



# CITY COUNCIL MEETING

Monday, March 17, 2025 at 6:00 PM

Lester Public Library, Community Room,  
1001 Adams Street, Two Rivers, WI 54241

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## AGENDA

**NOTICE: Arrangements for Addressing the City Council by Telephone, During Public Hearings or Input from the Public can be made by Contacting the City Manager's Office at 920-793-5532 or City Clerk's Office at 920-793-5526 by 4:00 p.m. on the day of the meeting**

1. **CALL TO ORDER**
2. **PLEDGE OF ALLEGIANCE**
3. **ROLL CALL BY CITY CLERK**  
Councilmembers: Mark Bittner, Doug Brandt, Shannon Derby, Bill LeClair, Darla LeClair, Tim Petri, Bonnie Shimulunas, Scott Stechmesser, Adam Wachowski
4. **CONSIDERATION OF ANY COUNCIL MEMBER REQUESTS TO PARTICIPATE IN THIS MEETING FROM A REMOTE LOCATION**
5. **PUBLIC HEARING**
6. **INPUT FROM THE PUBLIC**
7. **COUNCIL COMMUNICATIONS**  
Letters and other communications from citizens
8. **COUNCIL REPORTS FROM BOARDS/COMMISSIONS/COMMITTEES**
9. **CITY MANAGER'S REPORT**
  - A. Invited Guests
  - B. Status Update/Reports
    1. Staffing Updates
      - a. New Water Department Certified Operator Gabe Butler has started work
      - b. Parks and Recreation Lead Worker for Facilities and Playgrounds--  
Offer Extended to Top Candidate
      - c. Community Development Director Recruitment
      - d. City Manager Recruitment
      - e. Recruitment for Seasonal Positions
      - f. Other
    2. Employment of High School Youth Apprentices in City Departments
      - a. Water Department
      - b. Clerk's Office
      - c. Fire Department
      - d. Parks and Recreation
      - e. Other
    3. Financing for 2025 Capital Projects

4. City Hall Elevator Upgrade Project
5. Election Updates: Spring Election, April 1, 2025
6. Winter Parking Ban Ended March 15
7. Two Rivers Utilities' Scholarship Program is accepting applications
8. Community and Economic Development Update
9. Upcoming Events
  - a. Two Rivers Business Association, City Council Candidates Forum, Tuesday, March 18, 2025, 6:30PM - 8:00PM, at the Community House, Behringer Room
  - b. Lakeshore Wedding Expo, Sunday, March 23, 2025, 11:00AM-2:00PM, at Sepia Chapel
  - c. Two Rivers Business Association, Manitowoc County Business Expo, Wednesday, March 26, 2025, 4:00PM - 7:00PM at Sepia Chapel
  - d. Coffee with a Cop
    1. McDonalds, March 20, 2025, 9:00AM-10:00AM
    2. Starbucks, April 16, 2025, 9:00AM-10:00AM
    3. Senior Center, April 30, 2025, 10:00AM-11:00AM
  - e. Two Rivers Kids' Run, Saturday, March 29, 2025, 3:30PM-6:00PM, at Two Rivers High School
  - f. Two Rivers 10 Mile Run, Sunday, March 30, 2025, 8:00AM, at Two Rivers High School
  - g. Two Rivers Senior Center, "Cork and Canvas," Friday, April 4, 2025, 6:00PM, at the Community House, Behringer Room
  - h. Two Rivers Rotary Club 23rd Annual Dinner & Auction, Saturday, April 5, 2025, 5:00PM, at Sepia Chapel
  - i. Two Rivers Optimist Club, "In Remembrance Night," Luminaries placed in Two Rivers Cemeteries, April 12, 2025
10. Other

**C.** Legislative/Intergovernmental Update

1. Notification from WI Department of Administration Regarding Decision by the State to Close Out Locally-Administered CDBG Housing Loan Funds, With Funds to Be Re-Deployed by the State for a New Affordable Housing Initiative
2. Status of Safe Drinking Water Fund and Clean Water Fund Financing for 2025 Water and Sewer Infrastructure Work
3. Status of Federal Funding for Sustainable Shoreline Planning Project
4. Concerns Regarding the Status of Tax-Exempt Financing for Local Infrastructure Projects
5. Proposed "Right of First Refusal" Legislation to Allow Existing Owners of Electrical Transmission Facilities in Wisconsin First Rights to Build and Operate New Transmission Facilities Serving the Regional Power Grid--Legislation Supported by WPPI Energy

**10. CONSENT AGENDA**

**A.** **25-043** Presentation of Minutes

1. City Council Listening Session, February 19, 2025

Recommended Action:

Motion to waive reading and adopt the minutes

**B.** **25-044** Minutes of Meetings

1. Committee on Aging, February 4 and March 3, 2025
2. Library Board, February 11, 2025
3. Environmental Advisory Board, February 18, 2025
4. Public Utilities Committee, March 3, 2025
5. Public Works Committee Special Meeting, March 5, 2025
6. Public Works Committee, March 5, 2025

Recommended Action:  
Motion to receive and file

- C. 25-045** Department Reports, Month Year
1. City Clerk
  2. Electric
  3. Inspections
  4. Library
  5. Parks & Recreation (Annual Report)
  6. Public Works
  7. Water

Recommended Action:  
Motion to receive and file

- D. 25-046** Applications and Petitions
1. Application for Temporary Class "B" Beer and "Class B" Wine License for Heart-A-Rama, May 1, 2, 3, and May 8, 9, 10, 2025, 6:00PM - 11:00 PM, 1710 W. Park Street

Recommended Action:  
Motion to approve the applications and authorize issuance of the licenses

- E. 25-047** Summary of Verified Bills for the Month February 2025 for \$5,255,688.51

Recommended Action:  
Motion to receive and file

**RECOMMENDED ACTION FOR CONSENT AGENDA**  
**Motion to approve the Consent Agenda with the various actions recommended**

## 11. CITY COUNCIL - FORMAL ITEMS

- A. 25-048** Resolution to Adopt Manitowoc County Hazard Mitigation Plan 2025-2030

Recommended Action:  
Motion to waive reading and adopt the County Hazard Mitigation Plan 2025-2030

- B. 25-049** Ordinance to Amend Section 5-6-24 of Municipal Code, Regulating Commercial Refuse/Recycling Haulers

Recommended Action:  
Motion to waive reading and adopt the ordinance, as recommended by the Public Works Committee

- C. 25-050** Ordinance to Amend Section 4-1-4 of the Municipal Code, Regulating Construction and Repair of Sidewalks within the City

Recommended Action:  
Motion to waive reading and adopt the ordinance, as recommended by the Public Works Committee

- D. 25-051** Authorization for Overnight Camping at Neshotah Beach for a New, Parks and Recreation Department- Organized Event, "Great Neshotah Beach Campout" for One Night, August 30-31, 2025

Recommended Action:

Motion to waive normal park closing hours for participants in this special event, per Section 7-1-6 of City Ordinances

- E. 25-052** Ordinance Amending Section 6-4-9 of City Ordinance, Entitled "Vendors from Special Vehicles"

Recommended Action:

Motion to waive reading and adopt the ordinance

- F. 25-053** Appointment of Jack Powalisz to a three year term on the Lester Library Board, expiring May 1, 2028 (replacing retiring Board Member, David Pennefeather)

Recommended Action:

Motion to approve the appointment as recommended by the City Manager

- G. 25-054** Consider Appeal for a Variance from the City Residency Restrictions Applicable to Sex Offenders, Per Chapter 9-9 of City Ordinances

Recommended Action:

Motion to deny the appeal, consistent with the recommendation of the Chief of Police

- H. 25-055** 2024 Annual WDNR MS4 Stormwater Report

Recommended Action:

Review and authorize Public Works Director to sign and submit to WDNR

**12. FOR INFORMATION ONLY**

1. City Council Work Session Meeting, Monday, March 31, 2025, 6:00PM
2. City Council Regular Meeting, Monday, April 7, 2025, 6:00PM
3. Annual City Council Reorganizational Meeting, Tuesday, April 15, 2025, 6:00PM

**13. CLOSED SESSION**

The City Council reserves the right to enter into Closed Session, per Wisc. Stats 19.85(1)(e) deliberating or negotiating the purchasing of public properties, the investment of public funds, or conducting other specified public business, whenever competitive or bargaining reason require a closed session

**14. RECONVENE IN OPEN SESSION**

To consider possible actions in follow-up to closed session discussions

**15. ADJOURNMENT**

Motion to dispense with the reading of the minutes of this meeting and adjourn

*In accordance with the requirements of Title II of the Americans with Disabilities Act (ADA), the City of Two Rivers will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. If you need assistance or reasonable accommodations in participating in this meeting or event due to a disability as defined under the ADA, please call the City Clerk's office at 920-793-5526 or email [clerk@two-rivers.org](mailto:clerk@two-rivers.org) at least 48 hours prior to the scheduled meeting or event to request an accommodation. For additional assistance, individuals with hearing or speech disabilities can call 711 and be connected to a telephone relay system.*

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Tony Evers, Governor  
Kathy Blumenfeld, Secretary  
David Pawlisch, Division Administrator

March 10<sup>th</sup>, 2025

Greg Buckley, City Manager  
City of Two Rivers  
1717 E. Park Street  
Two Rivers, WI 54241

RE: Discontinuing Community Development Block Grant (CDBG) Small Communities Housing Revolving Loan Fund (RLF)

Dear City Manager Buckley:

To meet federal requirements, DEHCR outlined a plan in its 2025-2029 Consolidated Plan to discontinue all locally held Housing RLF programs.

In the early 1980s the Community Development Block Grant Housing (CDBG-HSG) program began providing funding to local units of government for the purpose of offering housing repair loans to low- to moderate-income (LMI) households. Under program guidelines, the community would award CDBG funds to eligible LMI households and the funds would be repaid by these households when they no longer owned or occupied the property as their primary place of residence. The repaid funds, along with interest earned on repaid funds, would establish a locally held CDBG Housing Revolving Loan Fund (RLF). The RLF would continue to be operated by the local municipality to provide new loans to LMI residents for housing repairs.

In 2012, the Division of Energy, Housing and Community Resources (DEHCR) discontinued the competitive award process and began to award CDBG housing funds via a fair share formula on a regional level. The State was divided into seven housing regions, covering every non-entitlement community in the State of Wisconsin. Under this model, all eligible LMI residents now have access to funds at the regional level, rather than relying on their community to receive an award from the State. A stipulation being if their community has an existing RLF, the applicant must first access funds through their community. If the community RLF does not have funds available, then the applicant can be served directly by the regional program.

Federal regulations require that funds repaid by homeowners (program income) and held in a local RLF account for a specific purpose (housing) must be spent prior to the state utilizing new grant funds for the same purpose. There is also an expectation that the RLF community "re-loan" the RLF balance back to the community in a timely manner. This expectation has not been met. Over the last ten years the amount of cash on hand, held at the local level, has steadily increased. As of March 31, 2024 there are approximately 215 local RLFs and the ending cash balance held by communities was approximately \$22 million.

DEHCR held several public comment periods across the state in the summer of 2024 to discuss the Consolidated Plan elements, which included discontinuing the local RLF housing programs to create an

affordable housing program. The comments received pertaining to the development of the new using the program income from the housing RLF's were supportive.

**The 2025-2029 Consolidated Plan calls for Housing RLF funds held at the local level to be returned to DEHCR, and the funds will be used to create an affordable housing program to convert underutilized or vacant buildings into affordable housing units.**

DEHCR will hold two in person and one virtual meeting later this spring to provide additional information on the program. You or your designated representative **will need to attend one of the following scheduled meetings** to become familiarized with the process and how these changes may affect your community.

April 8, 2025 1pm-2pm

**DOA Building**

101 E Wilson St.

Madison, WI

St. Croix Room

April 24, 2025, 1pm-2pm

**Conference Center**

1000 Lake View Drive

Wausau, WI

Wisconsin Room

April 29, 2025, 10am-11am

**Virtual Session via TEAMS**

Email invite will be sent

*Please contact Cassandra Dobson at [Cassandra.dobson1@wisconsin.gov](mailto:Cassandra.dobson1@wisconsin.gov) to let us know which meeting you will attend. Those electing to attend the virtual meeting will receive an email with a link for the meeting.*

Thank you for your partnership and your attention to this matter.

Sincerely,

*Tamra Fabian*

Tamra Fabian, Director  
Bureau of Community Development  
Division of Energy, Housing and Community Resources

cc: Amanda Baryenbruch, City Clerk, City of Two Rivers  
Cassandra Dobson, Grant Specialist- Advanced, DEHCR  
Mark Staff, Deputy Division Administrator, DEHCR  
Cindy Frankiewicz, Fiscal Section Chief, DEHCR

**Critical Wisconsin Transmission Bill Needs our Support**

I have discussed in previous editions of this memo an important energy policy measure that would help keep electric transmission costs down for WPPI members. With significant grid expansions planned across our region, some out-of-state entities are greatly interested in owning this new infrastructure in Wisconsin. They are lobbying heavily for the right to do so. Fighting back on this is clearly in the best interest of the communities WPPI serves, which is why we are actively advocating for the “Right of First Refusal” (ROFR) in Senate Bill 28 / Assembly Bill 25.



***Keeping Costs Down for Your Customers***

ROFR would ensure that incumbent utilities such as American Transmission Company – in which WPPI is a partial owner – have the first opportunity to own the new projects in their footprint. This matters greatly for our ability to keep wholesale power costs down for our members.

The savings provided to our members because of WPPI’s participation as a transmission owner through ATC are significant: over the past three years, the return on our investment in ATC has averaged over \$9 million per year. These dollars flow directly back to WPPI members and their customers in the form of lower wholesale power costs. Without ROFR, we will still incur our share of the costs for the new projects not owned by ATC, but we will receive none of the returns that help limit those impacts for customers.

***Keeping the Lights On***

ATC is also a trusted, Wisconsin-based partner providing a critical service: safe and reliable bulk delivery of electricity. They are invested in and responsive to Wisconsin communities, businesses, stakeholders and WPPI member utilities. If we have any issues in delivering our generation resources to our load, we know exactly who to call at ATC. Unlike out-of-state entities with no vested interest here beyond a single project, ATC is not here today and gone tomorrow.

ATC should own these projects because they are responsive and collaborative in seeking beneficial outcomes and providing safe and reliable electricity for the long term.

***Fighting for Our Communities***

Our active support of ROFR is based on the simple premise that all of Wisconsin – and all WPPI member communities – benefit when ATC owns transmission lines.

At a public hearing on Tuesday, I testified at a joint session of the Wisconsin State Senate Committee on Utilities and Tourism and the Assembly Committee on Energy and Utilities about the indisputable cost savings that this measure would deliver. I’ve included a link to the recording below.



I suspect that one of the few people with the appetite to watch the entire four-plus hours is Joseph Owen, WPPI’s senior director of government affairs. For the rest of us who would prefer the ten-minute take, you can view the testimony from Marshfield Utilities General Manager Nick Kumm and myself by skipping to the 1:18:00 timestamp in the video, which is available here: <https://wiseye.org/2025/03/04/senate-committee-on-utilities-and-tourism-and-assembly-committee-on-energy-and-utilities/>

A signal of how controversial this bill has become is that 11 legislators registered in opposition at the public hearing, which is almost unheard of. All Wisconsin legislators are aware of the bill,



and as you may be able to tell from some of the tone during the hearing, they are tired of hearing about this issue from every lobbyist in Dane County that owns a suit and tie.

➤ *What WPPI Member Utility and Community Leaders Can Do.*

This is not an occasion on which we would ask you to make another call or formal trip to Madison; however, we know that many of you talk to your legislators often as part of more casual interactions in the community. So, should you run into your Wisconsin state senator or assembly representative and have the opportunity, I would encourage you to simply remind them that community-owned utilities like yours strongly support the measure.

**More information**

Joseph Owen, 608-207-0719,  
[jowen@wppienergy.org](mailto:jowen@wppienergy.org)

**Another Successful APPA Legislative Rally**

Meeting with federal legislators in the nation’s capital helps ensure that our elected policymakers keep WPPI member communities’ needs in mind as they decide on energy policy issues.

Thank you to the 42 attendees from 22 member communities who attended this year’s Annual Legislative Rally of the American Public Power Association.

WPPI member utility and community leaders from Wisconsin, Iowa and Michigan met directly with legislators to discuss tax exempt bonds, ensuring municipally owned utilities have access to the same cost saving mechanisms that for-profit utilities use, streamlining the regulatory backlog on building critical grid infrastructure, and ensuring that tariffs on raw materials don’t exacerbate supply chain constraints on distribution transformers.





# City Council Community Listening Session

Wednesday, February 19, 2025 06:00 PM

Lester Public Library, 1001 Adams Street, Two Rivers, WI 54241

**1. CALL TO ORDER**

Council President Stechmesser called the meeting to order at 6:00 PM.

**2. ROLL CALL BY CITY CLERK**

Councilmembers: Scott Stechmesser, Shannon Derby, Mark Bittner

**3. PUBLIC COMMENT**

Discussions/Comments/Questions provided by members of the public.

**4. ADJOURNMENT**

Motion to dispense with the reading of the minutes of this meeting and adjourn this meeting at 8:00 PM.

Motion carried with a voice vote.

Motion made by Derby seconded by Bittner

Voting Yea: Bittner, Derby, Stechmesser

Respectfully submitted,

Scott Stechmesser  
President City Council



**TWO  
RIVERS**  
WISCONSIN

# COMMITTEE ON AGING

Tuesday, February 04, 2025 at 8:30 AM  
Senior Center Library - Senior Center 1520  
17th Street, Two Rivers, WI 54241

## NO QUORUM

**1. CALL TO ORDER**

**2. ROLL CALL**

Jackie Ackerman, Virginia Coffman, Kyle Korinek, Kim Graves, Lenore McDonough, Pamela Stephens, Jerome Schubring, Jo Anne Yungerman, Bill LeClair

**3. MINUTES**

**4. INPUT FROM PUBLIC**

**5. CORRESPONDENCE AND PRESS**

**6. COMMITTEE REPORTS**

A. Aging and Disability Resource - Wendy Hutterer

B. City Council - Mark Bittner

C. Recreation Department Programs - Mike Mathis

D. Senior Center - Heather Ihlenfeldt

E. TRIAD

F. Two Rivers School District

**7. NEW BUSINESS**

**8. CONTINUING BUSINESS**

**9. ADJOURNMENT**

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# COMMITTEE ON AGING

Monday, March 03, 2025 at 8:30 AM  
Senior Center Library - Senior Center 1520  
17th Street, Two Rivers, WI 54241

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## MINUTES

### 1. CALL TO ORDER

- a. Approval of January Minutes
  - i. Motion Jerome Schubring
  - ii. 2<sup>nd</sup> Kim Graves

### 2. ROLL CALL

Kim Graves, Betty Bittner Kyle Korinek, Kim Graves, Ruth Kadow Pamela Stephens, Jerome Schubring, Jo Anne Yungerman, Mark Bittner

### 4. INPUT FROM PUBLIC

### 5. CORRESPONDENCE AND PRESS

Mark commented on Mike and Heather being nominated for the Young Professional of the Year in Manitowoc county

### 6. COMMITTEE REPORTS

#### A. Aging and Disability Resource - Wendy Hutterer

Elevator at Michigan Ave. Location is fully operational

Lashawn Crain has fully moved into Business Manager Role

Myvote.wi.gov for all your voting information for April

Legis.wisconsin.gov to find out who your legislature is and how to contact them

Reminder to follow ADRC Facebook page, visit our website or listen to us Mondays at 11:35 on WOMT for the ADRC insider

#### B. City Council – Mark Bittner

Listening session went well learned council needs to do a better job with communication to citizens, Work session involving STR's (short term rentals) create ordinances to protect citizens, set capacity maximums, licensing etc.

City Manager search continues. Encouraged citizens to take survey looking for key attributes for a new City Manager

Elevator at City Hall not working-community meeting held elsewhere such as Library or Community House

Candidate Forum March 6<sup>th</sup> in Community House Koska Room at 6:30

C. Recreation Department Programs - Mike Mathis

Update on Open Positions

- Full Time Maintenance
- Forestry Youth Apprenticeship
- Seasonal Staff

- Upcoming Adaptive workshop
- Great Neshotah Beach Campout to benefit TRPSD Angel Fund
- Sign ups for summer programs opening
- Arbor Day Event April 26<sup>th</sup>
- Packers' foundation grant
- Polar Bears coming back-adult wood bat league

D. Senior Center - Heather Ihlenfeldt

Heather went through Senior Center report for January and February

January Report Two Rivers Senior Center

- Rides: 274
- Meal Delivery: 1,371
- Average Daily Attendance: 92.05
- Program Stats:
  - Fitness: 376 participants
  - Congregate meal: 127
  - Total Member Check in for January: 2,198

February Report Two Rivers Senior Center (as of 2.24)

- Rides: 291
- Meal Delivery: 1,434
- Average Daily Attendance: 94.56
- Program Stats:
  - Fitness: 382 participants

Congregate meal: 96

Total Member Check in for January: 1,712

\*Heather appointed to TRBA and elected Secretary

\*AARP Tax Aide Program in-person appointments already full

Pie and Soup Sale Coming soon

E. TRIAD

Continues to sell Car Wash Cards 5 washes for \$36

Also Available at TRSC

K9 fundraising

Wrap system for combative individuals

Active Shooter training

Bigs and Badges

Coffee with a Cop

F. Two Rivers School District

7. NEW BUSINESS

**Auxiliary- Cell Plus** fundraiser in April to benefit girls state (civics camp)

Continue selling Kwik Trip Gift cards for \$20 and \$10 at the Senior Center

8. CONTINUING BUSINESS

**Next Meeting April 7<sup>th</sup> at 8:30 am**

9. ADJOURNMENT

**Motion: Jerome**

**2<sup>nd</sup> Betty**

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**TWO RIVERS**  
WISCONSIN

# LIBRARY BOARD MEETING

Tuesday, February 11, 2025 at 6:00 PM  
Community Room - Lester Public Library  
1001 Adams Street, Two Rivers, WI 54241

## MINUTES

1. **CALL TO ORDER** – President Pennefeather called the meeting to order at 6:00 PM.
2. **ROLL CALL**  
Board Members Present: David Pennefeather, Shannon Derby, Don Weiss, Kathryn Gadd, Katie Stone, Sharon Sleger, and Stanley Palmer. Absent and excused - Mary Glaser and Ned Guyette. Also present: Chris Hamburg, Adult Services Coordinator, and Jeff Dawson, Director
3. **PUBLIC COMMENT** - None
4. **APPROVAL OF BOARD MEETING MINUTES**  
Motion to approve the minutes from the January 14, 2025, meeting, made by Palmer, second made by Weiss. Voice vote carried unanimously.
5. **RECEIVE AND FILE EXPENDITURE AND FINANCIAL REPORTS**  
Motion to receive and file the expenditure and financial reports from January 2025, made by Weiss, second made by Gadd. Voice vote carried unanimously.
6. **BOARD MEMBER COMMENT**  
Derby noted the City Council Listening Session will be held at the library fireplace, February 19. Pennefeather likes the ‘read a book create a craft’ challenge, and that he had built a canoe using a book he checked out from the library. Stone participated in the craft as well and has a knit mouse proudly on display.
7. **DIRECTOR'S REPORT**  
Dawson fielded questions and comments concerning his report.
8. **COMMUNICATIONS**  
A. Library Newsletter – February 2025
9. **REPORT FROM CITY COUNCIL REPRESENTATIVE**  
A wood-fired pizza restaurant will open soon. Taco Bell will build in Two Rivers. Derby fielded questions from board members.
10. **REPORT FROM SCHOOL DISTRICT REPRESENTATIVE** – No Report
11. **REPORT FROM COUNTY REPRESENTATIVE**  
Health and Human Services budget shortfall were not as bad as expected. Bertram Communications’ application for broadband expansion in Manitowoc County was endorsed. Laurie Heier retired from the County Clerk’s office after 53 years with the county.
12. **UNFINISHED BUSINESS**  
A. Motion to approve amended Meeting Room Policy with additional recommended changes made by Derby, second made by Sleger. Voice vote carried unanimously.

**13. NEW BUSINESS**

- A. Approve the library’s annual report with corrections and allow President Pennefeather to sign the final version made by Palmer, second made by Derby. Voice vote carried unanimously.
- B. Reviewed end of year, 2024 financial statements. Dawson answered questions from the board.
- C. Motion to approved allocating funds, \$4,000.00, from the Edward Jones Gift Account, to balance the 2024 budget made by Weiss, second made by Gadd. Voice vote carried unanimously.
- D. In lieu of forming a nominating committee for next year’s officers, President and Vice President, it was agreed the slate to be voted on at the March 2025 meeting will be Sleger, President and Gadd, Vice President.
- E. Board Terms were reviewed, Guyette has agreed to serve the second of his allotted three terms. With Pennefeather’s third term ending, the board will have a vacant seat to fill in May. Dawson noted there were at least two applications sent to the City Manager’s office. The City Manager appoints citizens to the library board.

**14. BOARD EDUCATION – None**

**15. CLOSED EXECUTIVE SESSION – None**

**16. ADJOURNMENT**

Motion to adjourn made by Sleger, second made by Gadd. Voice vote carried unanimously.  
Meeting adjourned at 7:44 PM.

Respectfully submitted by Jeff Dawson, Director





**TWO RIVERS**  
WISCONSIN

# ENVIRONMENTAL ADVISORY BOARD MEETING

Tuesday, February 18, 2025 at 5:30 PM

Council Chambers - City Hall, 3rd Floor  
1717 E. Park Street, Two Rivers, WI 54241

## MINUTES

1. **CALL TO ORDER:** 5:30 pm

2. **ROLL CALL**

**Board Members Present:** Darla LeClair, Tracey Koach, Donald DeBruyn, Corinne Weis, Heather Gross, John Tillotson

**Excused:** Douglas Brandt

**Staff & Others:** Matthew Heckenlaible, Scott Ahl

3. **REVIEW AND APPROVAL OF MINUTES**

Minutes from the December 17, 2024, Environmental Advisory Board meeting.

Donald DeBruyn made a motion to accept the December 17, 2024, Environmental Advisory Board meeting minutes as discussed, seconded by John Tillotson. Motion carried.

4. **PUBLIC INPUT** – N/A

5. **COMMITTEE BUSINESS: MEMBER UPDATES**

A. **Chairperson - Discussion and Action, if required**

Darla LeClair noted that she had been extremely busy and contemplated stepping down as chairperson. Things have tapered off and she is willing to continue serving as chair but would also be open to having another committee member take over if they had the desire to. Additional discussion occurred resulting in no change to the chairperson’s position; but committee members noted that if Darla required assistance, to reach out and they would be willing to assist as best they could.

6. **NEW ITEMS FOR DISCUSSION AND ACTION, AS NEEDED**

A. Darla LeClair noted that she was contacted by NPR (National Public Radio) regarding our front yard gardening ordinance and the right to garden legislation that was proposed in SB-37 (2025). Director Heckenlaible read a summary of the proposed senate bill.

7. **ONGOING ITEMS FOR DISCUSSION AND ACTION, AS NEEDED**

A. **2024-2025 Winter Educational Series**

March 13, 2025 - What Would You Do? - Keeping Wildlife Wild  
April 10, 2025 - Light Pollution and Animal Confusion

Darla LeClair noted that this season’s educational series has been a challenge and miscommunication has been a large obstacle to overcome. There will be a change to the April presentation with the Light Pollution and Animal Confusion presentation being delayed to the 2025-26 season and replaced with a presentation overview about the Lakeshore Natural Resource Partnership (LNRP). LNRP is a great resource and has partnered with the City in the past.

Darla will confirm both the March and April dates with library staff.

**B. EAB City Posted Video Library update**

Darla LeClair now has full access to all of the past videos again but put the editing of some of the unfinished videos on pause so she could manager other priorities. She will get back to them as her schedule allows.

**8. TREE/FORESTRY/POLLINATOR INITIATIVES**

Mike Mathis was not present to speak on these topics but did provide brief written comments to Director Heckenlaible prior to the meeting. Not all items may be applicable or fully addressed.

**A. Urban Forestry Grant update**

1. Park & Recreation is finalizing details with Lester Library and Koenig Elementary regarding youth forestry programs. They hope to have clear direction by the March meeting.
2. Faith in Place Grant  
In partnership with Grace Congressional Church, we were notified that we will be receiving a \$15,000 grant through the Faith in Place program. This will fund a forestry youth apprentice and trees for Washington Park. However, because of changes at the federal level, the grant is indefinitely on hold.

**B. Arbor Day Grant update**

Park & Recreation has confirmed an Arbor Day event at the Library.

Arbor Day Celebration, Saturday, April 26<sup>th</sup> from 10 am to 12 pm at the Lester Public Library. All families are welcome.

**C. Lake Michigan Bird Observatory Grant update – No update.**

**D. Paddlers Park update**

Park & Recreation staff received positive feedback from the WI DNR Coastal Management program about the City’s grant request for improvements. Hopefully, we will be moving forward with this in the fall of 2025.

**E. NFWF, Great Lake and St. Lawrence Cities Initiative Grant update**

This project is temporarily on hold to determine if recently signed Presidential Executive Orders will have any long term funding impacts to this project along the Lake Michigan shoreline.

**F. Neshotah Beach Project(s) update**

There are a lot of projects proposed within Neshotah Beach park area in 2025.

**9. OTHER ITEMS THAT MAY COME BEFORE THE BOARD, WITH CONSIDERATION AND ACTION, IF NEEDED**

Corinne Weis stated that she recently attended a program featuring the Wild Ones in the Fox Valley area and provided hand outs to the committee related to “Native Trees Feed Caterpillars that Feed Birds” along with an order form for “2025 Native Plant, Tree & Shrub Sale”.

Heather Gross inquired if the group was planning anything related to Earth Day on April 22<sup>nd</sup>. As an advisory board, no planning activity has taken place but looking to see if there is a possibility of partnering with other groups. Members were going to reach out to other groups about potential opportunities.

**10. SET DATE, TIME, AND AGENDA ITEMS FOR NEXT BOARD MEETING**

Proposed for Tuesday, March 18, 2025, at 5:30 pm.

Note: Due to City Hall elevator repairs taking place late February through the majority of March, there will most likely be a change of venue. Watch the agenda for the updated location.

**11. ADJOURNMENT: 6:23 pm**

Corinne Weis made a motion to adjourn the meeting, seconded by Tracey Koach. Motion carried.

Respectfully submitted by: Matthew R. Heckenlaible  
Public Works Director/City Engineer



**TWO RIVERS**  
WISCONSIN

# PUBLIC UTILITIES COMMITTEE MEETING

Monday, March 03, 2025 at 5:00 PM

Lester Public Library Webster Room, 1001  
Adams Street, Two Rivers, WI 54241

## MINUTES

1. **CALL TO ORDER:** 5:00 pm

2. **ROLL CALL**

Committee Members: Tim Petri, Darla LeClair, Shannon Derby

Staff & Others: Matthew Heckenlaible, Scott Ahl, Dave Casebeer, Andrew Sukowaty

3. **REVIEW AND APPROVAL OF MINUTES**

Approval of the minutes from the February 3, 2025, Public Utilities Committee meeting

Shannon Derby made a motion to approve the February 3, 2025, Public Utilities Committee meeting minutes, seconded by Darla LeClair. Motion carried.

4. **PUBLIC INPUT** – N/A

5. **CONSTRUCTION PROJECTS**

A. **Harbor Street, 16th Street and Emmet Street (2025)**

Per preliminary discussions with the WDNR, they believe, but have not confirmed, that they will have appropriate funding. Based on that information along with advice from our consultant that if the funding should be confirmed, the city would still need to meet the WDNR deadline for awarding and executing contracts and returning them to the WDNR by the end of May, 2025. Therefore, this project is out for bid to be opened on March 20<sup>th</sup>. The intent is not to award for several weeks (end of April) to allow time for the special assessment process to occur.

B. **2025 East Side Scattered Lead Service Lateral Project**

We are pushing forward and anticipate to advertise for this project the last week of March with bid opening approximately mid-April. Staff has identified approximately 150 private side water services that will be required to be replaced; however, there are closer to 200 public side water services in the same area. Hopefully contract prices along with project contingencies will be sufficient to cover these additional public side water service costs or they will need to be addressed in a future contract.

6. **WASTEWATER UTILITY: UPDATES AND ACTION**

A. **Riverside Foods update**

During the last week of February, we received a week’s worth of sampling data from Riverside Foods. The BOD and SS values are considerably higher than 2023’s sampling and is also much higher than acceptable city ordinance limits.

Riverside Foods requested a preliminary calculation of what their new sewer billing amount would look like based on these recent samples as both a Category A and Category B customer. Those values have been supplied to them and they are digesting the information and determining where to go from here.

Next meeting with Riverside Foods is scheduled for March 20<sup>th</sup>.

**B. Waste Pump Replacement update**

As previously noted, one of the 70-year old waste pumps has failed. Staff looked into possibly having it repaired, but there are no parts available. The only option is to replace. Because the other pump is just as old, it was determined to replace both pumps at the same time and keep the old functioning pump as a spare. We are presently managing to operate the final treatment processes on just one pump but should be back up and running normally in a few weeks.

**7. ELECTRIC AND TELECOMMUNICATIONS UTILITIES: DIRECTOR UPDATES AND ACTION IF APPLICABLE**

Brian Dellemann was not able to attend the meeting – no update provided.

**8. WATER UTILITY: DIRECTOR UPDATE, DISCUSSION AND ACTION AS NEEDED**

**A. Public Notice Response**

Letters were sent out to everyone primarily addressing the inventory classification that was deemed deficient for the reviewing authority. Most responses the water utility received were property owners who did not previously receive a letter regarding their water service inventory classification because they were compliant and did not have a lead water service. Once this was explained to them, they were satisfied.

**B. Service Inventory update**

The inventory clarifications were completed last week with the assistance of the WDNR’s consultant. The water utility expects to resubmit it back to the WDNR later this week. The water utility expects that they will need to notify an additional 1,000+/- property owners that had their service listed as “unknown” on the private side services. The water utility will need to investigate to determine if the services are compliant or noncompliant. They will send 25 percent of the letters each week for the next four (4) weeks.

**C. Staff update**

The water utility found an operator candidate who has accepted the offer and will start work the week of March 10<sup>th</sup>.

**D. Run Water Notice update**

If water services freeze, the Public Service Commission requires the water utility to thaw out the service one time and then provide them with a Run Water Notice. If the water service freezes again after they were provided with the notice, the water utility can charge the property for costs associated with thawing out the service.

Once the property has been served a Run Water Notice, the water billing method is based on past average usage and not on actual usage during that time period. The water utility absorbs those costs as water loss.

**9. STORM WATER UTILITY: UPDATES AND ACTION AS NEEDED**

**A. WDNR Annual Report**

A final review of the annual stormwater report needs to be completed prior to presentation to city council at the March 17 meeting where a request to sign and submit the report to the WDNR is required. The report outlines what the city has done regarding educating the public about stormwater and how the city manages other aspects of the permit such as street sweeping, picking up leaves, minimizing salt usage and erosion control measures during construction, etc. One big goal in the upcoming years will be the implementation of other best management practices to further reduce total suspended solids and phosphorous from stormwater runoff.

The consultant is wrapping up a few of the individual drainage basin models based on developments that occurred over the years as tasks within the Urban Non-Point Source Storm Water Grant. The consultant believes that we should be able to review the modeling results in a few weeks.

**10. SOLID WASTE UTILITY: UPDATES AND ACTION AS NEEDED**

**A. Landfill update**

DPW staff addressed ice and overland water flow conditions at the landfill. The ice was hauled back to the wastewater plant to melt and be treated. The on-site liquid has either been vacuumed and disposed of within the sanitary sewer collection system or pumped directly into the sanitary sewer where it will be treated at the wastewater plant.

The City did receive a letter from the WDNR regarding the overland flow situation back in January and we need to supply them with responses and an update prior to March 17, 2025.

The contract has been awarded, executed and will commence construction towards the early part of next week, weather permitting. It is anticipated that it will take approximately a week to complete the work assuming that the weather holds out.

**11. ANY OTHER ITEMS OR ISSUES TO COME BEFORE THE COMMITTEE, WITH DISCUSSION AND ACTION – N/A**

**12. SET DATE, TIME, LOCATION, AND AGENDA ITEMS FOR NEXT COMMITTEE MEETING**

Proposed for April 7, 2025, at 5:00 pm depending upon potential new committee assignments with location to be determined based upon status of City Hall elevator repairs.

**13. ADJOURNMENT: 5:36 pm**

Darla LeClair made a motion to adjourn the meeting, seconded by Shannon Derby. Motion carried.

Respectfully submitted by: Matthew R. Heckenlaible  
Public Works Director/City Engineer



**TWO RIVERS**  
WISCONSIN

# SPECIAL PUBLIC WORKS COMMITTEE

Wednesday, March 05, 2025 at 4:45 PM

**PUBLIC WORKS SHOP (Near Wastewater)**  
1415 Lake Street, Two Rivers, WI 54241

## MINUTES

1. **CALL TO ORDER:** 4:45 pm

2. **ROLL CALL**

Committee Members - Present: Scott Stechmesser, Doug Brandt

Excused: Bill LeClair

Staff and Others: Matthew Heckenlaible, Scott Ahl

3. **TOUR, DISCUSS PROPOSED REPAIRS AT PUBLIC WORKS FACILITY**

- Office, storage, restroom, lunchroom portion of shop area built pre-1933.
- Mechanic shop and south large truck barn were built in 1969.
- North truck garage (barn) was built in 1990.
- In winter 2022-2023, a portion of the roof on the south barn blew off and was temporarily repaired.
- We have also had furnaces and water heaters go out in the past three (3) years.
- As the roof was being repaired, staff was told that the roof needed a total replacement.
- Other deficiencies were identified and staff requested Hamann Construction look at and provide DPW with a preliminary budget to address the source of the deficiencies.

➤ **Service Doors**

- Remove and replace nine (9) hollow metal service doors, frames and hardware.
- Several doors do not open or are hard to open.
- Fire department did a recent inspection and we received a “fail” as some of the doors or hardware were not easily usable in the event of a fire.
- In January, the door handle to the lunch room broke off (replaced).

➤ **Overhead Doors**

- Proposed to remove and replace ten (10) doors with new openers with safety eyes and weather stripping.
- DPW’s opinion is that the doors are adequate.
- Replace openers with safety eyes.
- Replace/install weather stripping.

➤ Repair columns around the E/S shop – at least two (2) and as many as seven (7)

➤ **Roof Replacement**

- Large south garage \$167,400
- Mechanic shop \$ 54,500
- Office, storage, restroom, lunchroom \$105,100
- Total \$327,000

- **Total Estimate** **\$468,950**
- Roofs \$327,000
  - Balance for other repairs \$141,950

➤ **ADDITIONAL NOTES**

- In January, the large scrubber/air handler failed. This is used to clear the air of exhaust in garage areas.
  - ★ \$25,000+/- to replace – in the works
  - ★ \$900 +/- to extend 3-phase power to new unit
  
  - ★ Air handler in mechanic bays should be replaced
  - ★ New air handler should be installed in north, new truck garage
- These costs were not accounted for in Hamman’s original repair estimate.
- Potential cost savings
  - ★ Do not replace overhead doors
  - ★ Only replace openers and add electric safety eyes
  - ★ Weather stripping
  - ★ Some of the items could potentially be completed by DPW staff

Further discussion is intended to occur at the regular, March 5, 2025, Public Works Committee meeting at 5:30 pm in the Koska Room in the Community House.

**4. ADJOURNMENT:** 5:10 pm

Doug Brandt made a motion to adjourn the meeting, seconded by Scott Stechmesser. Motion carried.

Respectfully submitted by: *Matthew R. Heckenlaible*  
Public Works Director/City Engineer





**TWO RIVERS**  
WISCONSIN

# PUBLIC WORKS COMMITTEE

Wednesday, March 05, 2025 at 5:30 PM

Koska Room - Community House, 1520  
17th Street, Two Rivers, WI 54241

## AGENDA

- 1. **CALL TO ORDER:** 5:30 pm
- 2. **ROLL CALL**  
Committee Members: **Present** - Scott Stechmesser, Doug Brandt; **Excused** - Bill LeClair  
Staff and Others: Matthew Heckenlaible, Scott Ahl

- 3. **REVIEW AND APPROVAL OF MINUTES**  
 Minutes from the February 5, 2025, Public Works Committee meeting

Doug Brandt made a motion to approve the February 5, 2025, Public Works Committee meeting minutes, seconded by Scott Stechmesser. Motion carried.

- 4. **PUBLIC INPUT**

**Adam Coshow, 2540 45<sup>th</sup> Street, Two Rivers**

Mr. Coshow wished to discuss the invoice that he received for the clearing of the minimal snow that was on his sidewalk from the January 12-13, 2025, snow event. He requested information related to the complaint including who the complainant was. He stated that all the invoices could not have the same cost because the ordinance states reasonable costs and based upon that, each invoice should be charged separately. There should be a definable amount of snow. Is equipment charged the actual cost to run the equipment? Finally, is there a formal process to dispute the invoice?

He contested that the breakdown provided to him has unsubstantiated costs, the entire invoice has no basis and his, along with everyone else's invoices, should be voided. He contested that since there was no complaint on record he should not have to pay the charge for processing the complaint. He was at home when the DPW piece of equipment came through and performed the work, so he knows the travel time is not legitimate as they came from across the street. He also contests the time to process, document, and discuss these invoices is also unsubstantiated as it relates to his invoice.

He feels that if DPW was to perform work in the future that notice should be provided along with minimums such as minimum amount of snow and minimum cost spelled out in the ordinance.

**Justin & Taylor Molanders, 1417 21<sup>st</sup> Street Two Rivers**

The Molanders stated that they called city hall and were told that photos were not available to the public. Taylor Molanders came to DPW/Engineering in person and Director Heckenlaible freely shared and provided copies of the photos with her. They too wished to dispute the sidewalk snow removal invoice for the minimal amount of snow that was on the sidewalk. They feel that the ordinance is not clear and should state how much is acceptable to have and that it should state what a minimum charge should be. They were also concerned that if they did not pay the invoice that a lien would be placed onto their property.

