9.7	NA	7.6
	4/9/2010	8.5	<0.71	3.3	0.25	<0.10	<0.051	0.13	<0.12	NA	NA	0.22	<0.13	NA	4.1	6	<0.064	8.2	3.3	NA	8.5	5.5	NA	1.3
	10/19/2010	15	3.9	4.3	0.35	<0.10	<0.051	0.087	<0.13	NA	NA	0.23	<0.14	NA	3.6	9.4	<0.065	19	<0.32	NA	47	11	NA	7.3
	4/8/2011	6.73	1.91	2.53	0.257	0.105	<0.100	0.19	<0.20	NA	NA	0.267	<0.20	NA	1.78	2.36	0.132	5.62	0.33	NA	3.33	2.61	NA	1.36
	10/25/2011	9.71	1.36	3.88	0.205	<0.028	<0.007	0.0581	<0.008	NA	NA	0.21	<0.01	NA	3.07	4.46	<0.006	9.04	<0.10	NA	8.78	9.7	NA	2.66
	4/25/2012	6.2	0.93	2.5	0.24	0.098	<0.080	0.11	<0.45	NA	NA	0.22	<0.069	NA	2.4	2.3	0.11	NA	NA	NA	5.4	7.2	NA	3

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All measurements in ug/L.

Table 1

PAH WATER ANALYTICAL RESULTS
XCEL ENERGY
Chippewa Falls MGP Site

WELL #	Compounds	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (b) FLUORANTHENE	BENZO (K) FLUORANTHENE	BENZO (a) PYRENE	BENZO (ghi) PERYLENE	bis(2-ETHYLHEXYL)PHTHALATE	CARBAZOLE	CHRYSENE	DIBENZO (a,h) ANTHRACENE	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO (1,2,3-cd) PYRENE	1-METHYLNAPTHALENE	2-METHYLNAPTHALENE	4-METHYLPHENOL	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE
	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
MW-13	12/16/2005	28	5.4	16	11	3.2	2.1	8.5	4.5	NA	NA	6.6	0.61	NA	39	24	4	19	7.5	NA	20	51	NA	34
	5/22/2006	12	1.9	5.7	14	5.6	3.9	15	8.4	NA	NA	12	1.1	NA	31	5.3	6.6	3.4	4.3	NA	2.9	0.57	NA	32
	7/31/2007	11	<3.7	6.1	4.5	1.6	0.99	4.2	2.5	NA	NA	3.2	<0.70	NA	16	8.9	2	3.9	2.5	NA	<2.2	14	NA	13
	11/1/2007	25	13	13	7.1	1.4	1.2	5.2	5.1	NA	NA	2.9	<0.68	NA	25	27	2.1	30	10	NA	180	47	NA	21
	4/2/2008	5.8	<0.70	7.3	8.3	4.3	3	11	6.4	NA	NA	5.2	1	NA	22	3.4	5.4	1.6	2.8	NA	0.93	5.4	NA	22
	7/29/2008	19	11	7.9	1.1	0.22	0.2	0.66	0.27	NA	NA	0.54	<0.27	NA	11	18	0.34	31	10	NA	190	31	NA	7.1
	10/21/2008	19	8.5	13	9.6	2.7	1.7	8.3	4.7	NA	NA	5.4	<1.3	NA	37	17	3.5	28	<31	NA	160	37	NA	27
	5/8/2009	26	18	11	1.8	0.44	2.6	0.075	0.49	NA	NA	2.3	0.4	NA	8.9	24	1.9	37	11	NA	110	34	NA	25
	10/28/2009	26	15	17	17	8.9	5.3	18	11	NA	NA	16	0.96	NA	54	20	7.3	37	7.8	NA	120	44	NA	100
	4/9/2010	23	13	6.9	1.7	0.62	0.26	1.5	0.81	NA	NA	1.4	0.13	NA	11	18	0.42	29	5.5	NA	69	18	NA	16
	10/19/2010	23	11	11	16	7	4.8	11	7.7	NA	NA	7.8	5.1	NA	44	17	5.7	26	3.4	NA	18	32	NA	44
	4/8/2011	9.8	0.627	5.29	7.78	4.59	2.24	8.23	5.51	NA	NA	6.13	0.931	NA	13.3	5.14	5.02	0.218	<0.2	NA	<0.2	1.46	NA	19
	10/25/2011	25	13.4	4.25	0.772	0.259	0.126	0.471	0.253	NA	NA	0.683	0.024	NA	8.7	19.2	0.227	29.2	<0.1	NA	42.5	30.1	NA	8.21
	4/25/2012	23	10.0	3.7	5.2	3.5	1.6	4.7	2.5	NA	NA	4.4	0.460	NA	15	13	1.9	NA	NA	NA	49	29	NA	20
MW-14	12/16/2005	700	11	55	35	92	62	230	100	NA	NA	22	18	NA	140	<0.66	100	480	390	NA	470	170	NA	110
	5/22/2006	670	32	420	230	71	45	190	93	NA	NA	160	14	NA	940	450	84	490	500	NA	930	1300	NA	720
MW-14R	7/31/2007	160	10	23	6.7	3	1.6	6.2	3.2	NA	NA	5.2	<0.68	NA	34	69	2.8	160	180	NA	460	98	NA	27
	11/1/2007	56	2.1	21	14	3.8	2.7	12	6.8	NA	NA	8.8	0.87	NA	39	23	5.4	30	36	NA	33	37	NA	33
	4/2/2008	420	<3.6	190	110	44	32	99	50	NA	NA	66	8.5	NA	470	200	48	260	350	NA	330	530	NA	330
	7/29/2008	72	2.6	25	13	3.4	2.8	9.8	13	NA	NA	9.1	2.4	NA	53	30	5.1	35	46	NA	24	56	NA	45
	10/21/2008	48	<2.9	19	5.8	1.6	1.1	4.7	2.6	NA	NA	3.8	<0.54	NA	37	26	2	23	37	NA	19	61	NA	27
	5/8/2009	21	<0.72	3.8	1.7	1	0.6	1.5	0.77	NA	NA	2	<0.14	NA	7.1	5.9	0.79	9.7	11	NA	<0.42	0.76	NA	7.3
	10/28/2009	19	0.75	8	13	0.37	0.27	0.83	0.46	NA	NA	1.2	<0.13	NA	13	10	0.33	11	17	NA	14	17	NA	18
	4/9/2010	46	<0.72	13	2.1	<0.10	0.47	1.6	0.85	NA	NA	0.52	<0.14	NA	16	22	0.69	30	40	NA	70	36	NA	24
	10/19/2010	17	<0.70	6	2.7	1	0.75	1.8	1.4	NA	NA	1.8	0.91	NA	12	9.3	0.93	12	12	NA	12	18	NA	17
	4/8/2011	3.78	<0.40	0.47	0.158	<0.1	<0.1	0.173	<0.2	NA	NA	0.206	<0.2	NA	0.668	0.747	<0.1	1.12	<0.2	NA	<0.2	<0.1	NA	1.02
	10/25/2011	6.75	0.441	1.78	0.287	0.18	0.0889	0.29	0.173	NA	NA	0.298	0.0333	NA	2.23	3.5	0.156	4.72	4.52	NA	6.3	6.85	NA	3.02
	4/25/2012	20	0.97	5.1	1.8	1.1	0.38	1.3	0.78	NA	NA	1.6	0.1900	NA	7.8	7.5	0.57	NA	NA	NA	1.9	17	NA	10

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All measurements in ug/L.

