APPENDIX B

COUNTY REZONING APPLICATION

Robin Energy Storage

Appendix B – Rezoning Amendment Application Narrative

OVERVIEW

The Robin Energy Storage Project (Project) is a 200-megawatt (MW), 800 megawatt-hour (MWh) Battery Energy Storage System (BESS) located within the Town of Wheatland (Town), Kenosha County (County) Wisconsin. The Project is being developed by Robin Energy Storage, LLC (Robin Energy Storage). The Project will be located on approximately 12 acres within an approximately 19-acre tract of land situated east of 392nd Avenue and north of Highway 50 (the Project Site). The Project Site is part of a larger existing parcel of land known as Parcel Number 95-4-219-323-0205 (the Parcel) containing approximately 59 total acres. As part of this application package, Robin Energy Storage seeks to subdivide the Parcel into three separate lots (including the Project Site) as documented in the Certified Survey Map (CSM) attached to this Application as Appendix C. Robin Energy Storage respectfully requests the County amend the Project Site's zoning classification from A-1, Agricultural Preservation, to I-1, Institutional.[1] The Project Site will host the Project, sits between the northern and southern portions of the subdivided Parcel, and is referred to as Lot 2 in the CSM. Robin Energy Storage respectfully requests the County to amend the zoning designation for the other subdivided lots from A-1 to A-2, General Agricultural District. Because the newly subdivided lots will be less than 50 acres, County staff advised they no longer qualify for A-1 designation and therefore must be changed to A-2.

Rezoning Standard

As state law and principles of land use and local planning explain, zoning is "by no means static"[2] — instead, zoning provides for orderly and reasonable land use planning in tandem with individual property owners' rights to use their property. The County's General Zoning and Shoreland/Floodplain Ordinance (Zoning Ordinance) makes this clear with its statement of purpose: "It is the intent of this section to recognize that changed or changing conditions call for changed plans…".[3] This is consistent with state law, which grants the County zoning authority and requires that authority be exercised subject to certain conditions, including public notice and hearing.[4] To begin a rezoning application, subsection 12.58.030 of the Zoning Ordinance requires (1) a petition, (2) by the landowner or his agent, and (3) a pre-application meeting with Planning and Development staff.

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[1] Robin Energy Storage has submitted a request to amend the County and Town Comprehensive Plan to be consistent with this use; appended to this Application as Appendix A.
[2] Kenosha County Ordinances, Chapter 12, Section 12.58.010.
[3] *Id.*
[4] *See* Wis. Stat. § 59.69.

This Appendix B is the petition; the request is made by Robin Energy Storage, as agent for the parcel landowner, and follows a pre-application conference hosted on September 12, 2025.

Section 12.58.040 of the Zoning Ordinance requires that the petition contain the following information for County review:

(a) Petitioner's name, address, phone number and interest in property. (Owner, broker, etc.)

Petitioner is Robin Energy Storage, LLC, represented by agent Jan Porvaznik. Mr. Porvaznik can be contacted via email at robin_bess@cip-tt.com or via phone at 415-596-9537. Robin Energy Storage, LLC owns an option to purchase the Project Site and plans to exercise that option to develop the Project.

(b) Existing zoning district

The Parcel is currently zoned A-1; see the map attached as Exhibit A.

(c) Proposed zoning district

As discussed above, the Parcel is proposed to be subdivided into three lots as shown in Appendix C, the CSM. The Project Site (Lot 2) is to be zoned I-1, Institutional, and other lots derived from the Parcel will be zoned A-2, General Agricultural. The maps attached as Exhibit A show the current and proposed zoning designations for the Parcel.

(d) Proposed use (a statement of the type, extent, area, etc. of any development project)

As described further in Appendix D, the CUP application, the Project will store electricity from the grid when demand for electricity is low, and it will discharge electricity as necessary to maintain grid stability, meet the needs of residential and industrial electricity users, and extend the life of aging grid infrastructure. The Project will interconnect to the grid through the existing substation sited directly east of the Parcel. The Project will have associated infrastructure on the Project Site such as fencing, vegetative screening, access roads, water storage tanks, and a retention pond.

(e) Compatibility with County plans (a statement of conditions warranting a change in zoning)

BESS are used by electric utilities to maintain grid reliability, extend transmission equipment life, and flexibly manage changing electricity needs. Much like power lines or substations, BESS are important for providing affordable and reliable electricity. Understanding the importance of BESS, the County amended Chapter 12 of its Zoning Ordinance to include BESS as a conditional use in the I-1, Institutional district. As explained in Appendix A, the Comprehensive Plan Amendment application, the Project fits within the County's future development plans for the area. It is within the County's Phase 2 line and will ensure efficient, reliable, and affordable utility service consistent with County and Town goals. As discussed below as an answer to subsection (f), the Project is compatible with adjacent land uses.

(f) Compatibility with adjacent lands (a statement of land uses and impact of zoning change)

Directly to the east of the Project is its grid interconnection point, an existing substation, on land zoned I-1 Institutional. The Project Site is efficient because only a short, unobtrusive transmission line is required to connect the BESS facility to its neighboring interconnection point. The Project is compatible with the adjacent utility substation, which is similar in character to the Project. The Project will be sited adjacent to other compatible industrial and commercial uses, such as a proposed concrete manufacturing plant that will be located directly west of the Parcel and an RV dealership across 392nd Avenue.

(g) Legal description of property to be rezoned

See the CSM attached as Appendix C to this application package.

(h) Plot plan or survey plat of property to be rezoned (showing location, dimensions, zoning of adjacent properties, existing uses and buildings of adjacent properties--drawn to scale)

See the CSM attached as Appendix C to this application package.

(i) The exact language of any proposed change in the text of this ordinance.

Not applicable.

(j) A map plan, when necessary, which accurately locates or describes the proposal with respect to the floodways and floodplains and which provides all pertinent information such as the fill dimensions and elevations, building floor elevations and floodproofing data.

See Exhibit B, Map of Floodways and Floodplains. See also Exhibit C, a hydrology report for the Project.

(k) All computations which are required to show the effect of the proposal on flood heights, velocities and floodplain storage for all subdivision proposals and all other proposals if the area affected exceeds five acres or the estimated cost of the proposal exceeds $75,000, which information shall be transmitted to the Department of Natural Resources for review.

No waterways exist onsite and accordingly there are no mapped floodways or floodplains onsite, as illustrated in Exhibit B, Map of Floodways and Floodplains.

(l) Additional information as may be requested by the Kenosha County Department of Planning and Development.

Robin Energy Storage has provided all the information it believes was requested by the County Department of Planning and Development; however, if more information is requested, Robin Energy Storage is willing to provide it as reasonably necessary.

(m) The name of the County Supervisor of the district wherein the property is located

County Supervisor Erin Decker.

(n) Any information required by section 12.05.010 of this ordinance.

See Appendix D, the CUP application, providing additional information relating to BESS as required by ordinance.

(o) The fee specified in section 12.05.080 of this ordinance.

Fees are provided with this application package.

Agricultural Preservation Narrative

To rezone a parcel out of A-1 Agricultural Preservation, the County must consider whether the land to be rezoned is:

(a) Better suited for a use not allowed in the current zoning,
(b) Consistent with the Comprehensive Plan,
(c) Substantially Consistent with the County Farmland Preservation Plan,
(d) Will not substantially impair current or future agricultural use of surrounding parcels.[5]

This rezone meets these standards. As described above, the Project Site is well suited for a BESS. The Project will be in close vicinity to the existing utility substation, which avoids the need for longer powerlines interconnecting the Project to the grid. The Project is also compatible with neighboring land uses. The adjacent substation and the Project are similar utility infrastructure. The Project will also be adjacent to other industrial and commercial uses, such as a proposed concrete manufacturing facility and an RV dealership. The Project will be compatible with the industrial nature of the immediate area.

The I-1 zoning designation proposed for the Project Site is consistent with the County's Multi-Jurisdictional Comprehensive Plan, as amended pursuant to Appendix A of this application package. Robin Energy Storage requests to amend the zoning designation of these lots from A-1 to A-2 only because the lots will no longer meet the minimum acreage requirements of the A-1 district.

The Project is consistent with the County's farmland preservation plan (FPP). The Parcel is not a designated Farmland Preservation Area in the Town's FPP map (FPP-Map-5-7). Therefore, the

[5] *See* Wis. Stat. § 91.48(1)(a)-(d); Kenosha County Ordinances, Chapter 12, Section 12.31.010(i).

County and Town have not identified the Parcel as an area to be preserved for future agricultural use.[6]

Finally, the Project will not impair surrounding agricultural uses. The agricultural uses neighboring the Project Site and within the Parcel are being rezoned to an agricultural district (i.e., A-2) consistent with their size, and appropriate access will be provided to each lot as discussed with the current agricultural user.

Conclusion

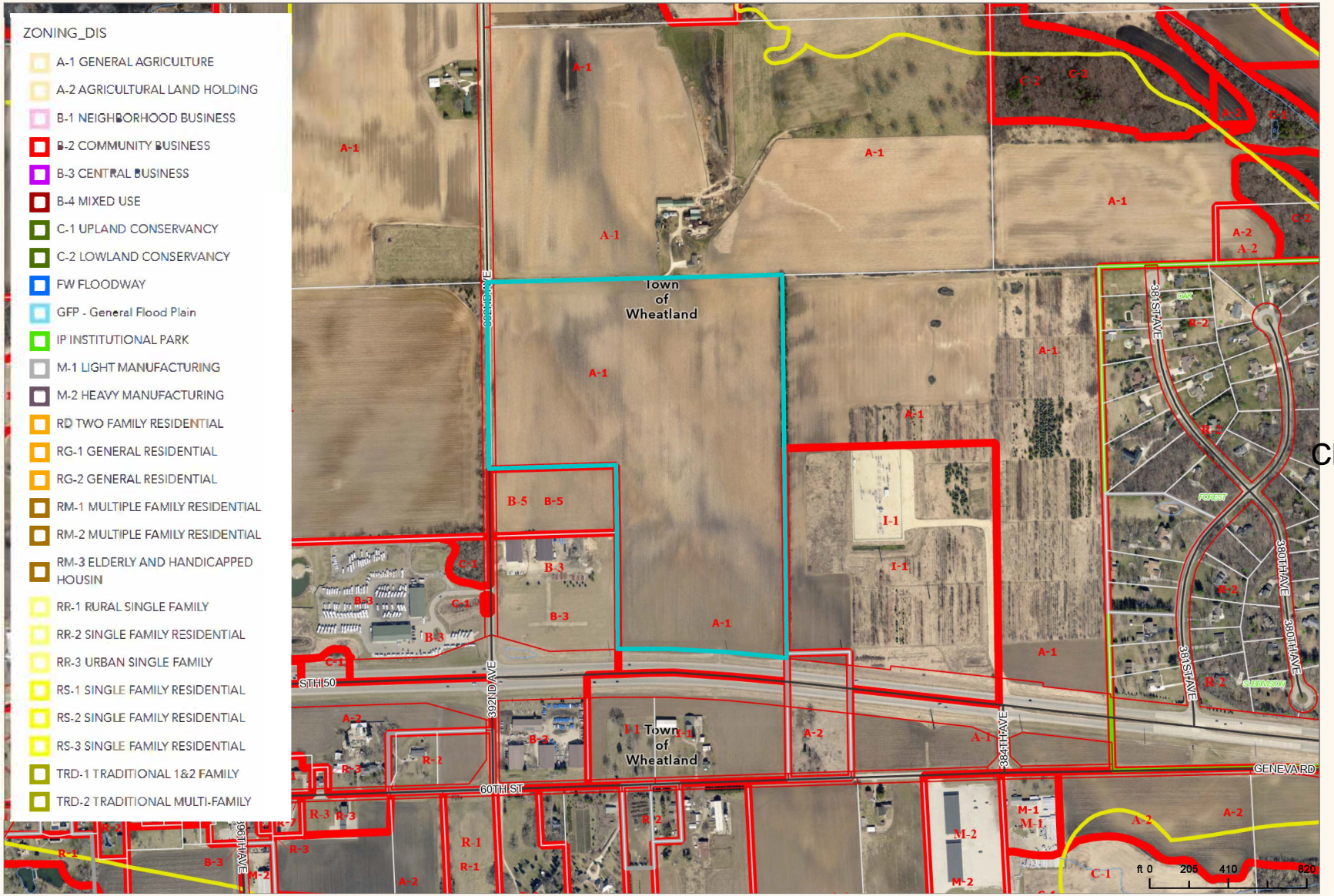
Robin Energy Storage has met all the requirements for a rezone as required by Wisconsin Statute and the Zoning Code. The Project is an efficient, safe, and orderly use of land directly adjacent to a utility substation and will assist in providing reliable electric service to the area. The County should grant the rezone as requested in this application.

