



Stantec

Stantec Consulting Services Inc.

706 Midway Road

Menasha, WI 54952

Tel: (920) 558-4393

May 5, 2011

Lynn McIntosh, CHMM
Sheboygan River Basin Partnership
1212 Stonebridge Drive
Howards Grove, WI 53083

RE: *Sheboygan River AOC Project - Summary Report*
Sheboygan County, Wisconsin

Dear Lynn:

Stantec Consulting Services, Inc. (Stantec), formerly Natural Resources Consulting, Inc. (NRC), is pleased to present this report summarizing the results of tasks presented in our November 8, 2010 proposal to provide technical assistance to advance the Sheboygan River Area of Concern (AOC) to delisting. We appreciate the opportunity to continue working with the Sheboygan River Basin Partnership (SRBP) on this important local project.

This project is funded through a Wisconsin Department of Natural Resources (WDNR) grant provided to the Sheboygan River Basin Partnership (SRBP). SRBP contracted Stantec to fulfill the tasks outlined in the grant. Stantec subcontracted Miller Engineers and Scientists (Miller) to provide engineering support for this project.

This report has been finalized based on recent input from WDNR. We have also transmitted 2 copies of this report and electronic copies of the GIS data on a CD to WDNR for their use in future planning efforts.

OBJECTIVES

The objectives of this project are to assist WDNR in implementing 2011 Great Lakes Restoration Initiative (GLRI) funded Baseline Assessments and identify fish and wildlife habitat restoration projects in cooperation with the AOC Fish and Wildlife Technical Advisory Committee (F&W TAC). Development and implementation of fish and wildlife habitat restoration projects are required to delist two of the nine AOC beneficial use impairments (BUIs), including the Loss of Fish and Wildlife Habitat BUI and Degradation to Fish and Wildlife Populations BUI.

STUDY AREA

The Study Area is described as the Sheboygan River AOC which includes an approximate 14 mile corridor of stream and riparian habitats within the lower Sheboygan River watershed from Sheboygan Falls to the Sheboygan Harbor.

SUMMARY

The results of this project document the systematic and collaborative approach used to locate parcels to



conduct baseline assessments and identify habitat restoration projects. It also provided an opportunity to engage and educate the public of upcoming AOC activities and solicited public involvement. This project was completed within an expedited schedule to maintain eligibility for future near-term and long-term grant funding.

The results of this project identified approximately 1,670 acres of land within the AOC that is available for conducting baseline assessments. This project also identified seven principal Tier 1 projects that will lead to delisting the Fish and Wildlife BUIs. Completing the baseline assessments and implementing the seven Tier 1 projects identified in this report are part of the overall Sheboygan River AOC Delisting Strategy.

The following three project tasks and deliverables were completed for this project.

Task 1 - GIS Mapping of Riparian Property Owners

1. Attachment A presents a CD containing GIS data and shapefiles for the Study Area referenced to WTM83/91 projection (Sheboygan County Planning and Resources Department data).
2. Attachment B presents maps for the Study Area, including:
 - a. Location Map
 - b. Overview Map
 - c. Floodplain Map (Field Tour Map) (includes Potential Restorable Wetlands)
 - d. Photograph Overview Map
 - e. Public Parcel Map
 - f. Riparian Owner Map (>10 Acre Parcels)
 - g. Schuchardt Property Maps
 - h. Wildwood Island Historic Aerial Photograph Maps
 - i. Migratory Landbird Stopover Model Map
 - j. Baseline Survey Parcel Map
 - k. Kiwanis Park Project Map
 - l. Wildwood Island Project Map
 - m. Taylor Drive Project Map
 - n. Potential Survey Parcel Maps (WDNR-BER Baseline Survey Maps)
3. Attachment C presents a Sheboygan River AOC riparian landowner database and mailing list.