Table 1

PAH WATER ANALYTICAL RESULTS
XCEL ENERGY
Chippewa Falls MGP Site

	Compounds	ACENAPHTHENE	ACENAPHTHYLENE	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (b) FLUORANTHENE	BENZO (K) FLUORANTHENE	BENZO (a) PYRENE	BENZO (ghi) PERYLENE	bis(2-ETHYLHEXYL)PHTHALATE	CARBAZOLE	CHRYSENE	DIBENZO (a,h) ANTHRACENE	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO (1,2,3-cd) PYRENE	1-METHYLNAPTHALENE	2-METHYLNAPTHALENE	4-METHYLPHENOL	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE
WELL #	NR 140 PAL	None	None	600	None	0.02	None	0.02	None	6	None	0.02	None	None	None	80	None	None	None	None	40	None		50
	NR 140 ES	None	None	3000	None	0.2	None	0.2	None	0.6	None	0.2	None	None	None	400	None	None	None	None	8	None		250
	DATE																							
SEEP #1	11/21/2005	23	0.83	5.8	2.7	0.4	0.32	0.92	0.4	NA	NA	1.6	<0.14	NA	25	4.1	0.5	<0.34	5.2	NA	1	9	NA	23
SEEP #2	11/29/2001	18	NA	9.9	2.4	NA	NA	2.6	NA	NA	NA	2.8	NA	NA	12	11	NA	NA	NA	NA	NA	27	NA	10
	12/19/2001	NA	1	NA	0.96	1.2	1.7	2.2	3.3	2.2	NA	1.3	5.2	NA	1.3	NA	2.2	NA	NA	NA	NA	0.38	NA	2.4
	11/21/2005	8.8	<0.72	2.4	0.44	0.29	0.15	0.44	0.43	NA	NA	0.31	<0.14	NA	3.4	1.4	0.35	<0.33	1.9	NA	0.5	5.1	NA	2.1

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PAH = Polynuclear Aromatic Hydrocarbons.
All measurements in ug/L.

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-1	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2002		NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003		2.1	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	280	0.66	NA	NA	3,000	NA
	5/22/2006		<7.7	<0.79	NA	190	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	970	NA	<100	NA	5,200	NA
	4/2/2008		<17	NA	NA	350	NA	<100	NA	<1500	NA
	7/29/2008		<17	NA	NA	960	NA	170	NA	5,100	NA
	10/21/2008		<17	NA	NA	1100	NA	440	NA	4,300	NA
	5/8/2009		<17	<0.12	5.9	1200	<0.12	NA	0.6	NA	0.97
	10/28/2009		<17	<0.61	<0.61	1300	<0.61	NA	1.1	NA	0.87
	4/9/2010		<2.7	<0.61	<0.61	1800	<0.61	NA	<0.20	NA	0.62
	10/19/2010		<8.1	<0.61	<0.61	1600	<0.61	NA	1.2	NA	0.95
	4/8/2011		<1.7	<0.47	<1.81	1300	<1	NA	<0.23	NA	<0.13
	10/25/2011		<1.7	<0.47	<1.81	1030	<1	NA	0.54	NA	<0.13
	4/25/2012		1.4	<2.4	<0.96	1200	<1.6	NA	<0.12	NA	<36

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-2	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	210	0.58	NA	NA	3,000	NA
	5/22/2006		<7.7	<0.79	NA	96	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	130	NA	980	NA	1,400	NA
	4/2/2008		<17	NA	NA	<16	NA	480	NA	3,800	NA
	7/29/2008		<17	NA	NA	<16	NA	280	NA	2,700	NA
	10/21/2008		<17	NA	NA	<16	NA	370	NA	<1500	NA
	10/28/2009		<17	<0.61	<0.61	<150	<0.61	NA	0.86	NA	0.9
	4/9/2010		<2.7	<0.61	<0.61	<150	<0.61	NA	<0.20	NA	0.53
	10/19/2010		<5.4	<0.61	<0.61	<150	<0.61	NA	0.8	NA	1
	4/8/2011		<1.7	<0.47	<1.81	<7.47	<1	NA	<0.21	NA	<0.13
	10/25/2011		<1.7	<0.47	<1.81	8.22	<1	NA	<0.24	NA	<0.13
	4/25/2012		<1.1	<2.4	<0.96	<70	<1.6	NA	<0.12	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-3	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	2,000	0.83	NA	NA	3,000	NA
	5/22/2006		<15	<0.79	NA	16	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	570	NA	120	NA	2,400	NA
	4/2/2008		<17	NA	NA	200	NA	770	NA	6,200	NA
	7/29/2008		<17	NA	NA	3,900	NA	<100	NA	6,000	NA
	10/21/2008		<17	NA	NA	1,300	NA	<100	NA	2,700	NA
	5/8/2009		<17	<0.12	5.4	<150	<0.12	NA	0.9	NA	0.96
	10/28/2009		<17	0.91	<0.61	<150	<0.61	NA	0.86	NA	0.89
	4/9/2010		<2.7	<0.61	<0.61	230	<0.61	NA	<0.20	NA	0.47
	10/19/2010		<5.4	0.73	<0.61	1,800	<0.61	NA	1.6	NA	1.1
	4/8/2011		<1.7	<0.47	<1.81	291	<1.0	NA	<0.22	NA	<0.13
	10/25/2011		<1.7	<0.47	<1.81	1610	<1.0	NA	<0.23	NA	<0.13
	4/25/2012		1.6	<2.4	<0.96	<70	<1.6	NA	<0.12	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-4	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	150	0.63	NA	NA	1,800	NA
	5/22/2006		<7.7	<0.79	NA	75	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	71	NA	3300	NA	12,000	NA
	4/2/2008		<17	NA	NA	<16	NA	950	NA	7,700	NA
	7/29/2008		<17	NA	NA	<16	NA	390	NA	8,100	NA
	10/21/2008		<17	NA	NA	66	NA	<100	NA	2,000	NA
	5/8/2009		<17	<0.24	6.2	350	0.28	NA	1.1	NA	0.89
	10/28/2009		<17	1.2	<0.61	<150	<0.61	NA	1.4	NA	0.9
	4/9/2010		<2.7	<0.61	<0.61	340	<0.61	NA	<0.20	NA	0.66
	10/19/2010		<8.1	1.1	<0.61	<150	<0.61	NA	0.4	NA	1.1
	4/8/2011		1.9	<0.47	<1.81	<7.47	<1	NA	<0.23	NA	<0.13
	10/25/2011		<1.7	0.582	3.07	214	1.04	NA	0.77	NA	<0.13
	4/25/2012		1.5	<2.4	<0.96	<70	<1.6	NA	<0.12	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-5	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2002		12	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003		1.6	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	5,000	0.64	NA	NA	1,300	NA
	5/22/2006		<7.7	<0.79	NA	5,600	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	3,600	NA	<100	NA	9,800	NA
	4/2/2008		26	NA	NA	1,000	NA	150	NA	43,000	NA
	7/29/2008		<17	NA	NA	2,100	NA	<100	NA	8,700	NA
	10/21/2008		<17	NA	NA	2,000	NA	<100	NA	5,300	NA
	5/8/2009		<17	<0.12	4.4	2,000	<0.12	NA	1.1	NA	0.91
	10/28/2009		<17	0.64	<0.61	2,200	<0.61	NA	1.4	NA	0.8
	4/9/2010		<2.7	<0.61	<0.61	2,400	<0.61	NA	<0.20	NA	0.56
	10/19/2010		<5.4	0.65	<0.61	2,500	<0.61	NA	0.8	NA	1.1
	4/8/2011		<1.7	<0.47	<1.81	1,870	<1	NA	<0.23	NA	<0.13
	10/25/2011		<1.7	<0.47	<1.81	1,930	1.85	NA	NA	NA	<0.13
	4/25/2012		2.2	<2.4	<0.96	2.5	<1.6	NA	<0.12	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-6	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2002		5.6	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003		3.9	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	130	0.83	NA	NA	1,800	NA
	5/22/2006		<7.7	<0.79	NA	1,200	<1.4	NA	NA	NA	NA
	7/31/2007		27	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		47	NA	NA	270	NA	<100	NA	16,000	NA
	4/2/2008		<17	NA	NA	<16	NA	280	NA	24,000	NA
	7/29/2008		48	NA	NA	29	NA	<100	NA	36,000	NA
	10/21/2008		32	NA	NA	<16	NA	<100	NA	26,000	NA
	5/8/2009		18	<0.12	4.1	160	0.13	NA	1.1	NA	1.2
	10/28/2009		23	2.4	<0.61	230	<0.61	NA	0.57	NA	1.1
	4/9/2010		9	1.3	<0.61	340	<0.61	NA	<0.20	NA	0.58
	10/19/2010		24	2.5	<0.61	200	<0.61	NA	3.2	NA	1.4
	4/8/2011		<1.7	2.1	<1.81	21.1	<1	NA	0.62	NA	<0.13
	10/25/2011		14.9	2.28	<1.81	33.4	1.06	NA	NA	NA	<0.13
	4/25/2012		13	<2.4	<0.96	<70	<1.6	NA	<0.12	NA	0.15