[6] *See* Kenosha County Farmland Preservation Plan PDF Pg. 17, https://www.kenoshacountywi.gov/DocumentCenter/View/2542/A_FARMLAND_PRESERVATION_PLAN_FOR_KENOSHA_COUNTY_2ND-EDITION_JULY_2013?bidId=.

APPENDIX B

Exhibit A

Current and Proposed Zoning Maps

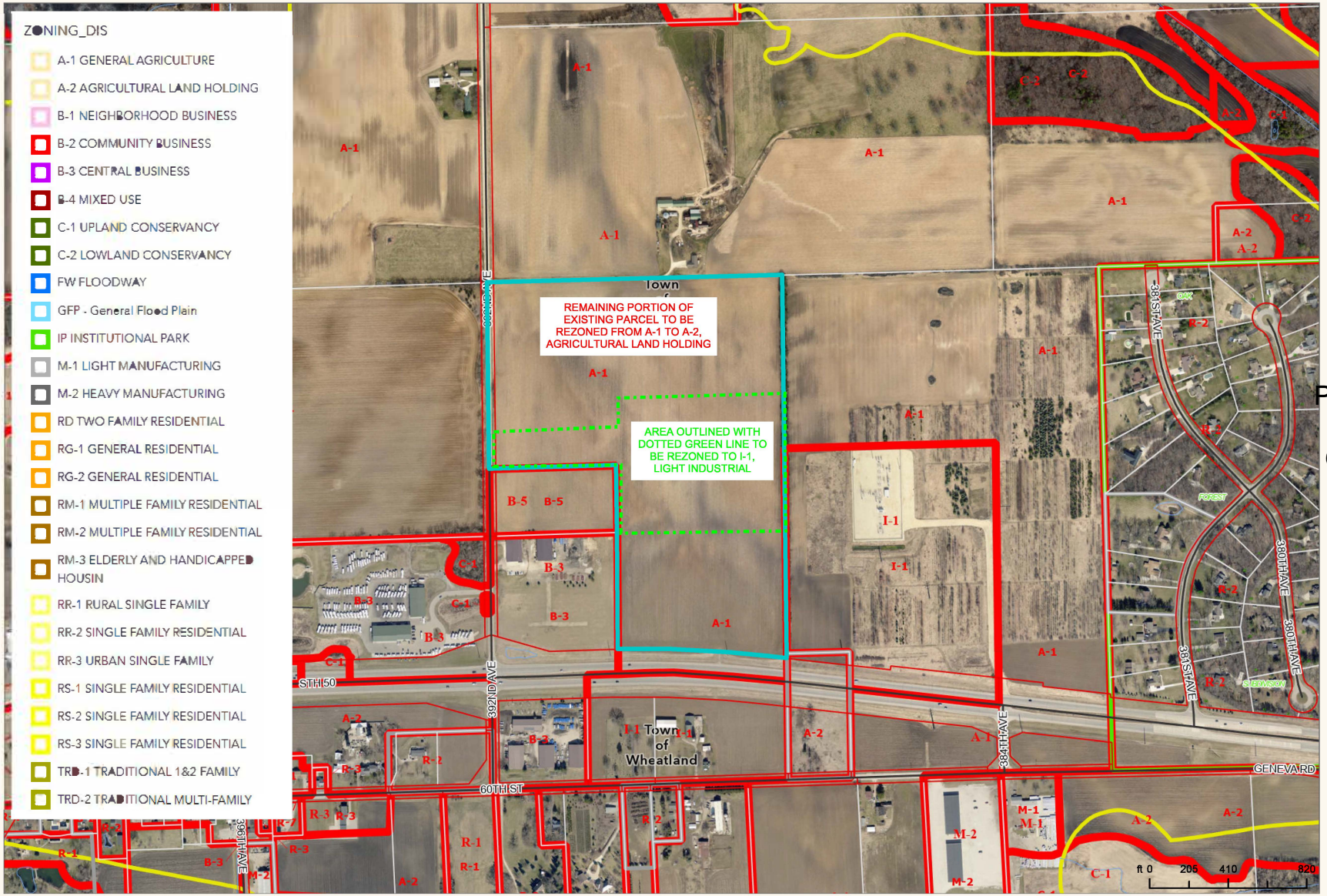


KENOSHA COUNTY
INTERACTIVE MAPPING

CURRENT ZONING MAP CLASSIFICATIONS

1:6,000
1" = 500'

Date Printed: 11/3/2025



KENOSHA COUNTY
INTERACTIVE MAPPING

PROPOSED ZONING MAP CLASSIFICATIONS

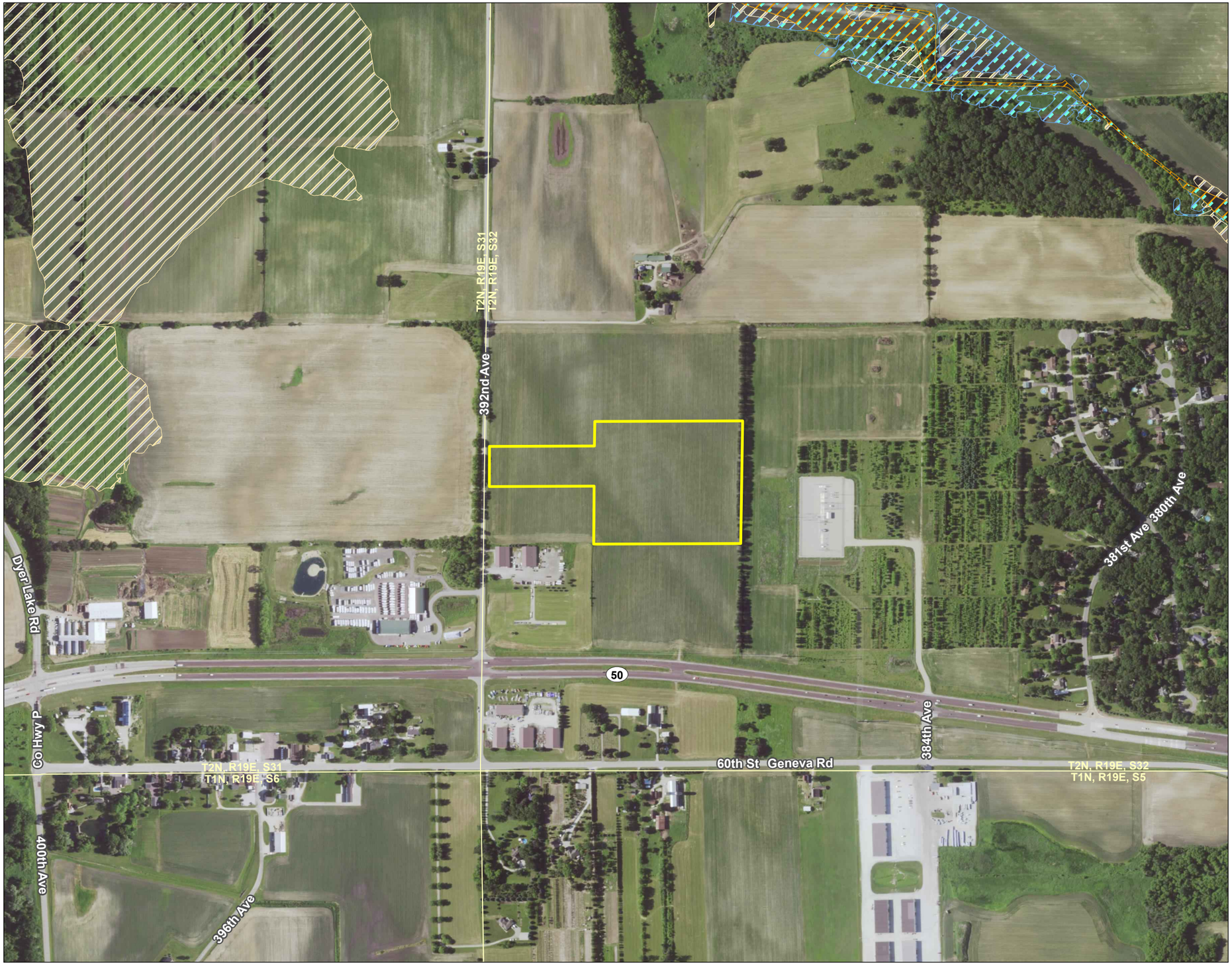
1:6,000
1" = 500'

Date Printed: 11/3/2025

APPENDIX B

Exhibit B

Floodway and Floodplain Map



Exhibit

B

Title

Map of Floodways and Floodplains

Client/Project 193711447

Storage Portfolio, LLC
Robin BESS, Kenosha County

Project Location
T2N, R19E, S32
T. of Wheatland, Kenosha Co., WI

Prepared by MNK on 2025-11-05
TR by AJC on 2025-11-05

N

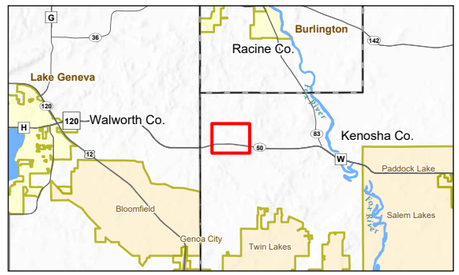
0 300 600 Feet
(At original document size of 11x17)
1:7,200

Legend

- Project Area

Flood Hazard Zones

- Regulatory Floodway
- 100-year Floodplain
- 500-year Floodplain



Notes

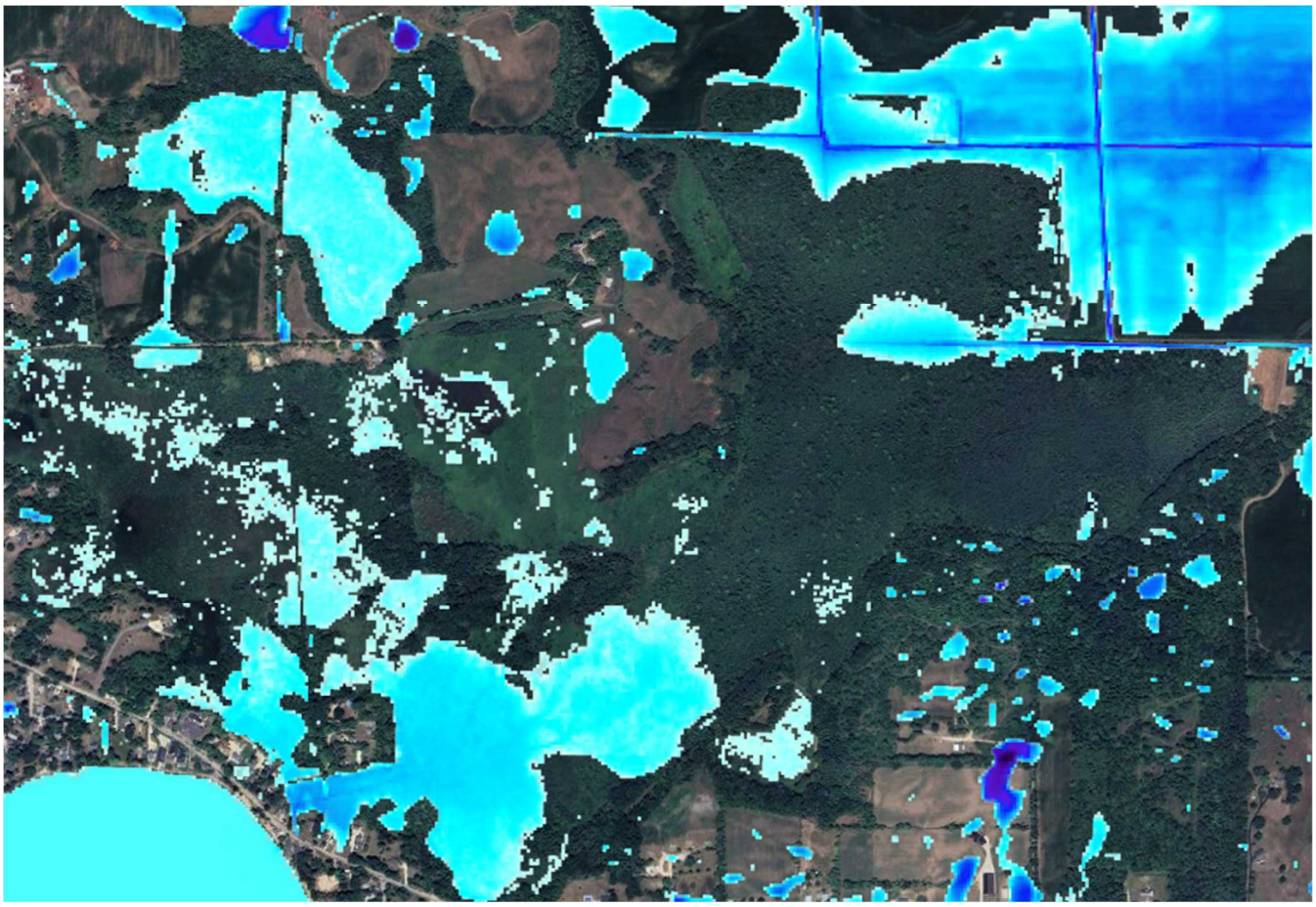
1. Coordinate System: NAD 1983 HARN WISCRS Kenosha County Feet
2. Data Sources: Stantec, Esri, Storage Portfolio LLC, FEMA, USCB, USGS
3. Background: NAIP 2022