Task 2 - Riparian Property Owner Mailing

1. Attachment D presents an AOC brochure entitled "*Restore the Sheboygan River*" which summarizes the AOC history and future field activities and events. The brochure was developed by Stantec and reviewed by UW-Extension (UWEX) and WDNR staff.
2. Attachment D presents a postcard entitled "*Tell Me More about the Sheboygan River*" which provides an opportunity for landowners to become engaged in the AOC delisting process, including: 1) Water quality monitoring, 2) Access for baseline surveys, 3) Access for shoreline stabilization projects, 4) Access for habitat restoration projects, 5) Becoming a SRBP member, and 6) Becoming a volunteer member of the AOC Citizens Advisory Committee. The brochure was developed by Stantec and reviewed by UWEX and WDNR staff.
3. Copies of the brochure and self addressed postcards with postage were mailed to 148 landowners within the AOC on December 8, 2010. Attachment D present copies of the six landowners that completed and returned the postcards to SRBP. Attachment D also presents an email and telephone correspondence received from two additional landowner respondents.
4. Attachment D presents a summary of the landowners that were interviewed based on postcard and email responses. Additionally, other landowners with large contiguous parcels (greater than 10 acres) and public property owners within the AOC were also interviewed. The results of landowner



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interviews identified property that is available for baseline assessment surveys or habitat restoration projects (see Table 1 in Attachment D and Baseline Survey Parcel Map in Attachment A).

Task 3 - Habitat Restoration/Water Quality Improvement Inventory and Report

1. Participation in a field tour with agency staff to identify and map potential aquatic and near shore habitat and water quality improvement projects within the AOC. Photographs of the AOC were taken during the field tour and provided to UWEX and used to create the brochure and the Photograph Overview Map in Attachment A).
2. Attachment E presents Table 1 which includes a brainstorming list of potential restoration projects collated following the field tour. This list was prepared following a brainstorming session to identify potential projects to be considered by F&W TAC.
3. Participation in three F&W TAC meetings to discuss and prioritize restoration projects that will lead to delisting of Fish and Wildlife BUIs. Attachment E presents Table 2 which summarizes the results of F&W TAC project review meetings and identifies seven Tier 1 restoration projects.
4. Attachment E presents project summaries prepared by members of the F&W TAC for seven Tier 1 restoration projects. These projects were submitted to USEPA in November 2010.
5. Participation in two F&W TAC meetings to discuss conceptual restoration plans and cost estimates for the Kiwanis Park, Wildwood Island, and Taylor Drive projects. Participated in one field review meeting with the City and WDNR staff to review conceptual restoration plans for the Kiwanis Park, Wildwood Island, and Taylor Drive projects and obtain City approval of concepts.
6. Attachment F presents conceptual restoration plans and cost estimates for the Kiwanis Park and Wildwood Island projects.
7. Preparation and submittal of an electronic draft of this report to WDNR for review and comment. Prepare and submit six hard copies and one electronic copy of the final version of this report to SRBP for transmittal to WDNR.

We appreciate the opportunity to work with the SRBP and members of the AOC F&W TAC on this important project. If you have any questions, or require any additional information, please call me at (920) 558-4393 or (920) 980-2800 (cell). We look forward to continue supporting SRBP on future phases of this project.

Sincerely,

Stantec Consulting Services, Inc.

Jon H. Guntow, PWS, PSS
Senior Scientist

Cc: Victor Pappas, WDNR (2 copies)



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Sheboygan County, Wisconsin*