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-7	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2002		NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003		6.3	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	5,100	<0.44	NA	NA	1,300	NA
	5/22/2006		<7.7	<0.79	NA	9,800	<1.4	NA	NA	NA	NA
	7/31/2007		11	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	5,400	NA	<100	NA	22,000	NA
	4/2/2008		<17	NA	NA	1,800	NA	<100	NA	11,000	NA
	10/21/2008		<17	NA	NA	2,000	NA	200000	NA	2,800	NA
	5/8/2009		<17	<0.12	3.7	5,800	<0.12	NA	1.1	NA	1.1
	10/28/2009		<17	0.73	0.66	4,900	<0.61	NA	1.1	NA	2.4
	4/9/2010		<2.7	<0.61	5.1	2,400	<0.61	NA	<0.20	NA	0.4
	10/19/2010		<5.4	0.9	<0.61	3,100	<0.61	NA	1.6	NA	1.1
	4/8/2011		<1.7	<0.47	<1.81	4,240	<1	NA	<0.23	NA	<0.13
	10/25/2011		7.9	<0.47	<1.81	2,740	1.58	NA	NA	NA	<0.13
	4/25/2012		1.6	<2.4	<0.96	4,200	<1.6	NA	<0.12	NA	<36

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound PAL (ug/L) ES (ug/L)	Cyanide 40 200	Arsenic 5 50	Chromium 10 100	Iron	Lead 1.5 15	Nitrate/Nitrite	Sulfide (mg/L)	Sulfate	Thiocyanates (mg/L)
MW-9	5/24/2002		NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/25/2002		2.3	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	4,700	<0.44	NA	NA	690	NA
	5/22/2006		<7.7	<0.79	NA	7,000	2.7	NA	NA	NA	NA
MW-9R	7/31/2007		<15	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<15	NA	NA	<42	NA	2200	NA	170,000	NA
	4/2/2008		<17	NA	NA	<16	NA	290	NA	25,000	NA
	7/29/2008		<17	NA	NA	<16	NA	970	NA	55,000	NA
	10/21/2008		<17	NA	NA	<16	NA	220	NA	19,000	NA
	5/8/2009		<17	<0.12	5.7	170	<0.12	NA	0.9	NA	1
	10/28/2009		<17	2.8	<0.61	180	<0.61	NA	0.86	NA	0.95
	4/9/2010		<2.7	2.1	<0.61	310	<0.61	NA	<0.20	NA	0.19
	10/19/2010		<8.1	3.5	<0.61	<150	<0.61	NA	2	NA	1.2
	4/8/2011		<1.7	1.82	<1.81	10.3	<1	NA	<0.21	NA	<0.13
	10/25/2011		<1.7	2.55	<1.81	<7.47	<1	NA	NA	NA	<0.13
	4/25/12		<1.1	<2.4	<0.96	<70	<1.6	NA	<0.12	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound PAL (ug/L) ES (ug/L)	Cyanide 40 200	Arsenic 5 50	Chromium 10 100	Iron	Lead 1.5 15	Nitrate/Nitrite	Sulfide (mg/L)	Sulfate	Thiocyanates (mg/L)
MW-10	5/24/2002		NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/25/2002		NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/9/2003		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2005		<7.7	<0.79	NA	77	<0.44	NA	NA	2,400	NA
	5/22/2006		<7.7	<0.79	NA	<16	1.6	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	<42	NA	<100	NA	2,100	NA
	4/2/2008		<17	NA	NA	<16	NA	250	NA	2,400	NA
	7/29/2008		<17	NA	NA	<16	NA	780	NA	5,200	NA
	10/21/2008		<17	NA	NA	<16	NA	1000	NA	3,200	NA
	5/8/2009		<17	<0.12	4.8	<150	<0.12	NA	1.1	NA	1.1
	10/28/2009		<17	<0.61	<0.61	450	<0.61	NA	0.57	NA	0.87
	4/9/2010		<2.7	<0.61	<0.61	<150	<0.61	NA	<0.20	NA	0.41
	10/19/2010		<5.4	<0.61	<0.61	<150	<0.61	NA	1.2	NA	1
	4/8/2011		<1.7	<0.47	<1.81	<7.47	<1	NA	<0.22	NA	<0.13
	10/25/2011		<1.7	<0.47	<1.81	35.8	1.11	NA	0.67	NA	<0.13
	4/25/2012		1.2	<2.4	<0.96	<70	<1.6	NA	<0.17	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-11	7/9/2003		15	NA	NA	NA	NA	NA	NA	NA	NA
	5/22/2006		<7.7	<0.79	NA	30	<1.4	NA	NA	NA	NA
	5/8/2009		<17	<0.12	5	<150	0.44	NA	1.4	NA	0.87
	10/28/2009		51	4.3	<0.61	290	0.69	NA	1.7	NA	1.1
	4/9/2010		14	2.9	<0.61	260	<0.61	NA	<0.20	NA	0.71
	10/19/2010		24	2.8	<0.61	180	<0.61	NA	2	NA	0.98
	4/8/2011		<1.7	1.29	<1.81	16	<1	NA	0.62	NA	<0.13
MW-12	12/16/2005		<7.7	<0.79	NA	1,900	<0.44	NA	NA	2,400	NA
	5/22/2006		<7.7	<0.79	NA	1,900	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	2,300	NA	<100	NA	6,400	NA
	4/2/2008		<17	NA	NA	<16	NA	<100	NA	1,900	NA
	7/29/2008		<17	NA	NA	2,700	NA	<100	NA	3,200	NA
	10/21/2008		<17	NA	NA	2,100	NA	<100	NA	2,100	NA
	5/8/2009		<17	<0.12	4.5	2,400	<0.12	NA	1.1	NA	0.94
	10/28/2009		<17	<0.61	<0.61	2,200	<0.61	NA	0.86	NA	0.99
	4/9/2010		<2.7	<0.61	<0.61	2,500	<0.61	NA	<0.20	NA	0.58
	10/19/2010		<5.4	0.71	<0.61	2,600	<0.61	NA	<0.20	NA	1
	4/8/2011		<1.7	<0.47	<1.81	1,880	<1	NA	<0.22	NA	<0.13
	10/25/2011		2.24	<0.47	<1.81	2,900	<1.0	NA	0.67	NA	<0.13
	4/25/2012		<1.1	<2.4	<0.96	2,300	<1.6	NA	<0.13	NA	<0.036