Stantec

APPENDIX B

Exhibit C

Hydrology Report



PRELIMINARY HYDROLOGY STUDY

Robin BESS Project

Kenosha County, Wisconsin

OCTOBER 2025

PREPARED FOR:

CIP
COPENHAGEN INFRASTRUCTURE PARTNERS

PREPARED BY:

Westwood

Westwood

Preliminary Hydrology Study

Robin BESS Project

Kenosha County, Wisconsin

Prepared For:

Copenhagen Infrastructure Partners
412 West 15th Street, 15th Floor
New York, New York 10011

Prepared By:

Westwood Professional Services, Inc.
12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343
(952) 937-5150

Project Number: R0052120.01
Date: October 27, 2025

Westwood

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Exhibits

Appendices

Executive Summary

The purpose of this study is to analyze and review the existing hydrology of the Robin BESS Project (Project or Site) and any impacts that the hydrology may play in the design of the proposed battery energy storage system (BESS) site. This report was prepared to be used by the Project Team in the design and layout of the Project and not intended for submittal to reviewing agencies for stormwater permitting.

The Project Site is proposed on approximately 19 acres and is located within Kenosha County, Wisconsin, approximately 5 miles south of Burlington, Wisconsin. The Site is located on relatively flat land that generally drains to multiple low points within and adjacent to the site. The modeled watershed area encompasses approximately 13 square miles and is characterized by many constructed ditches which drain the modeled area in multiple directions.

The analysis shows low to moderate water depths and low velocities (Exhibits 8 through 7A) across the majority of the Site. Low-lying areas on site show localized ponding. Minimal velocities and scour are expected on site due to the flat terrain.

Based on experience with similar projects, the majority of the Site is suitable for the planned development by avoiding or designing to areas of high flood depths.

1.0 Data Sources

Table 1 – Data Sources

Task	Format	Source	Use
Elevation	1m DEM Survey	USGS The National Map Westwood PS	FLO-2D Model Elevations
Crop Data	Shapefile	USDA 2021 Cropland Data Layer	Landcover
Soils	Shapefile	USGS SSURGO Dataset	Curve Numbers
Precipitation	PDF File	NOAA Atlas 14	Design Storms
HUC-12 Drainage Boundary	Shapefile	USGS	Define Model Extents
Site Boundary	CAD Linework Updated October 2025	Copenhagen Infrastructure Partners	Define Model Extents
2014 Aerial Photography	ArcGIS Map Service	USDA FSA	Reference
FEMA Flood Zones	PDF; Shapefile	FEMA	Reference
Culvert Locating and Sizing	Aerial Imagery	Google Earth	Culvert Modeling

2.0 Coordinate System

Table 2 – Coordinate System Used

Projection	State Plane Coordinate System
Zone	Wisconsin South (FIPS 4803)
Datum	NAD83
Planar Units	Feet (U.S. Survey)

3.0 Existing Conditions

3.1 Project Location

The Project Site covers approximately 19 acres and is located within Kenosha County, Wisconsin (Exhibit 1). The Project Site is approximately 35 miles southwest of Milwaukee, Wisconsin, and is located near Burlington, Wisconsin, which is 5 miles north of the Project Area (Exhibit 1).

3.2 Watershed Hydrology

The modeled watershed area encompasses approximately 13 square miles that generally drains east. The watershed is dominated by wetlands and low-lying crop land, which is drained via ditches. The majority of the watershed drains to New Munster Creek, which flows east out of the modeled watershed. The west of the watershed drains north towards Dyer Lake and south towards Powers Lake, also via drainage ditches.

3.3 Onsite Conditions

The Project is located on flat land characterized by multiple low points. The majority of the site drains south toward State Highway 50, with some portions of the site draining north towards a low-lying area north of the project. Low areas are visible on site where drainage will likely pond. The rest of the site drains towards Wisconsin Highway 50 south of the site. In general the Site has slopes of less than 2%.

US Fish and Wildlife Service National Wetlands Inventory (NWI Wetlands) provides information on the distribution of US wetlands and are shown in Exhibit 2. The NWI Wetlands dataset is not all-inclusive and other wetlands not shown may exist. The landcover on the Project area is primarily row crop (Exhibit 4) and soils onsite primarily belonging to Hydrologic Soil Groups (HSG) B and D (Exhibit 3). Typically, B soils are Silty Sands and D soils are Clays. Soils belonging to Hydrologic Soil Group D exhibit very low infiltration rates; therefore, standing water will be slow to infiltrate during and after storm events when compared to soils belonging to Hydrologic Soil Groups A or B.

The main potential hydrologic issue on Site is flooding from localized ponding.

3.4 FEMA Flood Zones

FEMA has completed a study to determine flood hazards for the selected location; the project area is covered by FIRM panels 55059C0110E and 55059C0109E (Appendix C). The Project does not contain any areas of FEMA Flood Zone A or AE (Exhibits 2 and 6). No preliminary or pending FEMA changes are proposed within the project area.

4.0 Proposed Conditions

4.1 Proposed Conditions

The proposed use of the site will be a battery energy storage system (BESS) facility. The Project landcover will primarily be gravel, although the Project will also consist of access roads and other energy storage infrastructure surrounded by a security fence. The Project should be designed to minimize grading and maintain existing drainage patterns. A flood analysis of pre-development and post development depths may need to be completed once civil design is finalized for permitting purposes.

4.2 Post-Construction Stormwater Management

Please refer to the Stormwater Management Plan being prepared for the Project for onsite stormwater management practices.

5.0 FLO-2D Modeling

5.1 FLO-2D Modeling Overview

FLO-2D is a physical process model that routes rainfall runoff and flood hydrographs over flow surfaces or in channels using the dynamic wave approximation to the momentum equation. FLO-2D offers advantages over 1-D models and unit hydrograph methods by allowing for breakout flows and visualization of flows across a potential site. The primary inputs are a DTM (elevation data), curve numbers, and precipitation. Culverts able to be easily identified and directly impacting the Site were included in the model based off of aerial imagery provided by Google Earth (Exhibits 6-8). Culvert sizes and invert elevations may vary from field conditions.

A FLO-2D model with 20-foot grid cells was utilized to model the watershed within and directly impacting the Project Site.

5.2 Elevation Data

The elevation data input into the FLO-2D model was a blend of 1m DEM data from USGS The National Map and survey data collected by Westwood PS, dated 02/07/2024 (Exhibit 5). The 1m DEM data was used for topographic coverage of the offsite area, and survey data was used for topographic coverage of the project area (Exhibit 5). This data was exported as a single digital terrain model (DTM), which is read directly into FLO-2D.

5.3 Watershed Soils and Land Cover

USDA-NRCS SSURGO soil data provides soil types within the Project boundary and full coverage of the contributing watershed. Soils are primarily classified as

Hydrologic Soil Groups (HSG) B and D within the Project boundary (Exhibit 3). Land cover was obtained from the USDA 2021 Cropland Data Layer. Exhibit 4 displays the land cover classes for the entire watershed. Curve numbers were applied to each grid cell in the FLO-2D model based on intersecting the grid with the curve numbers (Exhibit 5).

5.4 Precipitation

Precipitation data was downloaded from NOAA Atlas 14 and used for the FLO-2D analysis for the 100-year, 24-hour storm event. This storm event has a rainfall depth of 6.1 inches. Modeling the 100-year, 24-hour storm event for this location allows for the best initial analysis in order to determine the worst areas of flooding and erosion. Kenosha County requests that the MSE-3 rainfall distribution be used in the peak-runoff analyses, in order to align with the Stormwater Management Plan being prepared for the Project the MSE-3 rainfall distribution was used in this study. The MSE-3 distribution was also found to be a more conservative model; when compared to the results generated from the Atlas-14 provided rainfall distribution, the MSE-3 distribution resulted in slightly larger flood depths onsite.

6.0 Flood Analysis Results

6.1 Existing Conditions Flood Analysis

The analysis shows low to moderate water depths and low velocities (Exhibits 6 through 7A) across the majority of the Site. During a 100-year storm, the flood depths across the majority of the Project Area are less than 0.5 feet with velocities less than 1 foot/second, with the exception of the low lying areas onsite. The deepest flood depth onsite is approximately 1.5 feet, located in the depression area in the north end of the site. See Table 3 below for a breakdown of flood depths within the Project Site.

FEMA extents and elevations differ from results of this analysis throughout the modeled watershed. This is mainly due to how depression storage is factored into the modeling techniques used in this analysis versus those used by FEMA. The modeling techniques used by FEMA in this area, according to the FIS report for Kenosha County, are 1-dimensional, using HEC-HMS and HEC-RAS-4.1 software, which can only approximate depression storage. The 2-Dimentional modeling used in this analysis can better factor in depression storage since the watershed terrain is a model input.

Table 3 – 100 Year Flood Depths Onsite

Peak Flow Depth (ft)	Percentage of Project Area Covered by Peak Flow Depths
0.00 - 0.49	87.3%
0.50 - 1.00	9.6%
1.01 - 1.50	3.0%
1.51 - 2.00	0.1%
2.01 - 2.50	<0.1%
2.51 - 3.00	<0.1%
3.01 - 4.00	<0.1%
4.01 - 6.00	<0.1%
6.01+	<0.1%

See Exhibits 6 through 7A for areas within the Project with higher flood depths and velocities.

6.2 Scour

Minimal scour is expected onsite (Exhibit 8). The scour depths calculated for this Project are based on HEC-18 Pier Scour Equations of a 6-inch-wide pile perpendicular to flow. Scour calculations consist of local scour only with unarmored soils and pile bases to provide the conservative local scour results. This scour calculation assumes site infrastructure being elevated on piers or piles, and therefore only applies to the scour of these piers. These scour results do not account for general, rill, or gully scour.

7.0 Recommendations

Based on experience on similar projects, the Site is suitable for the planned development and hydrologic concerns can be addressed by either avoiding areas of high flood depths or through detailed engineering design.

8.0 Next Steps

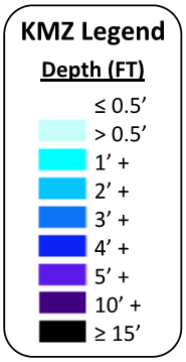
1. Final engineering design should account for the flood depths and velocities presented in Exhibits 6-7A.
2. Facilities to be elevated 1' above the 100-year, 24-hour peak flood elevations.
3. Stormwater management should be revisited to ensure the final design meets the local and state requirements.