ATTACHMENT A



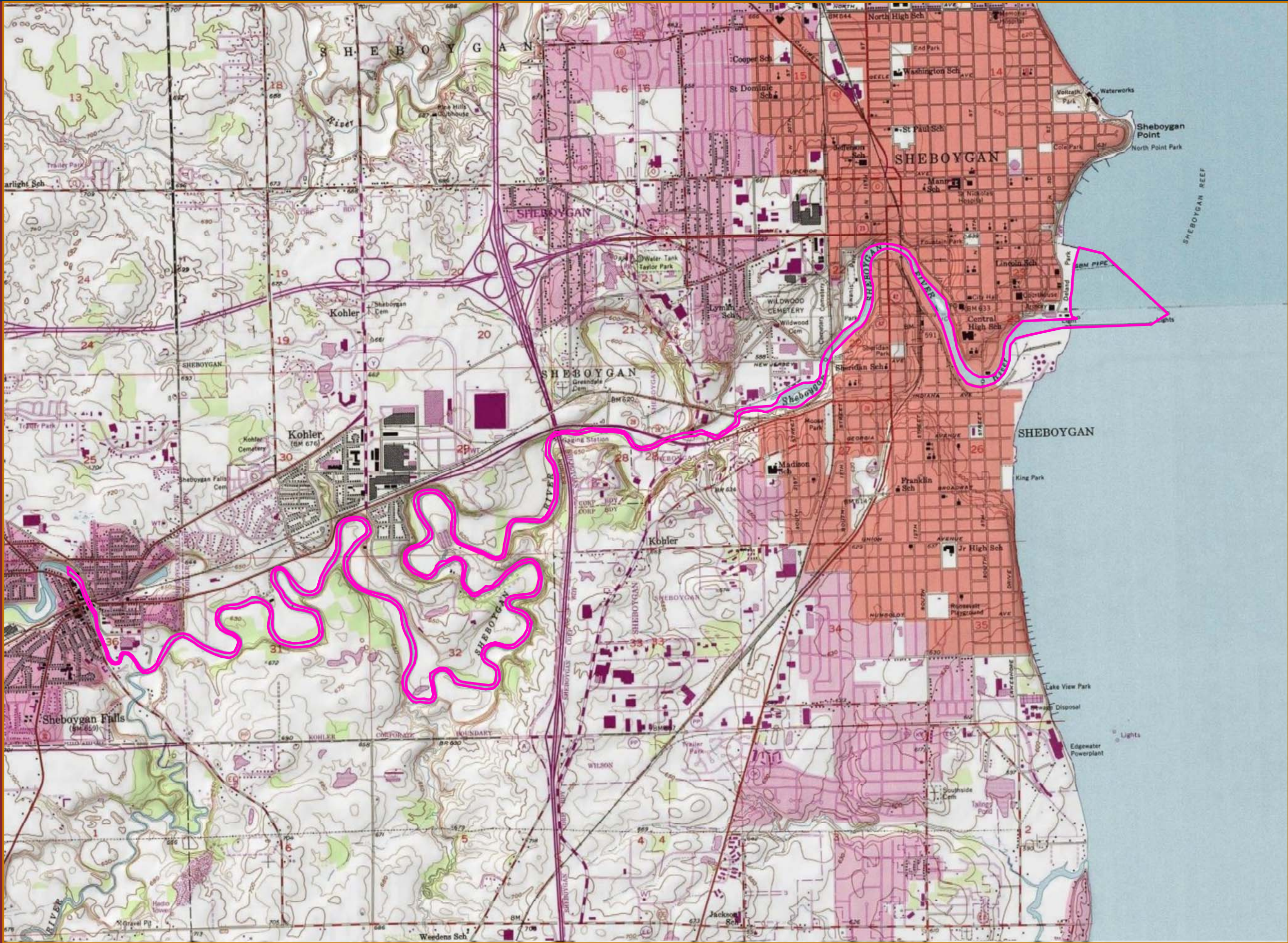
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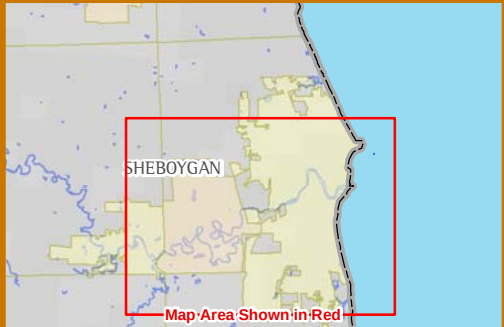