After the Public Input portion of the agenda there was some minor dialogue between committee members, public and staff.

## 5. NEW ITEMS

### A. Snow Sidewalk Clearing

Director Heckenlaible addressed some concerns raised by the two property owners present along with those owners who wrote letters (5) to contest their invoices. The invoice payment due date is still net 30, which if not paid by March 14<sup>th</sup>, can be rolled onto their tax bill as a special charge. It should be noted that if the invoices do roll onto property taxes as a special charge, that special charge is paid off first prior to the payment of taxes.

Letters were received from the following properties:

- 1922 Adams Street
- 613 22<sup>nd</sup> Street
- 1813 22<sup>nd</sup> Street
- 1417 21<sup>st</sup> Street
- 1611 18<sup>th</sup> Street

Director Heckenlaible is not aware of any formal dispute process, so he is utilizing past experience that it would be taken to the department's oversight committee and then potentially city council for formal action.

The \$71.72 invoice charge was revised after the January 12-13, 2025, snow event. It was revised because in January 2023, Director Heckenlaible developed a justification of the charges based on the current process in place at the time and assigned rates and estimated times per task to produce the original cost of \$167.75. This rate included the police department investigating the complaint, tagging the property, reinspecting the property and creating a list of noncompliant properties, etc. The current process has significantly reduced the police department's role in the process and, as such, reduces the billable rate to the \$71.72 that was invoiced. The current rate is an average cost based upon actual time spent plowing and reasonable travel time as well as processing the associated photos and documentation necessary to produce the invoices.

Why are we cracking down on noncompliance this winter season? In the early part of the 2024-25 winter season, we received numerous complaints regarding unshoveled sidewalks. Senior city staff discussed the issue with our legal counsel to determine the course of action to be taken. We provide a published notification in the Herald Times Reporter (our official newspaper), that is the only notice the city is required to provide. After each winter event, the city opted to provide additional general notices on the City's Web and Facebook pages that the snow ended and sidewalks need to be cleared by within 24 hours after the snow stopped. If sidewalks were not cleared, DPW crews would address areas with complaints. These areas include around the elementary and middle schools, the downtown area, the MMT bus routes and areas where a larger presence of pedestrian traffic may exist such as churches, grocery stores, restaurants, clinics, etc.

Director Heckenlaible reviewed the criteria of how DPW addresses street plowing along with sidewalks managed by DPW. He also noted that vehicular traffic is better equipped to traverse snow covered roadways than pedestrians, especially mobility challenged individuals, are on snow and ice-covered sidewalks. If there is snow or ice on roadways, motorists need to adjust their driving habits appropriately. Pedestrians do not have that option.

Sidewalks are not only governed by City Municipal Code, Section 4-1-6, but also under State Statute section 66.0907(5)

“SNOW AND ICE. The board of public works shall keep the sidewalks of the city clear of snow and ice in all cases where the owners or occupants of abutting lots fail to do so, and the expense of clearing in front of any lot or parcel of land shall be included in the statement to the comptroller required by sub. (3)(f), in the comptroller’s statement to the city clerk and in the special tax to be levied. The city may also impose a fine or penalty for neglecting to keep sidewalks clear of snow and ice.”

Director Heckenlaible noted that past practice was an arbitrary \$50 flat fee charged to clear sidewalks. There was no substantiated basis for this charge. The \$71.72 rate is based on actual time spent clearing the sidewalks along with estimated travel duration (not the furthest distance nor the shortest distance) along with approximate and reasonable times associated with processing the data and information to generate the invoices. It was suggested that all the invoices should be voided because they didn’t represent actual times and just estimated durations. The amount of extra time and effort that it would have taken to track the actual time for each individual noncompliant property would have increased the total time and as such, would have increased the amount due. The method utilized in the opinion of the Director, was the most fair and equitable for all.

Discussion with the committee members occurred.

Scott Stechmesser – Did the attorneys review the charges as prepared? No

Doug Brandt – Feels that the charges are reasonable.

Scott Stechmesser made a motion that no further action would be taken on any unpaid invoices and to extend the net payment term to 90 days to facilitate that and to table this discussion until the next Public Works Committee meeting. The motion was seconded by Doug Brandt. Motion carried.

**6. ONGOING PROJECT STATUS AND ACTION, IF NEEDED**

**A. Sandy Bay Highlands Phase 3 update**

With the recent heavy rains there were reports of water flowing over the gravel roadway of Orchard Lane. Therefore, public works was instructed to place barricades to keep vehicles off the roadway to protect the investment that the city has made into this new subdivision.

**B. Harbor Street, 16th Street and Emmet Street Reconstruction**

Per preliminary discussions with the WDNR, they believe, but have not confirmed, that they will have appropriate funding. Based on that information along with advice from our consultant that if the funding should be confirmed, the city would still need to meet the WDNR deadline for awarding and executing contracts and returning them to the WDNR by the end of May, 2025. Therefore, this project is out for bid to be opened on March 20<sup>th</sup>. The intent is not to award for several weeks (end of April) to allow time for the special assessment process to occur.

**C. Pierce Street**

Park & Recreation had secured funds to improve bike & pedestrian accommodation along with additional parking focusing on the Pierce Street corridor. A plan view of the proposed parking and trails along with the repaving of Pierce Street was presented to the committee. It was noted that the construction plans are about 60 percent complete and hoping to be finalized so that the road paving portion of the project can be completed before Memorial Day.

**D. Public Works Shop Repairs – Discuss / Recommendation**

As discussed during the tour of the public workshop/campus, the majority of the roofs as well as all of the service doors need to be replaced. The quotation by Hamann Construction proposed having all overhead doors and openers replaced with new openers with obstruction safety eyes included, along with repairs to some of the vertical, structural columns in the 1969 portion of the shop. The estimate that Hamann Construction provided to complete that work was for \$468,950 in August of 2024. Along with that work, there was a proposal to add security and monitoring at the DPW campus for an additional \$25,000. The original request for DPW facility improvements was \$500,000, however that amount was reduced by \$25,000 leaving a total of \$475,000 to make all of those improvements.

Since then, there have been some heating and ventilation failures, especially in the large southerly garage where the air scrubber (air cleaner) has failed and is estimated to cost around \$27,000 to replace. That air scrubber has been ordered and will be replaced this winter season.

During the tour, Director Heckenlaible noted that the overhead garage doors are for the most part, in good condition. Doug Brandt had inquired whether they were insulated and upon inspection it appears that they are. By not replacing the doors, but just the openers with safety eyes, it is anticipated that there will be enough savings to complete all the other necessary work.

The roof replacement would also be tied into a roof replacement project for the waste water treatment plant. Hoping for a cost savings by combining all roof replacements under one project.

Scott Stechmesser made a motion to proceed with identified and necessary shop and campus repairs/improvements including structural column repairs, service entry door replacement, overhead door opener with safety sensors and weather stripping, window replacement, sealing up exterior siding, roof replacement, heating and ventilation replacements, salt and sand shed deficiencies and site security and monitoring improvements to be completed utilizing the \$475,000 budget allocation.

**7. PROPERTY OWNER REQUESTS - N/A**

**8. DISCUSSIONS OR ISSUES ON HOLD, PENDING FURTHER INVESTIGATION**

**A. Sidewalk Maintenance Clearance Requirements**

The Attorneys have reviewed and provided a few minor wording modifications for additional clarity towards intent. Staff recommendation would be to forward to city council for formal action and adoption of the proposed revisions.

Doug Brandt made a motion to approve the proposed ordinance language and forward them to city council for formal adoption, seconded by Scott Stechmesser. Motion carried.

**B. Dumpster Permit Requirements**

The Attorneys have reviewed and provided a few minor wording modifications to provide additional clarity towards intent. Staff recommendation would be to forward to city council for formal action and adoption of the proposed revisions.

Scott Stechmesser made a motion to approve the proposed ordinance language and forward them to city council for formal adoption, seconded by Doug Brandt. Motion carried.

**C. Driveway/Approach Ordinance Revisions – No update**

**D. Pavement Repair Policy – No update**

**9. COMMITTEE AND COUNCIL MEMBER ITEMS FOR DISCUSSION, INCLUSION IN FUTURE AGENDA AND ACTION, IF NEEDED**

Topics from the February 19, 2025, Council Listening Session:

**A. Claim that the power pole at 14<sup>th</sup> Street and Hawthorne Avenue continually gets hit by vehicles and they drive off.**

This topic was brought up and discussed at the February 7, 2024, Public Works Committee meeting. There have been no reported incidents to the police department and the electric utility checked the pole and there was no apparent damage at that time.

I did visit that location on the morning of March 4, 2025, and did see a minor scuff in the southwesterly portion of the power pole along with some minor debris present. The original request (2024) to install a beam guard rail in that area is still not practical for that configuration in my opinion.

**B. Does the speed limit on Mishicot Road between 45<sup>th</sup> Street and 41<sup>st</sup> Street need to be 35 mph?**

History from a citizen was that it used to be a 2-way stop at 45<sup>th</sup>/CTH VV and Mishicot Road (STH 147), so reducing the speed limit from 55, to 45, to 35 made sense.

Clarification needed: Are they asking that the speed limit be increased or decreased through that area? In either case a speed study would need to be completed to determine what the appropriate speed limit should be.

Scott Stechmesser clarified that the desire was to look at reducing the speed from 41<sup>st</sup> street to 45<sup>th</sup> Street. A consensus of the committee was to further investigate and look at completing a speed study.

**C. Snow removal around corners, can it be pushed down the street more?**

I have been working with DPW streets on this for the past three (3) winter seasons. In my opinion, it is improving but there is still progress to be made.

**D. Can snow removal around businesses be done better? (Cozy B's and Cristina's as examples)**

From my perspective, the examples given are two different situations of snow impacting businesses. One has on-street corner parking while the other is on a more major thoroughfare with limited parking on either side of the street. Both have paved terraces and are on routes that for a snowfall less than 4-inches, snow is plowed to the curblin onto the paved terraces which inhibits parking due to piled snow.

DPW did have a discussion with the owner of Cozy Bs in December about this and crews did remove some of the snow that was impacting that corner to assist with patron parking.

We may have a future discussion related to snow cost verses public expectations.

**10. DISCUSS STAFF RECOMMENDATIONS (TRAFFIC AND PARKING CONTROL) - ACTION, ENDORSEMENT OR MODIFICATIONS, AS NEEDED**

**A. Memorial Drive - Detour Route (14th Street Concerns)**

The police department inquired whether or not we should consider enacting “Temporary No Parking” on the north side of 14<sup>th</sup> Street from Madison Street to Hawthorne Avenue during the duration of WDOT’s Memorial Drive (STH-42) resurfacing project as this will be part of the official detour route. The police department’s concern is primarily increased traffic that includes larger vehicles (semi trucks).

Staff recommendation would be to monitor the situation and if necessary have the police department and/or city manager take emergency action to implement the necessary “No Parking” restriction.

**11. OTHER ITEMS THAT MAY COME BEFORE THE COMMITTEE: CONSIDERATION AND ACTION, IF NEEDED**

**A. Snow Season**

Snow season information was discussed in section 4 & 5, so no further updates were provided.

**B. Salt Shed Inspection Results**

In the middle of February, WDOT’s consultant inspected our salt and sand sheds. There are some minor concerns related to dry rotting of one of the salt sheds. We did receive an action required relating to the concrete pavement apron leading to the salt sheds. When the weather warms up, DPW crews will either use epoxy grout or tar joint sealant to close up these cracks.

**12. SET DATE, TIME, AND AGENDA ITEMS FOR NEXT COMMITTEE MEETING**

Proposed for Wednesday, April 9, 2025, at 5:15 pm. Refer to next agenda as to meeting location.

**13. ADJOURNMENT: 8:14 pm**

Doug Brandt made a motion to adjourn the meeting, seconded by Scott Stechmesser. Motion carried.

Respectfully submitted by: Matthew R. Heckenlaible  
Public Works Director/City Engineer



**MEMO**

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**DATE:** March 13, 2025  
**TO:** City Council and City Manager Greg Buckley  
**FROM:** Amanda Baryenbruch, City Clerk/Human Resources Director  
**SUBJECT:** Monthly Report

**HUMAN RESOURCES UPDATES:**

- Ongoing Recruitments:
  - o Community Development Director / City Planner – Accepting applications
  - o City Manager – Survey complete
- Recent Hires:
  - o Certified Water Operator – Gabe Butler
  - o Lead Facilities Worker, Parks & Playgrounds – Announcement Pending

**OPERATOR’S LICENSES ISSUED:**

On May 4, 2020, the City Council authorized the City Clerk to issue Operator’s Licenses. The following licenses have been issued since the 7/15/2024 Council meeting:

Name	Address	Duration
Sandra Abts	1108 Mahogany Ct Two Rivers, WI 54241	2 Year

**ELECTIONS:**

The City of Two Rivers will have a Spring Election on April 1, 2025. Absentee ballots started to be mailed on March 11, 2025. In-Person Absentee Voting starts on March 18, 2025 – March 28, 2025.





Electric Department  
March Report

## New 3-Phase Service Install at 1706 16th Street



**Tree Trimming**





# February Projects

Location	Description of Work
Central	Service upgrades
Eastside	Tree trimming
Citywide	Power pole installations

## Outages / Overtime

Date	Location	Duration	Cause
02/06/2025	1900 32nd Street	N/A	Wind caused service issue
02/08/2025	16th & Monroe Street	N/A	Car accident
02/09/2025	1605 23rd Street	N/A	Repair connections
02/19/2025	2011 25th Street	N/A	Customer main failed
02/22/2025	1421 Mahogany	N/A	Customer GFCI tripped

## Metering

Description	Amount
Number of Service Upgrades/Changes	2
Number of Electric Meters Installed	2
Total Number of Meters Tested	54
Service Disconnects & Reconnects (Normal Hours)	2

# Electric Consumption in kWh

## February Data

2020	2021	2022	2023	2024	2025
6,736,031	7,033,561	6,863,889	6,573,129	6,503,814	6,781,039

**% Change from 2020-2025**

**0.67%**

**% Change from 2024-2025**

**4.26%**

## Year-to-Date

2020	2021	2022	2023	2024	2025
13,960,025	14,470,201	14,695,462	13,928,790	13,867,775	14,311,459

**% Change from 2020-2025**

**2.52%**

**% Change from 2024-2025**

**3.20%**

# Cost of Electricity Purchased

## February Data

2020	2021	2022	2023	2024	2025
\$455,910.50	\$470,984.61	\$502,100.35	\$477,950.85	\$492,664.36	\$516,738.89

# Cost of Electricity per kWh

## February Data

2020	2021	2022	2023	2024	2025
\$0.0677	\$0.0670	\$0.0732	\$0.0727	\$0.0758	\$0.0762

**% Change from 2020-2025**

**12.59%**

**% Change from 2024-2025**

**0.60%**

# Power Cost Adjustment Clause

Month	PCAC/FAC Charge (per kWh)	Average Monthly Bill
January	-0.0001	\$72.92
February	-0.0103	\$66.68
March	-0.0034	\$70.82
April		
May		
June		
July		
August		
September		
October		
November		
December		
<b>Average</b>	<b>-0.004533</b>	<b>\$70.14</b>

## Average Bill Annual

2020	2021	2022	2023	2024	2025
\$69.15	\$72.31	\$78.70	\$74.80	\$73.51	\$70.14

**INSPECTIONS DEPARTMENT**

**MONTHLY SUMMARY  
FEBRUARY 2025**

	Permits Issued		Permit Revenue		Project Value		Type	Inspections	
	Month	YTD	Month	YTD	Month	YTD		Month	YTD
Building (residential)	12	21	2,110	5,500	186,675	461,893	Bldg	33	59
Building (commercial)	-	1	-	940	-	93,820	Elec	23	48
Electrical	17	52	2,240	4,805	265,990	352,254	Heating	43	99
Heating	18	56	1,744	4,708	182,529	621,701	Plumbing	24	43
Home Occupation	-	-	-	-	-	-	Misc	13	31
Moving	-	-	-	-	-	-	Sign	-	-
Plumbing	16	32	1,945	3,170	75,546	106,271			
Sign	-	-	-	-	-	-			
Tank	-	-	-	-	-	-			
Wrecking	-	-	-	-	-	-			
<b>Totals</b>	<b>63</b>	<b>162</b>	<b>8,039</b>	<b>19,123</b>	<b>710,740</b>	<b>1,635,939</b>		<b>136</b>	<b>280</b>

YTD Comparison	Permits Issued		Permit Revenue		Project Value	
	2025	2024	2025	2024	2025	2024
Building	22	296	6,440	79,986	555,713	12,744,586
Electrical	52	290	4,805	20,495	352,254	1,139,556
Heating	56	178	4,708	14,296	621,701	3,235,457
Home Occupation	-	1	-	50	-	-
Moving	-	3	-	150	-	17,510
Plumbing	32	159	3,170	22,314	106,271	2,480,148
Sign	-	19	-	1,250	-	149,208
Tank	-	-	-	-	-	-
Wrecking	-	6	-	845	-	100,000
<b>Totals</b>	<b>162</b>	<b>952</b>	<b>19,123</b>	<b>139,386</b>	<b>1,635,939</b>	<b>19,866,465</b>

Other Activities

- Prepared notices, ordinances & related documents for public hearings
- Prepared agenda packet and minutes for Plan Commission meeting
- Received and responded to requests for information from the general public and staff
- Inspectors attended annual building, electrical & plumbing code training

**Lester Public Library  
Director's Report  
February 2025**

**News**

- Marco updated the library copiers, one for the public near the help desk and one for staff located in the back by administrative offices. The public copier is both color and black and white, we will continue to charge 10 cents per page for black and white copies and 25 cents per page for color copies. The staff copier, in the back, was upgraded to a black and white and color copier. This will allow staff to print color copies when needed, rather than make sure the copier for the public is available.
- During the elevator upgrade at City Hall, City Council meetings will be held in the Community Room of the library. The first meeting was a City Council Work Session held February 24. Other committee meetings will be held at the library in the Community Room and Webster Room, if they are available. The BIDC met in the Community Room, February 25.

**Library Foundation** – No Report

**Library Legislation**

- From Teresa Schmidt, Public Library Administration Consultant, Library Services Wisconsin Department of Public Instruction (DPI):

“On March 5-6, 2025, the Chief Officers of State Library Agencies (COSLA) will sponsor Voices for Libraries, an event that invites library supporters and officials from every state to visit Washington, D.C., to talk with federal legislators about the importance of libraries. A delegation of Wisconsin library supporters is scheduled to talk with members of the Senate and House of Representatives about the significant work libraries are doing in our state and how federal funding from the Institute for Museum and Library Services, and in particular the LSTA Grants to States program, makes that work possible. Personal stories can help Congressional members better understand the invaluable impact libraries have in our communities. We want to share **your** stories with Wisconsin’s representatives! We are looking for as many personal and specific stories about Wisconsin libraries as we can gather. The work you do in your communities is the reason that legislators have been eager to support libraries in the past, so *any* stories you have about the positive impact of libraries are welcome. Please write a brief letter on your library’s letterhead to share your story.”

I submitted letters to Representative Grothman, Senator Baldwin, and Senator Johnson. The letters are included in the packet under communications.

## **Activities**

- 02/03/25 – Met with Kassie Paider, City of Two Rivers Finance Director
- 02/03/24 – Two Rivers City Council Meeting
- 02/04/25 – Lester Public Library Management Team Meeting
- 02/10/25 – Two Rivers Historical Society, Lester Bentley Committee Meeting
- 02/11/25 – Lester Public Library Management Team Meeting
- 02/11/25 – Lester Public Library Board of Trustees Meeting
- 02/12/25 – Lester Public Library All Staff Meeting
- 02/12/25 – City of Two Rivers Department Heads Meeting
- 02/14/25 – Manitowoc Calumet Library Automated Resource Sharing Consortium (LARS) Participants Council Meeting with Marie Bonde, Customer Service Coordinator, and Chris Hamburg, Adult Services Coordinator, Brillion Public Library Hosted the Meeting
- 02/14/25 – Manitowoc Calumet Library System Directors Meeting, Brillion Public Library Hosted the Meeting
- 02/17/25 – Two Rivers City Council Meeting
- 02/19/25 – Educational Horizons Foundation Board Meeting, Two Rivers School District Offices
- 02/20/25 – Marco installed two new photocopy machines, public and staff copiers
- 02/20/25 – Conducted three customer service clerk interviews with Marie Bonde, Customer Service Coordinator
- 02/24/25 – Set up the Community Room for the City Council Work Session, attended the meeting in case it ran past closing time, 8:00 pm.
- 02/24/25 – Conducted a customer service clerk interview, with Marie Bonde, Customer Service Coordinator
- 02/25/25 – Conducted a customer service clerk interview, with Marie Bonde, Customer Service Coordinator
- 02/25/25 – Lester Public Library Management Team Meeting
- 02/26/25 – City of Two Rivers Department Heads Meeting
- 02/26/25 – Met with Greg Buckley, City Manager, Mike Mathis, Director Parks and Rec, and Joe Metzen, Director Explore Two Rivers to meet with a representative from SeeMyLegacy.com – a community engagement and fundraising platform.
- 02/28/25 – Met with David Pennefeather, President, Lester Public Library Board of Trustees

Jeff Dawson, Director, Lester Public Library 03/3/2025



**TWO  
RIVERS**  
WISCONSIN

**PARKS AND RECREATION**



# Neshotah Beach and Park

Neshotah Park and Beach, recognized as the best beach in Wisconsin, continues to be a premier destination for residents and visitors alike. This year, significant improvements took place to ensure an even better experience for all who enjoy this beautiful Lake Michigan shoreline.



The giant Adirondack chair had wheels installed so that it can spin to showcase the best view for sightseeing or provide the best photo backdrop.



**New**

A park picnic table was updated with brass tacks arranged to offer a hands-on opportunity to learn Braille.



**New**

The Two Rivers Firefighters Local 423 donated five life rings and life ring cabinets to improve safety at Neshotah Beach and the East Twin River.



**New**

Three SwimSmart beach alert signs were installed to improve communication about beach hazard conditions. The signs sync to the National Weather Service to provide up to date forecast information to beach goers during the swimming season.



The new Neshotah Park playground was installed in late 2023. In 2024, the playground was a massive hit with children of all ages.



**New**

A new 10 ft. wide pathway was installed from the concession stand to Walsh field to help improve accessibility to parking and the beach.



Neshotah Beach had another fun and sun filled season. The parks department works hard to clean restrooms, remove trash, and groom the sand so an excellent visitor experience is available.



# Neighborhood Park Improvements

New



New



Washington Park has a new playground features installed by the parks maintenance team. The improvements were funded by the Tax Incremental District used to support the Washington Highlands development. The new pickleball court also continued to be very popular.

New



## Zander Park Nature Playground

### GUIDELINES:

1. CLIMB EVERYTHING.
2. MAKE A MESS.
3. JUMP IN PUDDLES.
4. HAVE FUN.
5. CLOTHES CAN BE WASHED.
6. RESPECT LIVING THINGS.
7. BE CREATIVE.
8. EXPLORE.

In 2023, the West Foundation generously provided a \$50,000 grant to install a nature-based playground and StoryWalk at Zander Park with native plantings. The project was available for its first full summer season. A new waterline, benches, and fence improvements took place at the dog park.

# Neighborhood Park Improvements



**New**



Picnic Hill is the site of a long standing disc golf course. In 2024, the parks maintenance team, supported by volunteers, installed new tee pads and cleared dead trees. New signage will be installed in early 2025 to complete the updates

## Park Planning Efforts

The Parks and Recreation Department is responsible for planning the short and long-term efforts to improve our city parks. In 2024, a comprehensive planning effort with extensive community feedback took place to update our Park and Open Space Plan. Riverside Park and Paddlers Park also had detailed masters plans created to guide future improvements.

The final plans are available at:

<https://www.two-rivers.org/parksrec/page/parks-and-recreations-documents>

## Grant Awards

WI DNR Urban Forestry Grant - Parks & Rec received a \$25,000 to support forestry operations. A new forestry website and inventory dashboard were developed and are available at <https://www.two-rivers.org/parksrec/page/forestry>.

2023 Coastal Management Grant - This on-going project supported the cost of purchasing a new 17 kayak fleet in 2024 so we can lead paddling programs in 2025.

Packers Foundation - In partnership with the Two Rivers High School, we will build new dugouts for the purple field at Vietnam Veterans Park with \$3,000 from the Packers Foundation.

2025 WI DNR Knowles-Nelson Stewardship Grant - Parks & Rec was notified that it will be receiving a \$209,500 grant to support improvements to Neshotah Park in 2025.

West Foundation - To continue fulfilling the goals of our 2023 Neshotah Park Master Plan, the City secured a generous \$100,000 grant from the West Foundation for a new climbing wall that will be installed in 2025.

# Vietnam Veterans Park Improvements

Vietnam Veterans Memorial Park is home to five combined softball and baseball fields, providing a space for both competitive and recreational play. We continue to improve the facilities to enhance the experience for visitors. Recent upgrades include:



New mulch being installed at the playground.

**New**



A new batting cage was installed and is available for use by the public during the spring and summer season.

**New**



New scoreboards were installed on red and white fields which are primarily used for softball.

# Vietnam Veterans Park Programs



## Girls Softball

74 girls participated in softball, with two teams at each grade level. All of our teams competed in the Manitowoc Youth Baseball Association League (MYBA). At the MYBA end-of-year tournament, we had an impressive showing, with five of our teams placing in the top four!

### Two Rivers Team Tournament Highlights:

- Purple Ponytail Team: 1st Place
- Gold Ponytail Team: 2nd Place
- Gold Single A Team: 4th Place
- Gold Double A Team: 1st Place
- Purple Double A Team: 4th Place

We're proud of the hard work, sportsmanship, and growth these players demonstrated all season. Congratulations to all the teams for a fantastic summer!



## Baseball

68 boys participated in our summer baseball, with two teams at each age level. All the teams competed in the Manitowoc County Youth Baseball League, showcasing their skills and sportsmanship throughout the season. They also participated in an end-of-year tournament. While we didn't have any teams finish in the top four, we witnessed remarkable improvement and development in all players over the course of the summer. Great job to all the teams!

### Boy's Baseball Teams:

- Peanuts (7-8-year-olds): Gold Team & Purple Team
- Peewee (9-11-year-olds): Gold Team & Purple Team
- Pony (12-14-year-olds): Port Sandy Bay Team & Krajnik Chevrolet Team

We're proud of their hard work, dedication, and growth this season!



## T-Ball

We launched a new 6-week, 4K T-ball program that welcomed 39 kids! Youth had the opportunity to learn and practice the fundamentals of baseball. It was incredible to witness their improvement. Our 5- and 6-year-old program had an amazing turnout with 51 kids! Six teams participated in a combined 15-minute practice, followed by a 45-minute game. The kids developed their skills, teamwork, and love for the game!



# J.E. Hamilton Community House

Section 10, Item C.



## Community House Room Rentals

Gymnasium - 139  
Behringer Room - 67  
Koska Room - 36

## Community Events

Knights of Columbus Cornhole Tournament  
Pro-Wrestling Classic  
Price is Right  
TRCCS Volleyball Tournament  
Snowfest Cornhole Tournament  
Heart-A-Rama  
Community Baby Shower  
Applefest  
Badger Night  
Cool City Christmas



## Fitness Center Memberships

Senior (55+) - 92  
Adult (18-54)- 33

## Golf and Multi-Support Simulator



**2024 Golf & Multi-Sport Simulator**  
*Thank You Sponsors!*  
from Two Rivers Parks & Recreation



*The Friends of the Two Rivers Senior Center*      *Neshotah Charitable Foundation, Inc*  
*Rotary Club of Two Rivers*      *Wargin Agency, American Family Insurance*  
*Dominitz Flowers, LLC*      *Kahlenberg Industries, Inc.*  
*Schaus Mechanical, Inc.*      *Fatzo's Sub & Pizza Shop*  
*Eastwin Valley Golf & FootGolf Course*      *Susie-Q Fish Co.*  
*Travis Glandt of KUMMER, LAMBERT, FOX, GLANDT & NELSON, LLP*      *Weichert, Realtors Cornerstone*

# Cool City Christmas

## 2nd Annual Cool City Christmas

The 2nd Annual Cool City Christmas took place on December 14 across multiple locations, including Central Park West, the Two Rivers Community House, and downtown businesses. Families turned out to enjoy a day full of festive activities. Highlights included live reindeer, photos with Santa, the Lowe's Toy Workshop, face painting, ice skating, ornament making with the Rotary Club, and a vendor fair. The Roncalli Show Choir filled Central Park with carols, while the Boy Scouts hosted fires and s'mores. The Police Department's K9s, Daisy and Xanti, made special appearances, adding to the fun. Food trucks and a family photo booth rounded out the offerings. Community First, Friends of the Senior Center, Lowe's, Sprang Trees and Wreaths, and Mark Gordon from Weichert Realtors, Cornerstone were key sponsors, with 30 sponsors in total supporting the event. Volunteers from the City of Two Rivers and other organizations helped ensure the day ran smoothly. This growing tradition continues to bring holiday cheer to residents and visitors alike.



## Tree Decorating Contest

Thirty Christmas trees were generously donated by Sprang's Trees and Wreaths, with 26 claimed and decorated by families, individuals, and businesses. The trees brightened Central Park throughout the holiday season, creating a festive display that delighted residents and visitors. Prizes were awarded to the top three decorated trees, with winners receiving ribbons and trophies. The contest brought the community together, fostering creativity and holiday spirit. Comments from participants and onlookers praised the beautiful display, with many expressing hope that this new tradition will continue for years to come.



# Recreation Programs



**New**

## Paddle Palooza

Over 100 people joined us for the first ever Paddle Palooza on September 14th. Participants enjoyed a group paddle, educational presentations, and ended the day with a sunset paddle up the West Twin River.



## Central Park Ice Rink

Hundreds of people enjoyed the first winter of our new synthetic ice rink in Central Park. Everyday, regardless of weather, is a skating day in Two Rivers!



## Night at the Ball Park

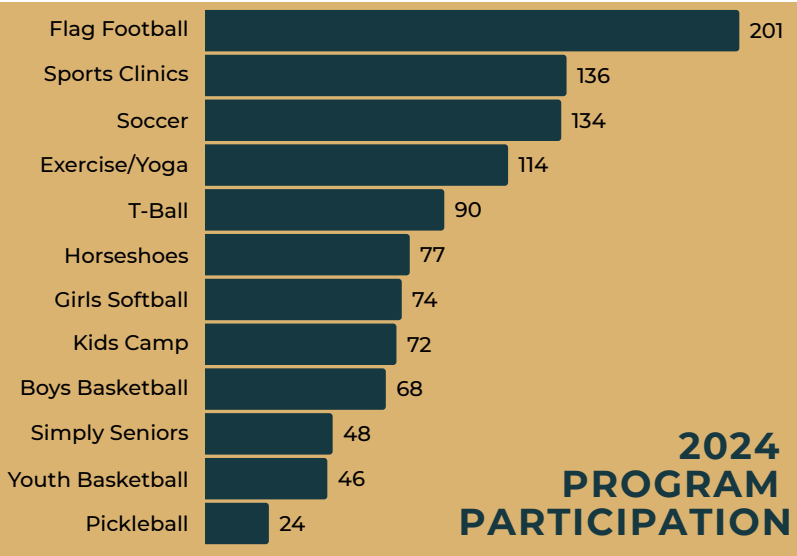
The Wisconsin Timber Rattlers supported our youth sports programs by hosting a Two Rivers Night at the Ball Park. A portion of ticket sales was donated back to Parks & Rec and Two Rivers youth had a special night!



## Youth Sports Fund

Parks & Rec works hard to raise funding to support the cost of operating youth sports. We are very thankful for a strong partnership with Port Sandy Bay, who supports our pizza fundraiser. We raised over \$19,000 this year that will support youth sports equipment and financial aid. Thank you Port Sandy Bay!

# Recreation Programs



## Horseshoes

This year marked the 44th season of the Horseshoe League. With 77 players spread across 14 teams, the league continued its strong tradition. A special thank you goes to Mike Bauknecht, who did an outstanding job leading the league in his first year as president. At our year-end banquet, held at Port Sandy Bay, we honored our teams, top shooters, and league award winners. Here's a look at the season's highlights:

### Season Champions

- 1st Half Champions: Cool City Brewing
- 2nd Half Champions by Division:
  - Red Division: Cool City Brewing
  - White Division: Deja & Martin
  - Blue Division: Braun Building



We're incredibly proud of the achievements of all our teams and players. Thank you to everyone who contributed to making this season such a success.

## Kids Camp

72 kids participated in our 8-week Kids Camp. Our camp coordinator, Kelly Tice, and camp counselor, Eli Hooper, did an outstanding job keeping the kids engaged with a variety of activities. From crafts and games to outdoor sports, they ensured every day was full of fun and learning opportunities. They organized destination trips that added excitement and educational value to the camp experience. Highlights included visits to Neshotah Beach, Lester Library, the Fire Department, the Police Department, and the Community House, among others. We're incredibly proud of the energy, creativity, and dedication shown by our staff and look forward to another successful camp next year!





# Recreation Programs



### Soccer

Significant growth took place this year in soccer, with a record 134 children from 4K through 8th grade participating in our summer, fall, and winter sessions. We introduced a new winter middle school program. Additionally, we expanded all three of our seasonal programs to include 4K, broadening our reach to younger players. Our summer program also experienced a notable increase of 32 participants. Our focus remains on teaching fundamentals and then organizing teams to play games, ensuring that our players develop essential skills in a structured and supportive environment.



### Sports Clinics

This past year, we hosted a total of four softball and three baseball clinics, focusing on fundamentals and providing kids with extra practice during the winter months. High school softball coaches Kirk Shillcox and Adam Wachowski did a fantastic job leading the softball clinics and helping build a strong connection between our youth and high school softball programs. A total of 136 kids participated in the clinics, gaining valuable experience that will benefit them when league play begins this summer.



### Basketball

We had 46 kids in 1st through 4th grade participate in our Youth Basketball Fundamentals Program. During this program, we focused on teaching proper techniques for dribbling, shooting, and passing through instruction and drills. To make learning even more engaging, Coach Preston incorporated fun, interactive games that allowed the kids to apply their skills. The growth and enthusiasm shown by these young athletes was truly inspiring!



# Recreation Programs



## Flag Football

201 kids participated in our flag football programs! Fall Peewee League, designed for kids in K-1st grade, consisted of four teams that played a six-game schedule, with a 20-minute practice followed by a 45-minute game. Fall (NFL) and Spring 2nd-4th Grade Leagues have continued to grow, with eight teams competing. The 2nd-4th grade programs concluded with an end-of-the-year tournament. In the Fall (NFL) League, the Buffalo Bills took 1st place. In the Spring League, the Gators claimed 1st place.

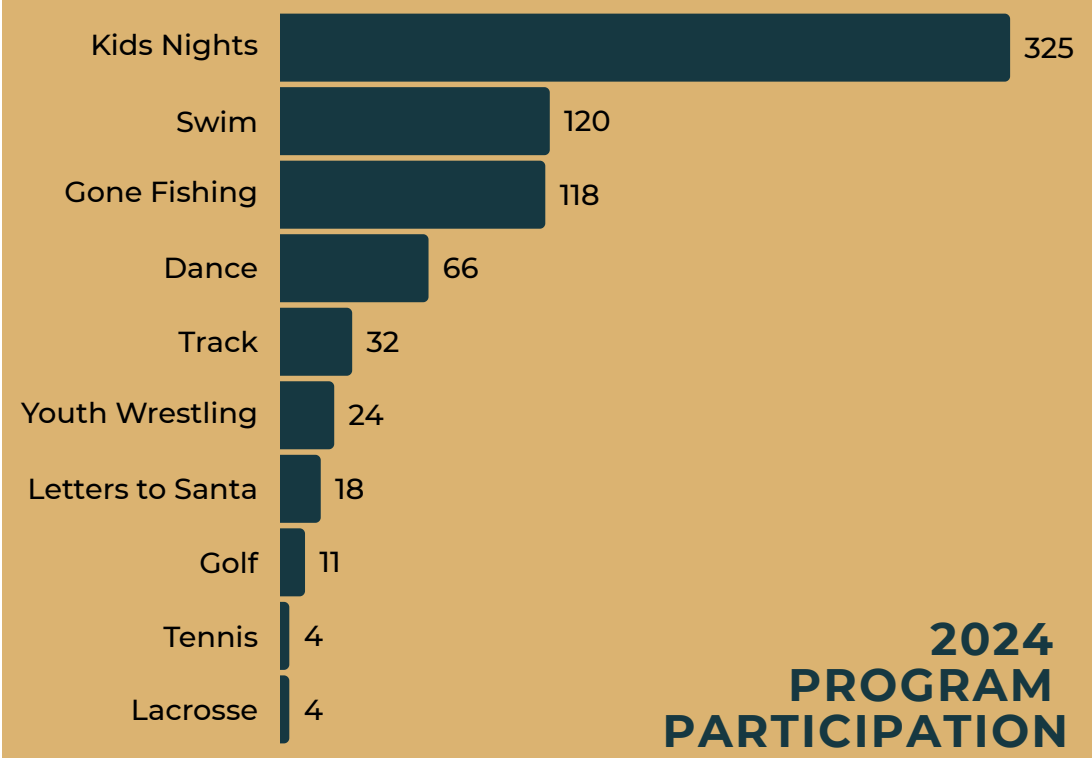


**New**

## Yoga

Led by yoga instructor, Cathy Hendrickson, we introduced seven yoga programs with a total of 114 participants, including Slow Flow Yoga, Restorative Yoga, and Morning Yin Yoga. Each class runs once per week for six weeks, with sessions lasting one hour. Designed for beginners and experienced yogis, the classes focus on a slow, meditative pace, promoting peace and relaxation. Participants practice about half the number of poses typically found in a Power Flow class, allowing for a deeper understanding of foundational movements in a vinyasa-based practice.

# Recreation Programs



In every season, there is something fun taking place in our parks or the Community House. We also partner closely with the Two Rivers Public Schools to use the school pool and athletic fields. Kids nights, swimming, track, wrestling, and more!





# Senior Center



## Trust Car Program Highlights

In 2024, the TRUST Car program provided significant support to our community by helping **66 members** gain access to **3,903 rides**. Notably, **1,512 rides** were to the Senior Center, a marked increase from last year. This growth reflects several key changes:

- The decision to waive fees for rides to the Senior Center.
- Increased volunteer participation.
- The addition of a second TRUST car.



## ADRC Home Delivered Meals and Congregate Meals

The ADRC Home Delivered Meals and Congregate Meal programs made a meaningful impact this year:

- **Home Delivered Meals:** 17,442 meals delivered to 158 recipients.
- **Congregate Meals:** 76 participants with **1,386 lunches** served at the Senior Center.

## Volunteerism

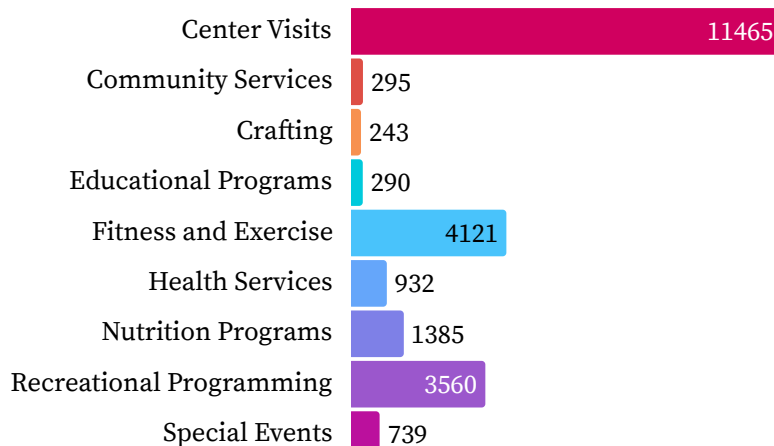
Our programs thrive due to the dedication and generosity of our volunteers. In 2024, volunteers logged a total of **13,800 hours** across various roles:

- **Trust Car Drivers:** 19 volunteers contributed 1,621 hours.
- **Home Delivered Meals Deliverers:** 144 volunteers provided 3,040 hours.
- **Instructors:** 3 instructors volunteered 49 hours.
- **Kitchen Volunteers:** 27 volunteers contributed 1,731 hours to the HDM program.
- **Receptionists:** 14 volunteers worked 1,731 hours.
- **General Senior Center Volunteers:** 60 volunteers contributed 2,357 hours.



## Program Participation Overview

The Senior Center saw robust participation across various programs in 2024, with a total of **139,101 hours** contributed by members. Here is a breakdown of activities:



# Senior Center

## Events and Community Engagement



New

### 70th Anniversary Celebration

- **Attendance:** Over 200 attendees.
- **Community Sponsors:** Reinert Family, VT Industries, American Family (Pam Wargin), Rotary Club of Two Rivers.



### Back-to-School Carnival

- **Impact:** Provided 120 children with school supplies through a shopping experience.
- **Clothing Donations:** Seniors and community members provided first-day-of-school outfits for 16 children.
- **Sponsors:** TR Firefighters Union, Rotary of Two Rivers, Friends of the Two Rivers Senior Center, St. Peter the Fisherman Parish, City of Two Rivers, United Way of Manitowoc Co., Village Inn, and many others.



### Two Rivers Hunger Task Force

- Collaborated with community organizations, including the Senior Center, TRPSD, St. Peter the Fisherman, Grace UCC, Optimist, and Salvation Army.
- Provided over **30,000 meals** to families during the summer.




New

### October Health Fair

- **Attendance:** Record-breaking 300 visitors.
- **Vendors:** 45 health and wellness vendors participated.