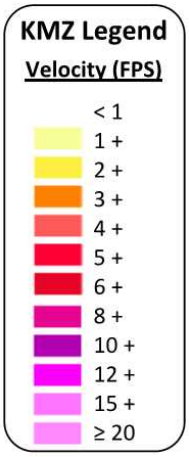
9.0 Included Output Files

1. Shapefile of 100-year, 24-hour Rain Event Flow Depth
   2025-06-09_Robin_PrelimFlowDepthAtCell_100yr24hr.shp
   Attribute "ID" = Grid Cell Number
   Attribute "VAR" = Max Flow Depth (Feet)

2. Shapefile of 100-year, 24-hour Rain Event Velocity
   2025-06-09_Robin_PrelimVelocityAtCell_100yr24hr.shp
   Attribute "ID" = Grid Cell Number
   Attribute "VAR" = Max Velocity (Feet/Second)

3. KMZ of FLO-2D Results
   2025-06-09_Robin_PrelimFLO-2D.kmz
   Overlay in Google Earth for graphical representation.





10.0 References Cited

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Exhibits

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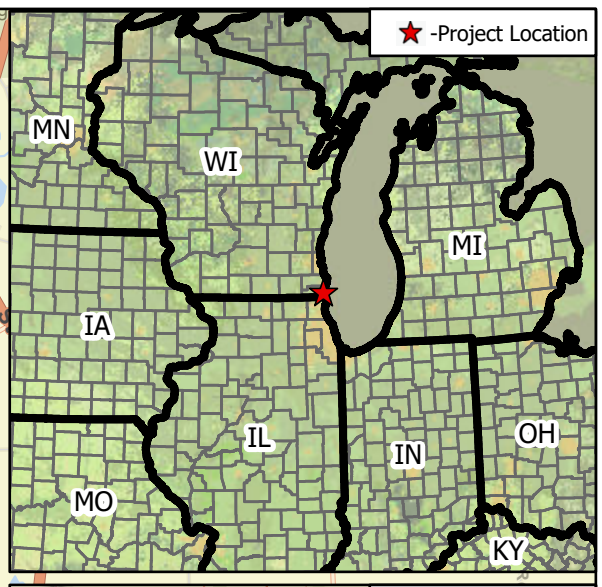
01-Location Map - Location Map | 10/22/2025 10:31 AM | ACarpenter



Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary

N

0 1 Miles

Robin BESS Project

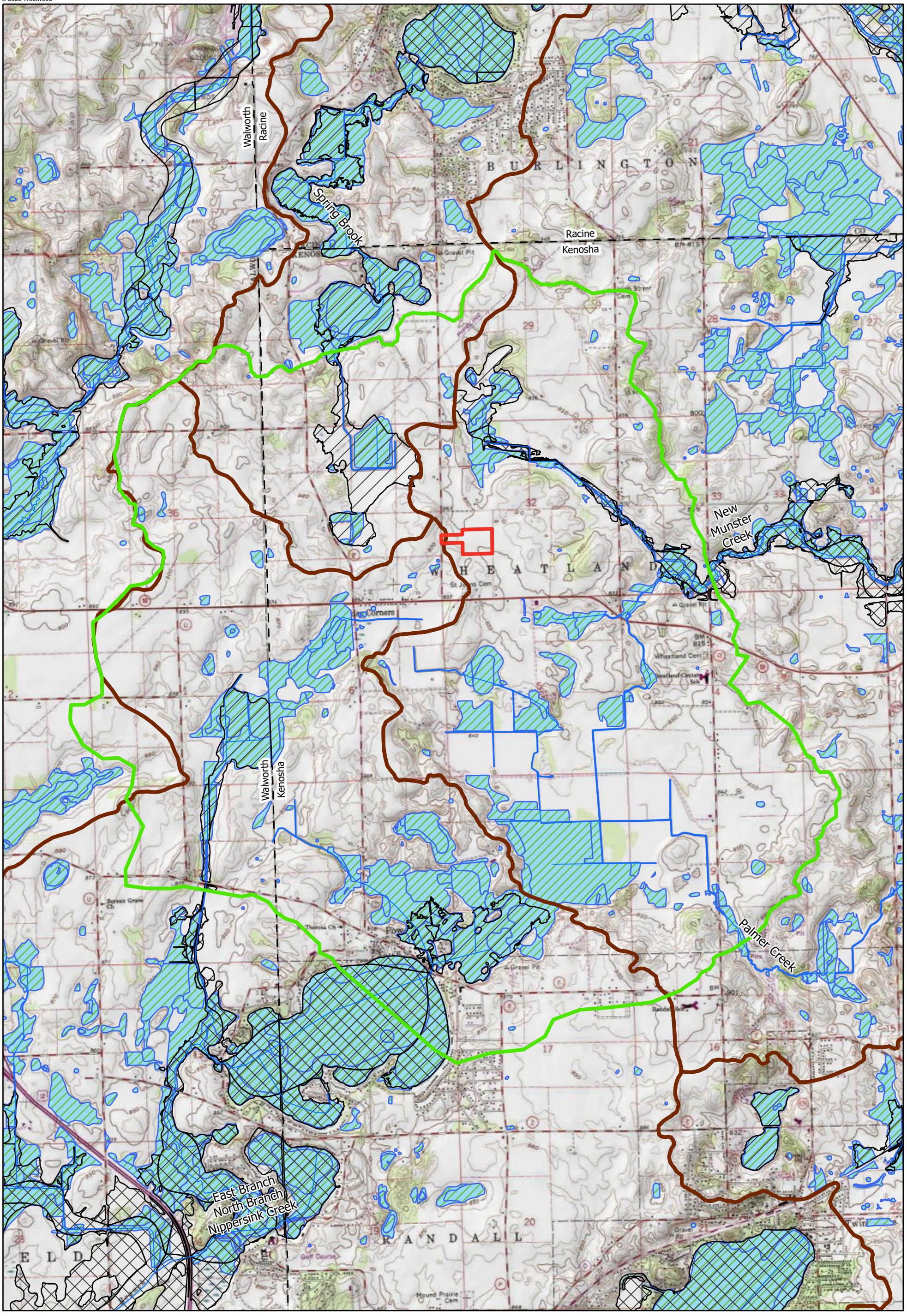
Kenosha County, WI

Exhibit 1: Location Map

October 27, 2025

Westwood
Toll Free (888) 937-5150 westwoodps.com

N:\0052120.01_GIS_hydroexhibits\RobinBESSHydroExhibits\RobinBESSHydroExhibits.aprx
02-Base Hydrologic Map - USGS, FEMA, and NWI Wetlands Map | 10/22/2025 10:31 AM | ACarpenter



Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- HUC-12 Boundary
- County Boundary
- FEMA Zone A
- FEMA Zone AE
- NWI Wetlands
- NHD Flowlines

N

0 0.5 Miles

Robin BESS Project

Kenosha County, WI

Exhibit 2: Base Hydrologic Map

October 27, 2025

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05-CN And Topo Sources - CN and Topo Sources | 10/22/2025 10:40 AM | ACarpenter

Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- 1m Public Topography
- Client Topography
- County Boundary

Curve Number

- 40 - 49
- 50 - 59
- 60 - 69
- 70 - 79
- 80 - 89
- 90 - 99

N

0 0.5 Miles

Robin BESS Project

Kenosha County, WI

Exhibit 5: Curve Number and Topographic Source Map

October 27, 2025

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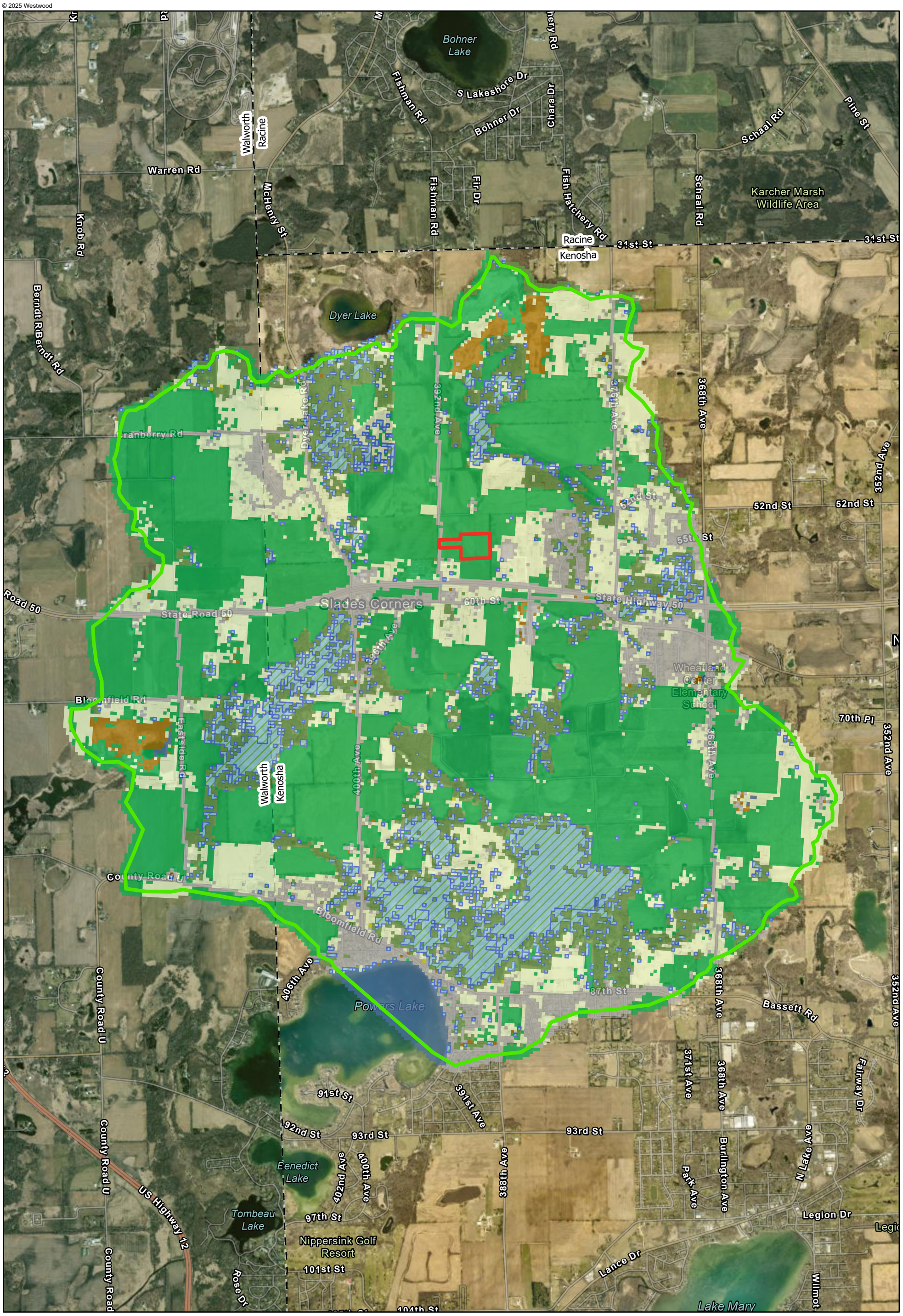

Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary
- Barren
- Cultivated
- Developed
- Shrubland
- Water
- Pastureland
- Wetlands
- Woods

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N

0 0.5 Miles

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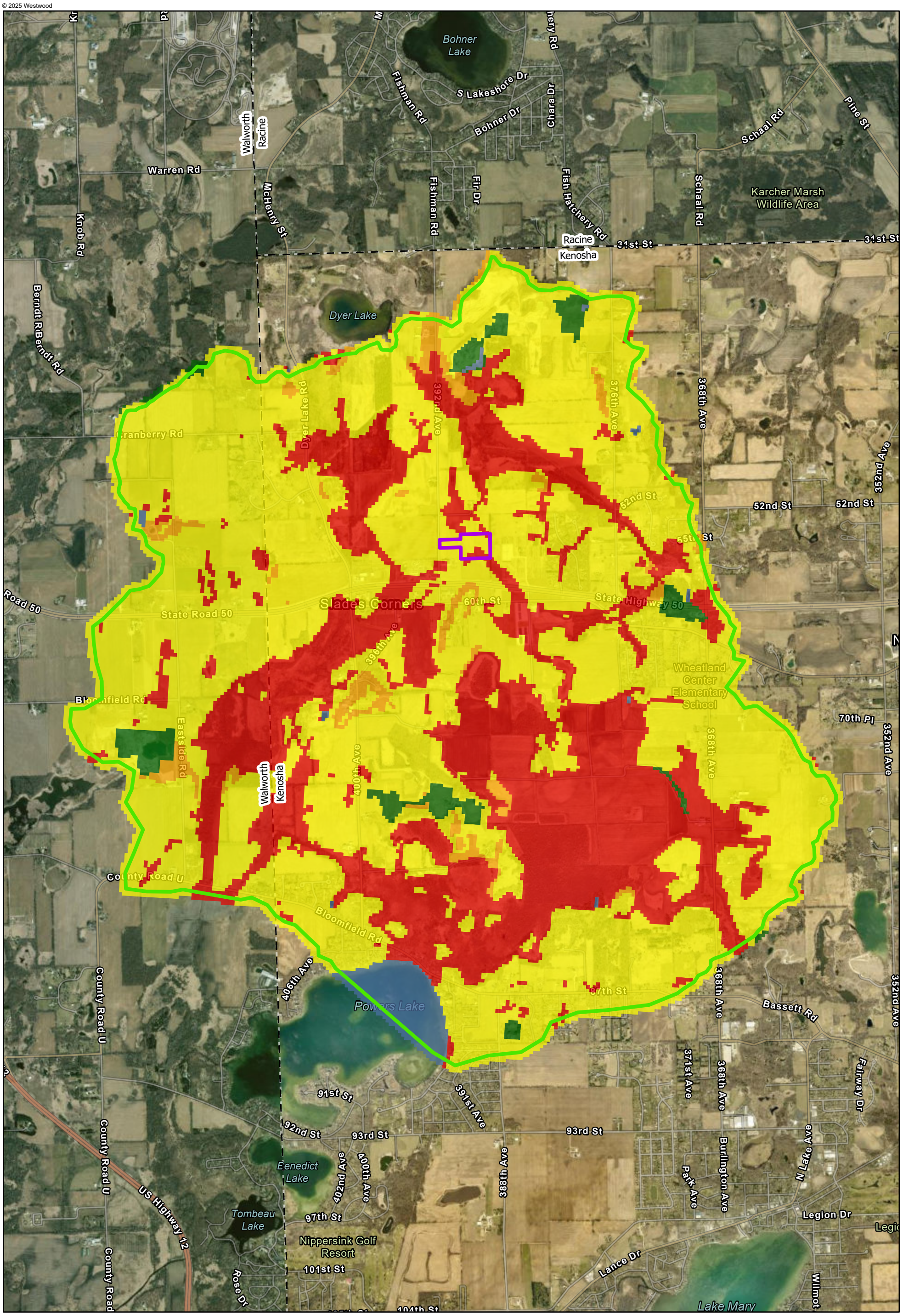
Kenosha County, WI