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Sheboygan River AOC Project
Sheboygan County, Wisconsin*

ATTACHMENT B



Sheboygan River AOC Project Location and Topography



Location
Sheboygan Co., WI



Project Information

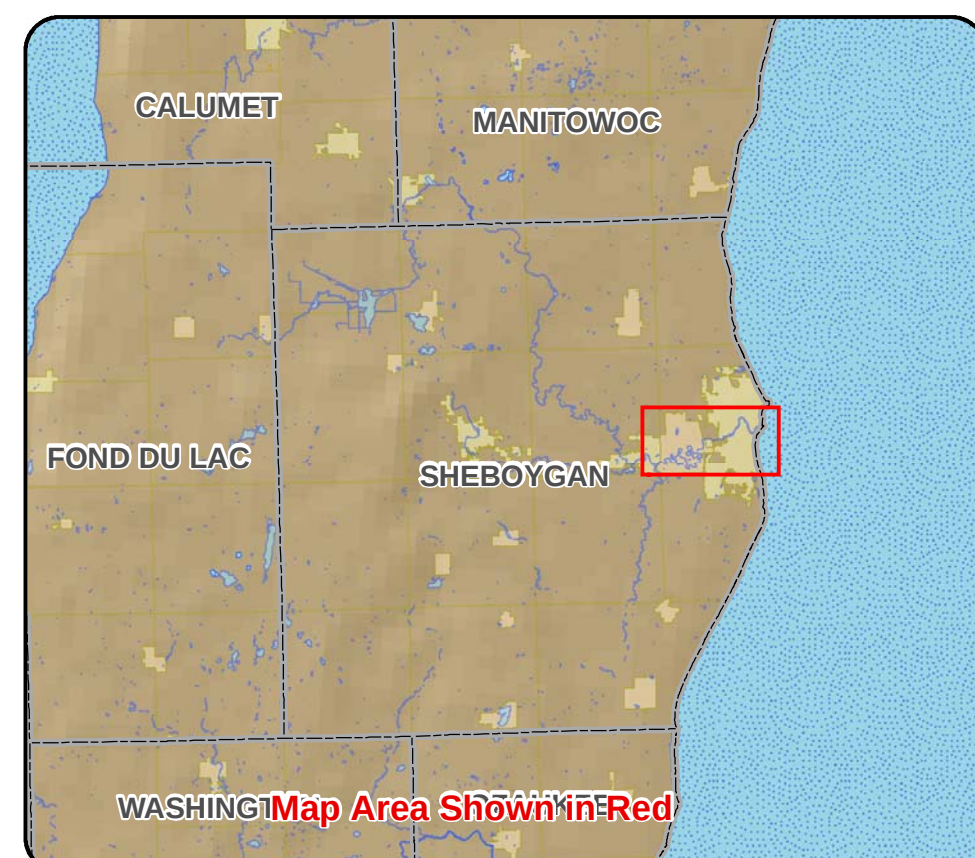
Project Number : 193701112
Modified March 9, 2011

Legend
 AOC WI Sheboygan



Stantec Consulting
209 Commerce Parkway
Madison, WI 53527
tel 608.839.1998
www.stantec.com

The information on this map has been compiled by Stantec staff from a variety of sources and is subject to change without notice. Stantec makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information.