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-13	12/16/2005		<7.7	<0.79	NA	4,000	<0.44	NA	NA	2,400	NA
	5/22/2006		<7.7	<0.79	NA	7,800	<1.4	NA	NA	NA	NA
	7/31/2007		<7.7	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		<7.7	NA	NA	1,300	NA	<100	NA	90,000	NA
	4/2/2008		61	NA	NA	2,200	NA	370	NA	380,000	NA
	7/29/2008		<17	NA	NA	300	NA	<100	NA	48,000	NA
	10/21/2008		<17	NA	NA	320	NA	<100	NA	24,000	NA
	5/8/2009		<17	<0.12	5.9	1,000	<0.12	NA	1.4	NA	0.96
	10/28/2009		<17	1.2	<0.61	1,800	<0.61	NA	1.1	NA	1.5
	4/9/2010		<2.7	<0.61	<0.61	2,100	<0.61	NA	<0.29	NA	0.59
	10/19/2010		<8.1	1	<0.61	1,500	<0.61	NA	0.8	NA	1.2
	4/8/2011		<1.7	<0.47	<1.81	1,670	<1	NA	<0.23	NA	<0.13
	10/25/2011		<1.7	<0.47	<1.81	1,280	1.27	NA	NA	NA	<0.13
	4/25/2012		2.8	<2.4	<0.96	2,500	<1.6	NA	<0.12	NA	<0.036
MW-14	12/16/2005		17	<0.79	NA	4,200	0.57	NA	NA	2,400	NA
	5/22/2006		<7.7	<0.79	NA	15,000	<1.4	NA	NA	NA	NA

TABLE 2
Metals and Cyanide Ground Water Results
Xcel Energy
Chippewa Falls MGP Site

Location	Date	Compound	Cyanide	Arsenic	Chromium	Iron	Lead	Nitrate/Nitrite	Sulfide	Sulfate	Thiocyanates
		PAL (ug/L)	40	5	10		1.5		(mg/L)		(mg/L)
		ES (ug/L)	200	50	100		15				
MW-14R	7/31/2007		<15	NA	NA	NA	<1.4	NA	NA	NA	NA
	11/1/2007		24	NA	NA	78	NA	6900	NA	1,100,000	NA
	4/2/2008		<17	NA	NA	7,100	NA	<100	NA	30,000	NA
	7/29/2008		<17	NA	NA	<16	NA	540	NA	160,000	NA
	10/21/2008		<17	NA	NA	<16	NA	160	NA	110,000	NA
	5/8/2009		40	<0.12	7.1	220	<0.12	NA	1.1	NA	1.2
	10/28/2009		23	3.5	<0.61	250	<0.61	NA	0.29	NA	1.1
	4/9/2010		0.012	3	0.67	890	<0.61	NA	<0.20	NA	0.28
	10/19/2010		<0.0081	3.3	0.95	<150	<0.61	NA	<0.20	NA	1.2
	4/8/2011		16.1	2.64	<1.81	15.7	<1	NA	<0.23	NA	<0.13
	10/25/2011		4.04	1.02	<1.81	10.3	1.02	NA	NA	NA	<0.13
	4/25/2012		2.2	<2.4	<0.96	<70	<1.6	NA	<0.12	NA	<0.036
SEEP #2	11/29/2001		NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2001		0.0076	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3

VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-1	11/29/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47	NA	NA	NA	NA	NA	NA	NA
	12/19/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/24/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/09/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/05	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/31/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	11/01/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	NA	NA
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/09/10	0.54	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/19/10	<0.20	<0.20	<0.25	0.28	<0.30	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.82	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	N	<0.25	NA	<0.25	<0.19	<0.39
	4/25/12	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39

All measurements in ug/L.
All **bold** results exceed the ES.
NA = Not Analyzed.

All measurements in ug/L.
* = 1,2,4 TMB and 1,3,5 TMB Combined.

ES = NR140 Enforcement Standards.
PAL = NR140 Preventive Action Limits.

TABLE 3

VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-2	11/29/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.67	NA	NA	NA	NA	NA	NA	NA
	12/16/05	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/31/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	11/01/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/19/10	<0.20	<0.20	<0.25	<0.20	<0.30	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.34	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39

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TABLE 3

VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-3	11/29/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.62	NA	NA	NA	NA	NA	NA	NA
	12/16/05	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/31/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	11/01/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/19/10	<0.20	<0.20	<0.25	<0.20	<0.30	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<1.0	<0.25	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39

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Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-4	11/29/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	NA	NA	NA	NA	NA	NA	NA
	12/16/05	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/31/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	11/01/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/19/10	<0.20	<0.20	<0.25	0.69	<0.30	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<1.0	<0.25	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.45	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.38	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39