### Thanksgiving Community Meal

- **Meals Served:** Over 125 community members received a homemade Thanksgiving meal.
- **Sponsors:** NextEra Energies, Carron Net, Rotary Club of Two Rivers, Friends of the Two Rivers Senior Center, Dominitz Flowers, TR Koenig Elementary 4th Graders, and individual donors.



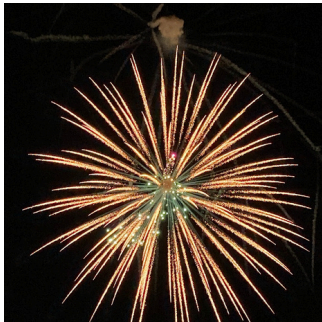
# Special Events

## 21st Annual July 4th Fireworks

The 21st Annual Community Sponsored Fourth of July Fireworks at Walsh Field drew over 3,000 attendees for a day of food, entertainment, and a spectacular fireworks show. Major sponsors included Sprang's Trees and Wreaths and Seehafernews.com, with support from 15 additional local sponsors. The event featured food trucks, live music, games, and performances by local high school singers. Organized by Two Rivers Parks & Recreation and several community partners, the event was a huge success, continuing its tradition as a holiday highlight.

### Community Reactions:

- ★ "The best fireworks anywhere—beautiful, Two Rivers!"
- ★ "We watched from our boat at Neshotah Beach—amazing!"
- ★ "So proud of my community!"



## Easter Bunny Breakfast

The annual Easter Bunny Breakfast at the Two Rivers Community House welcomed 210 attendees on the Saturday before Easter. Guests enjoyed an all-you-can-eat pancake breakfast, games, crafts, raffles, and photos with the Easter Bunny. In partnership with the Two Rivers Optimist Club, the event coincided with the Easter Egg Hunt at Neshotah Park, creating a fun-filled morning for families. With support from 39 sponsors, custom placemats featured their names, logos, and a coloring page for kids. Volunteers played a key role in making the event a success, continuing this cherished tradition.

### Community Reactions:

- 🐰 "The kids loved visiting with the Easter Bunny!"
- 🥞 "My little one loved the pancakes and the bunny!"
- 🥚 "Such a special event—can't wait for next year!"



# Special Events

## Sundae Thursday

On June 27th, Central Park West hosted Sundae Thursday, drawing thousands downtown for 25-cent sundaes, live entertainment, and family fun. Highlights included the TR Community Band, a kids' show by Mr. Steve, inflatables, and an ice cream eating contest.

A total of 2,185 sundaes were sold, using 32 tubs of ice cream and all toppings. Volunteers from VT Industries, the Two Rivers Rotary Club, and the Senior Center made the event possible. VT Industries and the Rotary Club were key sponsors, with Cedar Crest donating ice cream and supplies.

Community Reactions:

- 🍦 "Can't wait for Sundae Thursday!"
- 🎵 "Such a great tradition!"
- 👏 "Absolutely amazing job!"



## Bands on the Beach

The 6th annual Bands on the Beach concert series wrapped up a record-breaking season at Neshotah Beach Rotary Pavilion, drawing 5,000 attendees to six incredible shows. The 2024 lineup featured:

- 🎸 Spicy Tie Band
- 🎵 Model Citizens
- 🎸 Road Trip
- 🎸 Big Mouth & the Power Tool Horns
- 🎵 Stephen Cooper & the Nobody Famous Band
- 🥁 Panchromatic Steel

The Rotary Club of Two Rivers, in partnership with Parks & Rec, managed beverage sales and coordinated food trucks, with Neshotah Concessions performing well all season. Proceeds will support future events.

Major sponsors included Fox Communities Credit Union and SeehaferNews.com, along with 11 additional sponsors.

Community Reactions:

- ☀️ "Sunny skies, happy people, and the best beach in Wisconsin!"
- 🎵 "Always a fantastic lineup!"
- 🍷 "Great food and drinks at the concession stand!"



# Central Park West

New



**Two Rivers - A Destination for Live Music**  
 The Two Rivers Parks and Recreation Department hosted a lively summer of music at Central Park West. The Concerts in the Park series returned with 15 Thursday performances from May through August, featuring acts like the TR Community Band, Tony Rocker, and Jazz in the Park. The inaugural Friday Night Live series ran June through September, with eight upbeat shows from bands like The Mockingbirds and Fire on High. Families gathered weekly to enjoy music, splash pad fun, and concessions, thanks to support from Community First, Seehafernews.com, Nicolet National Bank, and other local sponsors. Attendees praised the events: "Had a great time at the concert tonight, thank you Two Rivers!" These concerts showcased our community's love for live music and promise another exciting summer ahead.

## Central Park West an Award Winning Venue

1. The Wisconsin Parks and Recreation Association awarded the City the Park Design Award for a project completed between \$1,000,000 and \$3,000,000. The award judged on innovation, functionalism, aesthetics, community benefits, environmental stewardship, and maintenance.
2. The Chamber of Manitowoc County awarded the City the Collaboration Award, recognizing a county project, activity or event for its progress, success, innovation, and contribution to the community during 2024.
3. Progress Lakeshore awarded the City the Community Enhancement Award recognizing a business or organization that has made a substantial impact on the quality of life in the county by creating projects to make the county a more attractive place to live and work.





# Support for Community Partners Events

The Parks and Recreation Department supports the many events led by community organizations taking place in parks and the Community House. We are proud to be a part of this amazing community!



**Heart-A-Rama**



**Applefest**



**Cool City Classic Car Show & Cruise**



**Ethnicfest**



**Latino-American Festival**



**Beach Bash**



**Rogers Street Days**



**National Night Out**



**Kiwanis Fish Derby**



**Snowfest**



**Bryan Lee Blues Festival**



## Department Contact Information

Section 10, Item C.

Two Rivers Parks & Recreation Department  
 1502 17th Street  
 Two Rivers, WI 54241

Recreation Desk: (920) 793-5592  
 Senior Center Desk: (920) 793-5596  
 Website: [two-rivers.org/parksrec](http://two-rivers.org/parksrec)

Position	Name	Phone	Email
Director of Parks & Recreation	Mike Mathis	(920) 793-5591	mikmat@two-rivers.org
Recreation Clerk	Ashley Hagerty	(920) 793-5592	ashhag@two-rivers.org
Recreation & Special Events Supervisor	Rebecca Hansen	(920) 793-5598	rebhan@two-rivers.org
Office Manager	Laura Hooper	(920) 793-5593	lauhoo@two-rivers.org
Senior Center Supervisor	Heather Ihlenfeldt	(920) 793-5590	heaihl@two-rivers.org
Lead Facilities Worker, Community House & Recreation Fields	Cory Johnson	(920) 793-5595	corjoh@two-rivers.org
Lead Facilities Worker, Cemeteries	Scott Kinnunen	(920) 793-5599	scokin@two-rivers.org
Administrative Support Specialist	AJ Lorrigan	(920) 793-7222	andlor@two-rivers.org
Program Coordinator, Senior Center	Megan O'Connor	(920) 793-5597	megoco@two-rivers.org
Nutrition & Volunteer Coordinator, Senior Center	Mary Omillian	(920) 793-7266	maromi@two-rivers.org
Special Events Coordinator	Jack Powalisz	(920) 793-5587	jacpow@two-rivers.org
Park Maintenance Supervisor	Jared Rohrer	(920) 793-5595	jarroh@two-rivers.org
Recreation Supervisor	Kenny Shillcox	(920) 793-5594	kenshi@two-rivers.org

FEBRUARY  
2025

PUBLIC WORKS  
MONTHLY  
REPORT



**TWO  
RIVERS**  
WISCONSIN

# ENGINEERING

## 2025 RECONSTRUCTION UPDATE

Discussions with the WDNR, they believe that they will have appropriate funding for 2025 projects. Based on that information along with advice from our consultant that if the funding should be confirmed, the city would still need to meet the WDNR deadline for awarding and executing contracts and returning them to the WDNR by the end of May, 2025. Therefore, the Harbow Street, 16th Street and Emmet Street project is out for bid to be opened on March 20th. The intent is not to award for several weeks (end of April) to allow time for the special assessment process to occur.



## EAST SIDE 2025 LEAD SERVICE LATERAL PROJECT

Public Works is pushing forward and anticipate to advertise for this project the last week of March with bid opening approximately mid-April. Staff has identified approximately 150 private side water services that will be required to be replaced; however, there are closer to 200 public side water services in the same area. Hopefully contract prices along with project contingencies will be sufficient to cover these additional public side water service costs for this area or they will need to be addressed in a future contract.

# ENGINEERING cont'd

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## SANDY BAY HIGHLANDS PHASE 3

With the February heavy rains there were reports of water flowing over the gravel roadway of Orchard Lane. Therefore, public works placed barricades to keep vehicles off the roadway to protect the investment that the city has made into this new subdivision.



## LANDFILL

The landfill project has been bid and awarded. Construction to commence in March.



# WASTEWATER

## RIVERSIDE FOODS

During the last week of February, Public Works received a week's worth of sampling data from Riverside Foods. The BOD and SS values were considerably higher than 2023's sampling and is also much higher than acceptable city ordinance limits.

Riverside Foods requested a preliminary calculation of what their new sewer billing amount would look like based on these recent samples as both a Category A and Category B customer. Those values have been supplied to them and they are digesting the information and determining where to go from here.

Next meeting with Riverside Foods is scheduled for March 20th.

## WASTE PUMP FAILURE

As previously noted, one of the 70-year old waste pumps has failed. Staff looked into possibly having it repaired, but there are no parts available. The only option is to replace. Because the other pump is just as old, it was determined to replace both pumps at the same time and keep the old functioning pump as a spare. We are presently managing to operate the final treatment processes on just one pump but should be back up and running normally in a few weeks.

2025 Public Works/WWTP Tracking			2025		February		Year-to-Date	
			February	Year-to-Date	February	Year-to-Date	February	Year-to-Date
<b>ENGINEERING 2025</b>								
		Landfill Leachate Pumpage (gallons)	573,912	1,306,896	1,098,048	1,571,480		
scott		Precipitation	1.28	1.31	0.41	2.92		
sue		Number of Encumbrance property checks	21	31	24	43		
scott/bill		Digger's Hotline Locates	18	56	40	71		
<b>STREET DIVISION 2025 (Manhours)</b>			<b>February</b>	<b>Year-to-Date</b>	<b>February</b>	<b>Year-to-Date</b>		
53200		Shop/Vehicle Maintenance	530.50	1,362	640.50	1,512		
53300		Street Maintenance	44.00	63	123.00	139		
53310		Street Cleaning	1.00	1	74.00	79		
53320		Street Signs/Painting	105.50	224	133.00	156		
53330		Snow & Ice	1265.50	1,426	115.50	1,398		
53337		PT Snowplowers	60.00	60				
53380		Bridge - maintenance		8				1
53381		17th Street Bridge opening	5.75	11	1.50	22		
53620		Refuse/Garbage						
53625		Recycling/Leaf Collection	131.00	143		19		
53640		Weed Cutting						
53650		Work for Others	50.50	79	37.00	84		
53700		Landfill Maintenance	6.00	6				
53710		Landfill Sampling						
*****		PBS Sewers	3	5	5	8		
*****		Salted Streets	4	8	3	5		
*****		Plowed all city streets	3	3	1	9		
*****		Open 17th Street Bridge	26	49	8	50		
<b>WASTEWATER UTILITY 2025</b>			<b>February</b>	<b>Year-to-Date</b>	<b>February</b>	<b>Year-to-Date</b>		
		Wastewater Treated, Gallons	44,613,000	100,154,000	56,821,000	114,993,000		
		MONTHLY AVERAGE: Daily Flow, Gallons	1,593,000	1,692,500	1,959,000	1,918,000		
		MONTHLY AVERAGE: Daily BOD, Lbs.	4,989	4,875	4,555	4,373		
<b>Plant Discharges (MONTHLY AVERAGE)</b>								
		Biological Oxygen Demand (BOD), mg/l	10.7	14.85	10.3	10.55		
		Suspended Solids, mg/l	5.3	7.65	7.6	8.55		
		Ammonia, mg/l	0.79	0.67	0.33	0.33		
		Phosphorus, mg/l	0.22	0.30	0.32	0.32		
		Fecal Coliform, per 100ml	35	56	61	42		
		pH, Min (6.0)	6.6	6.7	6.9	6.9		
		pH, Max (9.0)	7	7.0	7.1	7.1		
<b>Chemicals</b>								
		Polymer, Gallons	88	176	88	176		
		Ferric Chloride, Gallons	2,286	4,855	2,236	4,832		
P&Fonly		Chemical Purchases for the month		\$ 11,679.00	\$ -	\$ 11,695.45		
		Mishicot Payment to City	\$ 4,476.24	\$ 10,523.92	\$ 7,294.59	\$ 13,960.39		
		Emergency call-ins	3	6	2	4		

Feb-25 CITY OF TWO RIVERS  
 ULTRAFILTRATION FACILITY MONTHLY OPERATING REPORT

**ULTRAFILTRATION MEMBRANE FACILITY PRODUCTION**

TOTAL PRODUCTION	<u>26,055,090</u> GAL/MONTH
LESS BACKWASH WATER	<u>4,027,530</u> GAL/MONTH
WATER TO CITY	<u>22,027,560</u> GAL/MONTH
MAX. DAILY WATER PRODUCTION	<u>1,061,860</u> GAL/DAY
MIN. DAILY WATER PRODUCTION	<u>632,760</u> GAL/DAY
AVERAGE DAILY WATER PRODUCTION	<u>930,540</u> GAL/DAY

TOTAL PRODUCTION	<u>26055090</u> GAL/MONTH
WATER TO CITY	<u>22027560</u> GAL/MONTH

**PUMP OPERATION**

**LOWLIFT PUMPS**

1	2	3	
240	216	216	HR/MO
8.57	7.71	7.71	HR/DAY

**HIGHLIFT PUMPS**

1	2	3	4	
0	0	554	118	HR/MO
0.00	0.00	19.79	4.21	HR/DAY

**USED FOR PRODUCTION ONLY**

**CHEMICAL USAGE**

PRE MEMBRANE HYPOCHLORITE  
 POST SODIUM HYPOCHLORITE  
 RESERVOIR HYPOCHLORITE  
 50% SODIUM HYDROXIDE  
 ORTHOPHOSPHATE  
 FLUORIDE

POUNDS USED	PMG	PPM
1796.0	0.08	0.00
2047.5	0.08	0.00
86.0	0.00	0.00
0.0	0.00	0.00
1322.3	0.00	0.00
569.3	0.02	0.00

**RESERVOIR OPERATIONS**

**HOURS OF OPERATION**

PUMP HOURS PER MONTH

HR/MONTH			
PUMP 7	PUMP 8	PUMP 9	TOTAL
308	0	364	672

TOTAL GALLONS PUMPED PER MONTH

MAXIMUM GALLONS PER DAY

MINIMUM GALLONS PER DAY

AVERAGE GALLONS PER DAY

<u>6,318,000</u> GAL/MONTH
<u>333,000</u> GAL/DAY
<u>204,000</u> GAL/DAY
<u>225,643</u> GAL/DAY

REPORT PREPARED BY

*Garret Wachowski* 

DATE

3/5/2025



Municipality  
CITY OF TWO RIVERS

Form  
AB-220

Temporary Alcohol Beverage License

License(s) Requested	Fees	
	<input checked="" type="checkbox"/> Temporary "Class B" Wine <input checked="" type="checkbox"/> Temporary Class "B" Beer	License Fees
	Background Check	\$
	<b>Total Fees</b>	<b>\$ 10.00</b>

**Part A: Organization Information**

1. Organization Name  
Heart - A. Rama

2. Organization Permanent Address  
1676 Atlanta Circle

3. City  
Manitowoc WI

4. State  
WI

5. Zip Code  
54220

6. Mailing Address (if different from permanent address)

7. FEIN  
13-5613797

8. Date of Organization/Incorporation  
1971

9. State of Organization/Incorporation  
WI

10. Phone  
920-645-1787

11. Email  
tbarbelme@hotmail.com

12. Organization type (check one)  
 Bona Fide Club     Church     Fair Association/Agricultural Society     Veteran's Organization  
 Lodge/Society     Chamber of Commerce or similar Civic or Trade Organization under ch. 181, Wis. Stats.

13. Is this organization required to hold a Wisconsin Seller's permit? .....  Yes  No

14. Wisconsin Seller's Permit Number (if applicable)

**Part B: Individual Information**

List the name, title, and phone number for all officers, directors, and agent of the organization. Include an Individual Questionnaire (Form AB-100) for each person listed below. Attach additional sheets if necessary.  
Corporations must also include Alcohol Beverage Appointment of Agent (Form AB-101).

Last Name	First Name	Title	Phone
Bartelme	Thomas	Chairperson	920-645-1787

Continued →

**Part C: Event Information**

1. Name of Event (if applicable) Heart - A - Rama			
2. Dates of Operation May 1, 2, 3		3. Hours of Operation 6:00 PM - 11:00 PM	
4. Premises Address 1710 W Park St			
5. City Two Rivers		6. State WI	7. Zip Code 54241
8. County Manitowish	9. Governing Municipality <input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village of: Two Rivers		10. Aldermanic District
11. Organizer of Event (if not the named applicant)		12. Email and/or Phone Number for Organizer of Event	
13. Organizer Website Heart - A - Rama . org		14. Event Website	
15. Premises Description - Describe the building or buildings and any outside areas where alcohol beverages and records are sold, stored, or consumed, and related records are kept. Describe all rooms within the building, including living quarters. Authorized alcohol beverage activities and storage of records may occur only on the premises described in this application. Attach a map or diagram and additional sheets if necessary.  Two Rivers Community House gymnasium and lobby and gym lobby. Beverage will be stored in locked Texas Tankers between events			

**Part D: Attestation**

Who must sign this application?

- one officer or director of the nonprofit organization

**READ CAREFULLY BEFORE SIGNING:** Under penalty of law, I have answered each of the above questions completely and truthfully. I agree that I am acting solely on behalf of the applicant organization and not on behalf of any other individual or entity seeking the license. Further, I agree that the rights and responsibilities conferred by the license(s), if granted, will not be assigned to another individual or entity. I agree to operate according to the law, including but not limited to, purchasing alcohol beverages from Wisconsin-permitted wholesalers. I understand that lack of access to any portion of a licensed premises during inspection will be deemed a refusal to allow inspection. Such refusal is a misdemeanor and grounds for revocation of this license. I understand that any license issued contrary to Wis. Stat. Chapter 125 shall be void under penalty of state law. I further understand that I may be prosecuted for submitting false statements and affidavits in connection with this application, and that any person who knowingly provides materially false information on this application may be required to forfeit not more than \$1,000 if convicted.

Last Name Bartelme	First Name Thomas	M.I. L
Title Chairman	Email tbar telme@hotmail.com	Phone 920-645-1787
Signature Thomas L Bartelme		Date

**Part E: For Clerk Use Only**

Date Application Was Filed With Clerk	License Number
Date License Granted	Date License Issued
Signature of Clerk/Deputy Clerk	

Municipality  
CITY OF TWO RIVERS

Form  
**AB-220**

**Temporary Alcohol Beverage License**

License(s) Requested	Fees	
<input checked="" type="checkbox"/> Temporary "Class B" Wine <input checked="" type="checkbox"/> Temporary Class "B" Beer	License Fees	\$ 10.00
	Background Check	\$
	<b>Total Fees</b>	<b>\$ 10.00</b>

**Part A: Organization Information**

1. Organization Name  
*Heart-A-Rama*

2. Organization Permanent Address  
*1676 Atlanta Circle*

3. City  
*Manitowoc*

4. State  
*WI*

5. Zip Code  
*54220*

6. Mailing Address (if different from permanent address)

7. FEIN  
*13-5613797*

8. Date of Organization/Incorporation  
*1971*

9. State of Organization/Incorporation  
*WI*

10. Phone  
*(920) 645-1787*

11. Email  
*tbartelme@hotmail.com*

12. Organization type (check one)

Bona Fide Club       Church       Fair Association/Agricultural Society       Veteran's Organization  
 Lodge/Society       Chamber of Commerce or similar Civic or Trade Organization under ch. 181, Wis. Stats.

13. Is this organization required to hold a Wisconsin Seller's permit? .....  Yes  No

14. Wisconsin Seller's Permit Number (if applicable)

**Part B: Individual Information**

List the name, title, and phone number for all officers, directors, and agent of the organization. Include an Individual Questionnaire (Form AB-100) for each person listed below. Attach additional sheets if necessary.

Corporations must also include Alcohol Beverage Appointment of Agent (Form AB-101).

Last Name	First Name	Title	Phone
<i>Bartelme</i>	<i>Thomas</i>	<i>Chairman</i>	<i>(920) 645-1787</i>

Continued →

<b>Part C: Event Information</b>			
1. Name of Event (if applicable) Heart-A-Rama			
2. Dates of Operation May 8, 9, 10		3. Hours of Operation 6:00 PM - 11:00 PM	
4. Premises Address 1710 W Park St.			
5. City Two Rivers WI		6. State WI	7. Zip Code 54241
8. County Manitowoc	9. Governing Municipality <input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village of:		10. Aldermanic District 24
11. Organizer of Event (if not the named applicant)		12. Email and/or Phone Number for Organizer of Event tbarthe@hotmai.com (920) 645-1787	
13. Organizer Website Heart-A-Rama		14. Event Website heartarama.org	
15. Premises Description - Describe the building or buildings and any outside areas where alcohol beverages and records are sold, stored, or consumed, and related records are kept. Describe all rooms within the building, including living quarters. Authorized alcohol beverage activities and storage of records may occur only on the premises described in this application. Attach a map or diagram and additional sheets if necessary.  Two Rivers Community house gymnasium and lobby Beverages will be stored in locked Texas Tankers between events			

<b>Part D: Attestation</b>			
Who must sign this application? - one officer or director of the nonprofit organization			
<b>READ CAREFULLY BEFORE SIGNING:</b> Under penalty of law, I have answered each of the above questions completely and truthfully. I agree that I am acting solely on behalf of the applicant organization and not on behalf of any other individual or entity seeking the license. Further, I agree that the rights and responsibilities conferred by the license(s), if granted, will not be assigned to another individual or entity. I agree to operate according to the law, including but not limited to, purchasing alcohol beverages from Wisconsin-permitted wholesalers. I understand that lack of access to any portion of a licensed premises during inspection will be deemed a refusal to allow inspection. Such refusal is a misdemeanor and grounds for revocation of this license. I understand that any license issued contrary to Wis. Stat. Chapter 125 shall be void under penalty of state law. I further understand that I may be prosecuted for submitting false statements and affidavits in connection with this application, and that any person who knowingly provides materially false information on this application may be required to forfeit not more than \$1,000 if convicted.			
Last Name Bartelme		First Name Thomas	M.I. H
Title Chairman	Email tbarthe@hotmai.com	Phone (920) 645-1787	
Signature Thomas Bartelme		Date	

<b>Part E: For Clerk Use Only</b>	
Date Application Was Filed With Clerk	License Number
Date License Granted	Date License Issued
Signature of Clerk/Deputy Clerk	

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
02/06/2025	139461	Accurate Appraisal LLC	Feb 2025 Services	100-51530-2130	5189	5,350.00
Total 139461:						5,350.00
02/06/2025	139462	ADRC of the Lakeshore	January Meal Reimbursement	250-23150	JANUARY REIMBURSEM	546.46
Total 139462:						546.46
02/06/2025	139463	Aflac Business Services	January 2025 Premiums	100-21590	717381	2,195.48
Total 139463:						2,195.48
02/06/2025	139464	All In Technology LLC	WatchGuard T45 Firewall w/ Total Securit	670-59930-2900	1015	249.00
Total 139464:						249.00
02/06/2025	139465	Amazon Business - Debit Memo	Supplies - Senior Center	100-54150-3900	1NPN-4KW7-CP3K	3,060.07
Total 139465:						3,060.07
02/06/2025	139466	American Test Center	Annual Safety Inspection/Unit #11-FD	100-52210-2900	2250061	600.00
Total 139466:						600.00
02/06/2025	139467	AnSer Services	After hours answering service-Elec & Wtr	650-59665-2900	6502-020125	255.00
Total 139467:						255.00
02/06/2025	139468	Aurora Health Care North Inc.	December 2024 Pharmacy Transfer	100-52300-3900	154-CI0000093	46.30
Total 139468:						46.30
02/06/2025	139469	Bernie's Auto & Fix-it Shop LLC	Service - Trailer 351 - Elec	660-19184	10957	310.88
Total 139469:						310.88
02/06/2025	139470	Center Point Large Print	Books (ALP) - Lib	280-55111-3430	2144904	220.53
Total 139470:						220.53
02/06/2025	139471	Cool City Cleaners Inc	Towel & Mop Cleaning - January 2025 W	690-59820-2900	3801	56.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139471:						56.00
02/06/2025	139472	Core & Main LP	Supplies - Wtr	650-59643-3900	W249707	307.56
02/06/2025	139472	Core & Main LP	LID & PLUG: 3/4" OR 1" CURB BOX	650-19154	W280695	1,494.42
Total 139472:						1,801.98
02/06/2025	139473	Detroit Industrial Tool	Diamond Blades - Wtr	650-59643-3900	602719	148.73
Total 139473:						148.73
02/06/2025	139474	EAP	EAP - Quarterly January to March 2025	500-51510-2900	505-CI0005475	696.96
Total 139474:						696.96
02/06/2025	139475	Fire Dept Petty Cash	Petty cash reimbursement	100-52200-3500	02/04/2025	71.25
Total 139475:						71.25
02/06/2025	139476	Frank's Radio Service Inc.	Remote Speaker Mic w/ Audio Jack - PD	100-52100-2441	126767	769.82
02/06/2025	139476	Frank's Radio Service Inc.	Reprogram Portable Radio / Firmware U	100-52100-2441	126768	164.50
02/06/2025	139476	Frank's Radio Service Inc.	Reprogram Portable Radio - PD	100-52100-2441	126769	70.00
02/06/2025	139476	Frank's Radio Service Inc.	Reprogram Portable Radio / Firmware U	100-52100-2441	126772	164.50
Total 139476:						1,168.82
02/06/2025	139477	Hach Company	Rust Remover - Wtr	650-59642-3900	14330874	43.60
02/06/2025	139477	Hach Company	Desiccant Cartridge - Wtr	650-59642-3900	14338681	292.25
Total 139477:						335.85
02/06/2025	139478	Hagen Information Technologies Inc	Energy Star Rebate - Refrig, Dishwasher	660-29253	2/4/2025	200.00
Total 139478:						200.00
02/06/2025	139479	Hall Signs	Sign Black & Brackets - DPW	100-16120	119624	1,432.62
Total 139479:						1,432.62
02/06/2025	139480	Hardy Diagnostics	BHI Broth - Wtr	650-59643-3900	473993	60.62

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139480:						60.62
02/06/2025	139481	Hawkins Inc	Chlorine - WWTP	690-59823-3900	6973899	832.00
02/06/2025	139481	Hawkins Inc	Azone-15	650-59641-3910	6973928	1,032.57
Total 139481:						1,864.57
02/06/2025	139482	Holland Supply Inc	Large & Small Frost Remover/Torch, Hos	454-55400-8990	158051	2,844.05
Total 139482:						2,844.05
02/06/2025	139483	James Imaging Systems Inc.	Contract R14490-MPS-01 1/29/25-2/27/2	660-59921-3900	1527870	372.59
Total 139483:						372.59
02/06/2025	139484	Klein, Patricia Ann	Simply Seniors Exercise Class - 1/1/202	100-55300-2900	1/1/25-1/31/25	56.40
Total 139484:						56.40
02/06/2025	139485	Klein's Hardware Hank	Supplies- Wtr	650-59673-3900	63971	9.17
Total 139485:						9.17
02/06/2025	139486	Lawson Products	Bushing & Cutoffs - DPW	100-53200-3900	9312179798	182.07
Total 139486:						182.07
02/06/2025	139487	Lincoln Contractors Supply Inc	Diamond Blades - DPW	100-53200-3900	J35172	3,194.99
Total 139487:						3,194.99
02/06/2025	139488	M.A.S. Industries Inc	Hike, Bike & Paddle Retractable Banner	258-56700-2914	053435	1,626.96
Total 139488:						1,626.96
02/06/2025	139489	Mammoth Construction LLC	Water Main Repair - 30th & Monroe St	650-59673-2900	2061	4,545.00
Total 139489:						4,545.00
02/06/2025	139490	Manitowoc County Fire Association	2025 Association Dues	100-52200-3210	2025 ASSOCIATION DUE	170.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139490:						170.00
02/06/2025	139491	Manitowoc Disposal Inc	Refuse Collection - 1/19/2025 to 2/1/202	640-53620-2900	1/19/2025 TO 2/1/2025	16,805.35
02/06/2025	139491	Manitowoc Disposal Inc	Feb 2025 Small Box - P&R	640-53620-2900	84526	170.00
Total 139491:						16,975.35
02/06/2025	139492	Manitowoc Public Utilities	2124 Woodland Dr-WTP	690-59820-2210	01/23/225	36.26
Total 139492:						36.26
02/06/2025	139493	Manitowoc Trophy	Plaque - P&R	100-23158	47622	34.00
Total 139493:						34.00
02/06/2025	139494	Minnesota Life Insurance Co	Life Insurance premium - Feb 2025	100-21531	FEBRUARY 2025	3,724.21
Total 139494:						3,724.21
02/06/2025	139495	Monroe Truck Equipment Inc	Sensor, Motor, Seal Saver - DPW	100-16120	855855	635.74
02/06/2025	139495	Monroe Truck Equipment Inc	Cable - DPW	100-16120	855859	135.87
Total 139495:						771.61
02/06/2025	139496	Municipal Elec Utilities of WI	2025 Annual Access for MSDS Online	690-59852-2900	012325-25	925.00
Total 139496:						925.00
02/06/2025	139497	North Central Laboratories	Lab Chemical Supplies - WWTP	690-59820-2900	514718	1,137.91
Total 139497:						1,137.91
02/06/2025	139498	O'Rourke Media Group	Tri-County News/2 Year Subscription - Li	280-55111-3230	1/29/2025	90.00
Total 139498:						90.00
02/06/2025	139499	Packer City Intl Trucks Inc.	2025 International HV507 SFA	457-53300-8100	404847	111,843.45
02/06/2025	139499	Packer City Intl Trucks Inc.	2025 International HV507	457-53300-8100	404846	111,843.45



Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139499:						223,686.90
02/06/2025	139500	Parkitecture & Planning LLC	TR Neshotah Park Project	454-55400-8990	5 - PROJECT 24.013	2,432.00
Total 139500:						2,432.00
02/06/2025	139501	Quadient Finance USA Inc.	Postage - Closing Date 1/24/25	100-16210	CLOSING DATE 1/24/25	2,000.00
Total 139501:						2,000.00
02/06/2025	139502	R&J Fricke Inc	9 Bags of Concrete - DPW	100-16120	16785	763.50
Total 139502:						763.50
02/06/2025	139503	Renegade Pest Management	Monthly Pest Service - City Hall	100-51600-3500	14854	70.00
Total 139503:						70.00
02/06/2025	139504	Robert E Lee & Associates Inc	Landfill Support - Project #11975003	419-53600-2900	87906	3,863.10
02/06/2025	139504	Robert E Lee & Associates Inc	Landfill Support - Project #11975004	419-53600-8170	87907	860.00
Total 139504:						4,723.10
02/06/2025	139505	Santa's Crew LLC	Santa's Reindeer - Down Payment	262-55320-2901	DOWN PAYMENT	350.00
Total 139505:						350.00
02/06/2025	139506	Storm the Lawn Pro LLC	Prepayment spring/fall 2025 - Wtr	650-59642-2900	TR WATER TREATMENT	112.29
Total 139506:						112.29
02/06/2025	139507	Superior Chemical LLC	Cleaning Supplies - Elec	660-59588-3900	408381	205.31
Total 139507:						205.31
02/06/2025	139508	Team Motorsports LLC	2024 Yamaha & 2025 Yacht Club - FD	455-52200-8150	43310	16,259.18
Total 139508:						16,259.18
02/06/2025	139509	Two Rivers Fish Derby Inc.	Opportunity Grant / Explore Two Rivers	258-56700-2130	2/5/2025	750.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139509:						750.00
02/06/2025	139510	Two Rivers Historical Society	Feb 2025 Monthly Support Pymt	258-56700-2910	FEBRUARY 2025	250.00
Total 139510:						250.00
02/06/2025	139511	Two Rivers Youth Sports Inc.	Girls Fastpitch Clinic - Jan 7, 14, 28 of 20	100-55300-2900	1/28/2025	273.00
Total 139511:						273.00
02/06/2025	139512	USA Blue Book	Metrasphere - WWTP	690-59833-3900	INV00600267	208.14
Total 139512:						208.14
02/06/2025	139513	WCA/Group Health Trust	February 2025 Health Premiums	100-16300	JANUARY 2025	197,621.04
Total 139513:						197,621.04
02/06/2025	139514	WI Traffic Safety Officer's Association	2025 Wi Traffic Safety Officer's Associati	100-52115-2920	ANNUAL TRAINING 2025	250.00
Total 139514:						250.00
02/06/2025	139515	Wisconsin Public Service	Bridge Bldg - Engineering	100-53341-2220	5344426253 - BRIDGE BU	152.07
02/06/2025	139515	Wisconsin Public Service	CEMETERY - 1801 26th Street	100-54910-2220	5344291408 - CEMETARY	124.76
02/06/2025	139515	Wisconsin Public Service	PARK SHELTER - 2909 Adams	100-55200-2220	5343299049	16.77
02/06/2025	139515	Wisconsin Public Service	1520 17TH ST	100-54150-2220	5343830437 - 1520 17TH	2,912.73
02/06/2025	139515	Wisconsin Public Service	LIBRARY	280-55110-2220	0401271669-23;1/25	1,775.61
02/06/2025	139515	Wisconsin Public Service	WARM BLDG	100-55200-2220	0401271669-12;1/25	51.92
02/06/2025	139515	Wisconsin Public Service	1300 35th Street - Rec	100-55400-2220	0401271669-07;1/25	194.64
02/06/2025	139515	Wisconsin Public Service	1916 COLUMBUS ST - Elec	660-59588-2220	0401271669-10;1/25	500.54
02/06/2025	139515	Wisconsin Public Service	GENERATOR	660-59588-2220	0401271669-38;1/25	18.84
02/06/2025	139515	Wisconsin Public Service	1303 19th Street	291-56700-2900	0401271669-49;1/27/25	933.58
02/06/2025	139515	Wisconsin Public Service	1401 Lake Street	660-49390	0401271669-35;1/25	9,188.85
02/06/2025	139515	Wisconsin Public Service	CITY HALL	100-51600-2220	0401271669-24;1/25	2,218.88
Total 139515:						18,089.19
02/06/2025	139516	Zoro Tools Inc.	Supplies - Wtr	650-59643-3900	INV15575312	254.99

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139516:						254.99
02/13/2025	139517	Airgas USA LLC	Cylinder Rent - WWTP	690-59833-2900	5513626929	429.22
Total 139517:						429.22
02/13/2025	139518	Amazon Business - Debit Memo	Supplies - Wtr	650-59643-3900	1P99-C39V-1CXT	246.46
02/13/2025	139518	Amazon Business - Debit Memo	Supplies - WWTP	690-59820-3900	1M6N-FVHJ-C9TH	17.99
02/13/2025	139518	Amazon Business - Debit Memo	Supplies - DPW	100-53200-3900	11YD-7PY3-99HD	323.96
02/13/2025	139518	Amazon Business - Debit Memo	Supplies - Rec	100-55300-3100	1XX1-GCKX-1NMH	873.73
02/13/2025	139518	Amazon Business - Debit Memo	Supplies - FD	455-52200-3900	199N-DDC3-4LFY	1,594.97
Total 139518:						3,057.11
02/13/2025	139519	Amazon Business - Debit Memo	Supplies - Finance	100-51510-3100	1Q3H-64NT-63LY	161.23
Total 139519:						161.23
02/13/2025	139520	Baycom Inc	2025 Service Agreement PTP Service Su	100-52100-2402	12866_01 1/17/2025	1,760.00
Total 139520:						1,760.00
02/13/2025	139521	Bernie's Auto & Fix-it Shop LLC	Trailer #353 Service - Elec	660-19184	10971	153.20
Total 139521:						153.20
02/13/2025	139522	Buss, David	Energy Star Rebate - Refrigerator	660-29253	2/12/2025	50.00
Total 139522:						50.00
02/13/2025	139523	CDW Government Inc	Microsoft Office Service 1/27/25-1/26/26	100-16300	CB00890082	6,019.20
Total 139523:						6,019.20
02/13/2025	139524	Chamber of Manitowoc County	Keep It Local Holiday Billboard	262-55320-2901	12015385	200.00
Total 139524:						200.00
02/13/2025	139525	Coban Technologies Inc.	Nexus Cloud/Coud Storage/Data Migrati	461-52100-8150	58578	20,430.00
02/13/2025	139525	Coban Technologies Inc.	DISCOUNT-SOFTWARE - PD	461-52100-8150	58615	4,400.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139525:						16,030.00
02/13/2025	139526	Complete Office of Wisconsin	Toweling, Bath Tissue, Liners - CH	100-51600-3500	869731	290.24
Total 139526:						290.24
02/13/2025	139527	Country Visions Cooperative	Forklift LP Fuel - Elec	660-19184	STATEMENT 1/31/25	6,633.67
Total 139527:						6,633.67
02/13/2025	139528	Dorner Company	Bracket & Adapter for Racks - Wtr	650-59643-3900	514237	421.21
Total 139528:						421.21
02/13/2025	139529	ENTERPRISE FM TRUST	Monthly Lease Payments - Jan 2025	690-59828-2410	581377A-010525	22,266.75
02/13/2025	139529	ENTERPRISE FM TRUST	Monthly Lease Payments - Feb 2025	690-59828-2410	581377A-020625	22,266.75
Total 139529:						44,533.50
02/13/2025	139530	Fastenal	Sterling Keys/Locks - Elec	660-59593-3900	WIMAN313612	762.00
Total 139530:						762.00
02/13/2025	139531	Fox Valley Investments LLC	Refund - 2024 Real Estate Tax Overpay	100-16000	2/12/2025	697.00
Total 139531:						697.00
02/13/2025	139532	Frank's Radio Service Inc.	Radio Service Agreement / Feb 2025 - P	100-52100-2441	126827	144.24
02/13/2025	139532	Frank's Radio Service Inc.	Radio Service Agreement / Feb 2025 - F	100-52200-2900	126906	144.24
Total 139532:						288.48
02/13/2025	139533	Fricke Printing Services Inc	Currency Envelopes - PD	100-52100-2915	262244	99.45
02/13/2025	139533	Fricke Printing Services Inc	Hike-Bike-Paddle Brochure - Tourism	258-56700-2910	262163	1,998.75
Total 139533:						2,098.20
02/13/2025	139534	Hallman Lindsay	Primer & Paint - P&R	100-55200-3900	K3G84	87.98

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139534:						87.98
02/13/2025	139535	Hallman Lindsay	Primer & Paint - P&R	100-55200-3900	WFRMQ	87.98
Total 139535:						87.98
02/13/2025	139536	Hawkins Inc	LPC-132 - Wtr	650-59641-3910	6977624	2,613.64
Total 139536:						2,613.64
02/13/2025	139537	Hendricks, Catherine M.	Slow Flow Yoga - 1/6/25-2/10/25	100-55300-2900	2/10/2025	910.00
Total 139537:						910.00
02/13/2025	139538	Huskie Tools LLC	4-6 Ton Dies - Elec	660-59588-3900	IN800991	98.40
Total 139538:						98.40
02/13/2025	139539	InfoSend Inc.	Utility Bill Mailing - Jan 2025	690-59840-3110	280624	3,191.36
Total 139539:						3,191.36
02/13/2025	139540	James Leasing LLC	Lease Agreement JL-502 2/6/2025-3/5/2	100-54150-2900	20496	144.83
Total 139540:						144.83
02/13/2025	139541	Kaat's Water Conditioning Inc	Bottled water, 6303 Riverview Dr - 02/01/	419-53600-2900	01/31/2025	69.24
Total 139541:						69.24
02/13/2025	139542	Klein's Hardware Hank	Extension Cord - Elec	660-59588-3900	65431	13.99
Total 139542:						13.99
02/13/2025	139543	KONE	Elevator Testing/Maintenance - Elec	660-59598-2900	921693500	2,084.40
Total 139543:						2,084.40
02/13/2025	139544	Lakeshore Technical College	Tax Settlement - February 2025	800-24601	2/12/2025	114,061.59

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139544:						114,061.59
02/13/2025	139545	Lincoln Contractors Supply Inc	Belt & Filter - DPW	100-16120	J35562	107.90
Total 139545:						107.90
02/13/2025	139546	Mammoth Construction LLC	Contract 2-2024, Estimate Number 3	690-19107	CONTRACE 2-2024 #3	441,751.40
Total 139546:						441,751.40
02/13/2025	139547	Manitowoc Co Treasurer	February 2025 Tax Settlement	800-24310	2/12/2025	745,094.45
Total 139547:						745,094.45
02/13/2025	139548	Manitowoc Engraving Inc	Garbage Stickers	640-53620-3900	32628	1,185.00
Total 139548:						1,185.00
02/13/2025	139549	Manitowoc Public Library	2025 Annaul Microfil Subscription HTR -	280-55114-3490	LESTER PUBLIC LIBRAR	1,875.00
Total 139549:						1,875.00
02/13/2025	139550	Manitowoc Public Utilities	5000 Memorial Drive	650-59602-2900	1/31/2025	836.00
Total 139550:						836.00
02/13/2025	139551	Manitowoc School District	Tax Settlement - February 2025	800-24602	2/12/2025	48,986.47
Total 139551:						48,986.47
02/13/2025	139552	Marco	Agreement 016-1603090-000- Lib	280-55110-2130	38456063	302.68
Total 139552:						302.68
02/13/2025	139553	Matyas, John	Refund - Overpayment on final bill	660-21130	2/11/2025	3.16
Total 139553:						3.16
02/13/2025	139554	Memorial Drive Vet Clinic	Xanti - PD	209-52100-2901	379109	199.36