Location

Sheboygan County, WI

Project Information

Project Number : 0010-0099-01
Modified October 13, 2010

0 0.5 1 Miles

Legend

- Sheboygan AOC Extent
- Municipal Boundaries
- DNR 24k Hydrography
- ~ Perennial Stream
- Intermittent Stream
- Waterbody



209 Commerce Parkway
P.O. Box 128
Cottage Grove, WI 53527-0128
phone: 608-839-1998
fax: 608-839-1995
www.nrcdifference.com
www.stantec.com

Notes:

Sheboygan River AOC
Floodplain



Location
Sheboygan County, WI

Project Information
Project Number: 0010-0099-01
Modified: September 22, 2010

0 625 1,250 Feet

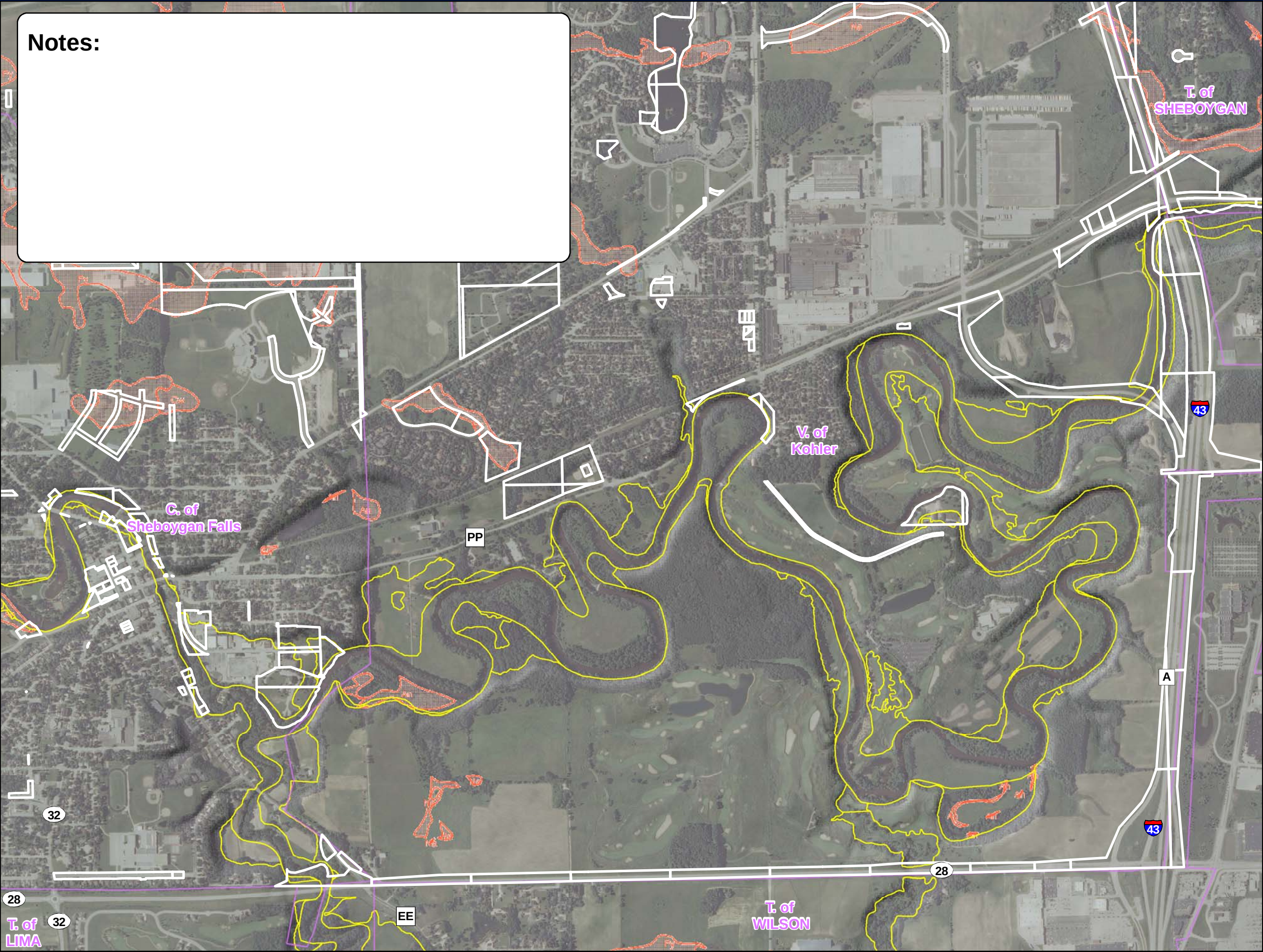
Legend

- Public Parcels
- Municipal Boundaries
- 2008 100 Yr Floodplain
- Potentially Restorable Wetlands

NRC
Natural Resources Consulting, Inc.