Exhibit 4: Landcover Map

October 27, 2025

N:\0052120.01_GIS_hydroexhibits\RobinBESSHydroExhibits\RobinBESSHydroExhibits.aprx
03-Soils Map - Soils Map | 10/22/2025 10:30 AM | ACarpenter



Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary

Hydrologic Soil Group

- A
- B
- C
- D
- Water

N

0 0.5 Miles

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Kenosha County, WI

Exhibit 3: Soils Map

October 27, 2025

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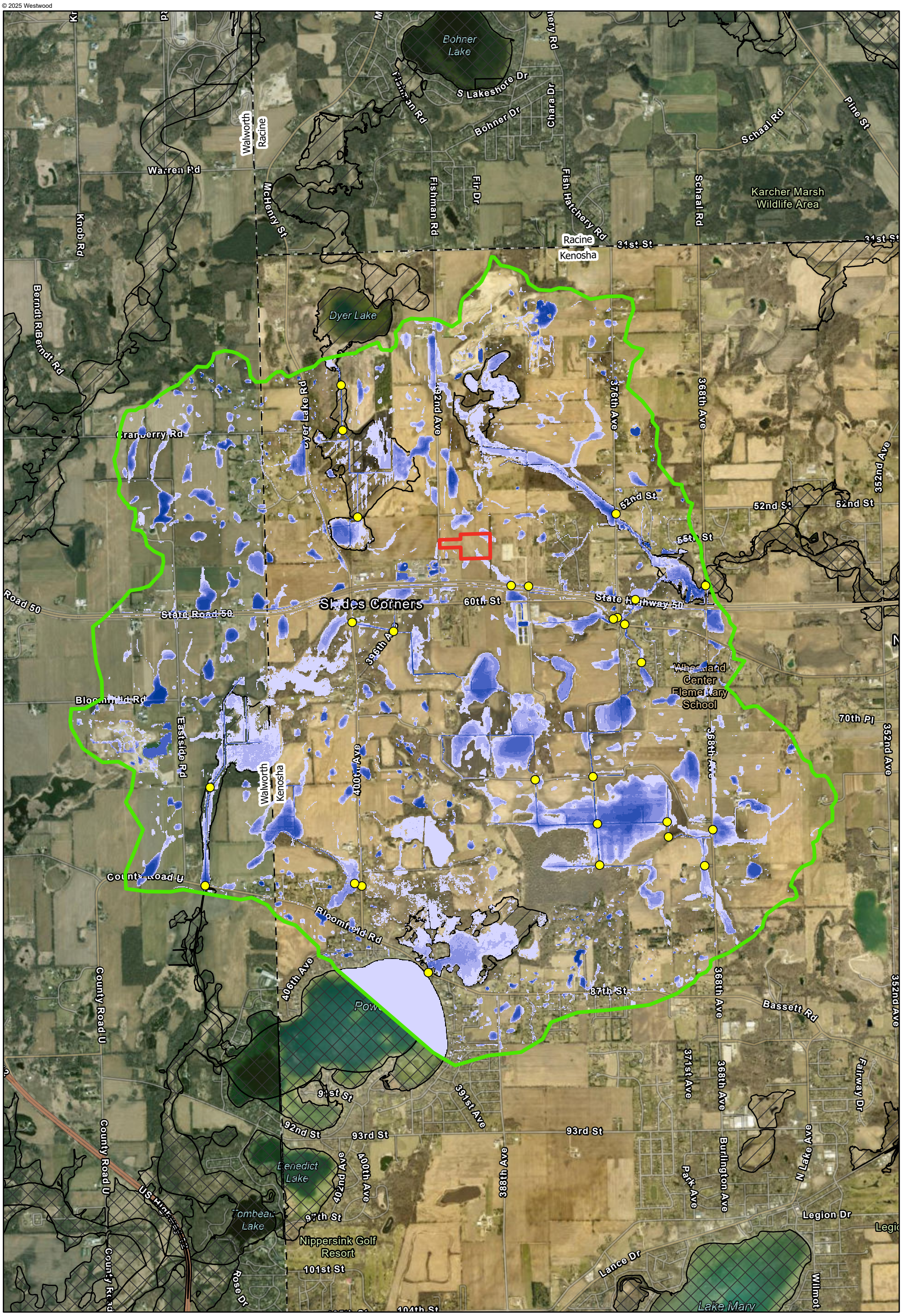
N:\0052120.01_GIS_hydroexhibits\RobinBESSHydroExhibits\RobinBESSHydroExhibits.aprx
06-100 Yr Max Water Depth Map - 100 Yr Max Water Depth | 10/22/2025 10:30 AM | ACarpenter



Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary
- FEMA Zone A
- FEMA Zone AE
- FLO-2D Culvert Inputs

Max Water Depth (ft)

- 0.50 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 - 6.00
- 6.01 +

N

0 0.5 Miles

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Kenosha County, WI

Exhibit 6: 100-Year Max Water Depth Map

October 27, 2025

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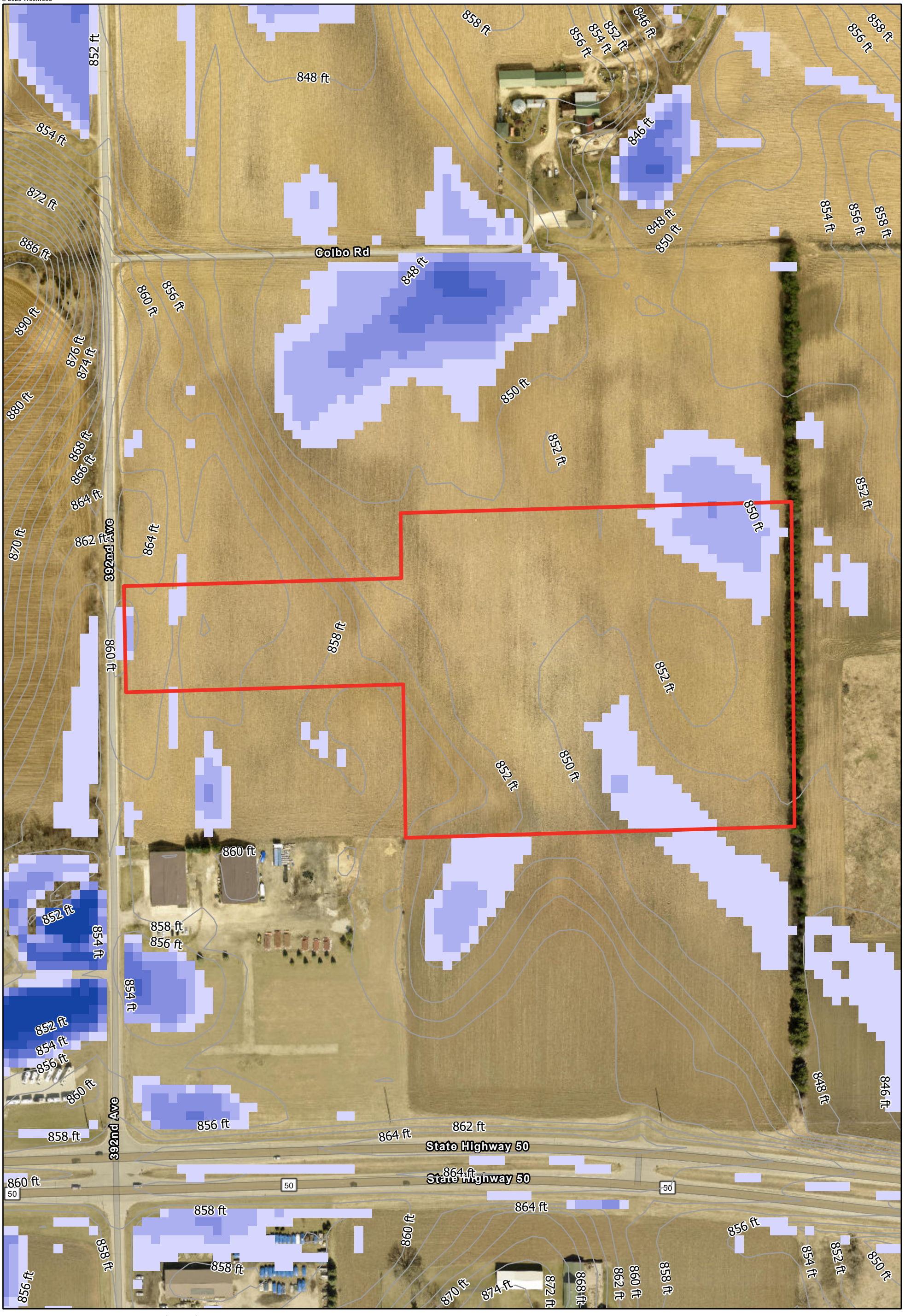
N:\0052120.01_GIS_hydroexhibits\RobinBESSHydroExhibits\RobinBESSHydroExhibits.aprx
06A-100 Yr Max Water Depth Project Area Map - 100 Yr Max Water Depth Project Area | 10/22/2025 10:28 AM | ACarpenter



Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary
- FEMA Zone A
- FEMA Zone AE
- XX' Contours

Max Water Depth (ft)