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139554:						199.36
02/13/2025	139555	Midwest Chemical & Equipment	Polymer-WWTP	690-59825-4920	7605	11,679.00
02/13/2025	139555	Midwest Chemical & Equipment	Polymer-WWTP	690-59825-4920	7651	12,274.40
Total 139555:						23,953.40
02/13/2025	139556	Municipal Elec Utilities of WI	2025 Annual Program Fee	690-59852-2900	020125-35	29,125.00
Total 139556:						29,125.00
02/13/2025	139557	National Fire Safety Council	Donation/TR Optimist Club Tax ID 38-22	100-52200-3250	2/10/2025	105.00
Total 139557:						105.00
02/13/2025	139558	OpenPoint LLC	OpenPoint Subscription - Feb 2025	660-59923-2403	1674	1,960.00
Total 139558:						1,960.00
02/13/2025	139559	Penworthy Company LLC, The	Books JNF - Lib	280-55112-3400	0605140-IN	603.75
Total 139559:						603.75
02/13/2025	139560	Peterson, David	Refund - Overpayment on final bill	660-21130	2/11/2025	128.33
Total 139560:						128.33
02/13/2025	139561	Primus Marketing Group Inc.	ELECTRIC - METERS	660-19370	PM25018	3,344.00
02/13/2025	139561	Primus Marketing Group Inc.	ELECTRIC - METERS	660-19370	PM25021	1,672.00
Total 139561:						5,016.00
02/13/2025	139562	Riesterer & Schnell Inc.	2024 JD Cab Utility Tractor / 2025 JD Lo	454-55400-8860	31591214	39,100.00
Total 139562:						39,100.00
02/13/2025	139563	Rogers Street Fishing Village	Opportunity Grant from Explore Two Rive	258-56700-2130	2/11/2025	500.00
Total 139563:						500.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
02/13/2025	139564	Runge, Cole & Frances	Refund - Overpayment on final bill	660-21130	2/11/2025	2.70
Total 139564:						2.70
02/13/2025	139565	Shawn Williams Creative-Social Media	Social Media Audit, Strategy, Photo & Vid	258-56700-2100	935	800.00
Total 139565:						800.00
02/13/2025	139566	Superior Chemical LLC	Toweling, Bath Tissue and Soap - CH	100-51600-3500	395105	270.10
Total 139566:						270.10
02/13/2025	139567	TAPCO	Baricade Tape - DPW	100-16120	1795777	686.90
Total 139567:						686.90
02/13/2025	139568	Thuermer Law Office	Municipal Prosecuting - Jan 2025	100-51340-2121	JANUARY 2025	1,705.00
Total 139568:						1,705.00
02/13/2025	139569	Two Rivers Automotive Inc.	Supplies - Cem	100-54910-3900	5172-316370	67.00
Total 139569:						67.00
02/13/2025	139570	Two Rivers Main Street Inc.	Tax Settlement - February 2025	815-56700-2000	2/12/2025	30,515.77
Total 139570:						30,515.77
02/13/2025	139571	Two Rivers Public School District	20oz Polar Camel Red Tumblers	258-56700-3901	CITY OF TWO RIVERS/JO	.00
02/13/2025	139571	Two Rivers Public School District	Tax Settlement - February 2025	800-24600	2/12/2025	.00
Total 139571:						.00
02/13/2025	139572	Unique	Placements - Jan 2025	280-55110-2130	6136073	46.60
Total 139572:						46.60
02/13/2025	139573	Visu-Sewer	Line 18" San Sewer / 11th & School Stre	690-59831-2900	35624	79,987.50
Total 139573:						79,987.50



Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
02/13/2025	139574	WATA	Lunch & Learn/NFL Draft Readiness - M	258-56700-2920	LL2025102	60.00
Total 139574:						60.00
02/13/2025	139575	Wiesner, Jason	Refund - Overpayment on final bill	660-21130	2/11/2025	102.76
Total 139575:						102.76
02/28/2025	139576	Wisc Dept of Transportation	Overpayment/Duplicate Payment of Park	100-45131	2/10/2025	.00
Total 139576:						.00
02/13/2025	139577	Wisc State Laboratory/Hygiene	Flouride Samples	650-59642-2900	799350	31.00
Total 139577:						31.00
02/13/2025	139578	Wisconsin Municipal Court Clerks Assoc	2025 Dues - Backhaus & Griepentrog	100-51200-3210	TWO RIVERS / MISHICOT	110.00
Total 139578:						110.00
02/13/2025	139579	Wisconsin Public Service	FIRE DEPT	100-52200-2220	0401271669-03;03 - 1/25	1,565.67
02/13/2025	139579	Wisconsin Public Service	RESEVOIR	650-59661-2220	0401271669-02;1/25	140.54
02/13/2025	139579	Wisconsin Public Service	SOUTH TWR	650-59661-2220	0401271669-25;1/25	77.22
02/13/2025	139579	Wisconsin Public Service	EAST TWR	650-59661-2220	0401271669-26;1/25	80.09
02/13/2025	139579	Wisconsin Public Service	HIGH LIFT	650-59626-2220	0401271669-32;1/25	346.33
02/13/2025	139579	Wisconsin Public Service	FILTER PLANT	650-59643-2220	0401271669-33;1/25	3,248.87
Total 139579:						5,458.72
02/13/2025	139580	WPRA	2025 Membership Renewal	100-55300-3210	8703	775.00
Total 139580:						775.00
02/13/2025	139581	Two Rivers Public School District	Tax Settlement - February 2025	800-24600	02/12/2025	1,527,348.53
Total 139581:						1,527,348.53
02/13/2025	139582	Two Rivers Public School District	Polar Camel Red Tumbers & Laser Engr	258-56700-3901	TR TOURISM 2/10/2025	210.00
Total 139582:						210.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
02/20/2025	139583	Advance Construction Inc	Contract 3-2024 #3	680-19107	CONTRACT 3-2024 #3	275,544.00
Total 139583:						275,544.00
02/20/2025	139584	Amazon Business - Debit Memo	Supplies - Comm Dev	258-56700-3900	13HN-46LR-4Q76	144.05
02/20/2025	139584	Amazon Business - Debit Memo	Supplies - Engineering	690-59820-3900	19RG-6MLL-6MDY	199.94
02/20/2025	139584	Amazon Business - Debit Memo	Supplies - WWTP	690-59820-3900	1JLF-VJC7-73H3	129.90
02/20/2025	139584	Amazon Business - Debit Memo	Supplies - DPW	457-48210	14DQ-6TN3-4DW1	342.34
02/20/2025	139584	Amazon Business - Debit Memo	CREDIT - DPW	457-48210	1YWH-RGNH-6QL6	34.00-
Total 139584:						782.23
02/20/2025	139585	Amazon Business - Debit Memo	Supplies - Elec	660-19184	1WTK-XRQ4-73WP	333.02
Total 139585:						333.02
02/20/2025	139586	Amazon Business - Debit Memo	Supplies - Maint	100-51600-3500	1XKW-PXGV-3JNJ	71.14
Total 139586:						71.14
02/20/2025	139587	Ball Auto & Truck Parts Inc	Regulator for Glove Inflator - Elec	660-19394	363671	63.99
Total 139587:						63.99
02/20/2025	139588	Bernie's Auto & Fix-it Shop LLC	Trailer 359 Service - Elec	660-19184	10977	514.01
Total 139588:						514.01
02/20/2025	139589	Big Year LLC	Advertising in March/April 2025 Magazin	258-56700-2910	3829	2,000.00
Total 139589:						2,000.00
02/20/2025	139590	Bird City Wisconsin	2025 Renewal Fee	100-55300-2910	FEBRUARY 14, 2025	175.00
Total 139590:						175.00
02/20/2025	139591	Board of Comm. of Pub Lands	Trust Fund Loan Payment	640-29237	0000021540	272,661.18
Total 139591:						272,661.18
02/20/2025	139592	Carahsoft Technology Corporation	MicroStation SELECT Subscription 5/12/	100-53100-2410	43860924INV	4,461.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139592:						4,461.00
02/20/2025	139593	Center Point Large Print	Books (ALP) - Lib	280-55111-3430	2147270	46.74
Total 139593:						46.74
02/20/2025	139594	Custer Street Automotive & Towing LLC	Incident #24-05955 -PD	100-52115-2902	RO 11236 PO 01 LEXUS E	300.00
Total 139594:						300.00
02/20/2025	139595	Eggers Division LLC	Installment Payment #21 / TID #9	238-56700-2900	2/14/2025	163,120.91
Total 139595:						163,120.91
02/20/2025	139596	Environmental Consulting & Testing	Toxicity Testing - WWTP	690-59820-2900	7772	2,000.00
Total 139596:						2,000.00
02/20/2025	139597	Erickson Sports LLC	T-shirts/Youth Wristling - P&R	100-55300-3900	2278	152.00
Total 139597:						152.00
02/20/2025	139598	Forster, Maria	Translation Services 2/5/2025 - PD	100-21125	2/11/2025	42.00
Total 139598:						42.00
02/20/2025	139599	Foster & Foster Inc.	Prep of Actuarial Valuation & GASB 75 Di	100-51510-2900	34724	7,450.00
Total 139599:						7,450.00
02/20/2025	139600	Galbraith, Betsy	REFUND - Overpayment of parking ticke	100-45130	2/10/2025	33.50
Total 139600:						33.50
02/20/2025	139601	Gannett Wisconsin LocaliQ	Legal Ads	100-51100-2910	0006889605	584.85
Total 139601:						584.85
02/20/2025	139602	Grainger	Parts - WWTP	690-59834-3900	9390673466	219.94
02/20/2025	139602	Grainger	Batteries / Parts - WWTP	690-59820-3900	9398649641	72.94

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139602:						292.88
02/20/2025	139603	Hach Company	Pump - WWTP	690-59820-3900	14355886	610.00
Total 139603:						610.00
02/20/2025	139604	HydroCorp	Monthly Comm CCR Program - Wtr	650-59664-2900	CI-04413	1,478.00
Total 139604:						1,478.00
02/20/2025	139605	James Imaging Systems Inc.	Contract RI13705-01 - Coverage Period	100-55140-3100	1535856	121.16
02/20/2025	139605	James Imaging Systems Inc.	Contract RI13706-01 - Coverage Period	100-53100-3100	1535857	460.03
02/20/2025	139605	James Imaging Systems Inc.	Contract RI13707-01 - Coverage Period	100-55140-3100	1535858	675.75
Total 139605:						1,256.94
02/20/2025	139606	John Fabick Tractor Company	Generator Service - WWTP	690-59832-2900	SIGB0043770	265.00
02/20/2025	139606	John Fabick Tractor Company	Generator Maintenance - WWTP	690-59833-2900	SIGB0043778	798.00
02/20/2025	139606	John Fabick Tractor Company	Service / Res - Wtr	650-59672-2900	SIGB0043774	265.00
02/20/2025	139606	John Fabick Tractor Company	Service - Wtr	650-59678-2900	SIGB0043772	265.00
02/20/2025	139606	John Fabick Tractor Company	Servicee - DPW & Elec	660-59588-2900	SIGB0043776	265.00
Total 139606:						1,858.00
02/20/2025	139607	Klein's Hardware Hank	Supplies- Wtr	650-59673-3900	65136	1.69
02/20/2025	139607	Klein's Hardware Hank	Supplies- Wtr	650-59642-3900	65472	10.99
Total 139607:						12.68
02/20/2025	139608	Lakeshore Technical College	DNR-payment in lieu of taxes	100-41320	TAX YEAR 2024	1.34
Total 139608:						1.34
02/20/2025	139609	LeClair Bros Heat/AC Inc	Heat / AC Yearly Maint - DPW	100-53200-3500	C9948	351.00
Total 139609:						351.00
02/20/2025	139610	Liberty Mutual Insurance	Installment #6	100-16000	15061092	71,812.91

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139610:						71,812.91
02/20/2025	139611	Mammoth Construction LLC	Water Main Repair - 1103 29th Street	650-59673-2900	2063	2,698.00
02/20/2025	139611	Mammoth Construction LLC	Water Main Break - 5803 Lincoln Ave	650-59673-2900	2086	2,069.00
02/20/2025	139611	Mammoth Construction LLC	Water Main Break - 5803 Lincoln Ave	650-59673-2900	2093	1,708.00
02/20/2025	139611	Mammoth Construction LLC	Water Main Break - 2912 Adams Street	650-59673-2900	2094	2,848.00
Total 139611:						9,323.00
02/20/2025	139612	Manitowoc Co Public Works	Jan-Mar 2025 BadgerNet Circuit	100-52100-2203	455TIME-17688-T	465.00
Total 139612:						465.00
02/20/2025	139613	Manitowoc Co Solid Waste	Account #162 - Jan 2025 Service	640-53620-2900	STATEMENT 28996	9,933.05
Total 139613:						9,933.05
02/20/2025	139614	Manitowoc Co Treasurer	County Jail & Driver Improvement Surch	100-21125	02/12/2025	456.00
Total 139614:						456.00
02/20/2025	139615	Manitowoc Co Treasurer	DNR Payment in Lieu of Taxes	100-41320	TAX YEAR 2024	8.72
Total 139615:						8.72
02/20/2025	139616	Manitowoc Disposal Inc	Recycling & Refuse Collect - 2/2/2025-2/	640-53620-2900	2/2/2025-2/15/2025	16,805.35
Total 139616:						16,805.35
02/20/2025	139617	McMahon Associates Inc	SBH Stormwater Anlysis	290-56700-2900	938022	10.67
Total 139617:						10.67
02/20/2025	139618	Municipal Elec Utilities of WI	2025 Electric Safety Training Prog	660-59930-2920	021525-66	9,690.00
Total 139618:						9,690.00
02/20/2025	139619	Northern Lake Service Inc	Lab Sample Analysis	690-59820-2900	2501992	800.30

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139619:						800.30
02/20/2025	139620	Old Dominion Brush	Tube Hose - DPW	100-16120	9334526	2,579.81
Total 139620:						2,579.81
02/20/2025	139621	Psychologie Clinique S.C.	Clinical Psych Eval - H. Thompson - PD	100-52120-2142	STATEMENT 2/6/2025	650.00
Total 139621:						650.00
02/20/2025	139622	Quadient Leasing USA Inc	Folder/sorter lease - 3/10/25-6/9/25	650-59903-3900	Q1725080	1,090.80
Total 139622:						1,090.80
02/20/2025	139623	Rabas, Morgan	REFUND - Overpayment of 2024 Real E	100-16000	2/18/2025	619.36
Total 139623:						619.36
02/20/2025	139624	Registration Fee Trust	Registration - PD Veh #331 Squad	100-52115-2902	02/18/2025	169.50
Total 139624:						169.50
02/20/2025	139625	Registration Fee Trust	Registration - PD Veh #330 Squad	100-52115-2902	2/18/2025	169.50
Total 139625:						169.50
02/20/2025	139626	Rennert's Fire Equipment Service Inc.	2022 Spartan Gladiator Unit T11 - Servic	100-52210-2410	3280	409.00
Total 139626:						409.00
02/20/2025	139627	Schaus Mechanical	Service - Lib	280-55110-2410	SD13567	161.25
02/20/2025	139627	Schaus Mechanical	Service - CH	100-51600-3500	SD13713	471.53
02/20/2025	139627	Schaus Mechanical	Service - FD	100-52200-3500	SD13528	312.50
02/20/2025	139627	Schaus Mechanical	Boiler Repair - WWTP	690-59834-2900	SD13617	182.50
02/20/2025	139627	Schaus Mechanical	Boiler Repair - WWTP	690-59834-2900	SD13627	1,666.64
Total 139627:						2,794.42
02/20/2025	139628	SEERA Focus on Energy	Focus Program - 1/31/2025	660-29253	JANUARY 2025	3,779.19

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139628:						3,779.19
02/20/2025	139629	State of Wisconsin	Jan 2025 penalty surcharges	100-21125	02/12/2025	1,624.28
Total 139629:						1,624.28
02/20/2025	139630	Superior Chemical LLC	Toweling - DPW	100-53200-3500	409964	60.86
Total 139630:						60.86
02/20/2025	139631	TAPCO	Baricade Tape - DPW	100-16120	1796040	686.90
Total 139631:						686.90
02/20/2025	139632	The New York Times	Subscription 1/23/25-1/21/26	282-55110-7004	366D5D98255	1,430.00
Total 139632:						1,430.00
02/20/2025	139633	Town & Country Engineering Inc.	2024 SDW & CWF Loan Assistance	690-19107	27861	700.00
Total 139633:						700.00
02/20/2025	139634	Two Rivers Public School District	DNR Payment in Lieu of Taxes	100-41320	TAX YEAR 2024	18.32
Total 139634:						18.32
02/20/2025	139635	Two Rivers Public Schools	Sand Blasting/Powder Coating/Plasma C	455-52200-3900	TRFD 11/18/24	420.00
Total 139635:						420.00
02/20/2025	139636	Village of Mishicot Treasurer	Jan 2025 Municipal Court Forfeitures	100-21125	2/12/2025	426.87
Total 139636:						426.87
02/20/2025	139637	Waskow-Mammel, Sandra	Energy Star Rebate - Dishwasher	660-29253	2/18/2025	50.00
Total 139637:						50.00
02/20/2025	139638	WEX Bank	Gasoline	250-55150-3900	102843082	6,004.68

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139638:						6,004.68
02/20/2025	139639	Wisc Dept Of Justice	CIB-TIME Services 1/1/25-12/31/25 -PD	100-52100-2203	455TIME-0000017336	1,842.00
Total 139639:						1,842.00
02/20/2025	139640	Wisc Dept Of Revenue-DEBITMEMO	December 2025 Sales Tax	640-29410	JANUARY 2025	9,487.10
Total 139640:						9,487.10
02/20/2025	139641	WPPI - Debit Memo	Jan 2025 Purchased Power	660-59902-2900	25-12025	517,236.14
Total 139641:						517,236.14
02/20/2025	139642	Zarnoth Brush Works Inc	Blower Hose - DPW	100-16120	0200796-IN	1,150.00
Total 139642:						1,150.00
02/26/2025	139643	USBank - Debit Memo	Credit Card Usage - January 2025 / Dec	100-16000	STATEMENT DATED 2-6-2	73,108.30
Total 139643:						73,108.30
02/27/2025	139644	Amazon Business - Debit Memo	Supplies - Senior Center	100-54150-3900	17J6-TCNX-4WLL	86.01
Total 139644:						86.01
02/27/2025	139645	Amazon Business - Debit Memo	Supplies - Fire	100-52200-3850	19RG-6MLL-6CYX	379.83
Total 139645:						379.83
02/27/2025	139646	Amazon Business - Debit Memo	CREDIT - REC	100-23160	1TGX-TMPX-7P9N	37.99-
02/27/2025	139646	Amazon Business - Debit Memo	CREDIT - REC	100-23160	1QJ1-DVHJ-4JY4	37.99-
02/27/2025	139646	Amazon Business - Debit Memo	CREDIT - REC	100-23160	1RF6-J1XF-7FXT	30.99-
02/27/2025	139646	Amazon Business - Debit Memo	Supplies - Rec	100-54910-2410	1G3Y-MFXJ-61RX	720.26
Total 139646:						613.29
02/27/2025	139647	Amazon Business - Debit Memo	Office Supplies - Finance	100-51510-3100	1MRC-3WH4-7CTL	96.12



Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139647:						96.12
02/27/2025	139648	Ball Auto & Truck Parts Inc	Strobe light for Veh 16 - Elec	660-19184	364268	154.99
Total 139648:						154.99
02/27/2025	139649	Bernie's Auto & Fix-it Shop LLC	Trailer 366 Service - Elec	660-19184	11000	141.46
Total 139649:						141.46
02/27/2025	139650	City of Two Rivers	Garbage Stickers - Library	640-46310	02-24-2025	90.00
Total 139650:						90.00
02/27/2025	139651	Erickson Sports LLC	Clothing - Fire Department	100-52200-3850	2299	189.90
Total 139651:						189.90
02/27/2025	139652	Frank's Radio Service Inc.	Program/Set-up, Firmware Update - PD	100-52100-2450	126967	160.00
Total 139652:						160.00
02/27/2025	139653	Frontier	Water Dept Phone	650-59661-2200	920-793-3381-120992-5	80.05
Total 139653:						80.05
02/27/2025	139654	Gannett Wisconsin Media	3/1/25-2/28/26 Service	280-55111-3230	LESTER LIBRARY 2/28/20	62.61
Total 139654:						62.61
02/27/2025	139655	GFL Environmental	Grit Dump - WWTP	690-59820-2900	U30000173429	290.96
Total 139655:						290.96
02/27/2025	139656	Hamilton Wood Type & Printing Museum	Opportunity Grant - Tourism	258-56700-2130	FEBRUARY 25, 2025	1,000.00
Total 139656:						1,000.00
02/27/2025	139657	Hayden Water Co. LLC	Distilled Water for Lab - Water	650-59642-3900	170293	28.99

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
Total 139657:						28.99
02/27/2025	139658	Hendricks, Catherine M.	Yin Sound Bath Yoga Class - Rec	100-55300-2900	2/17/2025	384.00
02/27/2025	139658	Hendricks, Catherine M.	Prenatal Yoga Class - Rec	100-55300-2900	FEBRUARY 17, 2025	210.00
Total 139658:						594.00
02/27/2025	139659	JF Ahern Co	Sprinkler Inspection - Fire	100-52200-2900	699029	310.00
Total 139659:						310.00
02/27/2025	139660	Kemira Water Solutions Inc	Chemical - WWTP	690-59824-4910	9017872161	11,337.30
Total 139660:						11,337.30
02/27/2025	139661	Liberty Mutual Insurance	DPW Wing Plows (#1238, #1233 & #123	100-16310	DPW PLOWS 2-10-2025	98.00
Total 139661:						98.00
02/27/2025	139662	Manitowoc Heating/Refrigeration	Service-FD	100-52200-3500	8382	119.00
Total 139662:						119.00
02/27/2025	139663	Minnesota Life Insurance Co	Life Insurance premium - March 2025	100-21531	MARCH 2025	3,925.95
Total 139663:						3,925.95
02/27/2025	139664	MSA Professional Services Inc	Water app Config Support - Wtr	650-59642-2900	013573	636.25
Total 139664:						636.25
02/27/2025	139665	Northeast Wisc Tech College	Fire Officer 1 State Exam (Taddy,Ewert,	100-52200-2900	SFT0000127760	240.00
Total 139665:						240.00
02/27/2025	139666	Northern Lake Service Inc	Supplies - Wtr	650-59642-2900	2502469	50.00
02/27/2025	139666	Northern Lake Service Inc	Supplies - Wtr	650-19107	2502723	305.00
Total 139666:						355.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
02/27/2025	139667	Payment Service Network	CC Fees - Utility Services 1/1/2025 - 1/3	690-59840-3900	305944	7.95
Total 139667:						7.95
02/27/2025	139668	Premium Waters Inc	Lab Water - WTP	690-59820-2900	391316558	138.99
Total 139668:						138.99
02/27/2025	139669	RESCO	Main Stock - ELec	660-19154	3062363	2,089.97
02/27/2025	139669	RESCO	Main Stock - ELec	660-19154	3063098	3,177.77
Total 139669:						5,267.74
02/27/2025	139670	Schaus Mechanical	Replace Pump seal kit - Lib	280-55110-2410	SD13837	1,334.00
Total 139670:						1,334.00
02/27/2025	139671	Service Tech LLC	Plant Boiler Maintenance - Wtr	650-59678-2900	90231	1,312.50
Total 139671:						1,312.50
02/27/2025	139672	Stryker Sales LLC	Procure Service Contract - 1/1/25-12/31/	270-52300-2100	9208149522	10,712.27
Total 139672:						10,712.27
02/27/2025	139673	Tech Products Inc.	Tag Holders - Elec	660-59594-3900	114822	154.41
Total 139673:						154.41
02/27/2025	139674	Thuermer Law Office	Municipal Prosecuting - February 2025	100-51340-2121	FEBRUARY 25, 2025	1,705.00
Total 139674:						1,705.00
02/27/2025	139675	Towsley's Inc	TRU Branded Items, WPPI to reimburse	660-59930-3900	744090	555.10
Total 139675:						555.10
02/27/2025	139676	Two Rivers High School	Restitution received from J. Denson - Co	100-21125	02/20/25	274.00
Total 139676:						274.00

Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Number	Invoice Amount
02/27/2025	139677	Two Rivers Main Street Inc.	Sustainability Grant - Cool City Car Show	258-56700-2131	FEBRUARY 25, 2025	1,000.00
Total 139677:						1,000.00
02/27/2025	139678	Two Rivers Police Association	2024 Shop With A Cop - Operation Elijah	100-16000	SHOP WITH A COP - ELIJ	625.00
Total 139678:						625.00
02/27/2025	139679	Utility Sales and Service Inc	VEH 27 Maintenance - Elec	660-19184	0078163-IN	1,732.04
Total 139679:						1,732.04
02/27/2025	139680	Vorpahl Fire & Safety	Annual Fire Extinguisher - WWTP	690-59834-2900	215396995	168.00
Total 139680:						168.00
02/27/2025	139681	Wells Fargo Vendor Financial Services L	Bobcat Toolcat	457-53300-8160	5033300910	1,268.82
Total 139681:						1,268.82
02/27/2025	139682	Wisconsin Public Service	3801 Mishicot Rd.	100-54910-2220	0401271669-9;2/25	455.35
02/27/2025	139682	Wisconsin Public Service	PAVILLION	100-55200-2220	0401271669-42;2/25	109.33
02/27/2025	139682	Wisconsin Public Service	LIBRARY	280-55110-2220	0401271669-23;2/25	1,765.49
02/27/2025	139682	Wisconsin Public Service	114 DAVIS STREET	100-55400-2220	0401271669-1;2/25	14.46
02/27/2025	139682	Wisconsin Public Service	FIRE DEPT	100-52200-2220	0401271669-3;2/25	1,649.07
02/27/2025	139682	Wisconsin Public Service	GENERATOR	660-59588-2220	0401271669-38;2/25	17.36
Total 139682:						4,011.06
02/27/2025	139683	Wisconsin Supreme Court	Invoice #680-00000001494/Customer \$	100-51200-3210	02/20/25	800.00
Total 139683:						800.00
Grand Totals:						5,255,688.51

**DRAFT**  
**FOR REVIEW ONLY**  
*October 2024*



**Manitowoc County  
Hazard Mitigation Plan  
2025-2030**

***DRAFT***  
***FOR REVIEW ONLY***  
***October 2024***

# Manitowoc County

## Hazard Mitigation Plan

### 2025-2030



Adopted **MONTH YEAR**

Prepared by:  
Bay-Lake Regional Planning Commission  
1861 Nimitz Drive  
De Pere, WI 54115  
(920) 448-2820



The preparation of this document was financed through contract #23017-05 between Manitowoc County and the Bay-Lake Regional Planning Commission. The cost to develop this plan was paid for through a grant from the Federal Emergency Management Agency (FEMA) through the Section 404-Hazard Mitigation Grant Program (HMGP) under Presidential Disaster Declaration FEMA-4520-DR-WI that was declared on April 4, 2020.



# County Resolution of Adoption

**RESERVED**



# City and Village Resolutions of Adoption

**RESERVED**

# WEM Approval Letter

**RESERVED**

# FEMA Approval Letter

**RESERVED**

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## Plan Update Summary

To aid in the identification of changes made to the Manitowoc County Hazard Mitigation Plan in this update, Table ES.1: Plan Update Summary below lists plan changes. Table ES.2: Mitigation Strategy Updates identifies updates made to the previously identified mitigation strategies.

Table ES.1: Plan Update Summary

Plan Chapter	Overview of Plan Update
Chapter 1: Introduction	Updated plan update funding and resilience overview and impact on the plan. Updated steering committee information to reflect current membership and public involvement to describe outreach and input methods. The steering committee updated the prioritized order of the hazards to be addressed.
Chapter 2: Planning Area	Updated demographic, housing, and economic profile information using 2020 Decennial Census and 2021 American Community Survey 5-Year Estimates. Updated land use information.
Chapter 3: Risk Assessment	Disaster declaration history was updated with DR disaster declarations. Future changing conditions impacts were updated using 2021 WICCI data. Updated all elements of each hazard profile to reflect updated storm data (frequency, probability, impacts, etc.). Updated critical facilities inventory.
Chapter 4: Mitigation Strategy	Updated mitigation action plan to account for completed projects, changing priorities, timetables, costs, responsibilities, and additional projects. Added potential funding source with estimated costs.
Chapter 5: Plan Adoption and Maintenance	Updated plan maintenance process and plan update schedule.

Table ES.2: Mitigation Strategy Updates

Project	Changes
All Hazards	
Update air photos and LIDAR data	Changed Project Timetable from "2023" to "Ongoing"
Outage management systems to help triage outage repairs	Changed "software" to "systems" in Project and changed Project Timetable from "2020-2025" to "2024-2026"
Maintain RAVE (i.e. Reverse 911) capability	Completed
Promote use of NOAA weather radios which continually broadcast National Weather Service forecasts, warnings, and other crucial weather information as well as warnings regarding natural, man-made, or technological hazards	Added "Giving away inventory as prizes at community events and promoting use of smartphone apps" to Notes.
Develop a central data collection process to report hazard incidences and resulting deaths, injuries, and property or crop damages	Completed. Calls are logged on record in CAD system and reported to WEM via WebEOC.
Develop/maintain comprehensive safety plan for all municipal-owned buildings	Changed "Develop" to "Develop/maintain" in Project and changed Project Timetable from "2020-2025" to "Ongoing"
Collect remaining building footprints for all structures in the villages and cities to allow for analysis of where facilities/structures are located AND Collect building height data for all structures in the County	Combined "building footprint" and "building height data projects," changed Priority from "Low" to "High," Project Timetable from "2020-2025" to "TBD," and Estimated Cost from "Costs to be determined" to "County Budget."
Use of early warning system through pagers and NOAA weather radios	Completed. No longer have a pager system. Added previous pagers to RAVE early warning.
Research, develop, and assess inter-operability plans	Added.
Animal protection	Added "animal shelters and human society" to Responsible Party, added "County has a pet trailer" to Notes, and Project moved to All Hazards from Hail
Continue to provide safety information to the public during periods of extreme temperature	Removed from both Extreme Cold and Extreme Heat and moved to All Hazards. Changed "extreme temperature" to "inclement weather" and added "Social media is used for outreach in all inclement weather."
Continue to distribute awareness/educational materials to inform public of safety procedures to follow in a lightning storm	Project moved to All Hazards from Lightning
Provide information about protecting structures from lightning through use of fire resistant materials	Project moved to All Hazards from Lightning
Provide information to residents on land subsidence as needed	Project moved to All Hazards from Land Subsidence

Table ES.2: Mitigation Strategy Updates (Continued)

Project	Changes
Tornado and Strong Wind	
Continued investment and use of early warning system through pagers, NOAA weather radios, sirens, social media, and Code Red	Removed. This is covered by projects in the "All Hazards" category.
Assist personnel in schools and businesses, public facility managers, mobile/manufactured home park managers, and citizens in determining "best available" tornado safety areas or need to construct safe rooms	Changed Project Timetable from "As needed" to "Ongoing" and removed note about 2011 fairgrounds plan.
Review and update Comprehensive Safety Plan for all county-owned buildings	Changed Responsible Party from "County Emergency Services" to "County Departments."
Consider adoption of ordinances requiring construction of safe shelters for mobile/manufactured home parks, fairgrounds, or other vulnerable public places	Changed Project Timetable from "2020-2025" to "2025-2030." Removed "County Planning and Park Commission" from Responsible Party. Added "County emergency management support" to Notes.
Winter Storm	
	No changes
Hail	
Animal protection	Project moved from Hail to All Hazards "Animal shelters and human society" added to Responsible Party, "County has a pet trailer" added to Notes.
Flooding	
Land use planning	Changed Project Timetable from "2018-2020" to "Ongoing."
Continue to issue early warnings through flood advisory bulletins	Added "NOAA" to Responsible Party.
Dissemination of instructions to the public through the media	Removed "Joint Dispatch Center" from Responsible Party and added "County Emergency Services."
Handle the evacuation of people and property in the case of a severe flood event	Changed estimated cost from "Covered by existing budgets" to "Dependent on budgets available."
Review and update floodplain zoning ordinances as necessary	Changed "Updated in 2010" to "Updated in 2023" in Notes.
Sand-bagging when necessary	County Emergency Services provides empty bags for a small cost; City of Two Rivers provides empty bags for free
Extreme Cold	
Continue to provide safety information to the public during periods of extreme temperature	Removed from both Extreme Cold and Extreme Heat and moved to All Hazards. Changed "extreme temperature" to "inclement weather" and added "Social media is used for outreach in all inclement weather."
Organize outreach to vulnerable populations during periods of extreme temperature provide information about places to go during extreme cold	Removed "including the establishment and promotion of accessible heating or cooling centers in the community" and added "provide information about places to go during extreme cold."



Table ES.2: Mitigation Strategy Updates (Continued)

Project	Changes
Extreme Heat	
Continue to provide safety information to the public during periods of extreme temperature	Removed from both Extreme Cold and Extreme Heat and moved to All Hazards. Changed “extreme temperature” to “inclement weather” and added “Social media is used for outreach in all inclement weather.”
Organize outreach to vulnerable populations during periods of extreme temperature and provide information about places to go during extreme heat	Removed “including the establishment and promotion of accessible heating or cooling centers in the community” and added “provide information about places to go during extreme heat.”
Lightning	
Continue to distribute awareness/ educational materials to inform public of safety procedures to follow in a lightning storm	Project moved from Lightning to All Hazards
Provide information about protecting structures from lightning through use of fire resistant materials	Project moved from Lightning to All Hazards
Drought	
Identification of areas with potential ground water level problems and inspection of shallow wells in those areas for adequate depth and construction	Changed Project Timetable from “2020-2025” to “2025-2030.”
Dense Fog	
	No changes
Wildland Fires	
Develop local ordinances to require burn permits and restriction of campfires and outdoor burning	Changed Project Timetable from “2020-2025” to “2025-2030.”
Coordinate public outreach efforts to promote such things as non-combustible roof covering, fire safe construction, safe burning, and the importance of clearing brush and grass away from buildings	Removed “non-combustible roof covering, fire safe construction” from project
Coastal Hazards	
	No changes
Land Subsidence	
Provide information to residents on land subsidence as needed	Project moved from Land Subsidence to All Hazards.

# I. Introduction

## Purpose of the Plan

The Manitowoc County Hazard Mitigation Plan is developed to evaluate the planning area’s potential exposure to hazards and to identify appropriate mitigation strategies. Consistent with the Code of Federal Regulations (44 CFR Part 201.6), this plan conforms to Federal Emergency Management Agency (FEMA) requirements for local hazards mitigation planning.

This plan provides county-level information on areas of risk, magnitude of risk, and strategies for reducing this risk from hazards. Through the process of developing this plan, the county addressed issues related to the protection of lives and property from hazards, the protection of critical facilities, and the reduction of community and taxpayer costs associated with disaster relief and rescue efforts. Completion and approval of the plan deems Manitowoc County an eligible applicant for future FEMA disaster relief and mitigation project funds, helping the county to implement their recommended mitigation strategies.

## Disaster Mitigation Act of 2000

The development and update of the Manitowoc County Hazard Mitigation Plan is in response to passage of the Disaster Mitigation Act of 2000. This act was signed into law in October of 2000. The act was designed to reduce losses from disasters, lessen future public and private expenditures, and speed up response and recovery from disasters. The act (Public Law 106-390) was amended by the Robert T. Stafford Relief and Emergency Assistance Act. The following is a summary of the parts of the Disaster Mitigation Act of 2000 that pertain to local governments and tribal organizations:

- The act establishes a new requirement for local governments and tribal organizations to prepare a hazard mitigation plan in order to be eligible for funding from FEMA through the Pre-Disaster Mitigation Assistance Program and the Hazard Mitigation Grant Program
- The act establishes a requirement that natural hazards need to be addressed in the risk assessment/vulnerability analysis part of a hazard mitigation plan. Man-made/technological hazards are encouraged, but not required to be addressed.
- The act authorizes up to seven percent of Hazard Mitigation Grant Program funds available to a state after a federal disaster to be used for development of state, local and tribal organization hazard mitigation plans.
- The act established November 1, 2004, as the date by which local governments and tribal organizations are to prepare and adopt their respective plans in order to be eligible for the FEMA Hazard Mitigation Grant Program; this deadline was November 1, 2003, for the Pre-Disaster Mitigation Program.
- If a plan is not prepared by November 1, 2004, and a major disaster is declared, in order for a local government or tribal organization to be eligible to receive funding through the Hazard Mitigation Grant Program, they must agree to prepare a hazard mitigation plan within one year.
- In addition, not having a current, FEMA-approved, and adopted hazard mitigation plan will prevent local and tribal governments from utilize funding through the Pre-Disaster Mitigation Grant Program. Such federal funding hinges on the community being covered by a hazard mitigation plan within one year.

## Funding of the Hazard Mitigation Plan

In May 2023, Manitowoc County received a planning grant to develop an update to their hazard mitigation plan in the amount of \$27,300 from Section 404-Hazard Mitigation Grant Program (HMGP) under Presidential Disaster Declaration FEMA-4520-DR-WI that was declared on April 4, 2020. Through the grant (Agreement #: 4520.29-P), FEMA provided 75 percent of the funds (\$20,475) and WEM provided a 12.5% state share (\$3,413), while the remaining 25 percent (\$3,413) was required by Manitowoc County to meet the local match. In addition to the project funds, FEMA provided an additional 5% of the total project costs (\$1,138) as management costs for activities associated with managing the grant.

Manitowoc County entered into a contract (#23017-05) with the Bay-Lake Regional Planning Commission to prepare the update to the hazard mitigation plan. Development of the plan began in August 2023.

## **Resilience**

Human activities have major impacts on both local environments and major global systems. Since the industrial revolution, humans have drastically increased the level of greenhouse gases emitted into Earth’s atmosphere. Greenhouse gases include carbon dioxide, methane, nitrous oxide, and fluorinated gases which, when trapped in the atmosphere, create a “blanket” effect and cause the planet to warm. While there have been natural fluctuations of these gases in Earth’s atmosphere over long historical cycles, their levels have seen dramatic increases due to diverse human activities, including burning fossil fuels for transportation and energy, an increasingly industrialized food system and the associated land use change, and operation and maintenance of buildings.

These changing conditions have significant negative impacts on the human population and ecosystems. Over the past several decades, there have been changes to temperature and precipitation patterns, as well as frequently unpredictable extreme weather events that affect people all over the state, country, and world. These changes are important to incorporate into hazard mitigation planning as they are increasingly affecting hazard frequency and severity.

In order to address the negative impacts of changes in greenhouse gas concentrations in the atmosphere due to human activities, humans can undertake a combination of two approaches: mitigation and adaptation.

### ***Mitigation***

Mitigation involves reducing greenhouse gas emissions. This can include reducing or eliminating polluting practices or industries, or changing practices to reduce pollution in a certain industry. The Clean Water Act began regulating pollutant discharge into water and has led to restoration and recovery of healthy and safe waters.

Mitigation of greenhouse gases can occur at all levels of government, industry, and society. Governments and industry have the greatest potential to make changes that have rapid and widespread effects, but individuals and communities can reduce emissions in small ways through decreasing energy use, changing diets and reducing food waste, and utilizing active transportation.

### ***Adaptation***

Adaptation addresses changing conditions by identifying and preparing for the impacts of those changes. Impacts include increased flooding, heat waves, lengthened growing seasons, warmer winters, and more extreme weather events. These put human populations and ecosystems at risk, but in this plan and through other approaches, Manitowoc County can identify and implement initiatives that reduce vulnerability to these changes.

Adaptation measures communities can implement include updating stormwater infrastructure to handle bigger floods, including incorporating nature based solutions; reassessing floodplain zoning to avoid property damage; and identifying vulnerable populations and developing emergency action plans in the event of extreme heat events. Adaptation can simultaneously benefit human communities and their local environment.

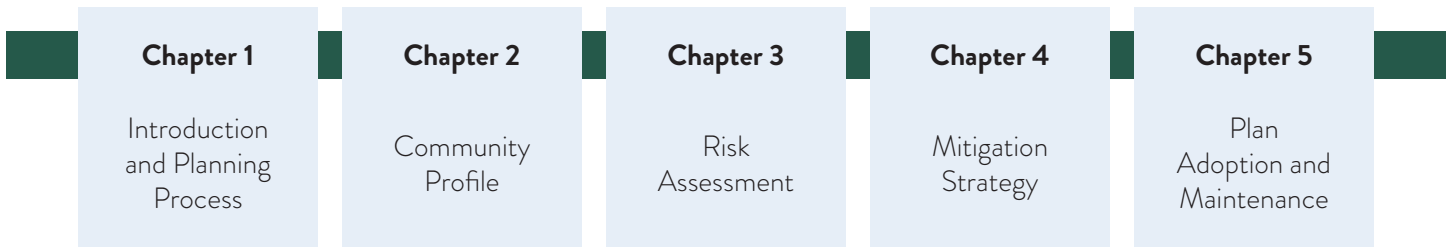
### ***Future Changes and Resilience***

Even with aggressive mitigation efforts, the climate will continue to change over the next 50 to 100 years because of the concentration and longevity of greenhouse gases already in the atmosphere. It is important to pursue both mitigation and adaptation measures in order to remain resilient and reduce hazard risk in the face of changing conditions.

# I. Introduction

## Plan Elements

The Manitowoc County, Wisconsin Hazard Mitigation Plan is divided into five chapters in order to address FEMA’s local mitigation plan requirements. The five chapters are as follow:



## Planning Process

The Manitowoc County Hazard Mitigation Plan was based on the planning requirements and guidance provided by FEMA and WEM. Following these requirements and guidance, the plan meets the requirements of the Disaster Mitigation Act of 2000. The WEM guidance for hazard mitigation plans recommends that planning areas “be consistent with a community’s comprehensive planning boundary,” so the planning area for this plan includes all of Manitowoc County with its three cities (Manitowoc, Two Rivers, and Kiel), nine villages (Cleveland, Francis Creek, Kellnersville, Maribel, Mishicot, Reedsville, St. Nazianz, Valders, and Whitelaw), and eighteen towns (Table 2.1).