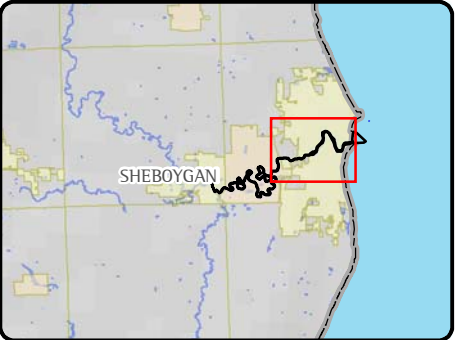
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209 Commerce Parkway
P.O. Box 128
Cottage Grove, WI 53527-128
phone: 608-839-1998
fax: 608-839-1995
www.Stantec.com



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Location
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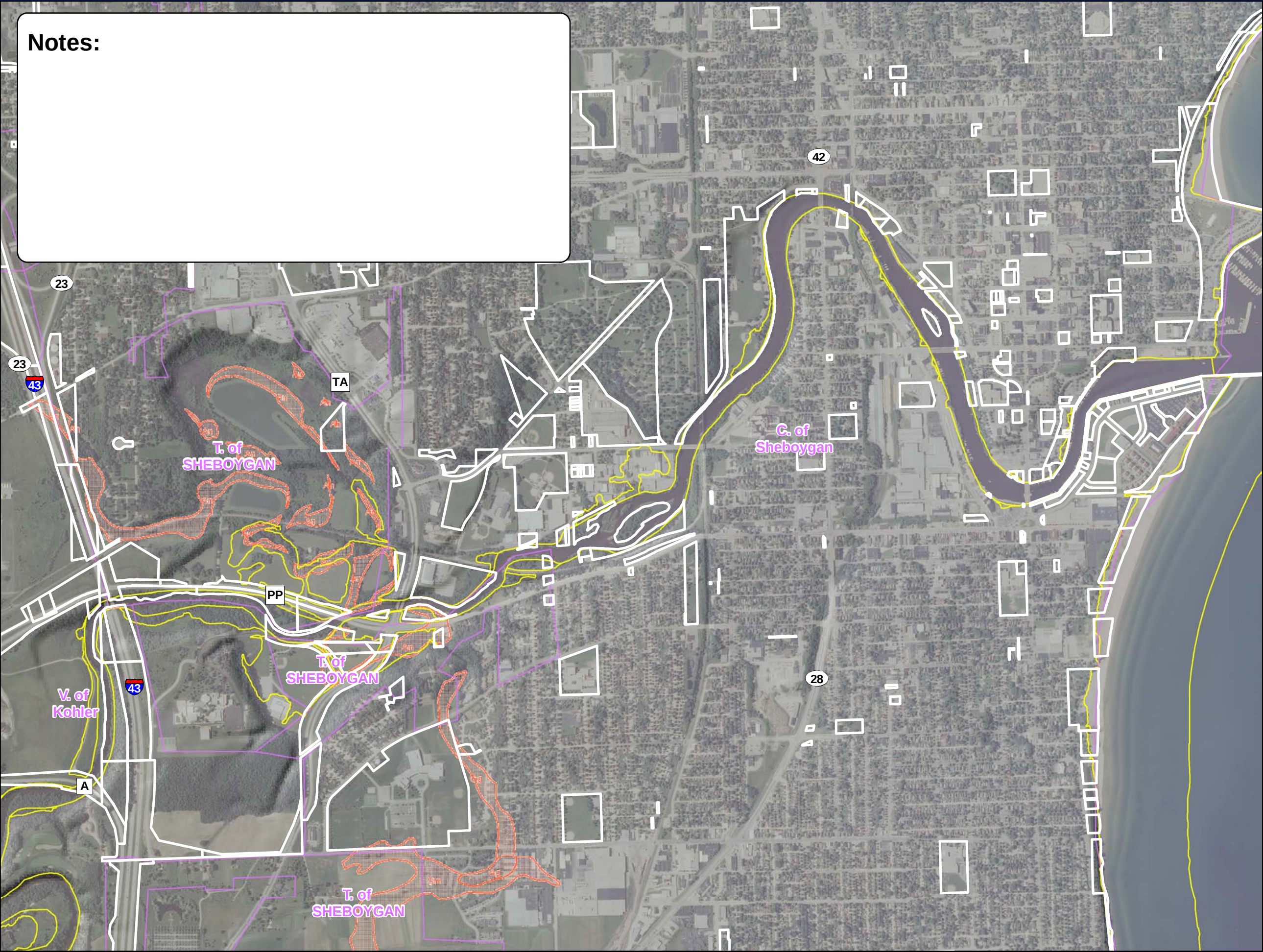
0 625 1,250 Feet