- 0.50 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 - 6.00
- 6.01 +

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N

0 200 Feet

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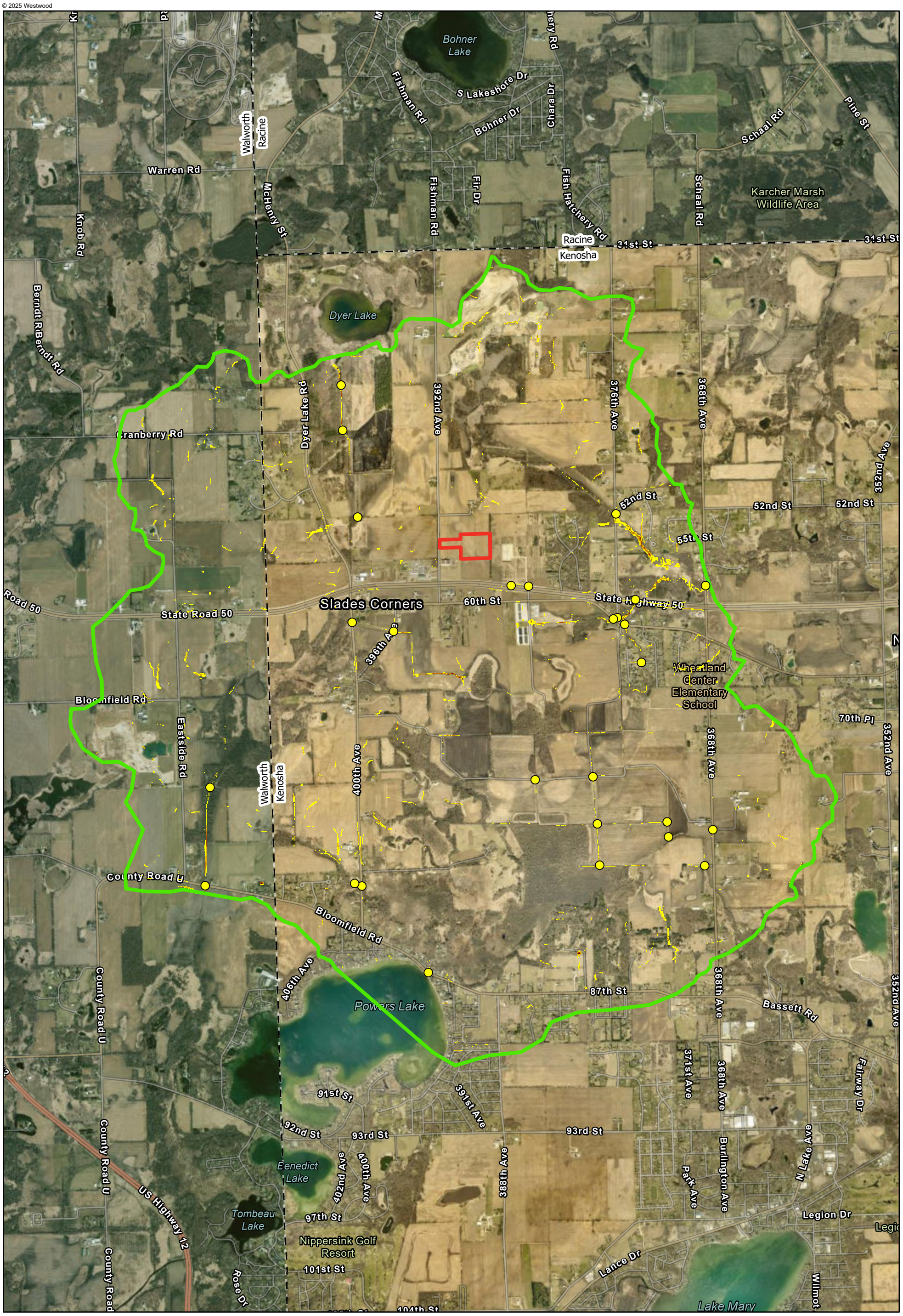
Kenosha County, WI

Exhibit 6A: 100-Year Max Water Depth Project Area Map

October 27, 2025

N:\0052120.01_GIS_hydroexhibits\RobinBESSHydroExhibits\RobinBESSHydroExhibits.aprx
07-100 Yr Peak Velocity Map - 100 Yr Peak Velocity | 10/22/2025 10:30 AM | ACarpenter



Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary
- FLO-2D Culvert Inputs

Peak Velocity (fps)

- 1.00 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 +

N

0 0.5 Miles

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Exhibit 7: 100-Year Peak Velocity Map

October 27, 2025

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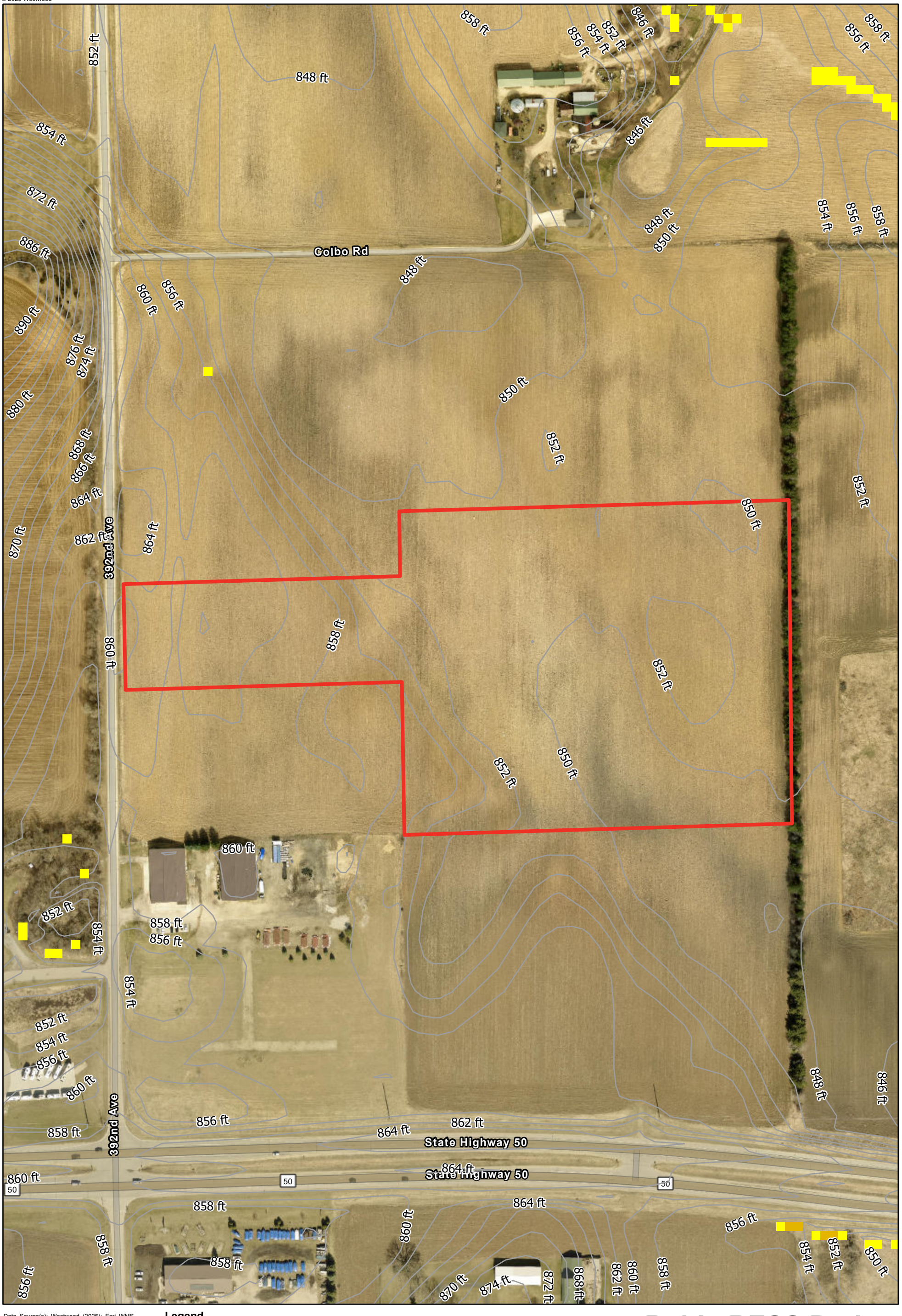

Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary
- XX' Contours

Peak Velocity (fps)

- 1.00 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 4.00
- 4.01 +

N

0 200 Feet

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Kenosha County, WI

Exhibit 7A: 100-Year Peak Velocity Project Area Map

October 27, 2025

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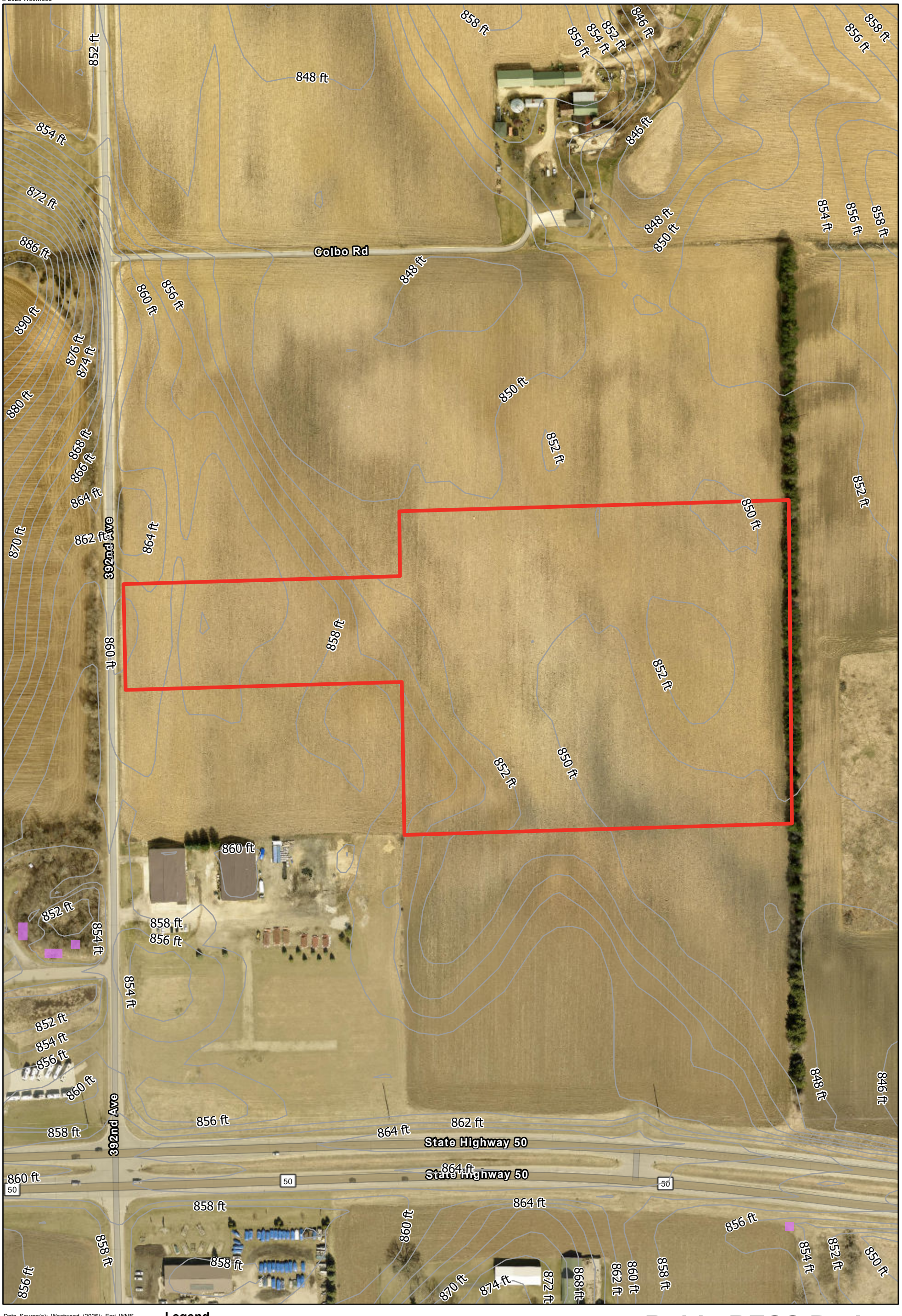

Data Source(s): Westwood (2025); Esri WMS Basemap Imagery (Accessed 2025); USGS (2025); FEMA (2025); USDA (2025)

Legend

- Project Area
- FLO-2D Boundary
- County Boundary
- XX' Contours
- Scour (ft)
  - 1.00 - 1.50
  - 1.51 - 2.00
  - 2.01 +