The steering committee, comprised of county, city, and village representatives, emergency management personnel, and businesses, guided the plan development process over an 12-month time-frame beginning in August 2023. Professional planning support and facilitation was provided by the Bay-Lake Regional Planning Commission. Public review and input was encouraged at all meetings and through a public informational meeting to present the plan goals, mitigation actions plan, and mapped hazard areas.

Development of the plan was structured in a five-phase planning process:

- » Phase 1: Pre-planning and review of steering committee appointments
- » Phase 2: Reassessing risks and critical factors
- » Phase 3: Updating the mitigation action plan
- » Phase 4: Reviewing the policies and procedures for plan implementation
- » Phase 5: Documenting the planning process and plan action

Phase 1 involved initial conversations and meetings to review previous steering committee appointments and representation, invitations to new and returning committee members, reconvening the committee, and outlining the planning process and division of responsibilities.

Phase 2 included meetings with the steering committee to reassess identified critical facilities, natural hazards, and associated potential risks to the county.

Phase 3 involved updating the mitigation strategy to address identified risks including removing completed tasks and adding new mitigation actions to address risks.



















Phase 4 involved reviewing the policies that affect plan implementation and the procedures to implement the plan.

Phase 5 involved documenting the planning process, developing a complete plan draft, plan review, and final plan adoption.

Plan development was completed with the adoption of the plan by resolution at the Manitowoc County Board. The maps in the Planning Area and Risk Assessment chapters of the plan were completed using the Bay-Lake Regional Planning Commission’s Geographic Information System (GIS). Maps included in this plan are for general planning purposes only and are not for legal or formal survey purposes.

**Hazard Mitigation Plan Steering Committee**

Manitowoc County established a steering committee for the plan development. The steering committee was responsible for providing input, helping to guide the planning process, and reviewing draft chapters of the plan.

-  **Rhonda Green**, Director, Manitowoc County Emergency Services
-  **Brenden Riley**, Deputy Director, Manitowoc County Emergency Services
-  **Andrea Raymakers**, Senior Planner, Manitowoc County Planning & Zoning
-  **Melissa Konop**, Manager, Manitowoc County Aging and Disability Resource Center
-  **Gerry Neuser**, Director, Manitowoc County Public Works
-  **Lexi Otis**, Health Educator, Manitowoc County Public Health
-  **Korina Aghmar**, Health Officer, Manitowoc County Public Health
-  **Todd Blaser**, Chief, City of Manitowoc Fire & Rescue
-  **Dan Koski**, Director, City of Manitowoc Public Works
-  **Casey Witterholt**, City Administrator, City of Kiel
-  **Josh Stradal**, Board Chair, Town of Manitowoc Rapids
-  **Steve Bacalzo**, Manager, Manitowoc Public Utilities
-  **Denny Smith**, EP Manager, Point Beach Nuclear - NextEra Energy
-  **Brian Nack**, Chief Deputy, Manitowoc County Sheriff’s Office
-  **Jason Orth**, Major, Manitowoc County Sheriff’s Office
-  **Dave Murack**, Chief, Two Rivers Fire Department
-  **Melissa Weisner**, Assistant Chief, Two Rivers Police Department
-  **Paul Granger**, Chief, Mishicot Police Department
-  **Izzy Fuller**, Environmental Planner, Bay-Lake Regional Planning Commission
-  **Brandon Robinson**, Executive Director, Bay-Lake Regional Planning Commission

**Jurisdiction Involvement**

All local government jurisdictions within the county were requested to participate in this hazard mitigation plan update process. In September 2023, the steering committee and the Bay-Lake Regional Planning Commission engaged the local communities in a multi-jurisdictional cooperation exercise to review and provide input on plan materials. Cities and villages were provided a listing of their critical facilities, goals identified in the current plan, and hazards mitigation actions, and were asked to review and comment on the materials. Additionally, they were asked to identify mitigation actions specific to their community. A letter that was sent to the cities and villages in Manitowoc County is found in Appendix B of this document. All towns received a similar letter that asked only for updates to their existing critical facility list. Responses were received from all three cities, all nine villages, and six of the county’s 18 towns (Mishicot, Maple Grove, Kossuth, Two Rivers, Rockland, and Cato). A list of those local jurisdiction representatives requested to participate during this planning process is found on the following table (Table 1.1).

Table 1.1: Jurisdictional Participation

Jurisdiction	Representatives	Position/Title
City of Kiel*	Joseph Jeanty	Chief of Police/Emergency Government Director
	Casey Witterholt	City Administrator
City of Manitowoc*	Mackenzie Reed	City Clerk
	Todd Blaser	Fire & Rescue Chief
	Dan Koski	Director Public Works
	Steve Bacalzo	Public Utilities Manager
City of Two Rivers*	Dave Murack	Fire Department Chief
	Melissa Weisner	Police Department Assistant Chief
Village of Cleveland	Stacy Grunwald	Director of Public Works
Village of Francis Creek	Margaret Peroutka	Village Clerk/Treasurer
Village of Kellnersville	Heather Dachelet	Village Clerk
Village of Maribel	Dale Bomski	Village Clerk/Treasurer
Village of Mishicot*	Kathy Reissmann	Village Clerk/Treasurer
	Paul Granger	Village Police Chief
Village of Reedsville	Allen Schreiber	Village President
Village of St. Nazianz	Dan Gintner	Lead, Village Safety Committee
Village of Valders	Christopher Dallas	Village Fire Chief
Village of Whitelaw	Wendy Stoeckler	Village Clerk/Treasurer
Town of Cato	Mary Muench	Town Clerk
Town of Centerville	Paulette Vogt	Town Clerk
Town of Cooperstown	Susan Kornely	Town Clerk
Town of Eaton	Paulette Vogt	Town Clerk
Town of Franklin	Cary Nate	Town Clerk
Town of Gibson	Linda Herman	Town Clerk
Town of Kossuth	Dana Tesarik	Town Clerk
Town of Liberty	Pam Petersen	Town Clerk
Town of Manitowoc	Geraldine Gilbert	Town Clerk
Town of Manitowoc Rapids*	Jessica Backus	Town Clerk
	Josh Stradal	Town Board Chair
Town of Maple Grove	Tiffany Walt	Town Clerk
Town of Meeme	Valerie Spindler	Town Clerk
Town of Mishicot	Sarah Kowalski	Town Clerk
Town of Newton	Alyssa Grotegut	Town Clerk
Town of Rockland	Linda Gilbertson	Town Clerk
Town of Schleswig	Beth Pieper	Town Clerk
Town of Two Rivers	Bonnie Timm	Town Clerk

\* Steering Committee Representation

During the assessment of natural hazard conditions, the plan steering committee reviewed the prioritization of the various potential natural hazards facing the planning area. The hazards addressed in this plan are listed below in order of priority.

1. Tornado and Strong Wind
2. Winter Storm
3. Lightning and Thunderstorms (including hail storms)
4. Extreme Cold
5. Flooding
6. Drought
7. Excessive Heat
8. Dense Fog
9. Wildland Fires
10. Dam Failure

The steering committee reviewed and analyzed each section of the plan, and subsequently Table ES.1 was developed to document the sections of the plan that were revised as part of the update process. The steering committee held ----- meetings to update the plan:

- October 2, 2023
- November 30, 2023
- February 26, 2024
- April 9, 2024

Copies of the sign-in sheets are included in [Appendix A](#).

## Public Involvement

### Steering Committee Meetings

All steering committee meetings were open to the public. All meetings provided opportunities for public comment during the drafting of the plan.

### Project Webpage

The Bay-Lake RPC hosted a project webpage on their website throughout the planning process. This page included an overview and timeline of the plan update process, the list of steering committee members, contact information for the planning team, and a feedback form. This feedback provided an opportunity for anonymous comments on the plan, and the form was available in both English and Spanish.

### Public Informational Meetings

Several informational meetings were held for the public including on May 29, 2024 at the Kiel Community Center; June 12, 2024 at the Mishicot Village Hall; and June 20, 2024 at the Manitowoc County Emergency Operations Center (EOC) at 1024 S 9th Street in the City of Manitowoc. These meetings were held to provide additional opportunity for the public to review and comment on the draft plan and maps. No comments were provided by the public at these meetings. Both the steering committee meetings and the public informational meetings were open to the public and notices were posted by the county.

### County Board Meeting

On \_\_\_\_\_, the Manitowoc County Board adopted the hazard mitigation plan at a public meeting. A copy of the resolution of adoption can be found at the front of this plan on page \_\_\_\_\_.

### Neighboring Jurisdictions

A copy of the Manitowoc County, Wisconsin Hazard Mitigation Plan and an invitation to the public informational meeting was sent to the emergency management directors in counties adjacent to Manitowoc County including Sheboygan, Kewaunee, Calumet, and Brown counties for their review and comment.

### Local and Regional Agency Involvement

The plan update process also involved gathering input from local and regional agencies that have a role in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia, and other private and non-profit interests. The following entities participated as Hazard Mitigation Plan Steering Committee members and attended the majority of the meetings throughout the planning process to provide feedback and insight into hazard mitigation goals and strategies for Manitowoc County.

- Melissa Konop, Manager, Manitowoc County Aging and Disability Resource Center
- Lexi Otis, Health Educator, Manitowoc County Public Health
- Korina Aghmar, Health Officer, Manitowoc County Public Health
- Denny Smith, EP Manager, Point Beach Nuclear - NextEra Energy
- Audrey Erdmann, Disaster Program Manager, Red Cross-Northeast WI Chapter
- Izzy Fuller, Environmental Planner, Bay-Lake Regional Planning Commission
- Brandon Robinson, Executive Director, Bay-Lake Regional Planning Commission



### **Underserved Communities and Vulnerable Populations**

During this plan update process, an emphasis was placed on underserved communities and socially vulnerable populations. These concepts present an opportunity to expand local hazard mitigation plans to help increase the community benefits of hazard mitigation

The term “underserved communities” refers to populations sharing a particular characteristic or geography that have been systematically denied a full opportunity to participate in aspects of economic, social, and civic life. “Social vulnerability” is the potential for loss within an individual or social group, recognizing that some characteristics influence an individual’s or group’s ability to prepare for, respond to, cope with, or recover from an event.

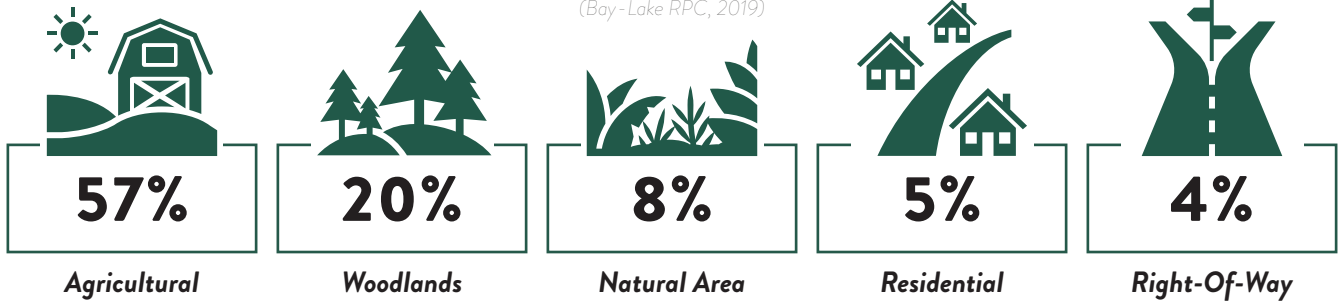
Within Manitowoc County and its communities, a number of general population groups that are often identified as underserved or vulnerable were identified. These include school aged children, disabled persons, the elderly, minorities, persons who speak with limited English proficiency, and low income individuals or families. Geographic analysis of several of these populations was conducted (Appendix E) to assist with the analysis and discussion of the underserved and/or socially vulnerable populations within Manitowoc County.

Outreach and involvement to address underserved or vulnerable populations included identifying and contacting agencies and organizations that advocate or serve those individuals including the Manitowoc Aging and Disability Resource Center and Manitowoc County Public Health Department.

# II. Community Profile

## Land Use

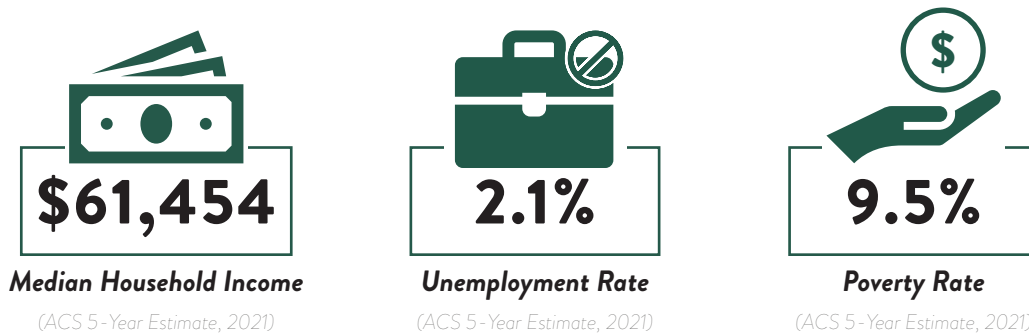
### Top 5 Land Uses (Bay-Lake RPC, 2019)



## Demographics and Housing



## Economic Characteristics



Map 2.1: Location map

# Manitowoc County, Wisconsin



# II. Community Profile

## Geography

The planning area for the Manitowoc County, Wisconsin Hazard Mitigation Plan covers Manitowoc County and all of the municipalities within the county. The county has 12 incorporated communities (three cities and nine villages).

Map 2.1: Location Map illustrates the location of Manitowoc County and its municipalities. Table 2.1 indicates the geographical size of the county as well as the size of each municipality within the county.

Table 2.1: Manitowoc County Planning Area

Municipality	Total Planning Area (Miles <sup>2</sup> )
City of Kiel	2.65
City of Manitowoc	18.16
City of Two Rivers	6.53
Village of Cleveland	1.99
Village of Francis Creek	1.14
Village of Kellnersville	0.54
Village of Maribel	1.15
Village of Mishicot	2.60
Village of Reedsville	1.22
Village of St. Nazianz	0.81
Village of Valders	1.43
Village of Whitelaw	0.53
Town of Cato	34.89
Town of Centerville	23.83
Town of Cooperstown	35.13
Town of Eaton	35.48
Town of Franklin	36.16
Town of Gibson	35.32
Town of Kossuth	38.64
Town of Liberty	35.49
Town of Manitowoc	6.11
Town of Manitowoc Rapids	27.31
Town of Maple Grove	35.36
Town of Meeme	36.29
Town of Mishicot	27.53
Town of Newton	34.35
Town of Rockland	35.28
Town of Schleswig	33.72
Town of Two Creeks	14.92
Town of Two Rivers	31.68
<b>Manitowoc County</b>	<b>596.25</b>

Source: Bay-Lake RPC, 2019

## Historical County Description

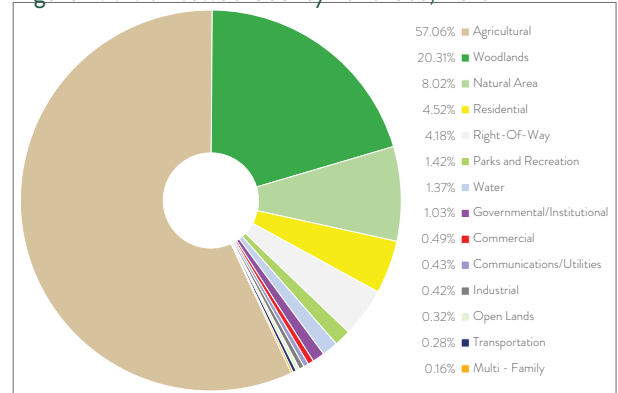
Manitowoc County was officially founded in 1836. In 1839, the county government was formed and the first courthouse followed a year later. Early county commissioners authorized the first roads to connect the farms and settlements of the area. Manitowoc County is located along Lake Michigan’s western shore in east central Wisconsin. The total land area of the county is approximately 380,000 acres. Manitowoc County is bordered by Brown and Kewaunee counties to the north, Calumet County to the west, Sheboygan County to the south, and Lake Michigan to the east. Map 2.1 details Manitowoc County’s location in Wisconsin.

## Development Pattern

A field inventory of county-wide land use was completed by the Bay-Lake Regional Planning Commission in 2019, which is shown on Map 2.2. Using GIS, land use types were tabulated to calculate the total area of Manitowoc County. (Table 2.1)

Figure 2.1 details that the largest land use category in the county is agricultural land (specifically croplands) with 217,671 acres (57.06 percent) of the land. Woodlands comprise 77,473 acres (20.31 percent) and natural areas cover 30,587 acres (8.02 percent).

Figure 2.1: Manitowoc County Land Use, 2019

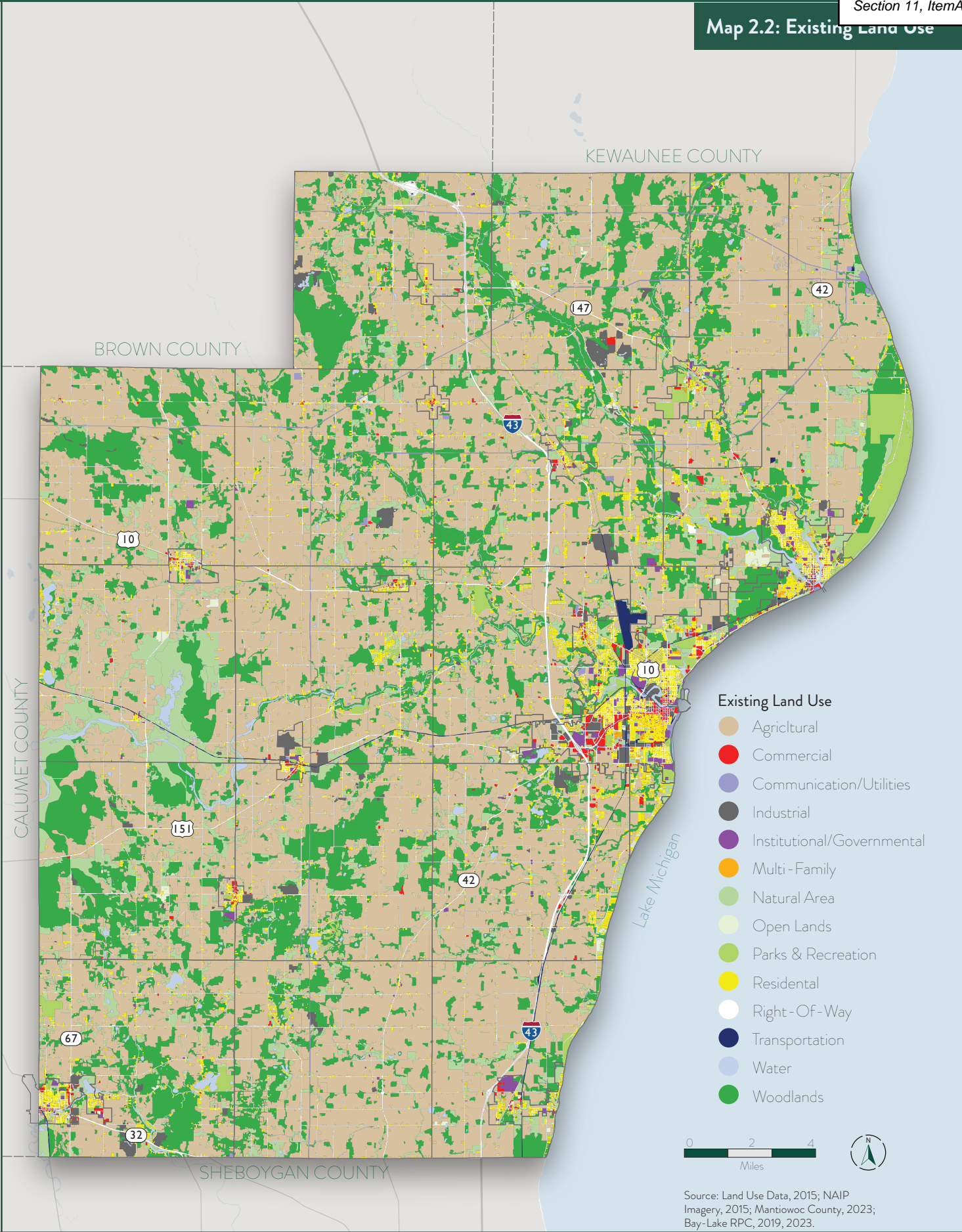


Source: Bay-Lake RPC, 2019

The amount of agricultural land being diverted to other uses over a period of time is a good indicator of how much development has occurred. According to the USDA Census of Agriculture, an average of 15.5 acres of agricultural land was sold each year between 2017 and 2022 in Manitowoc County. There was a total of 93 acres sold between 2017-2022. Preservation of farmland remains a primary goal of the county.

Approximately 49,317 acres or about 13 percent of Manitowoc County is developed. Developed land is comprised of residential, commercial, industrial, transportation, communications/utilities, governmental/institutional, and parks and recreation. According to the US Census, the majority of the housing growth over the last 10 years has occurred in the cities of Manitowoc and Kiel, along with the Village of Cleveland. Development has also occurred in some rural pockets of the county and along the Lake Michigan shoreline since the last hazard plan. However, several coastal developments have been impacted by shoreline/bluff erosion and flooding due to fluctuating lake levels and extreme weather events.

Map 2.2: Existing Land Use



# II. Community Profile

## Population

As of 2020, the total population in Manitowoc County was 81,358 people. This was a decrease of 83 people from the previous decade. Between 2000 and 2010, the population decreased by a much larger number of people (1,445).

- Between 2010 and 2020, there was a one percent overall population increase in the county’s three cities, no change in the villages, and a one percent decrease in the towns.
- The largest population growth in the county by percentage was the Village of Cleveland with just over a six percent growth, while Kiel experienced a five percent increase. The City of Manitowoc experienced the largest population growth by number of any municipality (890 people).
- 24 of Manitowoc County’s 30 municipalities experienced a loss in population between 2010 and 2020. The City of Two Rivers lost the largest number of people in the county with a decline of 441.

The data above reveals Manitowoc County’s population dip since the last hazard plan. Little-to-no change occurred in the rural areas and most population growth took place in two cities (Kiel and Manitowoc) and a village (Cleveland).

The Wisconsin DOA’s 2013 Population Projections indicate the county’s population is anticipated to vary over the next several decades increasing by as many as 830 additional people from 2020 to 2030 and then experiencing a decline of 3,310 individuals between 2030 and 2040. In addition, average household size is expected to decline from 2.36 in 2010 to 2.18 by 2040.

The WDOA population projections through the year 2050 are expected to be released sometime in 2024. The county should review the new projections for any significant changes that could impact future hazard mitigation planning efforts.

Figure 2.2: Manitowoc County Population Trends 2000-2020



Source: U.S. Decennial Census

Figure 2.3: Manitowoc County Population Projections 2020-2040



Source: WDOA Population Projections, 2013

Figure 2.4: Manitowoc County Population Pyramid 2020

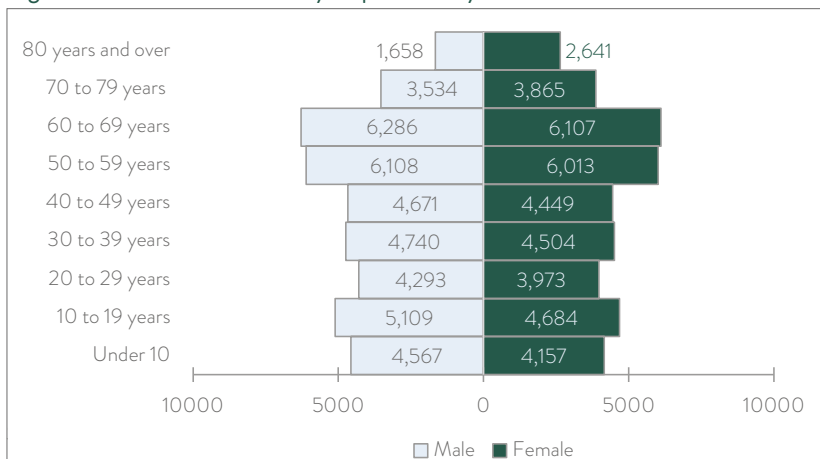


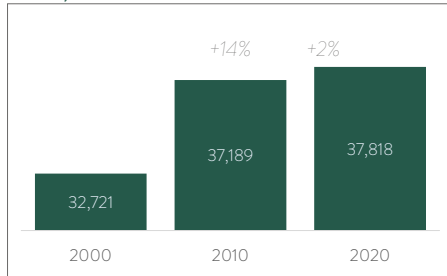
Figure 2.4 shows a breakdown of the Manitowoc County population in 2020 by age and sex. Males make up 50.35 percent of the population (40,966 people) and females make up 49.65 percent (40,393 people). The largest age categories are 60 to 69, followed by 50 to 59 and 10 to 19. The county has significant elderly and youth populations.

The median age in Manitowoc County is 44.8 years (ACS 5-Year Estimates, 2021).

## Housing

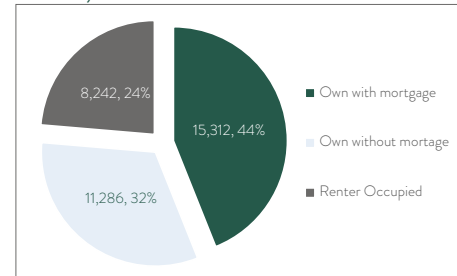
Since 2000, housing units in Manitowoc County have steadily grown. Over the two preceding decades, the county has gained over 5,000 housing units. The rate of growth slowed from 14 percent between 2000 and 2010 to two percent between 2010 and 2020. The largest portion of housing units in Manitowoc County are occupied by owner with a mortgage (44 percent), 32 percent are owned without a mortgage, and the remaining 24 percent are renter occupied.

Figure 2.5: Manitowoc County Housing Units, 2000-2020



Source: U.S. Decennial Census

Figure 2.6: Manitowoc County Housing Tenure, 2021

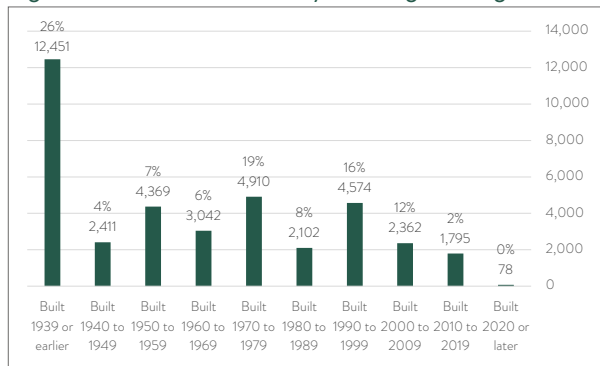


Source: ACS 5-Year Estimates, 2021

In 2020, there were approximately 37,818 housing units in Manitowoc County. Around a quarter of the homes were built in 1939 or earlier. Since the 1980s, the number of new housing units per decade has been declining. Between 1980 and 2009, Manitowoc County averaged slightly over 3,300 new housing units every 10 years.

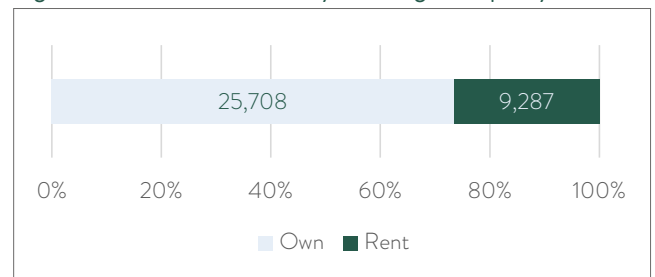
- Between 2010 and 2020 there were 629 new housing units which is significantly lower than the historical trends.
- According to the 2020 Census, over 71 percent of the housing units in the county are located in the cities and villages; this is an increase from 63 percent in 2010. New housing units in the cities of Manitowoc (322) and Kiel (127), and the Village of Cleveland (29) accounted for 76 percent of the new housing in all of Manitowoc County from 2010 to 2020.
- Just under 75 percent of housing units are owner occupied. The total housing unit vacancy rate was 7 percent in 2020.

Figure 2.7: Manitowoc County Housing Unit Age, 2020



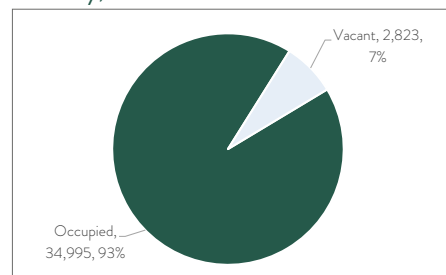
Source: ACS 5-Year Estimates, 2021

Figure 2.8: Manitowoc County Housing Occupancy, 2020



Source: U.S. Decennial Census, 2020

Figure 2.9: Manitowoc County Housing Vacancy, 2020



Source: U.S. Decennial Census, 2020

# II. Community Profile

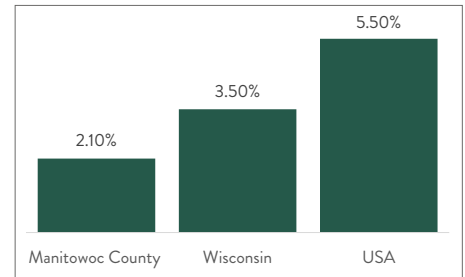
## Economy

### Labor Force

The civilian labor force is comprised of employed persons and those seeking employment. It excludes persons in the armed forces and those under age 16. Variations in the size of the labor force are the result of many factors, including shifts in the age and gender characteristics of the population, changes in the number of residents aged 16 and over, and the proportion of this group working or seeking employment.

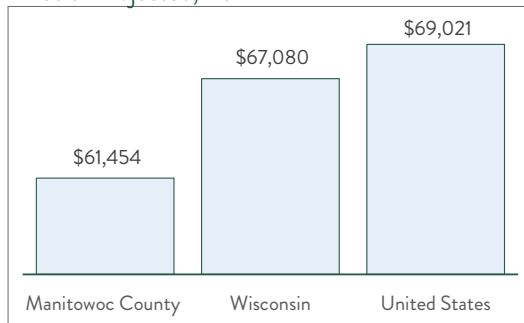
The unemployment rate of the civilian labor force in Manitowoc County is 2.1 percent (Figure 2.10). The unemployment rate in Manitowoc County is lower than both the state (3.5 percent) and the nation (5.5 percent).

Figure 2.10: Unemployment Rate, 2021



Source: ACS 5-Year Estimates, 2021

Figure 2.11: Median Household Income Inflation Adjusted, 2021



Source: ACS 5-Year Estimates, 2021

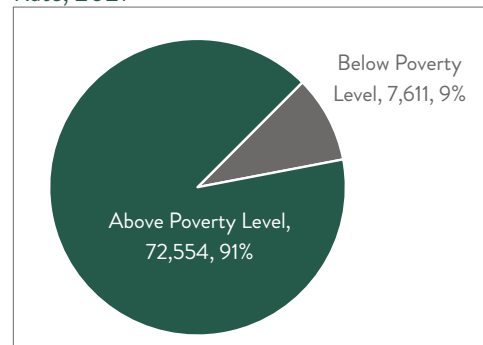
### Median Household Income

The median household income in Manitowoc County is \$61,454 per year, which is over \$5,000 less than Wisconsin’s median (\$67,080), and \$8,000 less than the United States (\$69,021). See Figure 2.11

### Poverty Rate

Manitowoc County’s poverty level of 9.5 percent is lower than the state and country’s poverty levels (10.7 percent and 12.6 percent, respectively). See Figure 2.12

Figure 2.12: Manitowoc County Poverty Rate, 2021



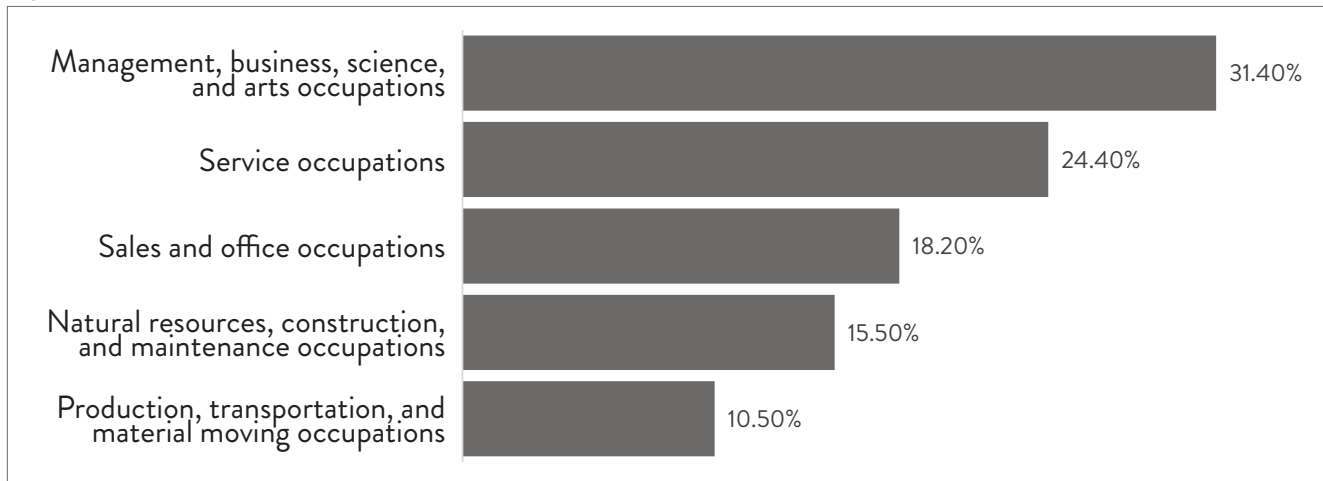
Source: ACS 5-Year Estimates, 2021



## Employment

Figure 2.13 represents the breakdown of the civilian employed population age 16 or older. The occupation category with the highest percentage of workers is management, business, science, and arts occupations, with nearly a third of the county's workforce in these occupations (31.4 percent). Service occupations make up approximately a quarter of the civilian workforce (24.4%).

Figure 2.13: Employment by Occupation



Source: ACS 5-Year Estimates, 2021

# III. Risk Assessment

In order to more effectively evaluate potential hazard mitigation measures and develop useful strategies to address the risks associated with the identified natural hazards, a risk assessment has been prepared for Manitowoc County. The risk assessment:

1. Identifies the natural hazards thought to pose the greatest risk to residents of the county,
2. Profiles the extent and severity of past natural hazard events that have affected the county, and
3. Assesses the vulnerability of the county to the risk of future natural hazard events.

## Hazard Identification

Although the county could potentially be at risk from several distinct natural and man-made hazards, this plan focuses on addressing the natural hazards that pose the greatest risk to people and property in the county. Identification of the natural hazards to be addressed was based on the existing hazard list, the hazards addressed by NCDC data, and the listing of the many different natural hazards identified in the Resource Guide to All Hazards Mitigation Planning in Wisconsin (prepared by the Association of Wisconsin Regional Planning Commissions and published in 2003 with funding provided by the State of Wisconsin Department of Military Affairs, Wisconsin Emergency Management, and the Federal Emergency Management Agency).

## Natural Hazards Prioritization

The steering committee for this Manitowoc County planning effort identified and ranked notable natural hazards to be the focus of the plan assessment and mitigation action strategies. Ranking the potential risks associated with each natural hazard helped the steering committee prioritize the mitigation action strategies that are addressed later in this plan. Several natural hazards in the prioritized list included a combination of NCDC event types for consistency (i.e., Tornado and Strong Wind: Strong Wind, Tornado, Thunderstorm Wind, High Wind, and Funnel Cloud; Winter Storm: Blizzard, Winter Storm, Heavy Snow, Lake-Effect Snow, and Winter Weather; Flooding: Flood and Flash Flood; Extreme Cold: Cold/Wind Chill and Extreme Cold/Wind Chill). The remaining hazards include just one corresponding NCDC event type category. The adjacent table lists the hazards in order of the steering committee’s prioritized ranking.

1	Tornado/Strong Wind
2	Winter Storm
3	Lightning and Thunderstorms (including hail storms)
4	Extreme Cold
5	Flooding
6	Drought
7	Extreme Heat
8	Dense Fog
9	Wildfires
10	Dam Failure

## Natural Hazard Events Historical Summary

The National Oceanic and Atmospheric Administration (NOAA) National Climatic Data Center (NCDC) publishes National Weather Service (NWS) data describing past weather events and the resulting deaths, injuries, and damages associated with each of these events. Event occurrence information is available at a local, county, or regional level – depending on the area covered by the hazard event. For the purposes of this plan, historical hazard event data was collected from January 1, 2000 through October 10, 2023. The query for the time period resulted in 297 events recorded (Table 3.1).

The data from the NCDC shows that of the 297 events, the natural hazards occurring most frequently in Manitowoc County between January 2000 and October 2023 include: tornado and strong wind, winter storms, hail, and flooding. Some of the recorded hazard events may not have been specific to the Manitowoc County, as they may have been recorded for a larger regional area, or statewide. Additionally, some of the common hazard events, such as lightning or dense fog, may only get reported to the NCDC if they are extreme events that cause property damage, injury, or death.

Two deaths (from extreme heat) and thirty injuries (from two-inch hail combined with near 100 mph wind) have been reported in Manitowoc County from hazard events since 2000. The most costly hazard event categories in terms of property damage since 2000 has been flooding, tornadoes and strong winds, hail, and lightning. The reported costs of crop damage and property damage can be found on Table 3.1.

Table 3.1: Manitowoc County Hazard Events (2000-2023)

Natural Hazard	# of Events <sup>1</sup>	Average #/Year	Risk <sup>2</sup>	Deaths	Injuries	Reported Crop Damage	Reported Property Damage <sup>3</sup>
Tornadoes and Strong Wind	122	5	High	0	0	\$20,500	\$2,006,000
Winter Storm	79	3	High	0	0	\$0	\$0
Hail	55	2	Moderate	0	30	\$5,190,000	\$53,515,000
Flooding	17	1	Moderate	0	0	\$20,000,000	\$650,000
Extreme Cold <sup>4</sup>	7	0	Low	0	0	\$0	\$0
Excessive Heat <sup>5</sup>	4	0	Low	2	0	\$0	\$0
Drought	3	0	Low	0	0	\$0	\$0
Lightning	4	0	Low	0	0	\$0	\$403,100
Coastal Hazards	4	0	Low	0	0	\$0	\$60,000
Dense Fog	2	0	Low	0	0	\$0	\$0
Land Subsidence	ND	ND	Low	ND	ND	ND	ND
Wildland Fires	ND	ND	Low	ND	ND	ND	ND
<b>Total Events</b>	<b>297</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>30</b>	<b>\$25,210,500</b>	<b>\$56,634,100</b>

ND = No data

1. January 1, 2000 to October 10, 2023 (23.78 years)

2. Risk based on occurrences per year: High >3; Moderate 1-3; Low <1

3. Does not factor in private losses for most occurrences.

4. Temperatures well below zero, or the combination of cold temperatures and high winds (NOAA)

5. A period of high heat and humidity that lasts for at least two to three days, with temperatures above 90°F (NOAA)

Source: NOAA NCDC Storms Database, 2000-2023.

## Disaster Declaration History

Between January 2000 and October 2023, 20 federal Major Disaster Declarations (DR) have been issued in Wisconsin. Manitowoc County was included in two of the declarations.

- On June 14, 2008, Manitowoc County was included in a major disaster declaration that was issued because of property damage resulting from severe storms, tornadoes, and flooding that occurred over a period from June 5 to July 25, 2008 and affected 30 counties across the southern half of Wisconsin (DR-1768).
- On January 20, 2020, FEMA issued a nationwide disaster declaration due to the Covid-19 pandemic (DR-4520-WI). The incident period ended on May 11, 2023.

# III. Risk Assessment

## Natural Hazards Determined Not to Pose a Significant Risk

The following natural hazards were determined to have a minimal chance of occurring or pose minimal risk to the safety of residents or property in Manitowoc County. These natural hazards are excluded from the full assessment, but are briefly discussed here to meet the comprehensive requirements for developing a natural hazards mitigation plan under federal law.

### Earthquakes

Low magnitude earthquakes do occur occasionally in Wisconsin, however, none have exceeded a magnitude of 3.9. According to the U.S. Geological Survey (USGS), there have been 14 earthquake events felt in Wisconsin since 1900.

The nearest active earthquake fault outside of Wisconsin is the New Madrid Fault, which stretches from northeast Arkansas to southern Illinois. Manitowoc County falls within the lowest earthquake hazard shaking area, which represents the levels of horizontal shaking which have a 1-in-50 chance of being exceeded in a 50 year period. Similarly, Manitowoc County falls within a 0%g to 1%g peak ground acceleration (PGA) zone as shown on the USGS PGA values map with a 10 percent chance of being exceeded over 50 years. Therefore, the county is considered unlikely to be substantially affected by earthquakes in the long-term future and are not fully assessed in this plan.

### Landslides

The term “landslide” includes a wide range of ground movement, including rock falls, deep failure of slopes, and shallow debris flows. Although gravity acting on an overly steep slope is the primary reason for a landslide, there can be other contributing factors, such as erosion by rivers, excess weight from the accumulation of rain or snow, or man-made and other structures stressing weak slopes to the point of failure. In addition, slope material that becomes saturated with water may develop a debris flow or mudflow. The U.S. Geological Survey Landslide Overview Map of the Conterminous United States identifies low landslide risks for the majority of Manitowoc County, with roughly the southern half of the Lake Michigan coast at moderate risk. The majority of the land within Manitowoc County does not involve steep slopes and does not pose a landslide risk.