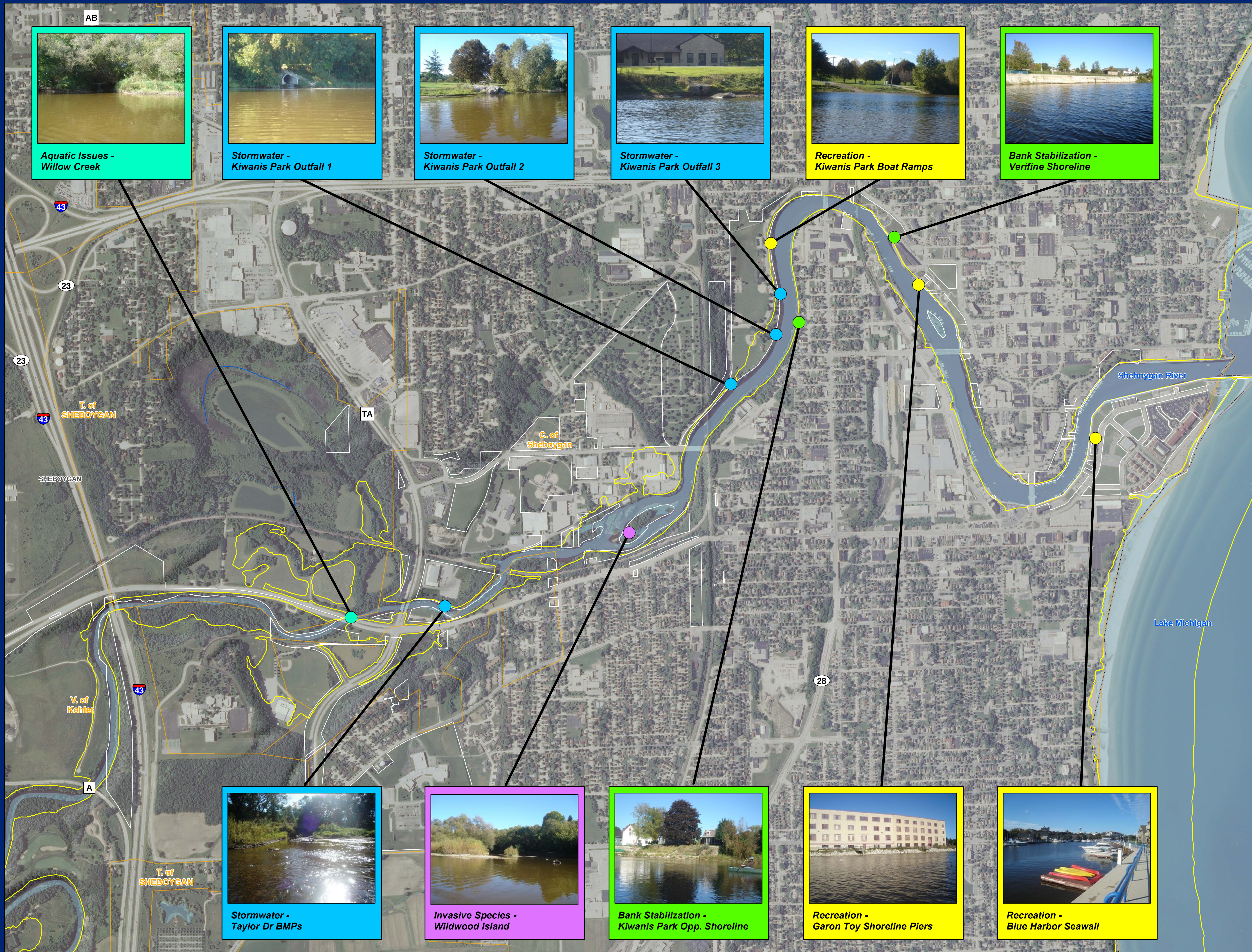
Legend

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- Potentially Restorable Wetlands

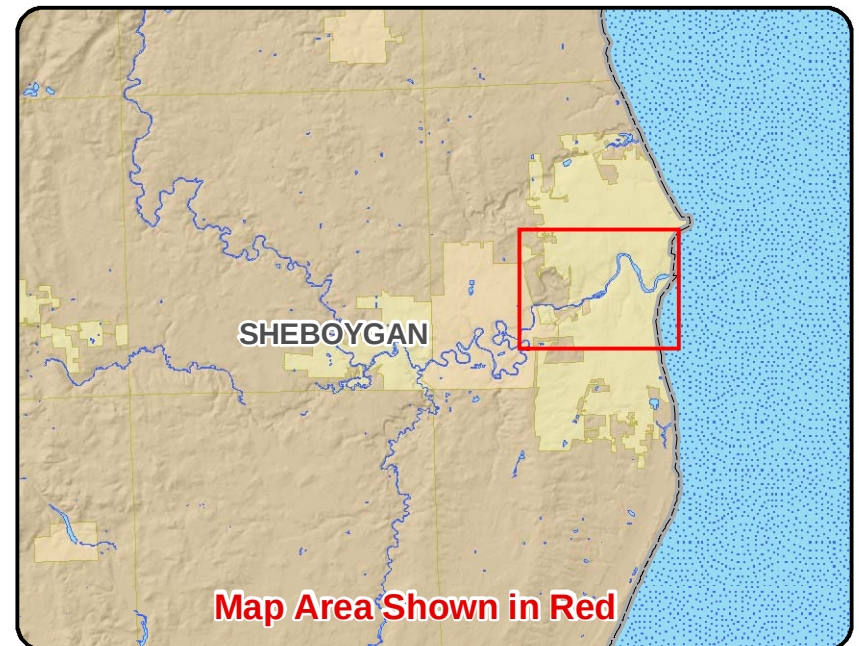
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209 Commerce Parkway
P.O. Box 128
Cottage Grove, WI 53527-128
phone: 608-839-1998
fax: 608-839-1995
www.Stantec.com





Sheboygan River Area of Concern Potential Projects



Location
Sheboygan Co., WI

Project Information
Modified October 13, 2010

0 300 600 1,200 Feet

Legend

- 2008 Floodplain
- Public Parcels ~1000ft of FLP
- Municipal Boundaries

Potential Projects (Type)

- Aquatic Issues
- Recreation
- Bank Stabilization
- Floodplain Forest
- Invasive Species
- Stormwater
- Other

▲

Data sources include WDNR, WDOT and 2008 NAIP Orthophotography.

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