N

0 200 Feet

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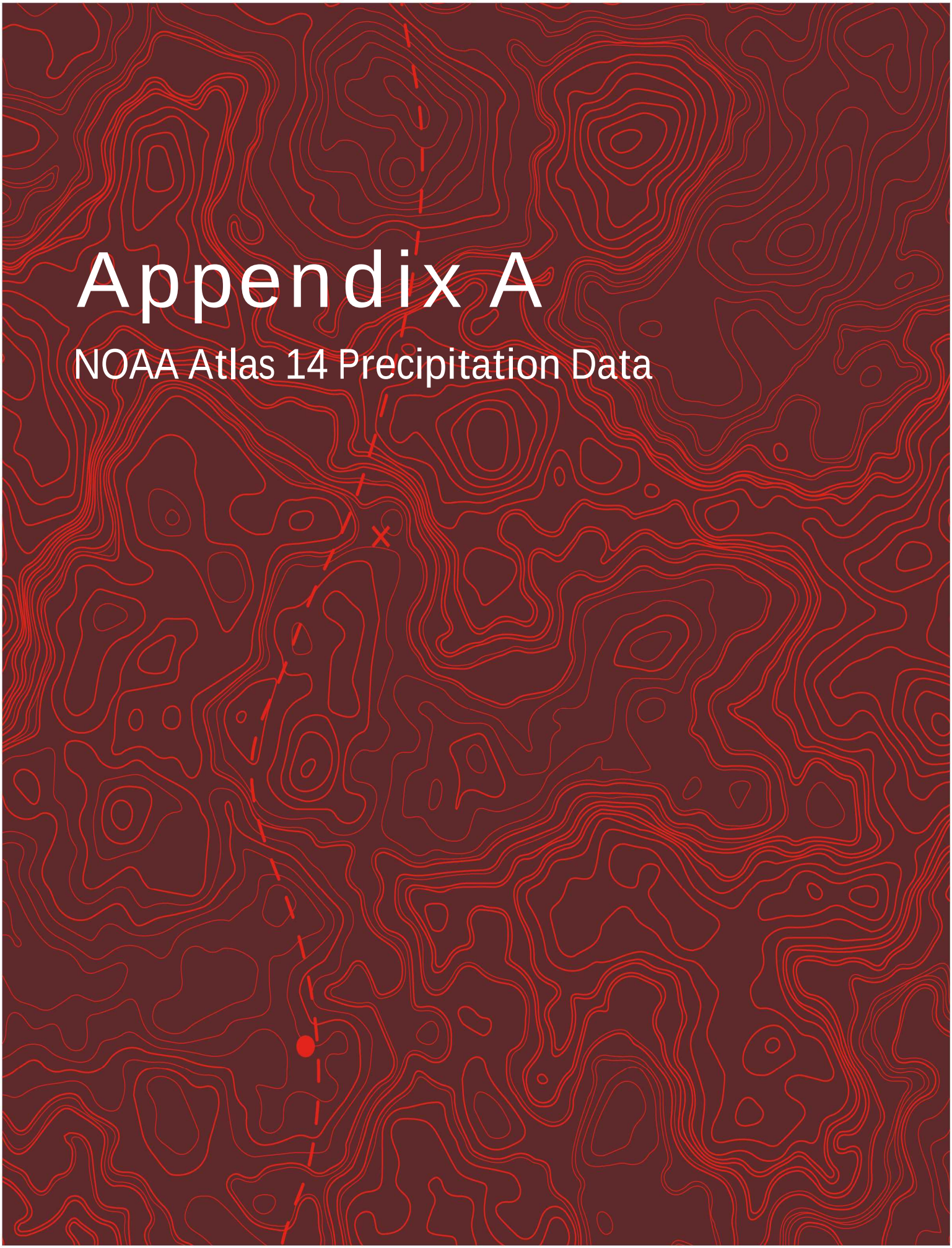
Exhibit 8: 100-Year Scour Map

October 27, 2025

Appendix A

NOAA Atlas 14 Precipitation Data



NOAA Atlas 14, Volume 8, Version 2
Location name: Burlington, Wisconsin, USA*
Latitude: 42.5878°, Longitude: -88.2815°
Elevation: 850 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.346** (0.272-0.434)	**0.403** (0.316-0.505)	**0.498** (0.390-0.626)	**0.579** (0.452-0.730)	**0.694** (0.526-0.898)	**0.786** (0.583-1.02)	**0.880** (0.632-1.17)	**0.978** (0.677-1.32)	**1.11** (0.741-1.53)	**1.21** (0.791-1.68)
10-min	**0.506** (0.398-0.635)	**0.589** (0.463-0.740)	**0.729** (0.571-0.916)	**0.848** (0.661-1.07)	**1.02** (0.771-1.32)	**1.15** (0.853-1.50)	**1.29** (0.926-1.71)	**1.43** (0.991-1.93)	**1.63** (1.09-2.24)	**1.78** (1.16-2.46)
15-min	**0.617** (0.486-0.775)	**0.719** (0.565-0.902)	**0.889** (0.697-1.12)	**1.03** (0.806-1.30)	**1.24** (0.940-1.60)	**1.40** (1.04-1.83)	**1.57** (1.13-2.08)	**1.75** (1.21-2.36)	**1.98** (1.32-2.73)	**2.17** (1.41-3.01)
30-min	**0.865** (0.680-1.08)	**1.01** (0.791-1.26)	**1.25** (0.977-1.57)	**1.45** (1.13-1.83)	**1.75** (1.32-2.26)	**1.98** (1.47-2.58)	**2.22** (1.60-2.95)	**2.48** (1.72-3.34)	**2.82** (1.89-3.88)	**3.09** (2.02-4.29)
60-min	**1.09** (0.860-1.37)	**1.29** (1.02-1.62)	**1.63** (1.28-2.05)	**1.92** (1.50-2.43)	**2.35** (1.78-3.04)	**2.69** (1.99-3.51)	**3.04** (2.18-4.03)	**3.41** (2.36-4.61)	**3.92** (2.62-5.39)	**4.32** (2.81-5.99)
2-hr	**1.32** (1.05-1.64)	**1.58** (1.26-1.96)	**2.02** (1.60-2.51)	**2.40** (1.89-2.99)	**2.95** (2.27-3.78)	**3.39** (2.55-4.38)	**3.85** (2.81-5.06)	**4.34** (3.05-5.80)	**5.01** (3.40-6.82)	**5.54** (3.66-7.60)
3-hr	**1.45** (1.16-1.79)	**1.75** (1.40-2.16)	**2.26** (1.80-2.78)	**2.70** (2.14-3.34)	**3.34** (2.59-4.26)	**3.86** (2.93-4.96)	**4.40** (3.24-5.75)	**4.98** (3.52-6.62)	**5.77** (3.95-7.81)	**6.40** (4.26-8.72)
6-hr	**1.72** (1.40-2.10)	**2.06** (1.67-2.51)	**2.64** (2.13-3.22)	**3.15** (2.54-3.86)	**3.90** (3.07-4.93)	**4.51** (3.47-5.74)	**5.16** (3.85-6.67)	**5.84** (4.20-7.69)	**6.80** (4.72-9.11)	**7.55** (5.11-10.2)
12-hr	**2.06** (1.69-2.47)	**2.39** (1.96-2.88)	**2.98** (2.44-3.60)	**3.51** (2.86-4.24)	**4.28** (3.42-5.35)	**4.92** (3.84-6.20)	**5.60** (4.24-7.16)	**6.33** (4.62-8.24)	**7.35** (5.19-9.74)	**8.17** (5.61-10.9)
24-hr	**2.38** (1.99-2.84)	**2.74** (2.28-3.26)	**3.37** (2.79-4.02)	**3.92** (3.24-4.69)	**4.73** (3.82-5.84)	**5.40** (4.27-6.71)	**6.10** (4.68-7.70)	**6.85** (5.08-8.81)	**7.90** (5.66-10.3)	**8.73** (6.10-11.5)
2-day	**2.70** (2.28-3.17)	**3.13** (2.64-3.68)	**3.87** (3.25-4.55)	**4.50** (3.77-5.32)	**5.42** (4.43-6.58)	**6.16** (4.93-7.54)	**6.93** (5.38-8.62)	**7.74** (5.81-9.80)	**8.84** (6.42-11.4)	**9.72** (6.89-12.6)
3-day	**2.98** (2.53-3.48)	**3.42** (2.91-4.00)	**4.18** (3.54-4.89)	**4.85** (4.09-5.69)	**5.81** (4.79-7.01)	**6.59** (5.32-8.01)	**7.40** (5.80-9.15)	**8.25** (6.25-10.4)	**9.44** (6.92-12.1)	**10.4** (7.42-13.4)
4-day	**3.22** (2.76-3.74)	**3.67** (3.13-4.26)	**4.44** (3.78-5.16)	**5.11** (4.33-5.96)	**6.09** (5.05-7.32)	**6.90** (5.60-8.35)	**7.74** (6.11-9.52)	**8.63** (6.58-10.8)	**9.86** (7.28-12.6)	**10.8** (7.82-14.0)
7-day	**3.82** (3.30-4.39)	**4.28** (3.70-4.92)	**5.08** (4.38-5.86)	**5.79** (4.96-6.70)	**6.83** (5.73-8.13)	**7.68** (6.32-9.21)	**8.58** (6.86-10.5)	**9.53** (7.36-11.8)	**10.9** (8.12-13.7)	**11.9** (8.70-15.2)
10-day	**4.35** (3.78-4.97)	**4.85** (4.22-5.54)	**5.72** (4.95-6.54)	**6.47** (5.58-7.43)	**7.57** (6.39-8.93)	**8.46** (7.00-10.1)	**9.39** (7.56-11.4)	**10.4** (8.07-12.8)	**11.7** (8.85-14.7)	**12.8** (9.43-16.2)
20-day	**5.96** (5.25-6.72)	**6.63** (5.84-7.48)	**7.73** (6.79-8.74)	**8.65** (7.57-9.81)	**9.94** (8.47-11.5)	**10.9** (9.15-12.8)	**11.9** (9.72-14.2)	**13.0** (10.2-15.7)	**14.3** (11.0-17.7)	**15.4** (11.5-19.2)
30-day	**7.39** (6.56-8.27)	**8.21** (7.29-9.20)	**9.53** (8.44-10.7)	**10.6** (9.34-11.9)	**12.0** (10.3-13.8)	**13.1** (11.0-15.1)	**14.1** (11.6-16.6)	**15.2** (12.0-18.2)	**16.5** (12.7-20.2)	**17.5** (13.2-21.7)
45-day	**9.28** (8.31-10.3)	**10.3** (9.22-11.5)	**11.9** (10.6-13.2)	**13.1** (11.7-14.7)	**14.7** (12.7-16.7)	**15.9** (13.5-18.2)	**17.0** (14.0-19.7)	**18.0** (14.4-21.3)	**19.2** (14.9-23.2)	**20.0** (15.3-24.7)
60-day	**10.9** (9.86-12.1)	**12.1** (10.9-13.4)	**13.9** (12.5-15.5)	**15.3** (13.7-17.0)	**17.1** (14.8-19.2)	**18.3** (15.6-20.7)	**19.4** (16.1-22.3)	**20.3** (16.3-23.9)	**21.4** (16.7-25.7)	**22.1** (17.0-27.1)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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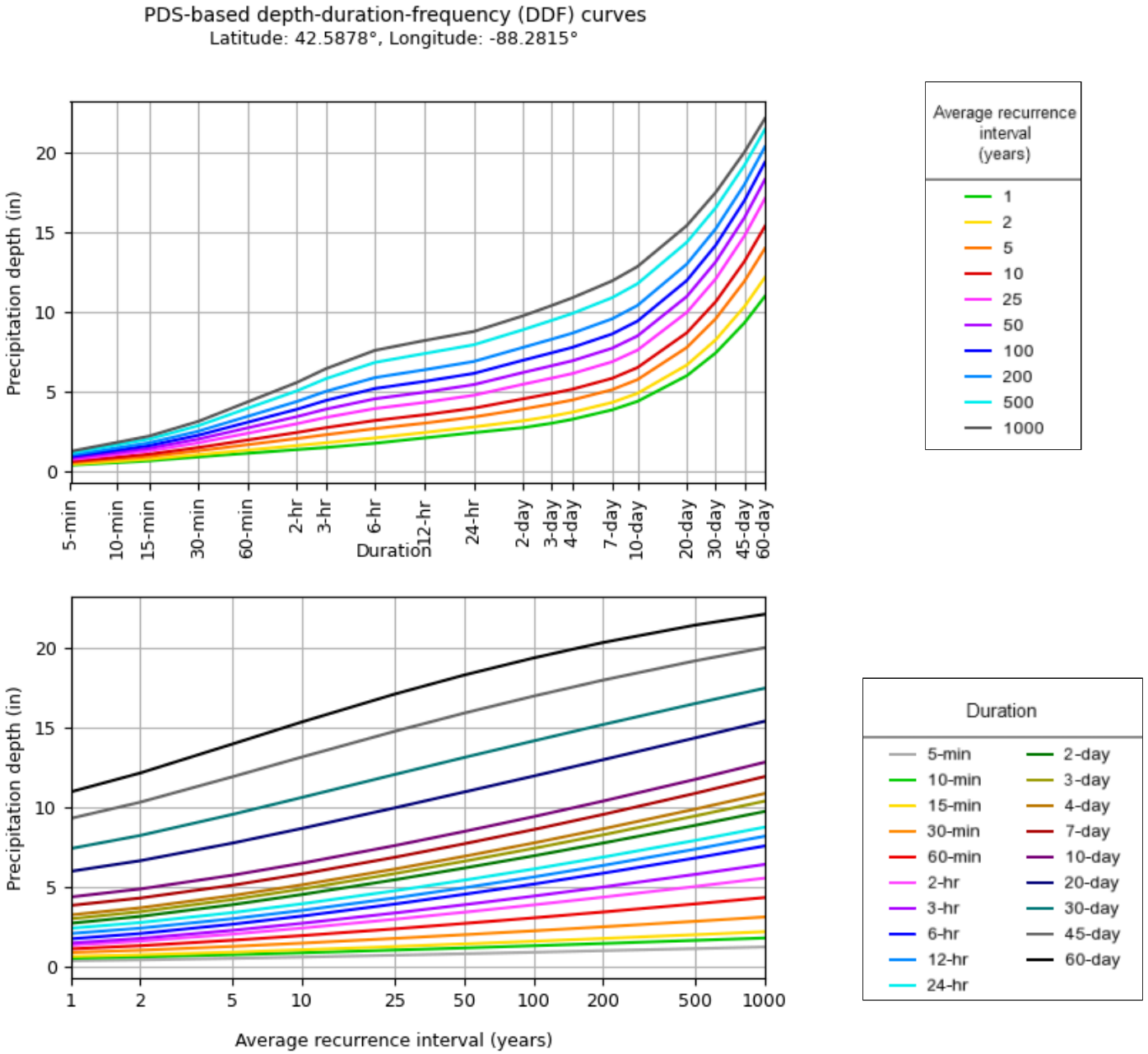
PF graphical