While there are steeper portions of the county, the soils involved pose more of a gradual erosion risk, as opposed to the sudden, large-scale movement of ground associated with landslide hazards. Hillside erosion (minor landslides) within the county is very uncommon, and may be the result of man-made impacts, such as the removal of vegetation. Hillside erosion has not posed substantial risk to life or property, and has been largely mitigated through subdivision law, site plan reviews, and erosion control plans for construction sites.

There are no records of substantial damage or injury from large landslides within Manitowoc County, and these hazard threats are considered low.

## Risk and Vulnerability Assessment

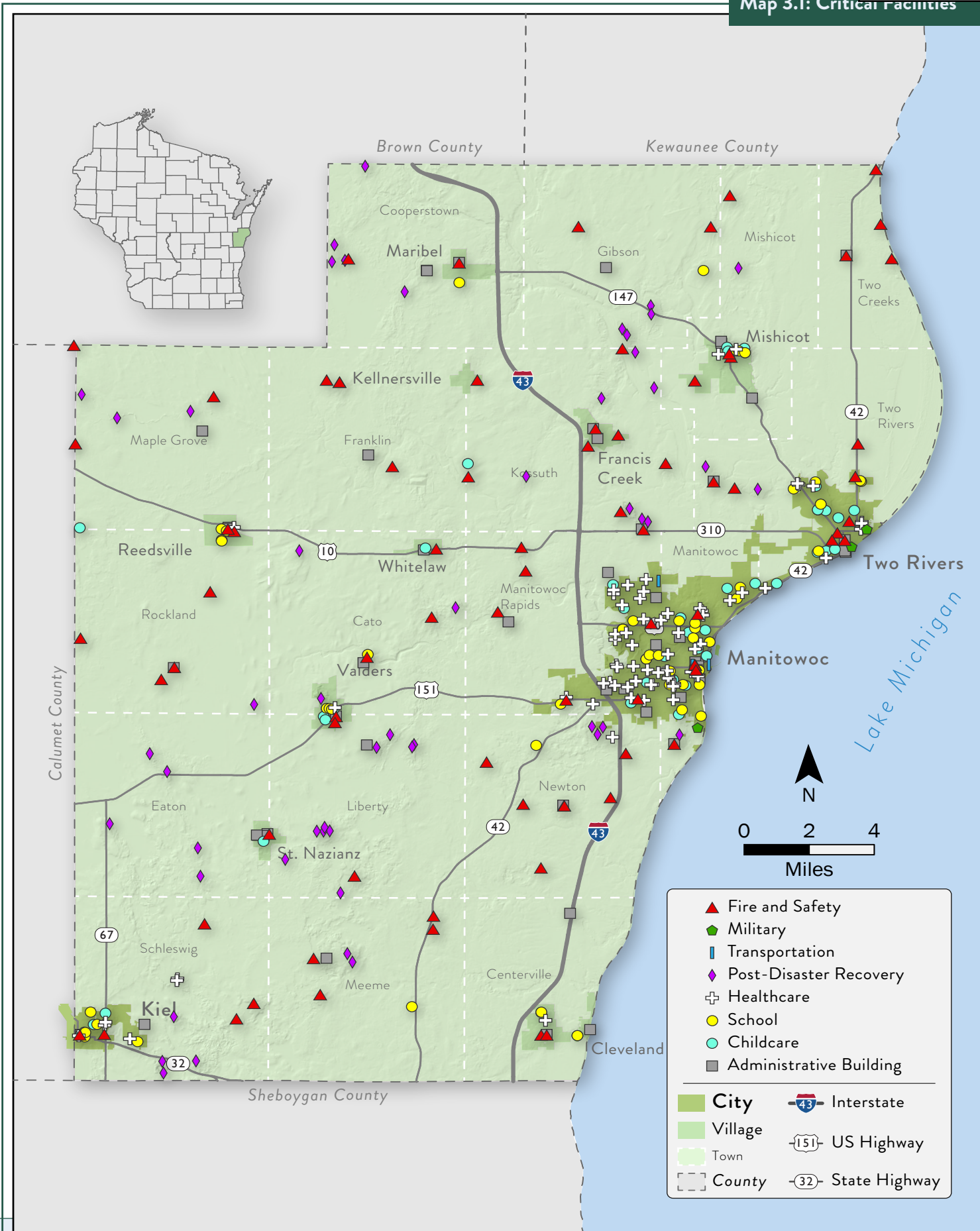
The risk and vulnerability assessment is intended to describe the frequency, severity, and probability of future occurrence of natural hazards that could impact the planning area. The following hazard profiles attempt to historically describe the characteristics of each natural hazard and how they have affected the population, infrastructure, and environment of the planning area, and the potential risk to the population and property that could occur because of each of these natural hazards.

### Critical Facilities & Utilities

Although the risk assessment focuses on the risk potential to the overall planning area, critical facilities and utilities are of particular concern. Critical facilities and utilities are necessary to preserve health, welfare, and quality of life in the county, and fulfill important public safety, emergency response, and/or disaster recovery functions, or they house vulnerable populations (such as schools, childcare, and mobile/manufactured home parks).

Critical facilities and utilities in the planning area are identified and illustrated on maps 3.1 and 3.2. Table 3.2 lists the types and number of critical facilities and utilities within the county. Table 3.3 lists the critical facilities and utilities by municipality.

Map 3.1: Critical Facilities



Map 3.2: Critical Utilities

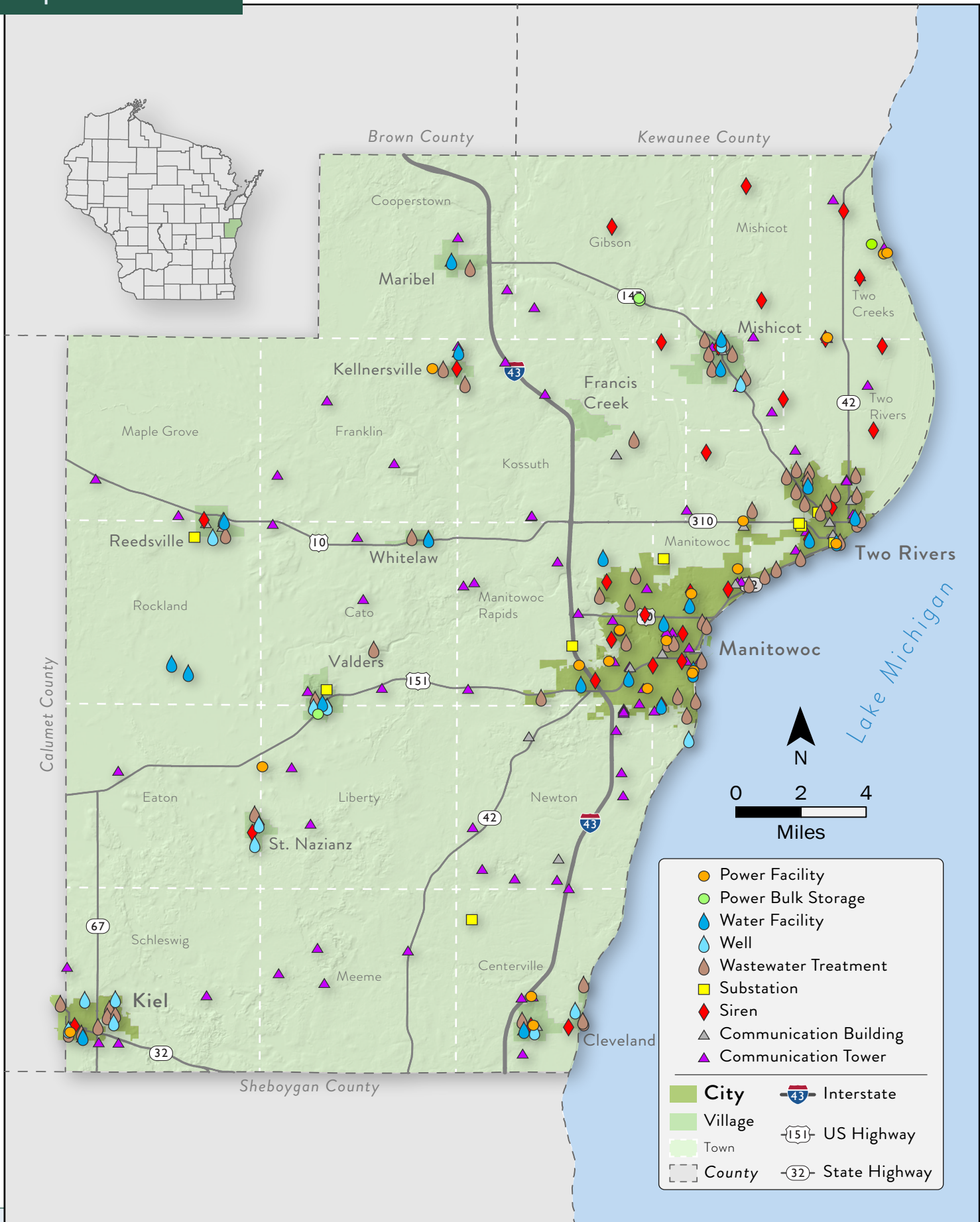


Table 3.2: Number of Critical Facilities and Utilities by Type

Type	Number of Critical Facilities/Utilities
Administrative Building	56
Bridge	291
Communication Facility	134
Dam	10
Fire and Safety	78
Licensed Childcare Facility	45
Licensed Healthcare Facility	67
Mobile/Manufactured Housing	14
Military Installation	3
Post-Disaster Recovery Site	51
Power Facility/Bulk Fuel Storage	34
School	48
Transportation Facility	3
Wastewater Treatment Facility	62
Water Supply	40
<b>Total</b>	<b>936</b>

Source: Bay-Lake Regional Planning Commission, 2024

Table 3.3: Number of Critical Facilities and Utilities by Municipality

Municipality	Number of Critical Facilities/Utilities
City of Kiel	40
City of Manitowoc	203
City of Two Rivers	82
Town of Cato	20
Town of Centerville	33
Town of Cooperstown	42
Town of Eaton	12
Town of Franklin	20
Town of Gibson	27
Town of Kossuth	47
Town of Liberty	18
Town of Manitowoc	14
Town of Manitowoc Rapids	38
Town of Maple Grove	13
Town of Meeme	25
Town of Mishicot	14
Town of Newton	50
Town of Rockland	23
Town of Schleswig	24
Town of Two Creeks	23
Town of Two Rivers	21
Village of Cleveland	30
Village of Francis Creek	8
Village of Kellnersville	6
Village of Maribel	6
Village of Mishicot	36
Village of Reedsville	23
Village of St. Nazianz	11
Village of Valders	21
Village of Whitelaw	6
<b>Total</b>	<b>936</b>

Source: Bay-Lake Regional Planning Commission, 2024

# III. Risk Assessment

## Hazard Profiles

Hazard profiles describe the frequency, severity, and probability of future natural hazards that could have an impact on Manitowoc County. These hazard profiles describe historic causes and characteristics of each natural hazard and how they have impacted the population, infrastructure, and environment of the county. These potential risks are evaluated to determine their likelihood of re-occurrence and to gauge the impacts to the existing (or planned) population and property that could occur as a result of these hazards.

Hazard probabilities are represented as high, medium, and low. High probability hazards are defined as hazards that occur an average of more than once per year; medium probability hazards are those that occur an average of more than once every two years, but not more than once per year; and low probability hazards occur less frequently than once every two years.

## Effects of Future Changing Conditions on Natural Hazards

Changing conditions has already begun to impact Wisconsin, the U.S., and the world. These impacts include increases in heat waves, extreme weather events, flooding, droughts, and other climatic events.

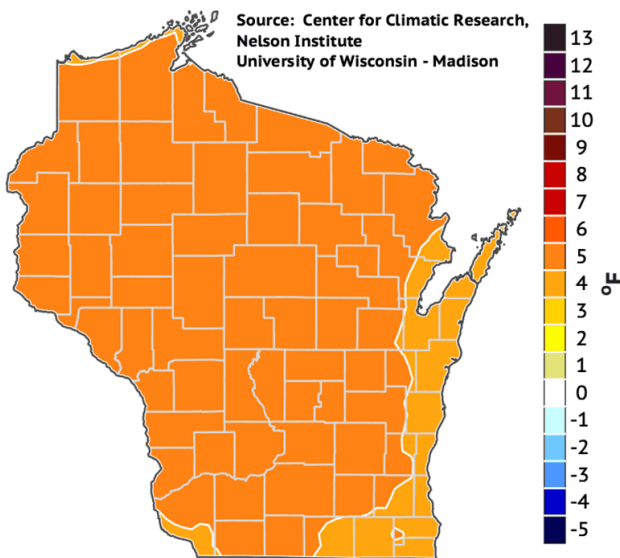
The Wisconsin Initiative on Climate Change Impact's (WICCI) 2021 Assessment Report outlines the changing conditions trends in Wisconsin. Overall, the report outlines Wisconsin's climate as becoming warmer and wetter. Springs and summers are seeing warmer temperatures and an increase in the intensity of rain and storm events, while seeing a decline in the number of precipitation events. Fall and winter are seeing warmer temperatures and an increase in precipitation. The winter months are seeing the largest changes in temperature and precipitation.

## Manitowoc County Future Changing Conditions Impacts

Manitowoc County could expect to see an increase in extreme storms, droughts, outbreaks of new pests that can survive in a warmer climate, flooding, heat, and other climatic stressors and events.

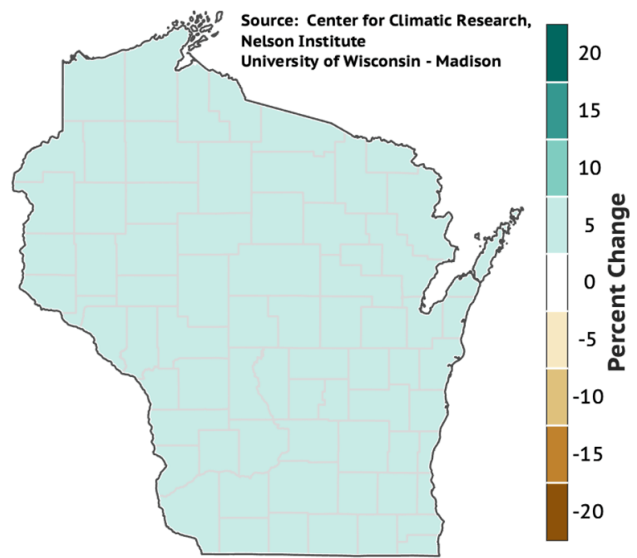
The maps below show projected change in annual average temperatures and precipitation through 2060.

**Change in Annual TMEAN, RCP45:  
2041-2060 minus 1981-2010**



Source: Wisconsin Initiative on Climate Change Impacts

**Change in Annual PRCP (%), RCP45:  
2041-2060 minus 1981-2010**



Source: Wisconsin Initiative on Climate Change Impacts





## Tornado and Strong Wind

### Description of Hazard

A tornado is a violently rotating column of air (vortex) extending from the base of a convective cloud (usually cumulonimbus) to the ground. Tornadoes form in many parts of the world under many types of conditions; however, the most common conditions in Wisconsin are intense squall lines and supercell thunderstorms. Tornadoes can be classified as supercell or nonsupercell. Supercell tornadoes are derived from supercell thunderstorms of which a key component is a rotating updraft. These tornadoes can be devastating. Non-supercell tornadoes are formed by a spinning column of air near the ground and tend to be short-lived and weaker than supercell tornadoes. Non-supercell tornadoes include gustnadoes, land spouts, and water spouts.

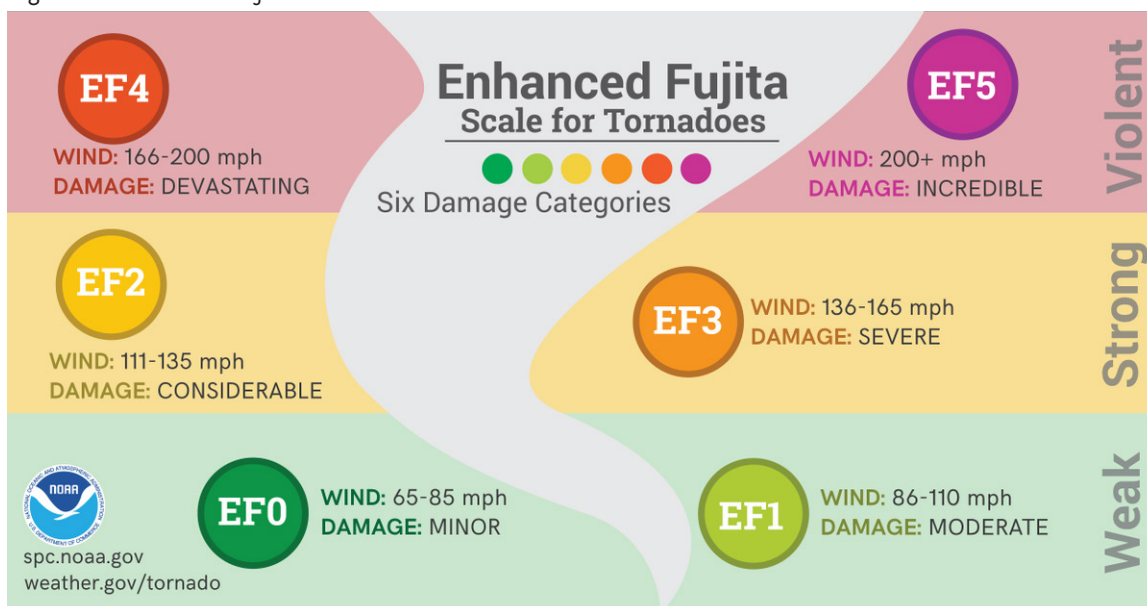
The destructive power of the tornado results primarily from strong wind velocities and sudden changes in pressure. Wind and pressure differentials probably account for 90 percent of the damage caused by tornadoes. Since tornadoes are generally associated with severe storm systems, they are usually accompanied by hail, torrential rain, and intense lightning. Depending on their intensity, tornadoes can uproot trees, down power lines and destroy buildings. Flying debris can cause serious injury and death.

Wisconsin lies along the northern edge of the nation’s maximum frequency belt for tornadoes (commonly known as “tornado alley”), which extends northeastward from Oklahoma into Iowa and then across to Michigan and Ohio. Generally, the southern and western portions of Wisconsin have a higher frequency of tornadoes; however, every county in Wisconsin has had tornadoes and is considered to be susceptible to a tornado disaster. According to the National Weather Service, tornadoes have occurred in Wisconsin in every month of the year.

Wisconsin’s tornado season runs from the beginning of April through September. The most severe tornadoes statewide typically occur during the months of April, May, and June. Many tornadoes strike in late afternoon or early evening. However, tornadoes have occurred during other times of the day. Personal property damage, deaths, and injuries have and will continue to occur due to tornado events in Wisconsin. The Figure 3.1 illustrates the Enhanced Fujita Scale (EF Scale), which is recognized as the tornado magnitude measurement rating.

Strong winds, including thunderstorm winds and high winds can often be just as damaging as a tornado. Strong winds are most likely to happen in the spring and summer months and during the afternoon and evening hours, but can occur throughout the year and at all hours.

Figure 3.1: Enhanced Fujita Scale (EF Scale)



Strong winds include downburst winds and high winds. Downburst winds are strong, concentrated, straight-line winds created by falling rain and sinking air that can reach speeds of 125 miles per hour. High winds are high speeds winds that can be as damaging as a tornado, but remaining nearly straight line and are not the rotating column of air that is characteristic of a tornado.

The National Weather Service classifies a thunderstorm as severe if its winds reach or exceed 58 miles per hour, produces a tornado, or drops surface hail at least 0.75 inch in diameter. Compared with other atmospheric hazards (such as tropical cyclones and winter low pressure systems), individual thunderstorms affect relatively small geographic areas. The average thunderstorm system is approximately 15 miles in diameter, covers 75 square miles, and lasts less than 30 minutes at a single location. However, weather monitoring reports indicate that coherent thunderstorm systems can travel intact for distances in excess of 600 miles.

### ***Previous Significant Hazard Occurrences***

According to National Climatic Data Center (NCDC), Manitowoc County has experienced 122 significant tornado and strong wind events (including funnel clouds, strong wind, high wind, and thunderstorm wind) from January 1, 2000 to October 10, 2023.

One significant tornado of note was an EF-1 in the Town of Cato that occurred on July 13, 2004 and caused \$1.6 million in damage.

### ***Hazard Frequency***

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately five significant tornado/strong wind events per year.

### ***Probability of Hazard Occurring in the Future***

Based on the hazard frequency, Manitowoc County is considered to have a high probability of experiencing a tornado/strong wind event in any given year.

### ***Areas at Greatest Risk***

Tornadoes and strong wind events have no defined hazard area within the county. Past events have been relatively uniform across the planning area making the events a countywide concern. However, mobile/manufactured home residents are often most vulnerable to death, injury, and property damage from tornadoes and strong winds due to the high concentration of individual homes that are more apt to be damaged than standard site-built homes. Therefore, mobile/manufactured home parks in the planning area are the areas of greatest risk from this hazard. Besides mobile/manufactured homes, campground patrons are vulnerable to tornadoes because there usually is little shelter provided. The following is a list of things that may be affected by a tornado in Manitowoc County.

- Community facilities – hospitals, schools, jails
- Public Service – police and fire departments
- Utilities – power lines, telephone lines, radio communication
- Transportation – debris clean-up, sign damage
- Residential – nursing homes, mobile/manufactured homes/parks, garages, trees and limbs,

Facilities considered most vulnerable to tornadoes are identified on Map 3.3.

## *Impacts from Hazard*

### **Death and Injury**

No deaths or injuries have been reported from tornado/strong wind events for Manitowoc County from January 1, 2000 to October 10, 2023, according to NCDC data.

### **Structures at Risk**

Although tornadoes strike at random, making all buildings vulnerable, there are three types of structures that are most likely to sustain damage. These structure types include mobile/manufactured homes, homes on crawlspaces, and buildings with vast spans.

Similar to severe thunderstorms, street signs often face disrepair after tornadoes/strong winds, and debris often litter streets and highways following a tornado, requiring clean-up. Downed trees caused by tornadoes/strong winds can be problematic in terms of impacting infrastructure (transportation, sewer, water, etc.) as well as critical facilities.

### **Critical Facilities**

All critical facilities in Manitowoc County are vulnerable to tornadoes and strong winds. Hospitals can see increases in patient load following tornadoes. Schools can sustain damage, and if they do not sustain damage, they often function as temporary shelters in the aftermath of tornadoes. Police and fire departments often see an increased workload during and after tornadoes. Power lines and communication towers are at risk of being blown down. Schools are a prominent concern because of the number of people present, either during school sessions or as a storm shelter; and secondly, they have large span areas, such as gyms and theaters.

Tornado safe rooms and shelters should be constructed using FEMA regulations and guidelines.

### **Economic Impacts**

A tornado can have a significant economic impact to a local economy due to irrecoverable businesses and infrastructure damages. A heavily damaged business, especially one that was struggling to make a profit, often never reopens after the hazard event.

Infrastructure damage is usually limited to above ground utilities, such as power lines. Damage to utility lines can usually be repaired or replaced relatively quickly. Damage to roads and to railroads is also localized; if these facilities cannot be repaired promptly, alternate transportation routes are usually available.

Public expenditures include search and rescue, shelters, and emergency protection measures. The greatest public expenditures for a community result from repairs to public facilities and the clean up and disposal of debris. Most public facilities are insured, so the economic impact on the local treasury is likely to be small. Clean up and disposal can be a larger problem, especially if there is limited landfill capacity near the damage site.

### **Property Damage**

Reported property damage from significant tornadoes/strong winds for Manitowoc County has totaled approximately \$2 million in public property and crop damages from January 1, 2000 to October 10, 2023 according to NCDC data.

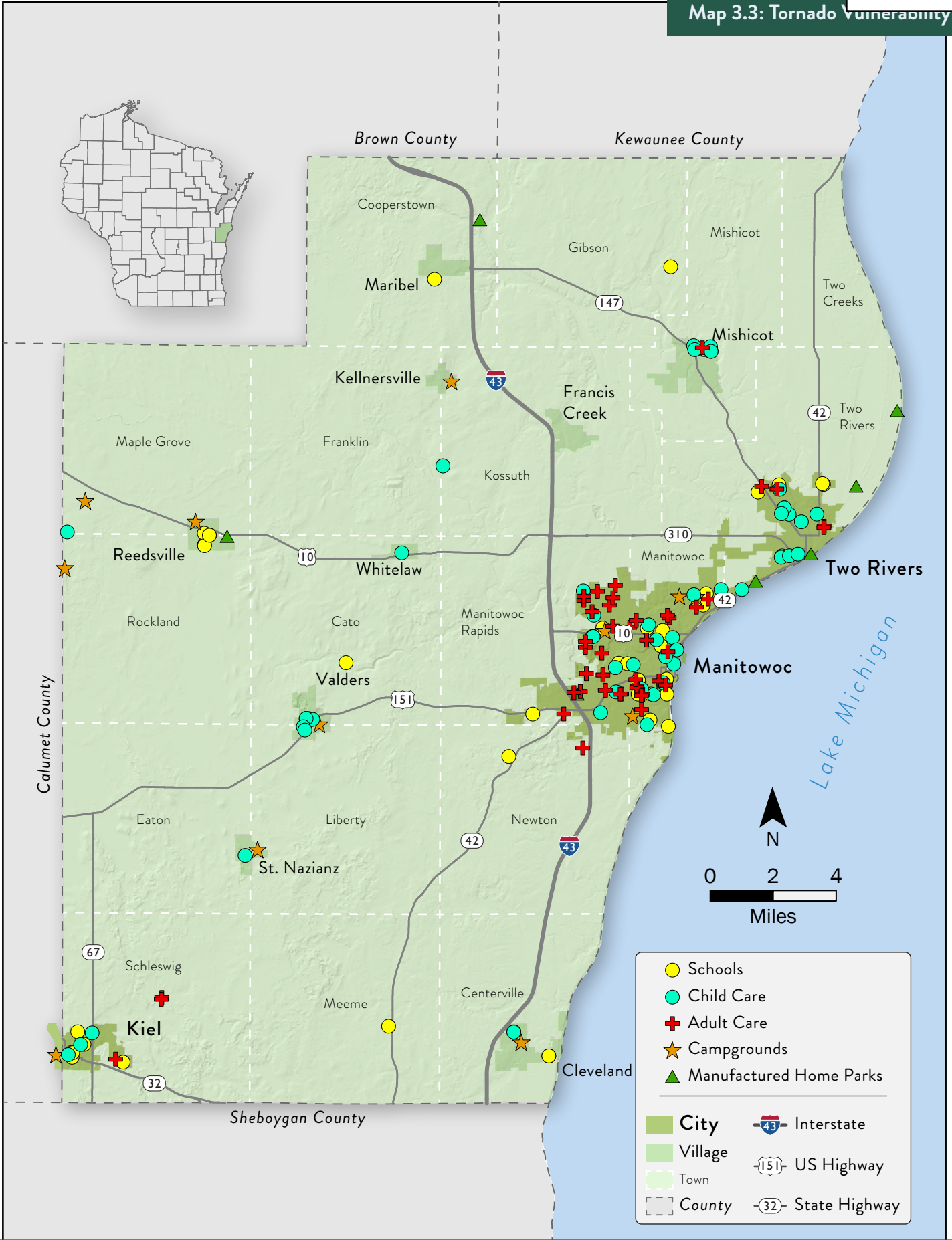
### **Estimate of Potential Dollar Losses**

Historic data is used to estimate potential future dollar losses due to tornado/strong wind events. Estimated damages resulting from various tornadoes in Manitowoc County range from \$2.0 million up to \$10 million depending on the number of events in a given year.

### **Impacts of Future Changing Conditions**

Future changing conditions may include an increase in the frequency of extreme weather events, including higher intensity thunderstorms and the risk of resultant strong winds and tornadoes. Because of the anticipated increase in frequency of thunderstorm events with possible strong winds and tornadoes, future impacts of tornado hazards can be expected to be higher than historic risk, and resulting damages will be higher.

Map 3.3: Tornado Vulnerability



# III. Risk Assessment

## Hail

### *Description of Hazard*

A severe thunderstorm can produce frozen precipitation, or hail. Hailstones are ice crystals that form within a low-pressure front due to warm air rising rapidly into the upper atmosphere and the subsequent cooling of the air mass. Frozen droplets gradually accumulate on the ice crystals until they develop sufficient weight and fall as precipitation. The size of hailstones is a direct function of the severity and size of the storm. Significant damage does not result until the hailstones reach 1.5 inches in diameter, which occurs in less than half of all hailstorms. Hail in Wisconsin ranges from pea-sized to golf ball-sized. Area coverage of individual hailstorms is highly variable and spotty because of the unstable nature of cumulonimbus clouds.

### *Previous Significant Hazard Occurrences*

According to National Climatic Data Center (NCDC), Manitowoc County has experienced 55 significant hail storm events from January 1, 2000 to October 10, 2023. Some of these reported occurrences may not have been specific to Manitowoc County, and may have been recorded for a larger regional area.

### *Hazard Frequency*

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately two significant hail storm events per year.

### *Probability of Hazard Occurring in the Future*

Based on the hazard frequency, Manitowoc County is considered to have a moderate probability of experiencing a significant hail storm event in any given year.

### *Areas at Greatest Risk*

Hail storms have no defined hazard area within the planning area. Past events have been relatively uniform across the planning area or the larger regional area.

### *Impacts from Hazard*

#### **Death and Injury**

No deaths and 30 injuries have been reported from hail events in Manitowoc County from January 1, 2000 to October 10, 2023, according to NCDC data. All 30 injuries occurred during one hail event in St. Nazianz on May 12, 2000 as a result of two-inch hail combined with near 100 mph wind.

#### **Structures at Risk**

Hail can inflict severe damage to roofs, windows, and siding, depending on hailstone size and winds.

#### **Critical Facilities**

Hail can inflict severe damage to roofs, windows, and siding of critical facilities, depending on hailstone size and winds.

#### **Economic Impacts**

Hail can damage or destroy crops. Taller crops, such as corn, are particularly vulnerable to hail. Costly damage can occur to roofs, windows, and siding, as well as automobiles, RVs, and boats (including the body, paint and windshields and other windows).

#### **Property Damage**

Reported property damage from significant hail events for Manitowoc County has totaled over \$58 million in public property and crop damages from January 1, 2000 to October 10, 2023 according to NCDC data.

\$46 million in property and crop damages occurred during one hail event in St. Nazianz on May 12, 2000 as a result of two-inch hail combined with near 100 mph wind.

**Estimate of Potential Dollar Losses**

An estimate of potential dollar losses cannot be calculated for hail storm events, since no vulnerable structures have been identified.

**Impacts of Future Changing Conditions**

Future changing conditions may lead to lead to more frequent, extreme weather events, particularly higher intensity thunderstorms and accompanying hail. Because of the anticipated increase in frequency of thunderstorms with resultant hail, future impacts of hail hazards can be expected to be higher than historic risk, and resulting damages will be higher.

## Winter Storm

### Description of Hazard

Winter storms vary in size and strength and include heavy snowstorms, blizzards, freezing rain, sleet, ice storms, and considerable blowing and drifting snow conditions that can close roads. Additionally, the combination of extremely cold temperatures and strong winds can result in dangerous wind chills that cause bodily injury like frostbite or even death due to exposure (hypothermia). Severe winter storms can cause unusually heavy rain or snowfall, high winds, extreme cold, and ice storms throughout the continental US. Winter storms can be very disruptive to transportation and commerce. Trees, cars, roads, and other surfaces can develop a glaze of ice making conditions extremely hazardous to motorists and pedestrians. The most prevalent impacts of heavy accumulations of ice and snow are slippery roads and walkways leading to vehicle and pedestrian accidents; collapsed roofs from fallen trees and limbs and heavy ice and snow loads; and felled trees, telephone poles and lines, electrical wires, and communications towers. As a result of severe winter storms, power and telecommunications can be disrupted for days.

A variety of weather phenomena and conditions can occur during winter storms. The following are National Weather Service (NWS) descriptions of winter storm elements:

- *Heavy snowfall:* Snowfall accumulating to four inches or more in depth in 12 hours or snowfall accumulating to six inches or more in depth in 24 hours or less.
- *Snow squall:* An intense, but limited duration, period of moderate to heavy snowfall, accompanied by strong, gusty surface winds and possibly lightning. Accumulation may be significant.
- *Lake effect storms:* Snow showers that are created when cold, dry air passes over a large warmer lake, such as one of the Great Lakes (i.e., Lake Michigan), and picks up moisture and heat. This air, now full of water, dumps the water as snow
- *Blizzard:* Blowing and/or falling snow with winds of at least 35 mph, reducing visibilities to 1/4 mile or less for at least three hours. Winds lofting the current snow pack and reducing visibilities without any falling snow is called a ground blizzard
- *Ice storm:* A freezing rain storm which results in the accumulation of at least .25" of ice on exposed surfaces.
- *Freezing drizzle/freezing rain:* A drizzle that falls as a liquid but freezes into glaze or rime upon contact with the cold ground or surface structures.
- *Sleet:* Caused when snowflakes only partially melt when they fall through a shallow layer of warm air. These slushy drops refreeze as they next fall through a deep layer of freezing air above the surface, and eventually reach the ground as frozen rain drops that bounce on impact.
- *Wind chill:* The apparent temperature the body feels when wind is factored into the equation. No specific rules exist for determining when wind chill becomes dangerous. As a general rule, the threshold for potentially dangerous wind chill conditions is about -20°F

Much of the snowfall in Wisconsin occurs in small amounts of between one and three inches per occurrence. Heavy snowfalls (producing at least eight to ten inches of accumulation) happen on the average about five times per season. True blizzards are rare in Wisconsin, and are more likely to occur in northwestern Wisconsin than in southern portions of the state, even though heavy snowfalls are more frequent in southeastern Wisconsin.

### Previous Significant Hazard Occurrences

According to National Climatic Data Center (NCDC), Manitowoc County has experienced 79 significant winter storm events from January 1, 2000 to October 10, 2023 (including blizzard, heavy snow, and lake-effect snow). Many of these hazard events may not have been specific to Manitowoc County, and may have been recorded for a larger regional area.

### Hazard Frequency

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately three significant winter storm events per year.

### Probability of Hazards Occurring in the Future

Based on the hazard frequency, Manitowoc County is considered to have a moderate probability of experiencing a winter storm



event in any given year. Winter storms tend to be a regional phenomenon in that they affect much of northeastern Wisconsin on nearly all of the occasions in which they affect Manitowoc County. However, given Manitowoc County's geographic location adjacent to Lake Michigan, winter storm events such as Lake Effect Storms and Snow Squalls have a higher probability of occurring in Manitowoc County than those areas not located adjacent to Lake Michigan.

### **Areas at Greatest Risk**

Winter storms have no defined hazard area within the planning area. Past events have been relatively uniform across the planning area or the larger regional area.

### **Impacts of Hazard**

#### **Death and Injury**

No deaths or injuries have been reported from significant winter storm events for Manitowoc County from January 1, 2000 to October 10, 2023 according to NCDC data.

#### **Structures at Risk**

Occasionally, heavy snow or accumulated ice will cause structural collapse of buildings (particularly roofs), but most buildings are now constructed with low temperatures, snow loads, and ice storms in mind. In addition, with the modern focus on energy conservation, buildings are much better insulated than they were in the past. Therefore, for the most part, winter storms do not have a major impact on buildings in the planning area. The major impacts of winter storms on infrastructure are to utilities and roads. Power lines and tree limbs can be coated with heavy ice in some winter storms, resulting in disrupted power and telephone service, often for days. Cable and satellite television services can also be negatively impacted in certain winter storm events. In the case of transportation, even small accumulations of ice can be extremely dangerous to motorists and pedestrians. Bridges and overpasses are particularly dangerous because they freeze before other surfaces.

#### **Critical Facilities**

Street and road crews have an increased burden of snow removal (and salting in the case of ice storms) during and after winter storms. In some cases, winter storms can be so severe that these crews have to be called off the road for a period of time. Hospitals and clinics can treat additional patients for frostbite, pedestrian and vehicular accident injuries, and conditions resulting from the shoveling of heavy snow during and following winter storms. Sometimes, these very hospitals and clinics have difficulty getting their own staff to report to work because of the storm, which increases the work load for the staff who is already there (double shifts, etc.). Police department staff needs to respond to more accidents. Utility and telephone companies need to respond to downed electrical and telephone lines, especially in the case of ice storms. Rescue services can receive more calls because of accidents or health related circumstances. Schools may need to have early dismissal or cancel classes altogether. Shelters may take in additional homeless persons during winter storm events as well, although this has been less of an issue in Manitowoc than it has been in larger cities.

#### **Economic Impacts**

Loss of power often means that businesses and manufacturing operations must close down. Loss of access due to snow or ice covered roads can have a similar effect, especially when trucks cannot travel on major thoroughfares to make "just in time" deliveries to business and industry in the planning area. The effects are particularly difficult when the storm is widespread. Additional economic costs of winter storms include snow removal, road closures that cause lost retail trade, wages, and tax revenue, flight delays, damage to utilities, and flooding from snowmelt.

#### **Estimate of Potential Dollar Losses**

An estimate of potential dollar losses is difficult for winter storm events as damages and losses are typically widespread. Winter storms do have the potential to be extremely destructive, particularly in the case of ice storms. Based on previous damages reported by the NCDC, property damages from winter storms has been minimal over the past 23 years.

#### **Impacts of Future Changing Conditions**

Changing conditions may lead to more frequent, more powerful winter storm events. Power outages, structural collapse, and transportation impacts can be expected with the increased frequency of heavier, winter storms.

## Flooding

### *Description of Hazard*

Floods happen when the water draining from a watershed, whether from rainfall or melting snow, exceeds the capacity of the river or stream channel to hold it. Water overflows onto the nearby low-lying lands (floodplains). In hilly and mountainous areas flooding is likely to be rapid, deep, and dangerous. In relatively flat floodplains, land may stay covered with shallow, slow moving water for days or even weeks.

### **Stormwater Flooding**

Flooding often occurs in urban areas due to stormwater management issues. Stormwater drainage systems have been designed to manage most storms. However, occasionally larger storms that occur in a short time period are of such intensity that the stormwater infrastructure cannot handle all the runoff and flooding occurs. Such intense storms are generally beyond the capacity of any drain, and it would not be economically feasible to design drains to cater for these very large but infrequent storms. Localized stormwater flooding can also occur if drains in the area are blocked. It is important to keep the drainage system clear of litter and debris to avoid blocked drains. This is also necessary to protect and improve the health of waterways.

Today, new developments and redevelopments incorporate stormwater management measures such as stormwater detention and retention basins that provide greater flood protection. Detention basins slow the flow of stormwater being carried in the drainage system by storing it for a time, while retention basins (i.e. ponds) hold water during most of the year. Detention basins often double as parks and playing fields.

### **Dam Failure Flooding**

Flooding can also result from dam failure. A “dam” is an artificial barrier, together with its appurtenant works, constructed in or across a waterway for the primary purpose of impounding or diverting water. Dam failure can occur for a number of reasons, including overtopping caused by floods that exceed the capacity of the dam, deliberate acts of sabotage, structural failure of materials used in dam construction, movement and/or failure of the foundation supporting the dam, settlement and cracking of concrete or embankment dams, piping and internal erosion of soil in embankment dams, or inadequate maintenance and upkeep. In extreme cases, dam failure can occur with little warning and can result in the loss of life and significant property damage in areas downstream of the dam.

According to the WDNR Statewide Dams Database, there are a total of 46 dams in Manitowoc County. Of these, nine are classified as large dams (Map 3.3). A large dam has a structural height of over 6 feet and impounding 50 acre-feet or more, or having a structural height of 25 feet or more and impounding more than 15 acre-feet is classified as a large dam. The rest of the dams located in the county are regarded as small dams. The areas of greatest risk from dam failure are those areas within the hydraulic shadow of dam of these two high and significant risk dams. The hydraulic shadow of the dam is the area of land downstream from a dam that would be inundated by water upon failure of the dam during the regional flood (100-year flood).

### **Previous Significant Hazard Occurrences**

According to National Climatic Data Center (NCDC), Manitowoc County has experienced 17 significant flooding events (including flash floods and dam failure flooding) from January 1, 2000 to October 10, 2023. Some of these reported occurrences may not have been specific to Manitowoc County, and may have been recorded for a larger regional area.

### **Hazard Frequency**

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately one significant flooding event every year.

### **Probability of Hazard Occurring in the Future**

FEMA uses the “base” flood as the basis for its regulatory requirements and flood insurance ratings. The hazards mitigation plan also uses the base flood for planning purposes. The base flood is the one percent chance flood, or the flood that has a one percent (one out of 100) chance of occurring in any given year. The one percent chance flood is commonly referred to as the “100-year flood.” Based on the hazard frequency, Manitowoc County is considered to have a moderate probability of sustaining a 100-year flood in any given year.

**Areas at Greatest Risk**

The areas at greatest risk from flooding include the “100-year floodplain” areas of Manitowoc County. FEMA Flood Insurance Rate Maps also call this the Special Flood Hazard Area, or “A Zone.” The base floodplains for the planning area are shown in Map 3.4. Properties that potentially lie within the floodplain and would be affected by the 100-year flood are also illustrated in Map 3.4.

**Impacts from Hazard**

**Death and Injury**

No death or injuries from flooding has been reported for Manitowoc County from January 1, 2000 to October 10, 2023, according to NCDC data.

**Structures at Risk**

Analysis of the data used to produce Map 3.5 indicates that 3,012 structures could potentially be impacted by the base flood in the planning area.

**Repetitive Loss Properties**

Repetitive loss structure describes a structure, covered by a contract of flood insurance under the NFIP, that has suffered flood damage on two or more occasions over a 10-year period ending on the date when a second claim is made, in which the cost to repair the flood damage, on average, equals or exceeds 25 percent of the market-value of the structure at the time of each flood loss event. For the Community Rating System (CRS) of the NFIP, a repetitive loss property is any property, which the NFIP has paid two or more flood claims of \$1,000 or more in any, given 10-year period since 1978. A repetitive loss structure is important to the NFIP, since structures that flood frequently put a strain on the flood insurance fund. According to FEMA, there are no repetitive loss properties in Manitowoc County.