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VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-5	11/29/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.91	NA	NA	NA	NA	NA	NA	NA
	12/19/01	2.7	NA	NA	NA	NA	NA	NA	1.5	NA	NA	NA	NA	23	NA	NA	NA	NA	NA	2.27
	05/24/02	2.8	NA	NA	NA	NA	NA	NA	0.46	NA	NA	NA	NA	21	NA	NA	NA	NA	NA	1.6
	07/09/03	7.7	NA	NA	NA	NA	NA	NA	1.8	0.71	NA	NA	NA	97	NA	NA	NA	1.8	NA	3.9
	12/16/05	1.4	NA	NA	NA	NA	NA	NA	1.7	NA	NA	<0.23	NA	NA	NA	0.19	NA	<0.25	<0.19	2
	05/22/06	2.9	NA	NA	NA	NA	NA	NA	0.92	NA	NA	<0.23	NA	NA	NA	<0.11	NA	0.35	0.27	2.4
	07/31/07	1.3	NA	NA	NA	NA	NA	NA	2	NA	NA	<0.23	NA	NA	NA	0.37	NA	0.3	0.27	3.3
	11/01/07	3.8	NA	NA	NA	NA	NA	NA	2.5	NA	NA	<0.23	NA	NA	NA	0.29	NA	2.3	0.68	6.5
	04/02/08	0.63	NA	NA	NA	NA	NA	NA	2.2	NA	NA	<0.23	NA	NA	NA	0.19	NA	<0.25	<0.19	2.1
	07/29/08	0.88	NA	NA	NA	NA	NA	NA	2.8	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.26	<0.19	3.1
	10/21/08	0.42	NA	NA	NA	NA	NA	NA	2.6	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	0.22	2.2
	05/08/09	0.66	NA	NA	NA	NA	NA	NA	2.6	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	0.28	2.6
	10/28/09	0.36	NA	NA	NA	NA	NA	NA	2.7	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	0.2	2.1
	04/09/10	0.32	NA	NA	NA	NA	NA	NA	2	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	0.25	1.9
	10/19/10	2	0.26	<0.25	<0.20	0.32	<0.50	<0.50	2	0.35	<0.20	<0.50	<1.0	20	<0.50	<0.50	<0.20	0.37	0.24	3.3
	04/08/11	0.57	NA	NA	NA	NA	NA	NA	1.8	NA	NA	0.3	NA	NA	NA	<0.25	NA	<0.25	0.31	2.1
	10/25/11	0.25	NA	NA	NA	NA	NA	NA	2.1	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	0.24	1.8
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	1.24	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.682	1.04	0.862

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Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-6	11/29/01	0.58	NA	NA	NA	NA	NA	NA	1.5	NA	NA	NA	0.53	15	NA	NA	NA	NA	NA	0.78
	12/19/01	0.77	NA	NA	NA	NA	NA	NA	1.4	NA	NA	NA	NA	16	NA	NA	NA	NA	NA	0.86
	05/24/02	1.3	NA	NA	NA	NA	NA	NA	1.1	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	0.73
	07/09/03	14	NA	NA	NA	NA	NA	NA	2.8	NA	NA	NA	NA	63	NA	3.8	NA	NA	NA	1.1
	12/16/05	3.1	NA	NA	NA	NA	NA	NA	7.7	NA	NA	<0.23	NA	NA	NA	4.3	NA	1	0.58	7.8
	05/22/06	1.6	NA	NA	NA	NA	NA	NA	5	NA	NA	<0.92	NA	NA	NA	3.2	NA	<1.0	<0.76	4.9
	07/31/07	4.1	NA	NA	NA	NA	NA	NA	5.2	NA	NA	<0.23	NA	NA	NA	3.1	NA	0.91	0.31	5.1
	11/01/07	10	NA	NA	NA	NA	NA	NA	8	NA	NA	<0.23	NA	NA	NA	5.5	NA	1.3	0.6	8.7
	04/02/08	1.9	NA	NA	NA	NA	NA	NA	5.4	NA	NA	<0.23	NA	NA	NA	2.6	NA	1.6	0.61	6.6
	07/29/08	6.5	NA	NA	NA	NA	NA	NA	10	NA	NA	<0.23	NA	NA	NA	6.9	NA	2.5	0.73	10
	10/21/08	6.6	NA	NA	NA	NA	NA	NA	12	NA	NA	<1.2	NA	NA	NA	8.9	NA	3.1	0.95	11
	05/08/09	3.6	NA	NA	NA	NA	NA	NA	9.4	NA	NA	<0.23	NA	NA	NA	6	NA	2.8	1.1	9.3
	10/28/09	2.6	NA	NA	NA	NA	NA	NA	7.9	NA	NA	<0.23	NA	NA	NA	5.8	NA	2.5	0.88	7.2
	04/09/10	2	NA	NA	NA	NA	NA	NA	6.4	NA	NA	<0.23	NA	NA	NA	3.7	NA	2.5	0.88	5.5
	10/19/10	4.1	<0.20	<0.25	<0.20	<0.30	<0.50	<0.50	13	0.62	0.35	<0.50	<1.0	160	<0.50	7.1	<0.20	2.5	0.98	11
	04/08/11	2.1	NA	NA	NA	NA	NA	NA	17	NA	NA	0.31	NA	NA	NA	4.4	NA	3.7	1.2	18
	10/25/11	2.5	NA	NA	NA	NA	NA	NA	15	NA	NA	<0.23	NA	NA	NA	5.1	NA	4.3	1.5	15
	04/25/12	0.746	NA	NA	NA	NA	NA	NA	12	NA	NA	<0.23	NA	NA	NA	2.73	NA	5.98	4.59	12.1

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ES		5	None		6	3	60	70	700	None	None		5	40	None	1,000	5	480*	480*	10,000
PAL		0.5	None		0.6	0.3	6	7	140	None	None		0.5	8	None	200	0.5	96*	96*	1,000
MW-7	11/29/01	3.4	NA	NA	NA	NA	NA	NA	8.5	0.55	NA	NA	0.64	190	NA	0.79	NA	2	1	4.7
	12/19/01	3.2	NA	NA	NA	0.54	NA	NA	7.4	0.52	2.2	NA	NA	160	NA	0.73	NA	1.7	0.89	4
	05/24/02	3	NA	NA	NA	NA	NA	NA	6.3	0.45	NA	NA	NA	140	NA	0.62	NA	1.3	0.67	3.3
	07/09/03	3.4	NA	NA	NA	NA	NA	NA	8.6	NA	NA	NA	NA	220	NA	2.5	NA	3.1	NA	2.7
	12/16/05	2.5	NA	NA	NA	NA	NA	NA	6.3	NA	NA	<0.23	NA	NA	NA	0.98	NA	1.9	0.82	4.4
	05/22/06	2.6	NA	NA	NA	NA	NA	NA	5	NA	NA	<0.23	NA	NA	NA	0.92	NA	1.4	0.56	3.3
	07/31/07	7	NA	NA	NA	NA	NA	NA	17	NA	NA	<0.23	NA	NA	NA	6.2	NA	3	0.89	19
	11/01/07	4.6	NA	NA	NA	NA	NA	NA	18	NA	NA	<0.23	NA	NA	NA	3.6	NA	3.2	0.98	21
	04/02/08	2.8	NA	NA	NA	NA	NA	NA	8.8	NA	NA	<0.23	NA	NA	NA	1.5	NA	1.7	0.52	10
	10/21/08	3.2	NA	NA	NA	NA	NA	NA	15	NA	NA	<0.23	NA	NA	NA	2	NA	2.2	0.73	13
	05/08/09	2.7	NA	NA	NA	NA	NA	NA	11	NA	NA	<0.23	NA	NA	NA	2	NA	2.9	1	11
	10/28/09	1.9	NA	NA	NA	NA	NA	NA	8	NA	NA	<0.23	NA	NA	NA	0.99	NA	0.94	0.46	7.3
	04/09/10	2.4	NA	NA	NA	NA	NA	NA	7.9	NA	NA	<0.23	NA	NA	NA	1.1	NA	1.2	0.63	7.7
	10/19/10	2.5	0.59	<0.25	<0.20	<0.30	<0.50	<0.50	10	0.87	<0.20	<0.50	<1.0	170	<0.50	1.2	<0.20	0.67	0.68	7.4
	04/08/11	1.8	NA	NA	NA	NA	NA	NA	7.8	NA	NA	0.26	NA	NA	NA	0.9	NA	0.32	0.7	6.9
	10/25/11	1.6	NA	NA	NA	NA	NA	NA	7.9	NA	NA	0.36	NA	NA	NA	0.85	NA	0.64	0.81	6.2
	04/25/12	1.44	NA	NA	NA	NA	NA	NA	4.63	NA	NA	<0.23	NA	NA	NA	0.566	NA	1.84	2.59	4.52