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Created (GMT): Tue May 20 20:18:17 2025

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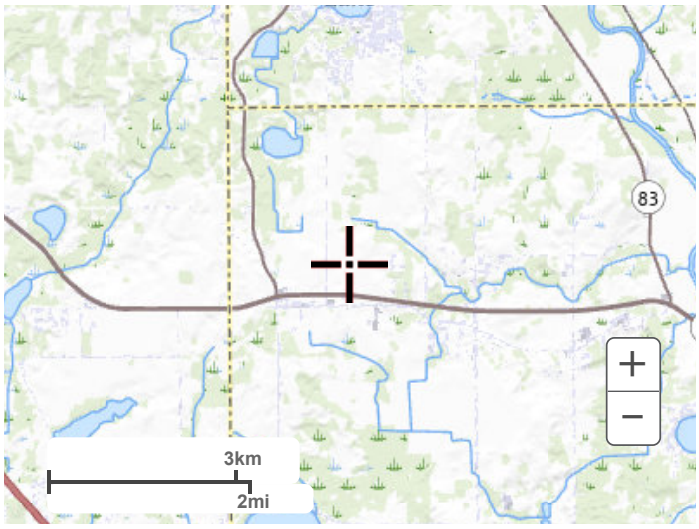
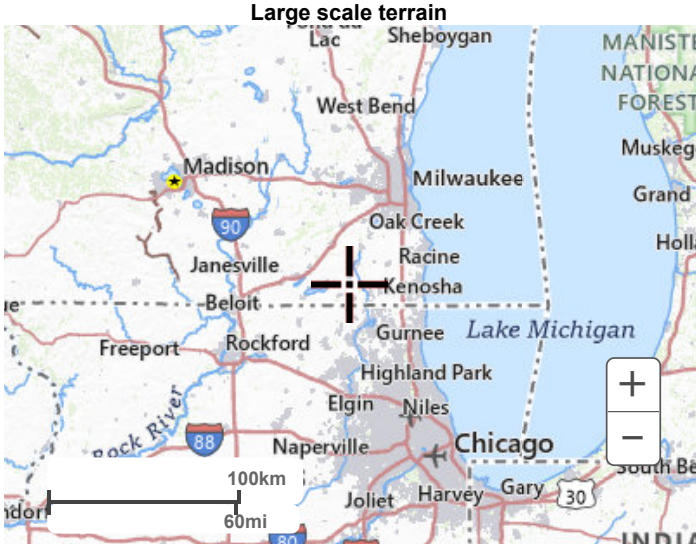
Maps & aerials

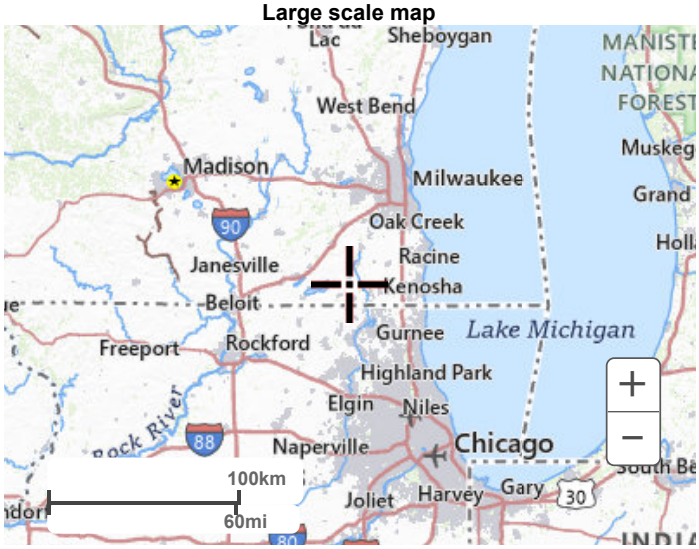
Small scale terrain



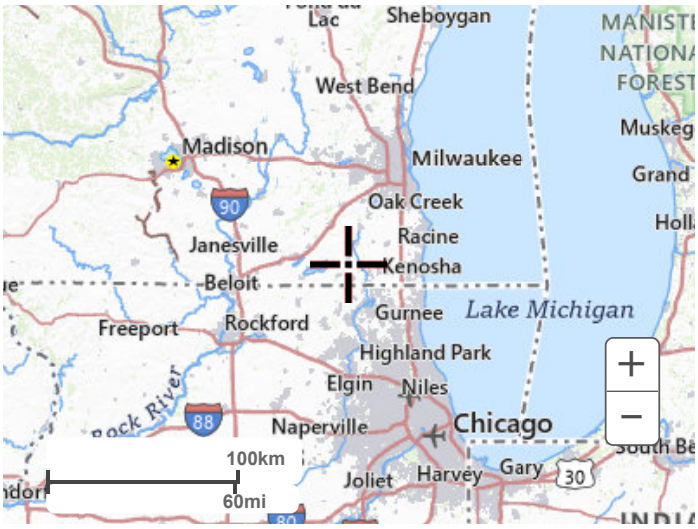
Large scale terrain



Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

Appendix B

Curve Number Table

Table 1. Standard Curve Numbers

Class	Value	Classification Description [NLCD 2006]	Curve Number				
			Soil Type*				
			A	B	C	D	W
Water	11	Open Water - areas of open water, generally with less than 25% cover of vegetation or soil.	98	98	98	98	100
	12	Perennial Ice/Snow - areas characterized by a perennial cover of ice and/or snow, generally greater than 25% of total cover.	98	98	98	98	100
Developed	21	Developed, Open Space - areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.	46	65	77	82	100
	22	Developed, Low Intensity - areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20% to 49% percent of total cover. These areas most commonly include single-family housing units.	61	75	83	87	100
	23	Developed, Medium Intensity – areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50% to 79% of the total cover. These areas most commonly include single-family housing units.	77	85	90	95	100
	24	Developed High Intensity -highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80% to 100% of the total cover.	89	92	94	95	100
Barren	31	Barren Land (Rock/Sand/Clay) - areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15% of total cover.	77	86	91	94	100
Forest	41	Deciduous Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.	43	55	70	77	100
	42	Evergreen Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.	43	55	70	77	100
	43	Mixed Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.	43	55	70	77	100
Shrubland	51	Dwarf Scrub - Alaska only areas dominated by shrubs less than 20 centimeters tall with shrub canopy typically greater than 20% of total vegetation. This type is often co-associated with grasses, sedges, herbs, and non-vascular vegetation.	43	48	65	73	100
	52	Shrub/Scrub - areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.	43	48	65	73	100
Herbaceous	71	Grassland/Herbaceous - areas dominated by gramanoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.	43	58	71	78	100
	72	Sedge/Herbaceous - Alaska only areas dominated by sedges and forbs, generally greater than 80% of total vegetation. This type can occur with significant other grasses or other grass like plants, and includes sedge tundra, and sedge tussock tundra.	43	58	71	78	100
	73	Lichens - Alaska only areas dominated by fruticose or foliose lichens generally greater than 80% of total vegetation.	43	48	65	73	100
	74	Moss - Alaska only areas dominated by mosses, generally greater than 80% of total vegetation.	43	48	65	73	100
Planted/Cultivated	81	Pasture/Hay – areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.	43	58	71	78	100
	82	Cultivated Crops – areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land being actively tilled.	67	78	85	89	100
	83	Small Grains	63	75	83	87	100
Wetlands	91	Woody Wetlands - areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.	45	66	77	83	100
	92	Emergent Herbaceous Wetlands - Areas where perennial herbaceous vegetation accounts for greater than 80% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.	45	66	77	83	100

*A/D, B/D and C/D soils lumped as D soils, W denotes water

**Curve Numbers for NLCD Codes 41-81 have been increased from 30 to 43 as many of these areas are partially grazed Woods-grass combination.

Appendix C

FEMA Flood Insurance Rate Map (FIRM)

88°16'0"W

42° 35'37.53" N, 88° 16'52.52" W

42° 35'37.53" N, 88° 15'0.02" W

Approximate Project Boundary

42° 33'45.03" N, 88° 16'52.52" W

42° 33'45.03" N, 88° 15'0.02" W

42°34'0"N

42°34'0"N

88°16'0"W

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- 8 Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available effective flood hazard information for your community, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be downloaded from the website. Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be acquired directly from the Flood Map Service Center at the website listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by the United States Geological Survey (USGS). The basemap shown is the USGS National Map: Orthoimagery. Last refreshed October, 2020.

Note: Some Special Flood Hazard Areas with elevations may not appear with elevation labels if the Base Flood Elevation or Cross-section line which communicates the elevation for the location appears on the adjacent panel. Please see the Panel Locator Diagram on this map panel to determine the adjacent panel and find the elevation feature there, or alternatively use the Flood Insurance Study report for detailed elevations by flood source.

SCALE

1 inch = 500 feet 1:6,000

0 250 500 1,000 1,500 2,000 feet

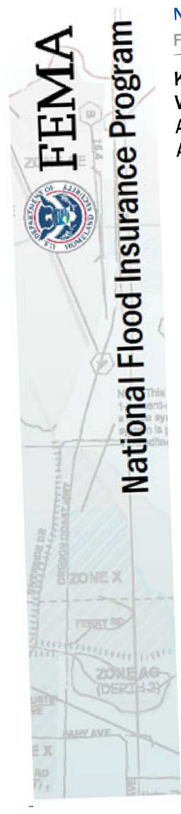
0 50 100 200 300 400 meters

Map Projection:
NAD 1983 HARN UTM Zone 16N

Vertical Datum: NAVD88

PANEL LOCATOR

*PANEL NOT PRINTED



NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

KENOSHA COUNTY WISCONSIN AND INCORPORATED AREAS

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
KENOSHA COUNTY UNINCORPORATED AREAS	550523	0109	E

MAP NUMBER
55059C0109E
EFFECTIVE DATE
April 11, 2024

250 ft 750 ft 1250 ft 1750 ft

88°20'0"W
88°18'0"W
88°16'0"W
42°35'0"N
42°33'0"N
42° 37'30.03" N,
88° 18'45.02" W
42° 37'30.03" N,
88° 16'52.52" W
42° 33'45.03" N,
88° 18'45.02" W
42° 33'45.03" N,
88° 16'52.52" W
131ST ROAD
CRANBERRY RD
NEUMANN LN
392ND AVE
LIMIT OF STUDY
ZONE A
Dyer Lake
Spring Brook
Kenosha County
Unincorporated Areas
550523
Approximate Project Boundary

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTPS://MSC.FEMA.GOV

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- 20.2 — Cross Sections with 1% Annual Chance
- 17.5 — Water Surface Elevation
- Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)

OTHER FEATURES
- Limit of Study
- Jurisdiction Boundary

0 ft 500 ft 1500 ft 2500 ft 3500 ft

NOTES TO USERS

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SCALE

N

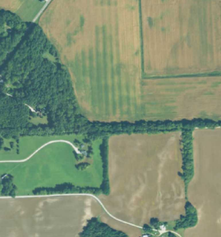
1 inch = 1,000 feet 1:12,000

0 500 1,000 2,000 3,000 4,000 feet

0 105 210 420 630 840 meters

Map Projection:
NAD 1983 HARN UTM Zone 16N
Vertical Datum: NAVD88

PANEL LOCATOR



				0012	0016
				0014*	0018
0110	0107	0126	0127	0131	
	0109	0128	0129	0133	
0116	0117	0136	0137	0141	
0118	0119	0138	0139*	0143	
0231	0232	0251*	0252*	0256	

*PANEL NOT PRINTED

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

KENOSHA COUNTY WISCONSIN AND INCORPORATED AREAS

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
KENOSHA COUNTY UNINCORPORATED AREAS	550523	0110	E

MAP NUMBER
55059C0110E
EFFECTIVE DATE
April 11, 2024