**Critical Facilities**

Analysis of the GIS data used to produce Map 3.5 indicates that there are 211 critical facilities/utilities located within 100-year floodplains in Manitowoc County. Table 3.5 lists the critical facility/utility types within the 100-year floodplains and Figure 3.2 illustrates the location of critical facilities/utilities within the 100-year floodplains within Manitowoc County. Table 3.6 identifies the number of critical facilities/utilities within the floodplain by municipality.

**Economic Impacts**

*Property Damage*

Reported significant public property and crop damage from flooding in Manitowoc County has totaled \$20,650,000 from January 1, 2000 to October 10, 2023 according to NCDC data. Most of the damage cost (\$20.2 million) was to crops on June 12, 2008 when torrential rain, including over five inches in Valders, caused the Manitowoc River to rise three feet in four hours.

*Value of Structures at Risk*

The value of all at-risk structures is estimated at \$506.7 million. This information was obtained from Manitowoc County database on improved values of real property. The parcel map and the 100-year floodplains were merged to determine at-risk structures in the planning area.

*Estimate of Potential Dollar Losses*

“Vulnerable structures” are those structures located in the 100-year flood hazard area identified in Map 3.5. Since there is no reliable building height data for buildings in these flood hazard areas, a “worst case scenario” of total structural damage for buildings in all of the flood zones of the planning area was assumed in estimating potential dollar losses to vulnerable structures. Building height/elevation data should be collected in the future in order to better assess the risks of damage to structures because of the flood hazard.

To estimate potential future dollar losses due to flood, historic data from past flood events for which we have loss figures is used. Manitowoc County can anticipate property and crop losses of approximately \$1,214,705, on average, between the public and private sector for each significant flood occurrence. Over the next ten-year period, flood losses in Manitowoc County could approach \$12 million.

# III. Risk Assessment

## Transportation Route Interruptions

Loss of road access is a major flood impact that affects all residents and businesses, not just those who own property in the floodplain. Sometimes, the loss is temporary, such as during a flood. However, on some occasions, the loss of transportation lasts well after the disaster. When roads, bridges, or railroads are washed out by a flood, it can be weeks or months before they are repaired and reusable. A key evacuation and safety concern is when roads and bridges go under water. Generally, the larger the road, the more likely it will not flood, but this is not always the case. Based on an analysis of GIS data collected, there are 167 bridges that could potentially be underwater during a base flood. In addition to those bridges that could be impacted by flood waters, there may be a number of additional bridges in areas that are not included in the 100-year flood zones, such as areas located along small tributary streams.

## Development in Areas Subject to Flooding

Development in floodplains, watersheds, and wetland areas (Map 3.7) are kept to a minimum through zoning. The Manitowoc County Code Administrator enforces Manitowoc County’s *Chapter 31 Floodplain Zoning* in all unincorporated areas of the county. Eight of the 12 incorporated communities in the county also enforce a floodplain zoning ordinance via their Zoning Administrator, Building Inspector, or Code Enforcement Officer. These ordinances are useful in keeping inappropriate development out of flood hazard zones in the county.

Following a flood event in the unincorporated areas of the county, the Manitowoc County Code Administrator oversees inspections on all damaged floodplain structures that have been impacted to determine if substantial damage has occurred. Following flood events impacting the incorporated communities, inspections of damaged floodplain properties are overseen by their municipal Building Inspectors or Code Enforcement Officers.

## NFIP Participation

Manitowoc County has participated in the FEMA National Floodplain Insurance Program (NFIP) since September 1978 by adopting and enforcing floodplain management ordinances to reduce future flood damage. In exchange, the NFIP makes federally backed flood insurance available to homeowners, renters, and business owners in the county. Table 3.4 details Manitowoc County and its cities and villages that have a completed Flood Insurance Study and a Flood Insurance Rate Map (FIRM).

Table 3.4: Manitowoc County/Communities Participating in National Flood Insurance Program

Jurisdiction	Initial Flood Hazard Boundary Map (FHBM)	Initial FIRM	Current FIRM	Floodplain Ordinance
Manitowoc County	02/07/75	09/15/78	02/23/23	Yes
City of Kiel	02/08/74	01/03/85	08/02/11	Yes
City of Manitowoc	06/07/74	04/15/77	02/23/23	Yes
City of Two Rivers	01/09/74	04/03/78	02/23/23	Yes
Village of Cleveland	06/07/74	05/15/78	02/23/23	Yes
Village of Kellnersville	-	08/02/11	(NSFHA)	Yes
Village of Maribel	-	08/02/11	(NSFHA)	Yes
Village of Mishicot	-	05/13/72	08/02/11	Yes
Village of Reedsville	06/04/76	09/30/88	08/02/11(M)	Yes

NSFHA - No Special Flood Hazard Area - All Zone C

M - No Elevation Determined - All Zone A, C, and X

Source: <https://www.fema.gov/cis/WI.pdf>

## Not Participating in NFIP

The villages of Francis Creek, St. Nazianz, Valders, and Whitelaw are not participating in NFIP. Since there are NSFHA’s within their municipal boundaries, these communities were not provided a floodplain map, and have not been asked to participate in the NFIP.

### Impacts of Future Changing Conditions

Future changing conditions are expected to lead to more annual precipitation with more frequent and heavier high precipitation events. This will lead to more flooding due to soils not able to absorb rainfall fast enough or being waterlogged. Flood damages will affect more people over a wider area of the county, and resulting damages will be higher.

Table 3.5: Critical Facilities/Utilities within the Floodplain by Type

Type	# of Critical Facilities/Utilities
Administrative Building	2
Bridges	167
Communication Facility	1
Dam	9
Fire and Safety	15
Licensed Childcare Facility	1
Licensed Healthcare Facility	1
Post-Disaster Recovery Site	1
Power Facility/Bulk Fuel Storage	2
Wastewater Treatment	11
Water Supply	1
<b>Total</b>	<b>211</b>

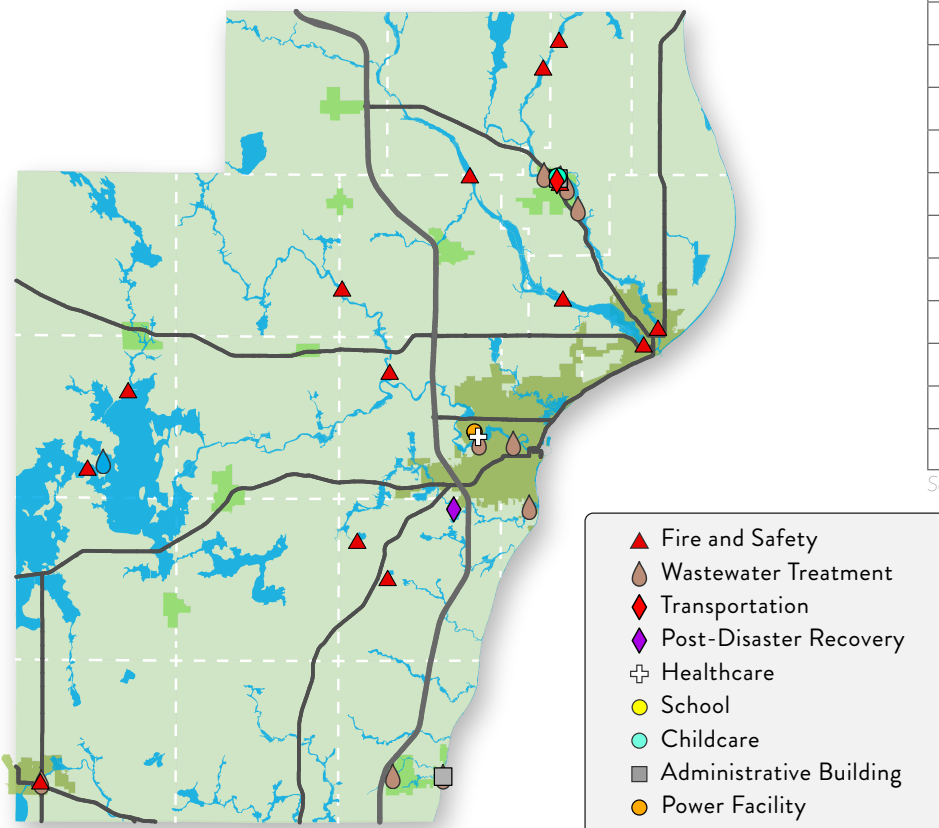
Source: Bay-Lake Regional Planning Commission, 2024

Table 3.6: Critical Facilities/Utilities within the Floodplain by Municipality

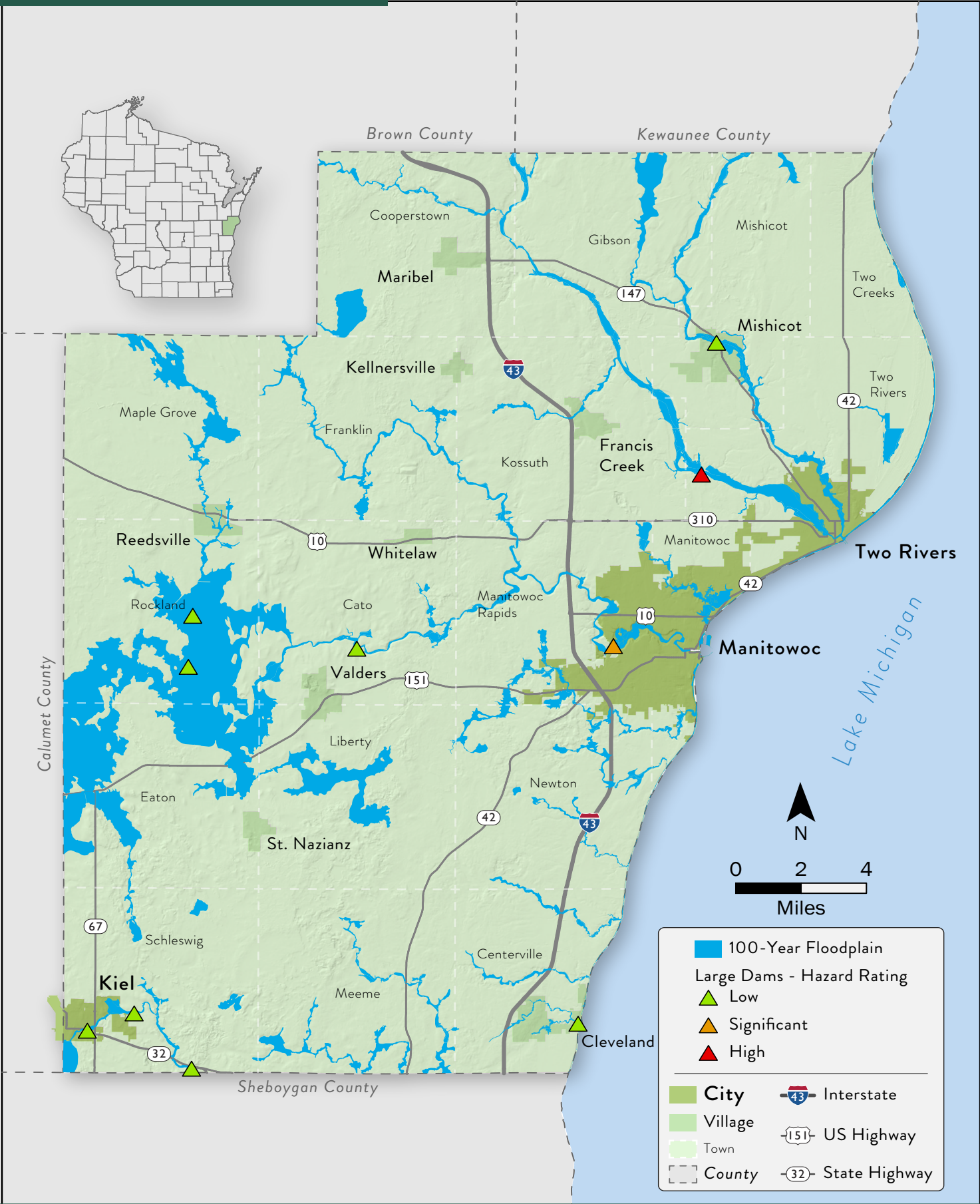
Type	# of Critical Facilities/Utilities
City of Kiel	6
City of Manitowoc	20
City of Two Rivers	7
Village of Francis Creek	2
Village of Mishicot	14
Village of Reedsville	4
Village of Cleveland	7
Town of Cato	4
Town of Centerville	15
Town of Cooperstown	10
Town of Eaton	3
Town of Franklin	11
Town of Gibson	14
Town of Kossuth	9
Town of Liberty	2
Town of Meeme	11
Town of Mishicot	7
Town of Maple Grove	5
Town of Newton	13
Town of Two Rivers	7
Town of Rockland	9
Town of Manitowoc	8
Town of Manitowoc Rapids	16
Town of Schleswig	7
<b>Total</b>	<b>211</b>

Source: Bay-Lake Regional Planning Commission, 2024

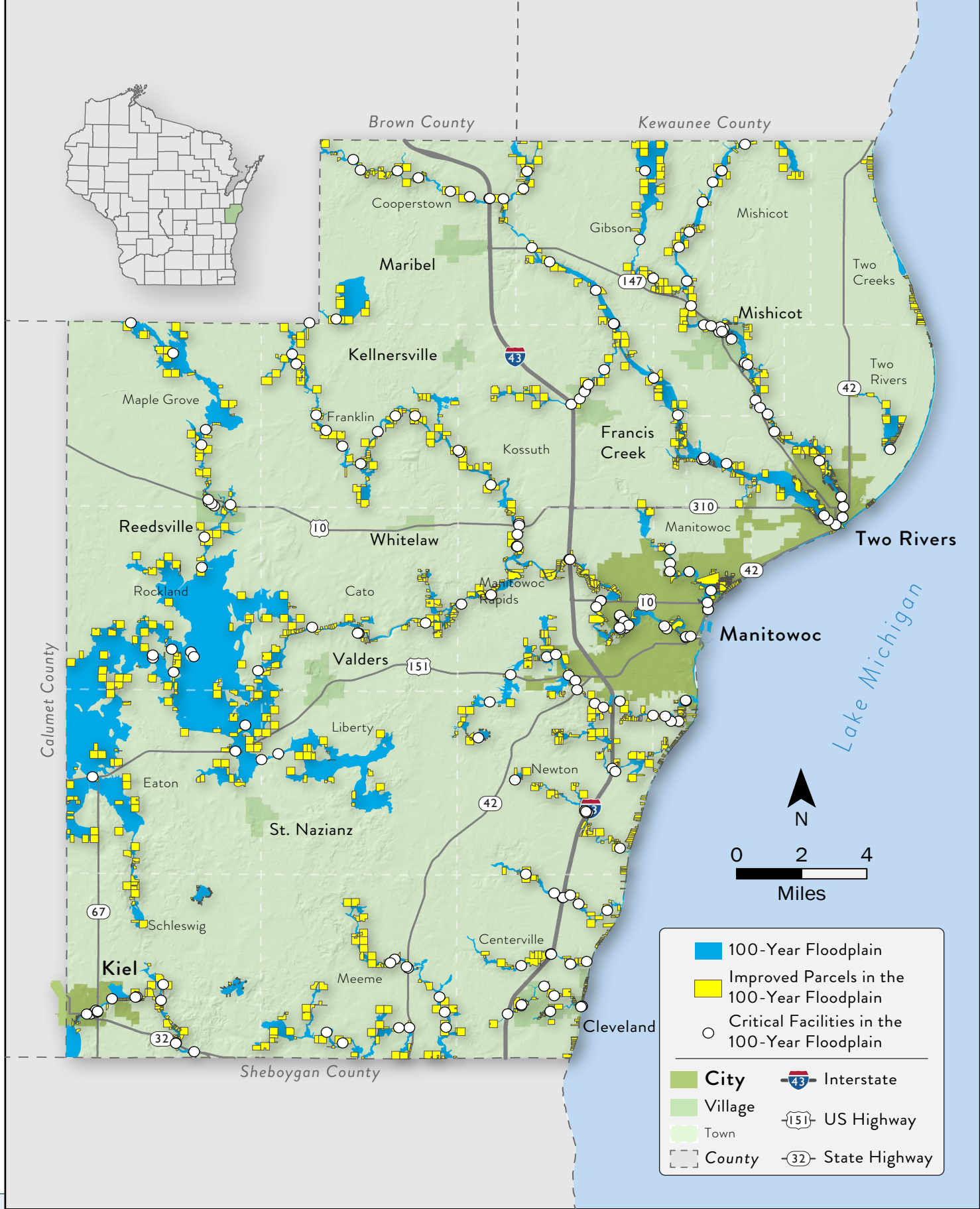
Figure 3.2: Critical Facilities/Utilities within the Floodplain



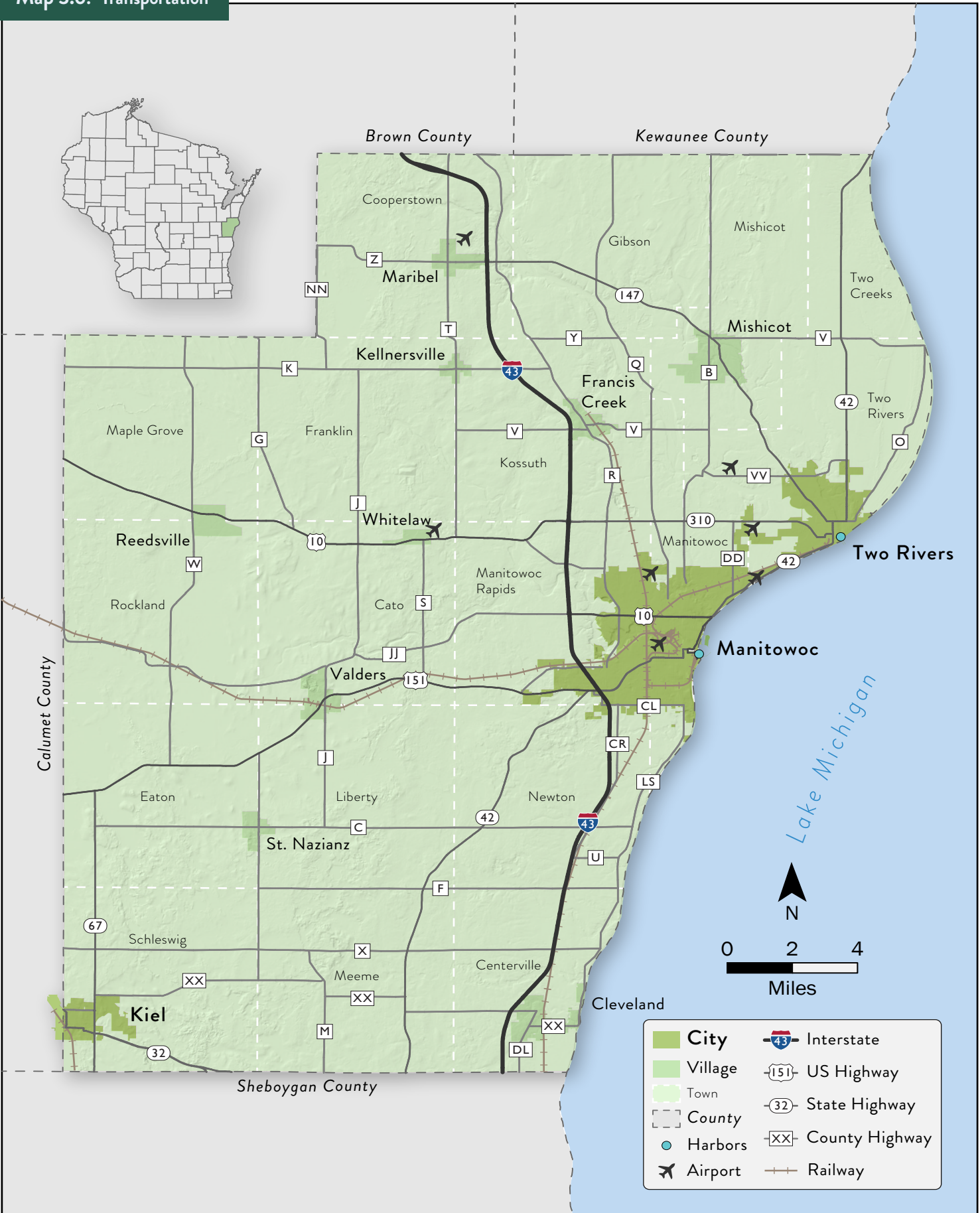
Map 3.4: Large Dams and 100-Year Floodplain



Map 3.5: Improved Properties within the 100-Year Floodplain

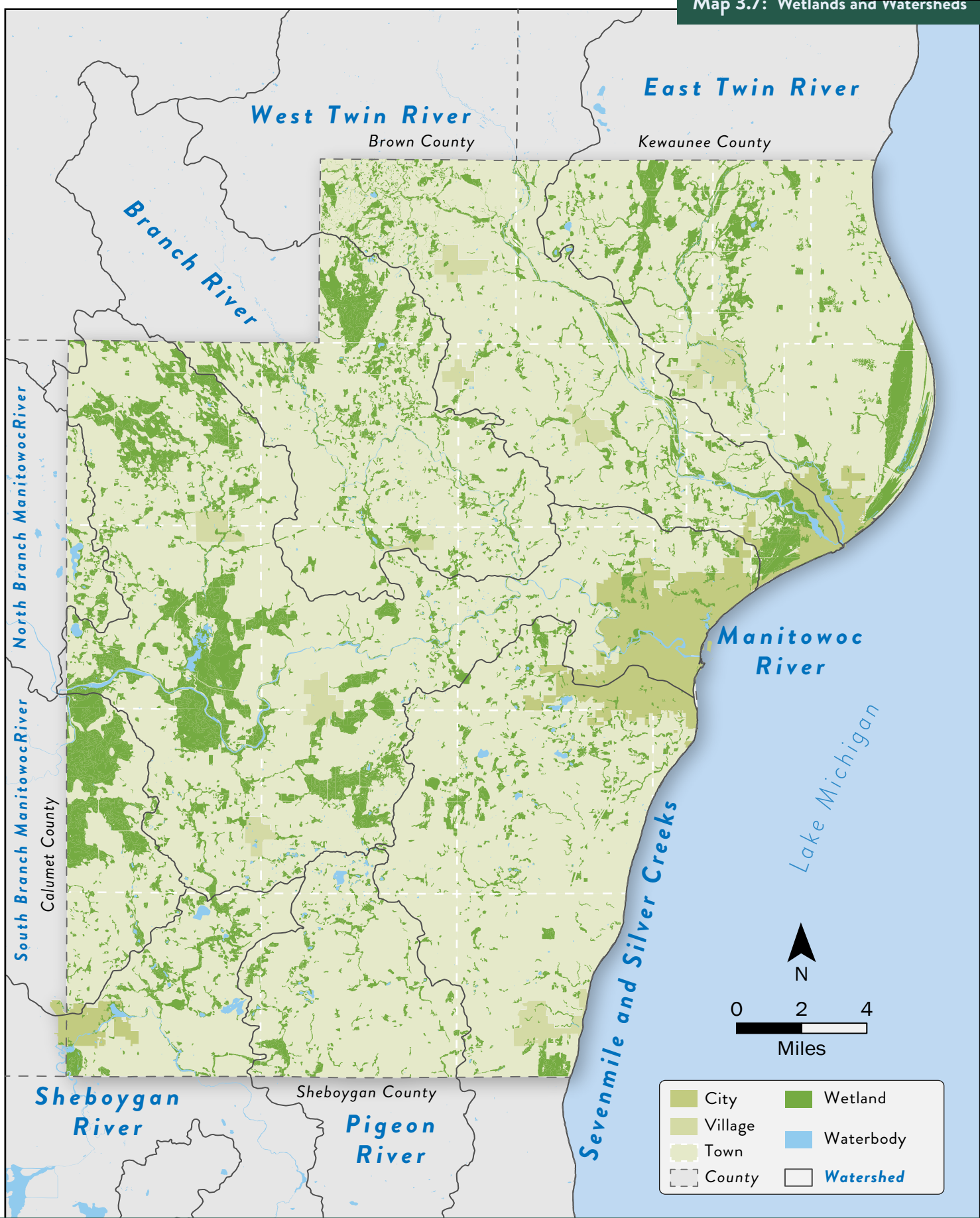


Map 3.6: Transportation





Map 3.7: Wetlands and Watersheds



# III. Risk Assessment

## Extreme Cold

### *Description of Hazard*

Dangerously cold conditions can be the result of extremely cold temperatures, or the combination of cold temperatures and high winds. The combination of cold temperatures and wind creates a perceived temperature known as “wind chill.” Whenever temperatures drop well below normal and as wind speed increases, heat can leave your body more rapidly. As winds increase, heat is carried away from the body at a faster rate, driving down both the skin temperature and eventually the internal body temperature. This weather related condition may lead to serious health problems. Extreme cold is a dangerous situation that can cause health emergencies for susceptible people, such as those without shelter, those who are stranded outdoors or in a disabled car, or those who live in a home that is poorly insulated or without heat.

### *Previous Significant Hazard Occurrences*

According to National Climatic Data Center (NCDC), Manitowoc County has experienced seven significant extreme cold events from January 1, 2000 to October 10, 2023.

### *Hazard Frequency*

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately one significant extreme cold event every 3.5 years.

### *Probability of Hazard Occurring in the Future*

Based on the hazard frequency, Manitowoc County is considered to have a low probability of experiencing an extreme cold event in any given year.

### *Areas at Greatest Risk*

Extreme cold events have no defined hazard area within the planning area. Past events have been relatively uniform across the planning area.

### *Impacts from Hazard*

#### **Death and Injury**

No deaths or injuries have been reported from significant extreme cold events for Manitowoc County from January 1, 2000 to October 10, 2023 according to NCDC data.

#### **Structures at Risk**

Extreme cold conditions can result in burst water pipes. In addition, it is more expensive to heat homes and other buildings during extreme cold events. Sometimes, residents of the planning area might consider use of space heaters during an extreme cold event. However, use of space heaters comes with its own risks, including a higher probability of fire to a structure if used improperly.

Public domain water pipes can burst in extreme cold conditions, which can also ruin the street above the water pipes. In addition, damage to fiber optic cables can occur during extreme cold episodes, which can negatively affect commerce and hospitals in the planning area.

#### **Critical Facilities**

All buildings involving critical facilities will have greater heating expenses during an extreme cold event. Increased demand will also affect electric and natural gas utilities. Hospitals and clinics may be asked to treat patients exposed to the extreme cold conditions. Emergency shelters may take in additional individuals during the extreme cold event. Area schools may cancel classes or call for early dismissal in extreme cold events. Water utilities may need to repair damaged water mains caused by the extreme cold. Local fire departments and rescue services may also deal with direct or indirect consequences of the extreme cold event.

**Economic Impacts**

Economic impacts of extreme cold events can include lack of motivation to participate in the local economy unless absolutely necessary during the event. Utility bills following the event will be higher, which will give the consumer less ability to purchase discretionary goods about a month after the event (unless that consumer is on a monthly even payment plan with the local utility). If area school districts need to call off school early on extremely cold days, there may be expenses involved with early busing and with paying staff for a full day while only having the benefit of a partial day of instruction. Non-profit organizations will incur expenses in the provision of emergency shelters. The private sector incurs economic losses and production decreases during an extreme cold event.

*Property Damage*

No significant public property damages have been reported from extreme cold events for Manitowoc County over the last 18 years from January 1, 2000 to October 10, 2023 according to NCDC data.

*Estimate of Potential Dollar Losses*

An estimate of potential dollar losses cannot be calculated for extreme cold events, since no vulnerable structures have been identified. Based on previous damages reported by the NCDC, property damages from extreme cold has been minimal over the past 23 years.

**Impacts of Future Changing Conditions**

Future changing conditions are expected to lead to more frequent, winter storm events, including the occurrences of severe cold.

# III. Risk Assessment

## Extreme Heat

### *Description of Hazard*

Extreme heat (often referred to as a heat wave) is primarily a public health concern. During extended periods of very high temperatures or high temperatures with high humidity, individuals can suffer from several ailments, including heat exhaustion and heat stroke. Heat stroke is a particularly life-threatening condition that requires immediate medical attention. In addition to posing a public health hazard, periods of excessive heat usually result in high electrical consumption, which can cause power outages and brown outs. A by-product of this hazard in Manitowoc County often involves periods of high heat with loss of power. The elderly, disabled, and other vulnerable populations are especially susceptible to extreme heat.

### *Previous Significant Hazard Occurrences*

According to National Climatic Data Center (NCDC), Manitowoc County has experienced 4 significant extreme heat events over the last 18 years from January 1, 2000 to October 10, 2023.

### *Hazard Frequency*

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately one significant extreme cold event every six years.

### *Probability of Hazard Occurring in the Future*

Based on the hazard frequency, Manitowoc County is considered to have a low probability of experiencing an extreme heat event in any given year.

### *Areas at Greatest Risk*

Extreme heat events have no defined hazard area within the planning area. Past events have been relatively uniform across the planning area.

### *Impacts from Hazard*

#### **Death and Injury**

Two deaths and no injuries, has been reported from significant extreme heat events for Manitowoc County from January 1, 2000 to October 10, 2023 according to NCDC data.

#### **Structures at Risk**

While there are no direct impacts on buildings, periods of excessive heat can impact the ability of buildings to be comfortable and safe for human habitation. Periods of excessive heat usually result in high electrical consumption for air conditioning, which can cause power outages and brown outs. There are few impacts of extreme heat on publicly owned infrastructure. One impact that extreme heat can have on publicly owned infrastructure involves the buckling of certain streets and highways, which need to be repaired immediately.

#### **Critical Facilities**

Utilities may see peak demand for electricity during extreme heat episodes. There have been fears that an extreme heat episode could cause the power grid to collapse. Hospitals and clinics will like experience an increased demand due to heat related illnesses during an extreme heat episode. In some cases, rescue services will experience an increased demand due to these same heat related illnesses. If school is in session during the extreme heat episode, area school districts may dismiss classes early in the day, at least in older schools without air conditioning. Emergency shelters will experience higher demand during the extreme heat episode, with some emergency shelters being set up specifically in response to the episode. Finally, there is likely to be increased water demand during the episode, both for human consumption as well as for lawn watering in the event that the extreme heat episode includes a drought.

**Economic Impacts**

Economic impacts of an extreme heat episode which can affect private businesses and consumers include higher electrical consumption and increased demands for medical treatment. Local governments may need to incur expenses when repairing streets and highways in the planning area that have been damaged due to buckling. If area school districts need to call off school early on extreme heat days, there may be expenses involved with early busing and with paying staff for a full day while only having the benefit of a partial day of instruction. Non-profit organizations will incur expenses in the provision of emergency shelters. Water utilities will incur the expenses involved with additional demand for water during extreme heat episodes, and these expenses will be passed on to area consumers.

*Property Damage*

No significant public property damages have been reported from extreme heat events for Manitowoc County from January 1, 2000 to October 10, 2023 according to NCDC data.

*Estimate of Potential Dollar Losses*

An estimate of potential dollar losses cannot be calculated for extreme heat events, since no vulnerable structures have been identified. Based on previous damages reported by the NCDC, property damages from extreme heat has been minimal since 2000.

**Impacts of Future Changing Conditions**

According to research conducted by the *Wisconsin Initiative on Climate Change Impacts*, extreme heat events are projected to become more frequent, longer lasting, and geographically widespread. Future changing conditions are expected to lead to an increase in wildfire occurrences and the conditions for any given fire to get out of control. Rising average annual temperatures will exacerbate drought conditions contributing to wildfire risk.

# III. Risk Assessment

## Lightning

### *Description of Hazard*

Lightning, which occurs during all thunderstorms, can strike anywhere. Generated by the buildup of charged ions in a thundercloud, the discharge of a lightning bolt interacts with the best conducting object or surface on the ground. The air in the channel of a lightning strike reaches temperatures higher than 50,000 degrees Fahrenheit. The rapid heating and cooling of the air near the channel causes a shock wave which produces thunder. Lightning primarily occurs when warm air is mixed with colder air masses resulting in atmospheric disturbances necessary for polarizing the atmosphere. However, it can also occur during dust storms, forest fires, tornadoes, volcanic eruptions, and even in the cold of winter, where the lightning is known as thundersnow.

### *Previous Significant Hazard Occurrences*

According to National Climatic Data Center (NCDC), Manitowoc County has experienced four significant lightning events from January 1, 2000 to October 10, 2023.

### *Hazard Frequency*

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately one significant lightning event every six years.

### *Probability of Hazard Occurring in the Future*

Based on the hazard frequency, Manitowoc County is considered to have a low probability of experiencing a lightning storm and/or thunderstorm event in any given year.

### *Areas at Greatest Risk*

Based on review of the historic patterns of lightning event occurrences, there are no specific areas that are a higher than average risk. The events are relatively uniform throughout Manitowoc County.

### *Impacts from Hazard*

#### **Structures at Risk**

Lightning can cause direct damage to structures, especially those without lightning protection systems.

Buildings or tall structures hit by lightning may be damaged as the lightning seeks paths to ground. By safely conducting a lightning strike to ground, a lightning protection system can greatly reduce the probability of severe property damage. Lightning strikes can result in fires that damage structures, property, and land.

#### **Critical Facilities**

Hospitals can see increases in patient load with sufficiently severe lightning events. Schools can sustain damage, and police and fire departments often see an increased workload during and after lightning events. Emergency operations can be disrupted as lightning events affect radio and cellular communications, as antennas are a prime target for lightning.

**Economic Impacts**

There was insufficient data to calculate average lightning damages.

*Property Damage*

Reported property damage from significant lightning for Manitowoc County has totaled approximately \$403,100 from January 1, 2000 to October 10, 2023 according to NCDC data.

*Estimate of Potential Dollar Losses*

An estimate of potential dollar losses cannot be calculated for lightning events since no vulnerable structures have been identified. Based on previous damages reported by the NCDC, property damages from lightning has been minimal since 2000.

**Impacts of Future Changing Conditions**

Future changing conditions are expected to lead to more frequent, higher intensity severe thunderstorms and resultant lightning. This will affect more people over a wider area of the County.

# III. Risk Assessment

## Drought

### Description of Hazard

A drought is an extended period of unusually dry weather, which may be accompanied by extreme heat. The U.S. Drought Monitor depicts the location and intensity of drought across the country. The drought monitor uses five classifications:

- D0 (Abnormally Dry): Areas that may be going into or are coming out of drought.
- D1 (Moderate Drought): Some damage to crops and pastures, low water levels in streams, reservoirs, and wells, and a high risk of fire.
- D2 (Severe Drought): Likely crop or pasture loss, high risk of fire, and common water shortages.
- D3 (Extreme Drought): Major crop or pasture loss, extreme fire danger, and widespread water shortages or restrictions.
- D4 (Exceptional Drought): Widespread crop and pasture loss, exceptional fire risk, and water shortages in reservoirs, streams, and wells that create water emergencies.

There are several types of drought in Wisconsin: agricultural drought, hydrologic drought, and meteorological drought. Agricultural drought is a dry period of sufficient length and intensity that markedly reduces crop yields. Hydrologic drought is a dry period of sufficient length and intensity to affect lake and stream levels as well as the depth of the groundwater table. Meteorological drought occurs when dry weather patterns dominate an area. These types of drought may, but do not necessarily, occur at the same time. The severity of a drought depends on a number of factors including duration, intensity, geographic extent, and regional water supply demands by humans and vegetation.

In general, droughts have the greatest impact on agriculture. Small droughts of limited duration can significantly reduce crop growth and yields. More substantial drought events can decimate croplands and can result in a total loss. Droughts can also greatly increase the risk of forest fires and wildfires because of extreme dryness. In addition, the loss of vegetation in the absence of sufficient water can result in flooding, even from average rainfall, following drought conditions.

### Previous Significant Hazard Occurrences

According to National Climatic Data Center (NCDC), Manitowoc County has experienced three significant drought events from January 1, 2000 to October 10, 2023.

### Hazard Frequency

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately one significant drought event every eight years.

### Probability of Hazards Occurring in the Future

The future incidence of drought is highly unpredictable, as its occurrence is based on weather patterns, making it difficult to determine probability with any accuracy. Droughts tend to be a regional phenomenon in that it affects much of eastern Wisconsin on nearly all of the occasions in which it affects Manitowoc County. However, based strictly on the hazard frequency, Manitowoc County is considered to have a low probability of experiencing a drought event in any given year.

### Areas at Greatest Risk

Droughts have no defined hazard area within the planning area. Past events have been relatively uniform across the planning area. However, agricultural croplands are most vulnerable to losses from drought events. According to the USDA, National Agricultural Statistics Service 2022 Census of Agriculture, Manitowoc County contains over 193,600 acres of croplands.



## ***Impacts from Hazard***

### **Death and Injury**

No deaths or injuries have been reported from significant drought events for Manitowoc County from January 1, 2000 to October 10, 2023, according to NCDC data.

### **Structures at Risk**

There are no direct impacts to structures from a drought event. In terms of infrastructure, droughts have the most impact on municipal water supplies. Droughts will likely cause a shortage of water for human, industrial, and agricultural consumption, as wells and other water reserves may dry up. Also, water quality is often an issue before and after a drought event, which may place an additional burden on wastewater treatment facilities.

### **Critical Facilities**

In drought conditions, water shortages may occur and affect the amount of water available for human consumption. Hospitals may be called upon to treat individuals suffering from dehydration as a result. Parks that provide recreational water facilities are likely to experience increased usage during times of drought as well.

### **Economic Impacts**

Wisconsin is most susceptible to agricultural drought. Even small droughts of limited duration can significantly reduce crop growth and yields, which adversely affects farm income. Substantial drought events can lead to complete crop decimation and pose serious challenges for providing feed for livestock, resulting in total losses.

During severe drought periods farmers are often forced to seek financial assistance from the government to supplement lost income.

#### *Property Damage*

No significant public property damages have been reported from drought events for Manitowoc County from January 1, 2000 to October 10, 2023 according to NCDC data.

#### *Estimate of Potential Dollar Losses*

Drought is another hazard lacking good loss figures at the county level. However, a look at aggregate data from previous major droughts for which figures are available can give some indication of potential impact. Those droughts resulted in losses of \$9.6 million (1976-77) to \$18 million (1987-88) per affected county in Wisconsin on average.

### **Impacts of Future Changing Conditions**

Future changing conditions are expected to lead to rising average annual temperatures. The increased heat will fuel more extreme weather of all types, including excessive heat and possible resultant drought conditions that may become more frequent and persistent.

Snow droughts may become more frequent with future changing conditions which would reduce both summer and winter water availability, as many streams, rivers, and reservoirs depend on snow melt to replenish or maintain their water levels. Snow droughts reduce the amount of soil moisture that is necessary for proper seed germination come springtime planting of crops, significantly impacting farm incomes.

Increased drought events would have significant adverse effects on Wisconsin's tourism industry throughout the year.

## Dense Fog

### *Description of Hazard*

Fog is a collection of liquid water droplets or ice crystals suspended in the air at or near the ground. While fog is a type of stratus cloud, the term “fog” is typically distinguished from the more generic term “cloud” in that fog is low-lying, and the moisture in the fog is often generated locally (such as from a nearby body of water, like a lake or stream, or from nearby moist ground or marshes). Fog is distinguished from mist because it has greater density and lower visibility than mist.

Fog is a hazard mainly because of reduced visibility. Airport delays, automobile accidents, ship wrecks, plane crashes, and many other problems are frequently caused by fog. The National Weather Service forecasts fog and issues dense fog advisories when visibility is decreased to less than one quarter of a mile. These advisories alert travelers to potentially dangerous conditions. Traveling in fog requires reduced speed and careful navigation. At night, traveling in fog is especially dangerous because darkness combines with fog to reduce visibility even more. In addition, light from automobile headlights and other navigational lights is scattered off the water droplets of the fog, limiting sight to only a short distance. In response to this problem, automobiles are often equipped with specially designed lights that illuminate a usually dry (and therefore clear) area just above the roadway surface. Ice fog, or freezing fog, presents additional challenges as this is a fog in which the droplets of moisture freeze instantly upon contact with exposed objects and form a coating of rime and/or glaze. Not only does ice fog reduce visibility, but it creates icy conditions on roadways for vehicles and can make flying very dangerous if the aircraft is not treated or does not contain effective de-icing equipment.

### *Previous Significant Hazard Occurrences*

According to National Climatic Data Center (NCDC), Manitowoc County has experienced two significant dense fog events from January 1, 2000 to October 10, 2023.

### *Hazard Frequency*

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately less than one significant dense fog event every ten years.

### *Probability of Hazard Occurring in the Future*

Based on the hazard frequency, Manitowoc County is considered to have a low probability of experiencing a significant dense fog event in any given year.

### *Areas at Greatest Risk*

Portions of the planning area along waterways, wetlands, and low lying areas can be at greater risk for fog under certain meteorological conditions. However, no portion of the planning area is free of the possibility of experiencing fog events. Fog events can often be a regional phenomenon in that they affect much of the eastern Wisconsin on many of the occasions in which they affect Manitowoc County, especially near Lake Michigan.

### *Impacts from Hazard*

#### **Structures at Risk**

There are no direct impacts to buildings from a fog event. The main structures impacted are those associated with infrastructure during a fog event from vehicle accidents. This can result in rescue services helping injured drivers and passengers, clean-up of the affected portions of the street and highway network, and temporary rerouting of motorists after some incidents. In addition, motorists often must travel at slower speeds when fog is in the area, which adds travel time and can lead to vehicular congestion in cases where it would normally not occur. In fog events during the winter, icing can sometimes be a problem. Power lines and tree

limbs can be coated with heavy ice in some winter fog events, resulting in disrupted power and telephone service. In addition, in fog events during the winter, even small accumulations of ice can be extremely dangerous to motorists and pedestrians. Bridges and overpasses are particularly dangerous because they freeze before other surfaces.