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Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		5	None		6	3	60	70	700	None	None		5	40	None	1,000	5	480*	480*	10,000
PAL		0.5	None		0.6	0.3	6	7	140	None	None		0.5	8	None	200	0.5	96*	96*	1,000
MW-9	05/24/02	NA	NA	NA	NA	NA	NA	NA	8.9	1.1	1.8	NA	NA	300	NA	3.3	NA	7.4	2.8	7.2
	06/25/02	NA	NA	NA	NA	NA	NA	NA	6.9	1.1	NA	NA	NA	220	NA	1.8	NA	7	2.5	5.5
	07/09/03	NA	NA	NA	NA	NA	NA	NA	1.9	NA	NA	NA	NA	86	NA	NA	NA	2.9	1.4	NA
	12/16/05	<0.25	NA	NA	NA	NA	NA	NA	3.6	NA	NA	<0.23	NA	NA	NA	0.51	NA	3.9	1.8	3.3
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	4.4	NA	NA	<0.23	NA	NA	NA	1.4	NA	4.7	2.1	4.5
MW-9R	07/31/07	<0.25	NA	NA	NA	NA	NA	NA	1.6	NA	NA	<0.23	NA	NA	NA	0.24	NA	0.84	0.36	1.2
	11/01/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	0.3	NA	NA	<0.23	NA	NA	NA	0.31	NA	<0.25	<0.19	0.49
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/19/10	<0.20	<0.20	<0.25	<0.20	7	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<1.0	1.6	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.56	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39

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All **bold** results exceed the ES.
NA = Not Analyzed.

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TABLE 3

VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		5	None		6	3	60	70	700	None	None		5	40	None	1,000	5	480*	480*	10,000
PAL		0.5	None		0.6	0.3	6	7	140	None	None		0.5	8	None	200	0.5	96*	96*	1,000
MW-10	05/24/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/09/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/05	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	0.41
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	0.21	NA	<0.25	<0.19	<0.39
	07/31/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	11/01/07	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	<0.39
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/19/10	<0.20	<0.20	<0.25	<0.20	<0.30	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	1.1	<0.25	<0.50	<0.50	<0.20	<0.20	<0.20	<0.50
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	0.42	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	<0.39

All measurements in ug/L.
All **bold** results exceed the ES.
NA = Not Analyzed.

All measurements in ug/L.
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TABLE 3

VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		**5**	**None**		**6**	**3**	**60**	**70**	**700**	**None**	**None**		**5**	**40**	**None**	**1,000**	**5**	**480***	**480***	**10,000**
PAL		**0.5**	**None**		**0.6**	**0.3**	**6**	**7**	**140**	**None**	**None**		**0.5**	**8**	**None**	**200**	**0.5**	**96***	**96***	**1,000**
MW-11	07/09/03	18	NA	NA	NA	NA	NA	NA	5.8	NA	NA	NA	NA	280	NA	5.4	NA	3.5	NA	2.3
	05/22/06	6.2	NA	NA	NA	NA	NA	NA	13	NA	NA	<0.92	NA	NA	NA	8.3	NA	4.1	1.6	12
	05/08/09	5.4	NA	NA	NA	NA	NA	NA	15	NA	NA	<0.46	NA	NA	NA	13	NA	6.1	1.9	15
	10/28/09	4.6	NA	NA	NA	NA	NA	NA	15	NA	NA	<0.23	NA	NA	NA	9.5	NA	4.4	1.2	12
	04/09/10	3.9	NA	NA	NA	NA	NA	NA	17	NA	NA	<0.23	NA	NA	NA	8.1	NA	5.1	1.1	13
	10/19/10	2.6	0.2	<0.25	<0.20	<0.30	<0.50	<0.50	8.9	0.37	0.22	<0.50	<1.0	140	<0.50	4.2	<0.20	1.3	0.45	7.4
	04/08/11	2.9	NA	NA	NA	NA	NA	NA	26	NA	NA	0.77	NA	NA	NA	7.3	NA	6.7	2	26
MW-12	12/16/05	0.49	NA	NA	NA	NA	NA	NA	2.7	NA	NA	<0.23	NA	NA	NA	0.47	NA	2.2	0.94	2.4
	05/22/06	<0.25	NA	NA	NA	NA	NA	NA	1.3	NA	NA	<0.23	NA	NA	NA	0.14	NA	0.68	0.29	1.2
	07/31/07	0.33	NA	NA	NA	NA	NA	NA	3.6	NA	NA	<0.23	NA	NA	NA	0.33	NA	0.57	0.31	3.4
	11/01/07	0.68	NA	NA	NA	NA	NA	NA	8.2	NA	NA	<0.23	NA	NA	NA	0.95	NA	1.4	0.45	6.6
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	2	NA	NA	<0.23	NA	NA	NA	0.14	NA	<0.25	<0.19	1.6
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	3.8	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.28	0.2	2.8
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	2.6	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	2
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	3.2	NA	NA	<0.23	NA	NA	NA	0.27	NA	<0.25	0.21	2.8
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	3	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	2.2
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	2.8	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	<0.19	2.2
	10/19/10	0.35	0.41	<0.25	<0.20	<0.30	<0.50	<0.50	8.5	1.2	<0.20	<0.50	<1.0	90	<0.50	0.67	<0.20	1.4	0.43	6.2
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	2	NA	NA	0.24	NA	NA	NA	<0.25	NA	<0.25	<0.19	1.8
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	4.2	NA	NA	<0.23	NA	NA	NA	<0.25	NA	<0.25	0.19	3.1
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	2.26	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.853	0.747	1.54

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TABLE 3

VOC WATER ANALYTICAL RESULTS

Xcel Energy

Chippew Falls MGP Site

Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		5	None		6	3	60	70	700	None	None		5	40	None	1,000	5	480*	480*	10,000
PAL		0.5	None		0.6	0.3	6	7	140	None	None		0.5	8	None	200	0.5	96*	96*	1,000
MW-13	12/16/05	0.39	NA	NA	NA	NA	NA	NA	0.71	NA	NA	<0.23	NA	NA	NA	0.49	NA	0.71	0.49	2.8
	05/22/06	0.28	NA	NA	NA	NA	NA	NA	0.3	NA	NA	<0.23	NA	NA	NA	0.31	NA	<0.25	<0.19	1.4
	07/31/07	2.2	NA	NA	NA	NA	NA	NA	7.5	NA	NA	<0.23	NA	NA	NA	5.9	NA	2.4	1	21
	11/01/07	1.2	NA	NA	NA	NA	NA	NA	6.9	NA	NA	<0.23	NA	NA	NA	3.3	NA	3.2	1.2	20
	04/02/08	<0.25	NA	NA	NA	NA	NA	NA	<0.22	NA	NA	<0.23	NA	NA	NA	<0.11	NA	<0.25	<0.19	0.72
	07/29/08	1	NA	NA	NA	NA	NA	NA	4.9	NA	NA	<0.23	NA	NA	NA	2.4	NA	2.4	1.3	11
	10/21/08	0.87	NA	NA	NA	NA	NA	NA	4.8	NA	NA	<0.23	NA	NA	NA	2.3	NA	2.4	1.3	10
	05/08/09	0.91	NA	NA	NA	NA	NA	NA	4.6	NA	NA	<0.23	NA	NA	NA	2.5	NA	2.2.	1.4	8.6
	10/28/09	0.64	NA	NA	NA	NA	NA	NA	4.2	NA	NA	<0.23	NA	NA	NA	2	NA	1.4	0.99	5.8
	04/09/10	0.59	NA	NA	NA	NA	NA	NA	3.8	NA	NA	<0.23	NA	NA	NA	1.8	NA	1.1	0.74	5.2
	10/19/10	0.28	0.36	<0.25	7.4	7.4	<0.50	<0.50	2.2	0.27	<0.20	<0.50	<1.0	140	<0.50	<0.50	<0.20	<0.20	0.66	2.7
	04/08/11	0.45	NA	NA	NA	NA	NA	NA	2.9	NA	NA	0.34	NA	NA	NA	0.49	NA	<0.25	0.65	3.3
	10/25/11	<0.25	NA	NA	NA	NA	NA	2.2	NA	NA	NA	0.67	NA	NA	NA	0.27	NA	<0.25	0.5	2.5
	04/25/12	0.455	NA	NA	NA	NA	NA	NA	3.09	NA	NA	<0.23	NA	NA	NA	0.652	NA	2.02	2.02	3.5
MW-14	12/16/05	<2.5	NA	NA	NA	NA	NA	NA	52	NA	NA	<2.3	NA	NA	NA	5.8	NA	61	20	55
	05/22/06	3.2	NA	NA	NA	NA	NA	NA	69	NA	NA	<0.46	NA	NA	NA	7.1	NA	54	18	65

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Sample Location	Sample Date	Benzene	n-Butylbenzene	Sec-Butylbenzene	Chloroform	Chloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methyl tert-Butyl Ether	Methylene Chloride	Naphthalene	N-Propylbenzene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
ES		5	None		6	3	60	70	700	None	None		5	40	None	1,000	5	480*	480*	10,000
PAL		0.5	None		0.6	0.3	6	7	140	None	None		0.5	8	None	200	0.5	96*	96*	1,000
MW-14R	07/31/07	2.9	NA	NA	NA	NA	NA	NA	96	NA	NA	<2.3	NA	NA	NA	21	NA	46	16	68
	11/01/07	0.25	NA	NA	NA	NA	NA	NA	1.9	NA	NA	<23	NA	NA	NA	0.24	NA	2.3	0.95	1.4
	04/02/08	0.75	NA	NA	NA	NA	NA	NA	10	NA	NA	<0.23	NA	NA	NA	1.6	NA	11	4.1	8.5
	07/29/08	<0.25	NA	NA	NA	NA	NA	NA	1.4	NA	NA	<0.23	NA	NA	NA	<0.25	NA	1.5	0.58	0.83
	10/21/08	<0.25	NA	NA	NA	NA	NA	NA	0.87	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.94	0.4	0.6
	05/08/09	<0.25	NA	NA	NA	NA	NA	NA	1.6	NA	NA	<0.23	NA	NA	NA	<0.25	NA	1.9	0.83	1.3
	10/28/09	<0.25	NA	NA	NA	NA	NA	NA	0.54	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.65	0.33	0.43
	04/09/10	<0.25	NA	NA	NA	NA	NA	NA	3.4	NA	NA	<0.23	NA	NA	NA	0.5	NA	3.4	1.2	2.7
	10/19/10	<0.20	0.25	<0.25	<0.20	0.32	<0.50	<0.50	0.76	<0.20	<0.20	<0.50	<1.0	24	<0.50	<0.50	<0.20	0.73	0.29	0.56
	04/08/11	<0.25	NA	NA	NA	NA	NA	NA	1	NA	NA	0.51	NA	NA	NA	<0.25	NA	1.1	0.53	1.1
	10/25/11	<0.25	NA	NA	NA	NA	NA	NA	0.45	NA	NA	<0.23	NA	NA	NA	<0.25	NA	0.5	0.19	<0.39
	04/25/12	<0.25	NA	NA	NA	NA	NA	NA	1.45	NA	NA	<0.23	NA	NA	NA	<0.25	NA	2.57	2.82	0.706
SEEP #1	11/21/05	1.2	NA	NA	NA	NA	NA	NA	3.1	NA	NA	<0.23	NA	NA	NA	0.46	NA	0.38	0.39	2.4
SEEP #2	11/29/01	0.65	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	58	NA	0.6	NA	0.97	NA	0.81
	12/19/01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	NA	NA	NA	NA	NA	NA
	11/21/05	<0.25	NA	NA	NA	NA	NA	NA	1.1	NA	NA	<0.23	NA	NA	NA	0.61	NA	1.4	0.36	1.4

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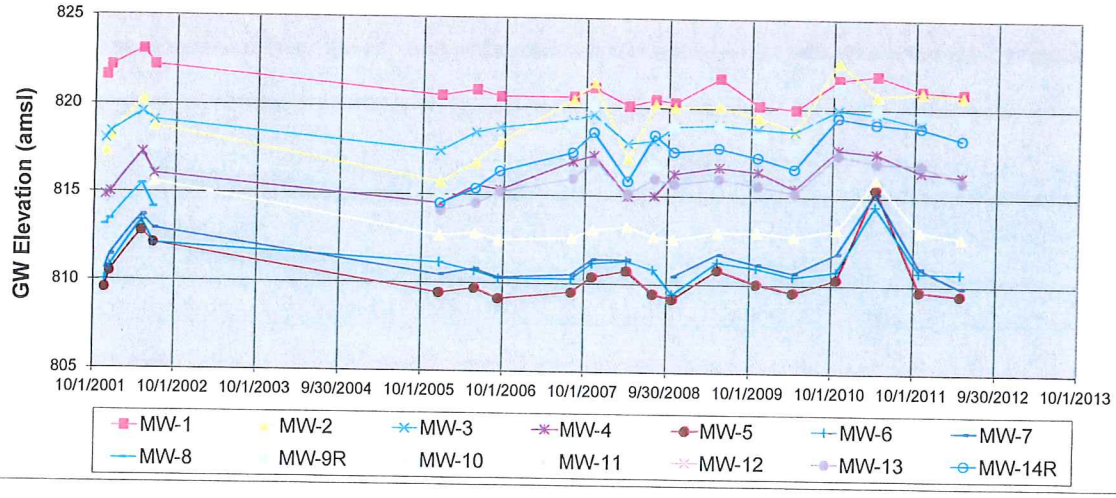
TABLE 1
GROUNDWATER ELEVATIONS
XCEL ENERGY CHIPPEWA FALLS MGP

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8*	MW-9*	MW-9R	MW-10	MW-11	MW-12**	MW-13	MW-14*	MW-14R
TOC, MSL	852.12	852.36	841.86	838.72	821.72	818.68	818.50	820.84	833.16	835.09	836.30		833.14	830.47	833.38	836.53
WELL DEPTH, FT	36.00	47.00	23.00	26.00	18.00	11.00	10.00	11.00	21.00	25.00	24.00		35.00	23.00	26.00	25.00
SCREEN LENGTH	10.00	10.00	10.00	10.00	10.00	5.00	5.00	5.00	10.00	15.00	10.00		15.00	15.00	15.00	15.00
TOS, MSL	826.12	815.36	828.86	822.72	813.72	812.68	813.50	814.84	822.16	830.90	822.30		813.14	822.47	822.38	832.34

MW-?* = monitor well has been abandoned MW-?** = new TOC elevation

DEPTH TO WATER	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-9R	MW-10	MW-11	MW-12	MW-13	MW-14	MW-14R
11/20/2001	30.50	35.02	23.84	23.89	12.14	8.65	7.84	7.70								
12/12/2001	29.93	34.18	23.44	23.71	11.20	7.89	7.06	7.38								
5/2/2002	29.02	32.09	22.30	21.45	8.90	5.29	4.80	5.38								
6/25/2002	29.90	33.59	22.78	22.68	9.58	6.57	5.56	6.70	15.57		20.71					
12/16/2005	31.50	36.67	24.40	24.22	12.28	7.53	8.03		18.40		23.63		26.73	16.39	18.88	
5/22/2006	31.17	35.55	23.34	23.18	12.01	8.00	7.70		17.56		23.48		26.78	15.97	18.03	
9/7/2006	31.54	34.40	23.05	23.43	12.59	8.42	8.17		16.56		23.85		27.25	15.30	17.05	
7/31/2007	31.52	31.91	22.59	21.80	12.20	8.42	7.98			16.08	23.73	8.70	24.05	14.52		19.10
11/1/2007	31.03	30.98	22.27	21.45	11.32	7.51	7.11			14.97	23.25	7.65	23.18	13.56		17.94
4/2/2008	32.03	35.26	23.90	23.75	10.96	7.37	7.10			18.85	23.06		22.30	15.33		20.71
7/29/2008	31.65	32.17	23.73	23.71	12.27	7.85				18.38	23.62		24.31	14.51		18.08
10/21/2008	31.82	32.33	22.93	22.46	12.55	9.25	8.03			16.22	23.74		24.31	14.78		19.02
5/8/2009	30.44	32.28	22.82	22.08	10.88	7.40	6.78			16.13	23.36	7.29	22.66	14.49		18.79
10/28/2009	31.97	32.90	23.03	22.33	11.67	7.73	7.33			16.69	23.33	7.75	23.37	14.87		19.32
4/9/2010	32.17	33.61	23.17	23.27	12.13	8.21	7.82			17.43	23.57	8.05	23.90	15.28		19.95
10/19/2010	30.49	29.75	21.93	21.04	11.38	7.89	6.70			13.90	23.15	8.30	23.31	13.12		17.04
4/8/2011	30.25	31.64	22.17	21.25	6.23	4.20	3.29			15.22	20.32	5.32	17.78	13.55		17.38
10/25/2011	31.10	31.43	22.77	22.29	12.03	7.93	7.50			15.43	23.25	10.50	23.77	13.65		17.58
4/25/2012	31.25	31.62	22.94	22.53	12.24	7.99	8.59			15.64	23.60		23.91	14.60		18.25

GW ELEVATION	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-9R	MW-10	MW-11	MW-12	MW-13	MW-14	MW-14R
11/20/2001	821.62	817.34	818.02	814.83	809.58	810.03	810.66	813.14								
12/12/2001	822.19	818.18	818.42	815.01	810.52	810.79	811.44	813.46								
5/2/2002	823.10	820.27	819.56	817.27	812.82	813.39	813.70	815.46								
6/25/2002	822.22	818.77	819.08	816.04	812.14	812.11	812.94	814.14	817.59	817.59	815.59					
12/16/2005	820.62	815.69	817.46	814.50	809.44	811.15	810.47		814.76	814.76	812.67		806.41	814.08	814.50	814.50
5/22/2006	820.95	816.81	818.52	815.54	809.71	810.68	810.80		815.60	815.60	812.82		806.36	814.50	815.35	815.35
9/7/2006	820.58	817.96	818.81	815.29	809.13	810.26	810.33		816.60	816.60	812.45		805.89	815.17	816.33	816.33
7/31/2007	820.60	820.45	819.27	816.92	809.52	810.26	810.52			819.01	812.57	-8.70	809.09	815.95		817.43
11/1/2007	821.09	821.38	819.59	817.27	810.40	811.17	811.39			820.12	813.05	-7.65	809.96	816.91		818.59
4/2/2008	820.09	817.10	817.96	814.97	810.76	811.31	811.40			816.24	813.24		810.84	815.14		815.82
7/29/2008	820.47	820.19	818.13	815.01	809.45	810.83				816.71	812.68		808.83	815.96		818.45
10/21/2008	820.30	820.03	818.93	816.26	809.17	809.43	810.47			818.87	812.56		808.83	815.69		817.51
5/8/2009	821.68	820.08	819.04	816.64	810.84	811.28	811.72			818.96	812.94	-7.29	810.48	815.98		817.74
10/28/2009	820.15	819.46	818.83	816.39	810.05	810.95	811.17			818.40	812.97	-7.75	809.77	815.60		817.21
4/9/2010	819.95	818.75	818.69	815.45	809.59	810.47	810.68			817.66	812.73	-8.05	809.24	815.19		816.58
10/19/2010	821.63	822.61	819.93	817.68	810.34	810.79	811.80			821.19	813.15	-8.30	809.83	817.35		819.49
4/8/2011	821.87	820.72	819.69	817.47	815.49	814.48	815.21			819.87	815.98	-5.32	815.36	816.92		819.15
10/25/2011	821.02	820.93	819.09	816.43	809.69	810.75	811.00			819.66	813.05	-10.50	809.37	816.82		818.95
4/25/2012	820.87	820.74	818.92	816.19	809.48	810.69	809.91			819.45	812.70	0.00	809.23	815.87		818.28

XCEL ENERGY CHIPPEWA FALLS

GROUNDWATER ELEVATION HYDROGRAPH