**Critical Facilities**

Law enforcement will be asked to respond to an increased number of accidents during many fog events. Hospitals and clinics may be asked to treat individuals injured in accidents that likely would have not occurred in the absence of the fog event. Rescue services may be called to respond to accidents that resulted from the fog event. The starting time for schools may be delayed by the fog event for the safety of students and all involved. Courtrooms may see increased adjudication of traffic law violations resulting from accidents occurring during the fog event. Municipal public works and county highway departments may need to perform emergency repairs to streets and highways in worst-case scenario accidents resulting from the fog event. Airports can experience flight delays and cancellations during certain fog events.

**Economic Impacts**

There are economic costs in the accidents caused by fog events. Vehicular accidents almost always involve property damage, and some vehicular accidents during fog events involve injuries and/or fatalities. All of these consequences to vehicular accidents have costs both to the individual involved and to society. Airline delays due to fog have economic impacts for travelers as well as for commerce. There are additional economic impacts if the fog event occurs in conjunction with the icing of power lines in cases where the power lines are damaged and residents lose power.

*Property Damage*

No significant public property damages have been reported from dense fog events for Manitowoc County from January 1, 2000 to October 10, 2023 according to NCDC data.

*Estimate of Potential Dollar Losses*

An estimate of potential dollar losses cannot be calculated for dense fog events since no vulnerable structures have been identified. Based on previous damages reported by the NCDC, property damages from fog have been minimal over the past 23 years.

**Impacts of Future Changing Conditions**

As warm moist air becomes more common in the winter months as a result of changing conditions, it may increase the frequency of fog events with the nearby cooler bodies of water (Lake Michigan).

# III. Risk Assessment

## Wildland Fires

### *Description of Hazard*

A wildland fire is any instance of unplanned burning in brush, marshes, grasslands, or field lands. Typical causes of these fires are lightning, human carelessness, or arson. The county has large expanses of forested areas that could be susceptible to wildland fires. Wildland fires can occur at any time of the year and during any time of the day. The primary factors that can contribute to the start of a wildland fire are land use, vegetation, amount of combustible materials present, and weather conditions such as wind, low humidity, and lack of precipitation. Generally, fires are more likely when vegetation is dry from a winter with little snow or a spring and summer with sparse rainfall. As fires remain a possibility, fire stations in the county are prepared to respond in accordance with established response procedures, while local zoning setback controls and building codes provide additional mitigation measures.

### *Previous Significant Hazard Occurrences*

There have been no significant wildland fires in Manitowoc County since 2000.

### *Hazard Frequency*

No adequate records are available at this time in order to determine a hazard frequency.

### *Probability of Hazard Occurring in the Future*

According to the U.S. Forest Service Wildland Fire Assessment System, Manitowoc County regularly falls within a low to moderate fire danger class. A low rating indicates that fuels do not ignite readily from small firebrands, while a moderate rating means that fires will likely start from most accidental causes. With the exception of lightning fires in some areas, the number of starts is generally low. Additionally, because Manitowoc County is not extensively forested and does not contain the hazards and risks necessary to warrant intensive or extensive fire protection, it is designated as a Cooperative Fire Protection Area. Therefore, there are no Wisconsin DNR ranger stations or suppression resources located in the county. Additionally, the Forestry Division of the Wisconsin DNR has determined that there are no “Communities-at-Risk” and no “Communities-of-Concern” within Manitowoc County. The likelihood that any wildland fire in Manitowoc County would be catastrophic is low as most susceptible areas lack enough acreage to allow for continuous burning. .

### *Areas at Greatest Risk*

Manitowoc County contains approximately 77,473 acres of woodlands (20% of the County’s current land use). Of these, few contain timbers that are very susceptible to burning. Therefore, lands covered in grass fuels pose the highest risk for the planning area. Furthermore, grasslands that abut heavy residential development present an even greater danger, especially when residents practice unapproved outdoor burning of leaves, garbage, and other items which they wish to dispose of by incineration. Point Beach State Forest, the county’s largest area of contiguous woodlands with more than 2,500 acres of forestlands, poses some risk for wildland fire.

### *Impacts from Hazard*

#### **Death and Injury**

No data on deaths or injuries is available for significant wildland fire events for Manitowoc County.

### **Structures at Risk**

Homes and other structures located within the Wildland Urban Interface (WUI) are at high risk to damage from wildland fires. The WUI refers to the zone of transition between forestland/wildland and human development. The wildland fire risk increases in the WUI because buildings are typically surrounded by fuel sources such as unmowed grass, unraked leaves, flammable vegetation, and dead branches. Structures constructed from materials that may melt or ignite when exposed to a fire present a high risk. In general, the potential for property damage from wildland fires increases as more development occurs on wooded lands.

Residential housing is typically the most dominant type of structure found within the WUI. Though many parts of a home can be affected by wildfire damage, the roof is the most exposed portion of the building and is more at risk from flying embers. Attics may also be affected by airborne embers that enter through open eaves and vents. Structures attached to homes, such as decks, garages, and fences, can also carry a fire into a home.

### **Critical Facilities**

Police, fire, and emergency response personnel are greatly affected by wildland fires – suffering increased workloads during and after events. Hospitals can see increases in patient load resulting from burn related injuries and individuals suffering from the effects of smoke inhalation. Schools, if not affected by a fire, could potentially be used as temporary shelter for individuals that can not return to their homes. All critical facilities located in the path of a wildland fire can be affected structurally and functionally if evacuation is deemed necessary.

### **Economic Impacts**

Fires can have an extensive impact on the economy of an affected area by causing thousands of dollars in damages to citizens through loss of private property. Major direct costs associated with wildland fires are incurred by the salvage and removal of downed timber and debris; restoration of the burned area; and reconstruction. Wildland fires can also have a significant impact on local agriculture. Fires will strip the land of vegetation as well as harm the soil, waterways, and the land itself. Soil exposed to intense heat may lose its capability to absorb moisture and support life.

#### *Property Damage*

No property damage data is available for wildland fire events for Manitowoc County according to NCDC data.

#### *Estimate of Potential Dollar Losses*

An estimate of potential dollar losses is not needed for the wildland fire hazard as no specific vulnerable structures or geographic areas have been identified.

### **Impacts of Future Changing Conditions**

Future changing conditions are expected to lead to an increase in wildfire occurrences and the conditions for any given fire to get out of control. Rising average annual temperatures may worsen drought conditions and contribute to the frequency of the wildfire risk.

# III. Risk Assessment

## Coastal Hazards

### *Description of Hazard*

In northeastern Wisconsin, coastal hazards can be described as natural hazards occurring along the shores of Lake Michigan. The coastal hazards of concern in Wisconsin and Manitowoc County include:

- Erosion of coastal bluffs, banks, beaches and near shore lake beds (including erosion from freezing and thawing of lake ice);
- Flooding from upland runoff, high lake levels and storm-induced surge (temporary water level changes); and
- Damage to shorelines and shoreline structures from storm waves and ice shoves and dams.

### *Previous Significant Hazard Occurrences*

According to National Climatic Data Center (NCDC), Manitowoc County has experienced four significant coastal hazard events from January 1, 2000 to October 10, 2023.

### *Hazard Frequency*

Based on previous hazard occurrences as reported by the NCDC, Manitowoc County experiences approximately one significant coastal hazard event every six years.

### *Probability of Hazard Occurring in the Future*

According to the Resource Guide for Great Lakes Coastal Hazards in Wisconsin website (<http://coastal.lic.wisc.edu/urpl999.htm>), Manitowoc County is most at risk for coastal erosion. Overall, the probability of coastal hazards is medium for the planning area.

### *Areas at Greatest Risk*

Portions of the county situated along Lake Michigan are at risk for coastal hazards. Manitowoc County has experienced occurrences of bluff slumping and instability along Lake Michigan. While not always visible, the bluffs are continuously changing due to erosion. Years and even decades can pass without any major loss, and then in one single event a section of bluff-top can start falling into the lake. Living along these bluffs requires an understanding of how erosion works to avoid putting people and buildings in dangerous locations by better determining safe building setbacks.

### *Impacts from Hazard*

#### **Death and Injury**

No data on deaths or injuries is available for significant coastal hazard events for Manitowoc County.

#### **Structures at Risk**

Homes and other structures located along Lake Michigan are at risk to damage from coastal hazards. This risk increases where structures are closer to the shoreline, especially over high bluffs.

#### **Critical Facilities**

There are 20 critical facilities located along Lake Michigan at risk of damage from coastal hazards. Most of these facilities are intentionally located adjacent to Lake Michigan; however, there are also critical facilities that are not dependent on a location with proximity to the lake.

**Economic Impacts**

Coastal hazards can have an extensive impact on the economy of an affected area by causing thousands of dollars in damages to public property and structures, as well as private property and houses.

*Property Damage*

Reported property damage from coastal hazard events for Manitowoc County has totaled approximately \$60,000 from January 1, 2000 to October 10, 2023 according to NCDC data.

*Estimate of Potential Dollar Losses*

Based on previous damages reported by the NCDC, property damage from coastal hazards has been infrequent since 2000 and mostly coincides with water level fluctuations. A “worst case scenario” for potential dollar losses from coastal hazards in Manitowoc County would involve the total destruction of all private structures along Lake Michigan, which would cause a loss of over \$60 million in private damages. There are no assessed values available for public properties. This information was obtained from the Manitowoc County database on assessed values of real property (structures and land). This only involves damage to structures themselves, and may not account for damage to personal property inside or adjacent to vulnerable structures.

**Impacts of Future Changing Conditions**

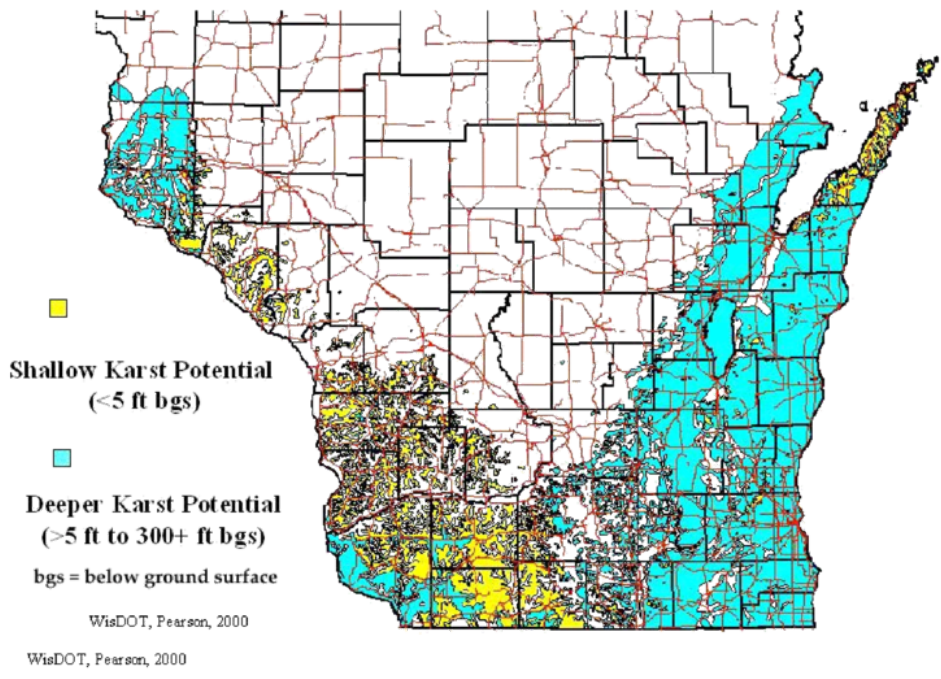
Future changing conditions are expected to lead to both high and low water level extremes, increased coastal flooding, and reduced bluff slope stability resulting in the likelihood of increased damage to infrastructure and property in Manitowoc County and its coastal communities.

## Land Subsidence

### Description of Hazard

Land subsidence is an event in which a portion of the land surface collapses or settles. Subsidence or sinkholes in Wisconsin typically occur in areas of karst terrain (dolomite and limestone bedrock areas). Subsidence in karst terrains occurs where dissolution of bedrock by groundwater flow causes the creation of voids (i.e. caves). The land above these underground voids often appears normal until a critical amount below has been washed away and the soil surface can no longer support the weight and collapses, causing subsidence at the surface (i.e. sinkholes).

Manitowoc County lies within the area of risk in Wisconsin that has been identified by the Wisconsin Geologic and Natural History Survey. This area is delineated as a V-shaped swath across Wisconsin that extends southeast from St. Croix County along the Mississippi River, across the bottom two tiers of counties, and northeast along Lake Michigan up to Marinette County.



Wisconsin subsidence occurrences are unlikely to be significant events. Sinkholes in Wisconsin are relatively small – they tend to be smaller than 10 feet across. The depth of sinkholes can be highly variable, although most are about as deep as they are wide.

The Manitowoc County Soil & Water Conservation Department administers the Manitowoc County Karst & Bedrock Features Inventory that details sinkholes located throughout the county.

### Previous Significant Hazard Occurrences

There is no record of significant subsidence occurrences for Manitowoc County since 2000.

### Hazard Frequency

There is no record of significant subsidence occurrences for Manitowoc County in order to develop a hazard frequency.



### ***Probability of Hazard Occurring in the Future***

Although Manitowoc County is within the area of risk for subsidence in Wisconsin as identified by the Wisconsin Geologic and Natural History Survey (Figure 1), being in an area of deeper karst potential (instead of the shallow karst areas) with dolomite bedrock reduces the risk of subsidence in the county. Overall, the probability of a significant subsidence occurrence is low for the planning area.

### ***Areas at Greatest Risk***

The deeper karst potential is mostly uniform throughout Manitowoc County; therefore, the risk for subsidence is uniform throughout the county.

### ***Impacts from Hazard***

#### **Death and Injury**

No data on deaths or injuries is available for land subsidence events for Manitowoc County.

#### **Structures at Risk**

Although subsidence occurrences in other parts of the world can be large enough to swallow structures, in Wisconsin subsidence sinkholes are relatively small due to the differences in geology. In Wisconsin, the karst bedrock forms in dolomite. Dolomite is much less easily dissolved than the limestone that forms large subsidence occurrences in other areas. As a result, Wisconsin has fewer and smaller subsidence occurrences and there is minimal risk to structures.

However, the cracks and crevasses in karst act as direct conduits for pollutants to enter groundwater, wells, springs, and streams. Therefore, mindfulness of what is being spread or put on the ground in these areas is warranted to prevent groundwater contamination.

#### **Critical Facilities**

There are no critical facilities at a greater risk for damage from subsidence than any other structures in the county.

#### **Economic Impacts**

Subsidence can have an impact on the economy of an affected area by causing groundwater contamination that can be costly to treat and affect a large area of groundwater dependent businesses and residents.

#### *Estimate of Potential Dollar Losses*

An estimate of potential dollar losses cannot be calculated for subsidence, since no vulnerable structures have been identified.

#### **Impacts of Future Changing Conditions**

Future changing conditions are expected to lead to more frequent, extreme weather events, including extremes in precipitation (heavy rain versus drought) and fluctuation in groundwater levels, potentially increasing likelihood of sinkholes occurring.

# IV. Mitigation Strategy

## Introduction

As defined by the Disaster Mitigation Act of 2000, mitigation is a “sustained action that reduces or eliminates long-term risk to people and property from natural hazards and their effects.” Mitigation planning is the systematic process of learning about the hazards that can affect the planning area, setting clear goals, identifying appropriate actions, and following through with an effective mitigation strategy. Mitigation encourages long-term reduction of hazard vulnerability and can reduce the enormous cost of disasters to the government and property owners. Mitigation can also protect critical community facilities and infrastructure; reduce exposure to liability; and minimize community disruption.

The mitigation strategy outlines the general goals to be achieved through the implementation of the Manitowoc County, Wisconsin Hazard Mitigation Plan. From the identified hazard mitigation goals, a mitigation strategy was developed to identify specific projects and activities that could help achieve the county’s hazard mitigation goals to make them safer and better prepared for disasters.

This chapter includes a discussion of the mitigation efforts that are currently underway, the county’s plan to implement the mitigation actions, an assessment of the county’s pre- and post-disaster hazard management policies, programs, and capability to mitigate hazards, and an evaluation of the current and potential sources of federal, state, or private funding to implement mitigation activities.

## Mitigation Goals

The following mitigation goals are intended to be used by public officials and emergency management personnel as general guidelines to mitigate natural hazards in Manitowoc County. These goals are broad in order to apply to all of the hazards addressed in the plan.

- Goal #1: Implement policies and programs that are designed to reduce or eliminate the impacts of hazards on people and property.
- Goal #2: Collect and utilize data needed to improve policy making and the identification of appropriate mitigation projects.
- Goal #3: Build and support local capacity and commitment to continuously lessen the impacts of hazards on people and property.
- Goal #4: Promote enforcement measures to reduce the impacts of hazards on people and property.
- Goal #5: Promote the use of natural resource protection measures as a means to reduce the impacts of hazards on people and property.
- Goal #6: Obtain and maximize additional resources that are necessary to reduce the impact of hazards on people and property.
- Goal #7: Enhance training, education and outreach efforts that describe potential effects of hazards and ways to reduce their impact.
- Goal #8: Promote intergovernmental coordination and cooperation in planning for and implementing hazard mitigation strategies.

## Mitigation Action Plan

Mitigation actions form the core of the mitigation plan. Table 4.1 lists the mitigation action plan developed for Manitowoc County per Steering Committee input. Table 4.2 includes strategies to mitigate hazards at the local level as identified by the county’s local municipalities, while Table 4.3 details strategies and recommendations based on input from Manitowoc Public Utilities. The table lists the hazard type, associated mitigation actions, the estimated costs of each project (where known), responsible agencies, the project timetable, and potential funding sources available for each mitigation action identified. The identified actions and projects address reducing the effects of hazards on the population, services, and existing and new buildings and infrastructure.

The County Emergency Management Department will track the implementation of mitigation actions over time. Information on completed or revised actions will be documented in future five-year updates of the County hazard mitigation plan.

### ***Prioritization Process***

In developing this mitigation action plan, members of the plan steering committee considered, from their perspective, the various proposed action items and came to consensus on how each would be ranked, “high,” “medium” or “low,” based on need, funding, cost-benefit, and anticipated political support.

### ***Cost-Benefit Review***

In developing this mitigation action plan, members of the plan steering committee considered, from their perspective, the costs and benefits of the various proposed action items. The cost-benefit review was a factor of the prioritization process. Full-blown cost-benefit calculations were not prepared for each action item included in the plan. The cost effectiveness of each action item will be addressed and completed through the project development process.

### ***Completed Mitigation Actions***

Since the preparation of the 2009 hazard mitigation plan for Manitowoc County, some of mitigation actions identified in the action plan have been completed. The following lists those actions that have been completed in Manitowoc County.

- Mutual Aid Agreements have been established for communications systems.
- Building footprints have been collected for all structures in the
- City of Manitowoc (plus three miles) to allow for analysis of facility/structure locations.
- LIDAR data was acquired and should be updated in 2023
- Transitioned from Code Red to the RAVE Emergency Alert System
- Building footprints were collected in 2015 from LIDAR for buildings in the towns.
- Weather radios removed
- Individual sirens are tested and repaired manually
- Added capability for the Dispatch Center to accept text messages
- Updated 20-Year County Comprehensive Plan
- Developed a central data collection process to report hazard incidences and impacts.

# IV. Mitigation Strategy

Table 4.1: Manitowoc County Hazard Mitigation Action Plan 2025-2030

All Hazards					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Update air photos and LIDAR data	High	Ongoing	Covered by existing budgets	Land Information Officer	Change Acquire to update. Cost covered by existing budgets.
Outage management systems to help triage outage repairs	High	2025-2030	Costs to be determined	Manitowoc, Two Rivers, and Kiel public utilities	
Work with County, State, and Federal agencies to maintain a consistent critical facility database	High	Ongoing	Costs to be determined	Manitowoc County Hazard Mitigation Plan Steering Committee	
Promote use of NOAA weather radios which continually broadcast National Weather Service forecasts, warnings, and other crucial weather information as well as warnings regarding natural, man-made, or technological hazards	High	Ongoing	No cost; radios are purchased and sold at cost	County Emergency Services and American Red Cross	Still promote, but no longer have them for sale at the County Emergency Services. Giving away inventory as prizes at community events and promoting use of smartphone apps.
Develop/maintain comprehensive safety plan for all municipal-owned buildings	Medium	Ongoing	Covered by existing budgets	Local jurisdictions	
Encourage residents to prepare themselves by stocking up with necessary items and planning for how family members should respond if any emergency or disaster events strike	Medium	Ongoing	Covered by existing budgets	County Emergency Services, American Red Cross, and County Health Department	

Table 4.1 (cont.): Manitowoc County Hazard Mitigation Action Plan 2025-2030

All Hazards					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Collect remaining building footprints for all structures in the villages and cities to allow for analysis of where facilities/ structures are located	High	2025-2030	Costs to be determined	County Planning and Park Commission	Complete collection by focusing on villages and cities
Collect building height data for all structures in the County	High	2025-2030	Costs to be determined	County Planning and Park Commission	
Research, develop, and assess inter-operability plans	High	2025-2030	Costs TBD	County EMS, local law/fire/public works	
Animal protection	High	Ongoing	Costs to be determined	County UW-Extension, Farm Service Agency, animal shelters, and humane society	County has a pet trailer
Continue to provide safety information to the public during periods of extreme temperature	Medium	Ongoing	Covered by existing budgets	American Red Cross, County Emergency Services, and County Health Dept	Social media is used for outreach in all inclement weather.
Continue to distribute awareness/ educational materials to inform public of safety procedures to follow in a lightning storm	Medium	Ongoing	Covered by existing budgets	County Emergency Services and American Red Cross	
Provide information about protecting structures from lightning through use of fire resistant materials	Low	Ongoing	Costs to be determined based on project and jurisdiction	Local Building and Fire Inspectors	
Provide information to residents on land subsidence as needed	Low	Ongoing	Covered by existing budgets	Dependent on assistance needed	

# IV. Mitigation Strategy

Table 4.1 (cont.): Manitowoc County Hazard Mitigation Action Plan 2025-2030

Tornado and Strong Wind					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Assist personnel in schools and businesses, public facility managers, mobile home park managers, and citizens in determining “best available” tornado safety areas or need to construct safe rooms	Medium	Ongoing	Covered by existing budgets	County Emergency Services and American Red Cross	
Review and update Comprehensive Safety Plan for all county-owned buildings	Medium	Annually	Covered by existing budgets	County Departments	
Consider adoption of ordinances requiring construction of safe shelters for mobile home parks, fairgrounds, or other vulnerable public places	Low	2025-2030	Covered by existing budgets	Local zoning officials	County emergency management support

Winter Storm					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Ensure that plow and sanding equipment is operational and available	High	Ongoing	Covered by existing budgets	County Highway Dept and local public works departments	
Utilization of the media to disseminate emergency information	High	As needed	Covered by existing budgets	National Weather Service, Joint Dispatch Center, highway depts., local news, social media new blasts, and all participating jurisdictions	
Provide educational materials to the public regarding safety during winter storm events	Medium	Ongoing	Covered by existing budgets	County Emergency Services and State EM (readywisconsin.wi.gov)	

Table 4.1 (cont.): Manitowoc County Hazard Mitigation Action Plan 2025-2030

Hail					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Provide information about hail crop insurance	Medium	Ongoing	Covered by existing budgets	County UW-Extension and Farm Service Agency	

Flooding					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Land use planning	Low	Ongoing	Covered by existing budgets	All participating jurisdictions with assistance (when feasible) from County Planning and Resources Department	Will update with Comprehensive Plan
Monitor the effects of current and future development in the approximate floodplain and any other areas that have not yet been studied	High	As funding is available	Costs to be determined	County Planning and Park Commission and GIS	Updated, but still unstudied areas. Need LIDAR and 2' contours.
Maintain information regarding, and coordination of, congregate care facilities	High	Ongoing	Covered by existing budgets	County Emergency Services and American Red Cross	
Continue to issue early warnings through flood advisory bulletins	High	Ongoing	Covered by existing budgets	Wisconsin DNR, public works/ engineering, and NOAA	
Stormwater retention/detention facilities	High	Ongoing	Costs to be determined based on specific project	Wisconsin DNR and public works/ engineering	
Erosion control zoning	High	Ongoing	Covered by existing budgets	Wisconsin DNR	
Dissemination of instructions to the public through the media	High	As needed	Covered by existing budgets	National Weather Service, Joint Dispatch Center, and local jurisdictions	

# IV. Mitigation Strategy

Table 4.1 (cont.): Manitowoc County Hazard Mitigation Action Plan 2025-2030

Handle the evacuation of people and property in the case of a severe flood event	High	As needed	Dependent on budgets available	Local law enforcement, fire depts., County Emergency Services, County Highway Dept, County Aging Dept, and County Health Dept	
Review and update floodplain zoning ordinances as necessary	Medium	As needed	Covered by existing budgets	County Planning and Park Commission, and cities and villages	County updated in February 2023; approved by FEMA and WDNR
Sand-bagging when necessary	Medium	As needed	Covered by existing budgets	County Highway Dept, County Emergency Services, local public works departments	County Emergency Services provides empty bags for a small cost; City of Two Rivers provides empty bags for free
Protection of new buildings and other structures through floodplain zoning	Medium	As needed	Costs to be determined based on specific project	County Planning and Park Commission	
Review and update evacuation procedures for persons located in affected area as needed	Low	Annually	Covered by existing budgets	County Emergency Services	
Issue or deny floodplain development/ building permits	Medium	Ongoing	Covered by existing budgets	County Planning and Park Commission, and cities and villages	Addresses NFIP Compliance
Inspect all development to assure compliance with local ordinance	Medium	Ongoing	Covered by existing budgets	County Planning and Park Commission, and cities and villages	Addresses NFIP Compliance
Maintain records of floodplain development	Medium	Ongoing	Covered by existing budgets	County Planning and Park Commission, and cities and villages	Addresses NFIP Compliance
Assist in the preparation and revision of floodplain maps	Medium	Ongoing	Covered by existing budgets	County Planning and Park Commission, and cities and villages	Addresses NFIP Compliance
Help residents obtain information on flood hazard, floodplain map data, flood insurance, and proper construction measures	Medium	Ongoing	Covered by existing budgets	County Planning and Park Commission, and cities and villages	Addresses NFIP Compliance



Table 4.1 (cont.): Manitowoc County Hazard Mitigation Action Plan 2025-2030

Extreme Cold					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Organize outreach to vulnerable populations during periods of extreme temperature and provide information about places to go during extreme cold	Medium	As needed	Covered by existing budgets	County Health Dept, American Red Cross, and local jurisdictions	

Extreme Heat					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Organize outreach to vulnerable populations during periods of extreme temperature and provide information about places to go during extreme heat	Medium	As needed	Covered by existing budgets	County Health Dept, American Red Cross, and local jurisdictions	

Drought					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Identification of areas with potential ground water level problems and inspection of shallow wells in those areas for adequate depth and construction	Low	2025-2030	Costs to be determined based on pending studies	WDNR, UW-Extension, County Land and Water Conservation Dept	
Development of water usage regulations during periods of drought by local communities	Low	As needed	Covered by existing budgets	All participating jurisdictions	
Encourage citizens to take water-saving measures during periods of drought where regulations are not in place	Low	As needed	Covered by existing budgets	All participating jurisdictions	

# IV. Mitigation Strategy

Table 4.1 (cont.): Manitowoc County Hazard Mitigation Action Plan 2025-2030

Dense Fog					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Dissemination of fog advisories	High	As needed	Covered by existing budgets	National Weather Service	
Upkeep existing signage in areas of high fog event incidence	Medium	As needed	Covered by existing budgets	County Traffic Safety Commission	

Wildland Fires					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Encourage citizens to install and maintain smoke detectors and fire extinguishers on each floor of their homes or other buildings	High	Ongoing	Covered by existing budgets	Local fire depts, all participating jurisdictions, and building inspectors	
Schedule regular training and exercise sessions for response personnel	High	Ongoing	Covered by existing budgets	All participating jurisdictions and WDNR	
Develop local ordinances to require burn permits and restriction of campfires and outdoor burning	Medium	2025-2030	Costs to be determined based on needs of jurisdiction	All participating jurisdictions and WDNR	
Coordinate public outreach efforts to promote such things as safe burning, and the importance of clearing brush and grass away from buildings	Low	As needed	Covered by existing budgets	Local fire depts, and all participating jurisdictions	

Coastal Hazards					
Project	Priority	Project Timetable	Estimated Cost	Responsible Party	Notes
Continue to enforce greater setbacks for properties adjacent to Lake Michigan under the county shoreland zoning ordinance	Medium	As needed	Covered by existing budgets	County Planning Department	



# IV. Mitigation Strategy

Table 4.2: Mitigation Strategies for Communities in Manitowoc County 2025-2030

Project	Priority	Project Timetable	Estimated Cost/Funding Source	Responsible Party
<b>City of Kiel</b>				
Repair catwalk, increase the dam spillway, and repair concrete pylons	Medium	2024 Completion	Covered by existing budgets/ FEMA BRIC, DNR MFC, EDA	Wisconsin DNR and City of Kiel
<b>City of Manitowoc</b>				
Interoperable radio frequency with all disciplines (police/fire/DPW/MPU) to communicate in a man-made or natural disaster	High	As funding is available	Refer to Joint Dispatch Center/ FEMA BRIC, FEMA HMGP, EDA	Emergency communications, law enforcement, local fire, public works, public utilities
<b>City of Two Rivers</b>				
Conduct yearly needs assessments regarding expected hazards (community), identify rescue/mitigation capabilities. Address disparities.	High	Jan-24	Minimum personnel cost. Grant/public safety budget \$3,000-\$4,000. Addressing disparities: \$ unknown/ FEMA BRIC, FEMA HMGP, DNR MFC, EDA	Two Rivers Public Safety Administration
<b>Village of Cleveland</b>				
Install motion sensors at wells No. 1 and 2 and the water tower	Medium	2025	Costs to be determined/ FEMA BRIC, FEMA HMGP, DNR MFC, EDA	Village of Cleveland Public Works
<b>Village of Francis Creek</b>				
Encourage residents to prepare themselves by stocking up with necessary items and planning for how family members should respond if any emergency or disaster events strike	Medium	Ongoing	Costs to be determined/ FEMA BRIC, FEMA HMGP, EDA	Village of Francis Creek
<b>Village of Kellnersville</b>				
Develop comprehensive safety plan for wastewater lift station located at 100 Tower Avenue	Medium	2024-2026	To be determined/ FEMA BRIC, FEMA HMGP, EDA, CDBG	Kellnersville Water and Sewer Utility
<b>Village of Maribel</b>				
Promote NOAA weather radios; encourage residents to stock up on necessary items and encourage citizens to maintain smoke detectors and fire extinguishers	Low	As money comes in	To be determined; grants/ FEMA BRIC, FEMA HMGP, EDA	Village of Maribel

Table 4.2 (cont.): Mitigation Strategies for Communities in Manitowoc County 2025-2030

Project	Priority	Project Timetable	Estimated Cost and Funding Source	Responsible Party
Village of Mishicot				
Turn the VFW building into a Primary Command Center for disasters; will need to update technology, install Wi-Fi, update furnace to allow for a generator to be installed in the case of a power outage	High	Immediately	To be determined; FEMA BRIC, FEMA HMGP, DNR MFC, EDA,	Village of Mishicot Police Department
Village of Reedsville				
Dissemination of instructions to the public through the media	High	As needed	Covered by existing budgets	Jurisdictions: local law enforcement, fire departments, county emergency services, county highway department, county aging, and county health department
Ensure that plow and sanding equipment is operational and available	High	Ongoing	Covered by existing budgets	County highway department and local public works department
Village of St. Nazianz				
Encourage citizens to take water-saving measures during periods of drought where regulations are not in place	Low	Ongoing	\$500	Local jurisdictions
Village of Valders				
Dissemination of instructions to the public through the media	High	As needed	Budget as needed	JDC, Local fire department, Village of Valders
Village of Whitelaw				
Develop a comprehensive safety plan for all municipal-owned buildings	Medium	2023-2028	Covered by existing budget/FEMA BRIC, FEMA HMGP, EDA	Village of Whitelaw
Develop a water usage regulation during periods of drought and encourage residents to take water-saving measures	Low	As needed	Covered by existing budget	Village of Whitelaw
Continued investment and use of early warning system through sirens and to review and update comprehensive safety plan for all municipal owned buildings	Medium	Ongoing	Covered by existing budget/FEMA BRIC, FEMA HMGP, EDA	Local fire department

# IV. Mitigation Strategy

Table 4.3: Manitowoc Public Utilities Mitigation Recommendations and Strategy

Action Description	Hazard/Threat	Preliminary Cost	Time Frame	Priority
Participate in community, county, regional, and other exercises and training for all hazards and threats as available but at a minimum annually, including storm scenarios and threat exercises	All Hazards	To be determined	Ongoing	Medium
Engage outage management software to help triage outage repairs	All Hazards	\$200,000	2025-2026	Medium
Purchase and install standby power generation equipment to support Manitowoc drinking water, wastewater, and to start MPU solid fuel generator	All Hazards	\$3,000,000	2024-2026	High
Investigate protection against frazil ice and water intake freezing	Winter Storm & Extreme Cold	\$2,500,000	2027	Medium
Bank stabilization for Collector well station	Coastal Erosion & Bluff Failure	\$250,000	2030	Medium
Safe room (new construction or retrofit) for control room at power plant	All Hazards & Threats	\$300,000+	2026	Medium
Install new backup targets to accommodate the additional data storage requirements for backing up all the essential programs	Cyber Incident; Severe Weather	\$50,000	2019-2024	High
Develop and exercise a business continuity plan for all departments and activities	All Hazards	\$50,000+	2019-2024	High

## **Policies, Programs, and Resources for Mitigation**

Manitowoc County has a number of authorities that enforce polices, execute programs, and provide resources that support the mitigation action plan for reducing potential losses identified in the risk assessment. These authorities have been identified under the responsible parties (where applicable) in the mitigation action plan (Table 4.1), and include the following:

### ***Manitowoc County Planning and Park Commission***

Policies and programs include planning and zoning (including enforcement of county shoreland and floodplain management regulations).

### ***Manitowoc County Emergency Services***

Policies and programs include coordinating effective disaster response and recovery efforts in the county through response, recovery, planning, training, and exercises, and mitigation.

### ***Fire Departments and Emergency Medical Services***

Policies and programs include coordinating emergency preparedness, mitigation, response, and recovery efforts.

### ***Law Enforcement***

Policies and programs include coordinating emergency preparedness, mitigation, response, and recovery efforts.

### ***Manitowoc County Joint Dispatch Center***

Policies and programs include coordinating emergency response and recovery efforts with regard to communication between the public and police, fire, and EMS.

### ***Manitowoc County Highway Department***

Policies and programs include road maintenance, stormwater management, and management of salt storage for winter storms.

### ***Manitowoc County Health Department***

Policies and programs focus on protecting and promoting the health and safety of the people in the county in cooperation with community partners (includes assisting citizens with emergency preparedness).

### ***Wisconsin Emergency Management***

Policies and programs include supporting effective disaster response and recovery efforts in support of local government through planning, training, and exercises.

### ***Wisconsin Department of Natural Resources***

Relevant policies and programs include regulation enforcement of state shoreland and floodplain management rules, and wildland fire response and education.

### ***Power Utilities (Manitowoc Public Utilities, Kiel Utilities, Two Rivers Utilities, Wisconsin Public Service, WE Energies)***

Policies and programs include maintaining electrical power and transmission facilities.

### ***American Red Cross***

Policies and programs include disaster relief and educational programs that promote health and safety.

### ***National Weather Service (Green Bay Regional Office)***

Policies and programs include publicizing information, and providing outreach and education about hazardous weather.

These authorities have the ability to expand or modify their programs when needed to improve existing tools to address mitigation. Manitowoc County has taxing authority through property taxes to raise funds for the purpose hazard mitigation. Additional funding sources for hazard mitigation actions are available from a number of federal and state grant programs.

# IV. Mitigation Strategy

## Potential Funding Sources for Mitigation Activities

Funding for hazard mitigation programs and projects can come from various sources, both public and private. Non-local funding can come from several sources, whether in the form of a grant or a loan. The following narrative provides a description of several potential grant programs available to Manitowoc County (or other entities seeking to carry out hazard mitigation actions) for funding future mitigation actions identified in this plan.

### Federal Programs

#### ***EDA Public Works and Development Facilities***

These funds are available for local units of government to enhance regional competitiveness and promote long-term economic development in regions experiencing substantial economic distress. EDA provides public works investments to help distressed communities and regions revitalize, expand, and upgrade their physical infrastructure to attract new industry, encourage business expansion, diversify local economies, and generate or retain long-term private sector jobs and investment.

#### ***FEMA Assistance to Firefighters Grant***

The primary goal of the Assistance to Firefighters Grant (AFG) is to meet the firefighting and emergency response needs of fire departments and nonaffiliated emergency medical service organizations. The AFG program helps firefighters and other first responders to obtain critically needed equipment, protective gear, emergency vehicles, training, and other resources needed to protect the public and emergency personnel from fire and related hazards. The National Preparedness Directorate in FEMA administers the grants in cooperation with the U.S. Fire Administration.

#### ***FEMA Fire Prevention and Safety Grant***

The Fire Prevention and Safety Grants (FP&S) are part of the AFG, and are also under the purview of the National Preparedness Directorate in FEMA. FP&S grants support projects that enhance the safety of the public and firefighters from fire and related hazards. The primary goal is to target high-risk populations and mitigate high incidences of death and injury.

#### ***FEMA Flood Mitigation Assistance Program***

The Flood Mitigation Assistance (FMA) program was authorized as part of the National Flood Insurance Reform Act (NFIRA) of 1994 with the goal of reducing or eliminating claims under the National Flood Insurance Program (NFIP). FEMA provides FMA funds to assist states, territories, federally recognized tribes and local communities with implementing measures that reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the NFIP. Eligible activities include: acquisition, relocation, elevation, and floodproofing of flood-prone insured properties; flood mitigation planning; and technical assistance. In order to be eligible for funding through this program, the local government must be in compliance with the NFIP.

#### ***FEMA Hazard Mitigation Grant Program***

The Hazard Mitigation Grant Program (HMGP) provides funds to states, tribes and local communities after a disaster declaration to protect public or private property through various mitigation measures. Hazard mitigation includes long-term efforts to reduce the impact of future events. HMGP recipients have the primary responsibility for prioritizing, selecting, and administering state and local hazard mitigation projects. Although individuals may not apply directly to a state for assistance, local governments may sponsor an application on their behalf. The purpose of the HMGP is to help communities implement hazard mitigation measures following a Presidential Major Disaster Declaration in areas of the state, tribe or territory requested by the Governor or Tribal Executive. The key purpose of this grant program is to enact mitigation measures that reduce the risk of loss of life and property from future disasters.



***Building Resilient Infrastructure and Communities (BRIC)***

Building Resilient Infrastructure and Communities (BRIC) supports states, local communities, tribes, and territories as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards. BRIC replaces the Pre-Disaster Mitigation program and is a new FEMA pre-disaster hazard mitigation program. Guiding principles of the BRIC program include: supporting communities through capability- and capacity-building; encouraging and enabling innovation; promoting partnerships; enabling large projects; maintaining flexibility; and providing consistency.

***Pipeline and Hazardous Materials Safety Administration, Hazardous Materials Emergency Preparedness***

The Hazardous Materials Emergency Preparedness (HMEP) grant program is intended to provide financial and technical assistance as well as national direction and guidance to enhance state, territorial, tribal, and local hazardous materials emergency planning and training. The HMEP grant program distributes fees collected from shippers and carriers of hazardous materials to emergency responders for hazmat training and to Local Emergency Planning Committees (LEPCs) for hazmat planning.

***U.S. Department of Education School Emergency Response and Crisis Management Plan Discretionary Grant Program***

This grant program is designed to provide funds to Local Education Agencies (LEAs) to strengthen and improve their emergency response and crisis plans, at the district and school building levels. Grantees are required to address all four phases of crisis planning: prevention and mitigation, preparedness, response, and recovery. In addition, LEAs are required to form partnerships and collaborate with community organizations, local law enforcement agencies, heads of local governments, and offices of public safety, health, and mental health, as they review and revise school crisis plans. Plans must be coordinated with state or local homeland security plans and support implementation of the National Incident Management System (NIMS). Grant funds may be used for the following activities: training school safety teams and students; conducting building and facilities audits; communicating emergency response policies to parents and guardians; implementing an Incident Command System (ICS); purchasing school safety equipment (to a limited extent); conducting drills and tabletop simulation exercises; and preparing and distributing copies of crisis plans.

***State of Wisconsin Programs***

***Wisconsin Department of Natural Resources (WDNR) Surface Water Grant Program***

The WDNR Surface Water Grant Program provides cost-sharing grants for surface water protection and restoration. Funding is available for education, ecological assessments, planning, implementation, and aquatic invasive species prevention and control. Counties, municipalities, natural resource agencies, tribal governing bodies, other local units of government, accredited colleges, universities, technical schools, lake districts, and town sanitary districts are automatically eligible to apply for a grant under this program. Qualified lake associations, qualified surface water management organizations, qualified river management organizations, nonprofit conservation organizations, and qualified school districts must apply for eligibility before applying for a surface water grant. Nonprofit organizations will need to reapply as surface water management organizations before receiving a grant. The following are grant subcategories under this program:

- Education and Planning Grants (includes surface water education, surface water planning, and comprehensive planning);
  - Aquatic Invasive Species (AIS) Prevention and Management Grants (includes AIS prevention, clean boats/clean waters, AIS population management, early detection and response, and AIS research and demonstration);
  - Surface Water Restoration and Management Grants (includes healthy lakes and rivers, surface water restoration, management plan implementation, ordinance development, fee simple land easement and acquisition, and wetland restoration incentives); and
  - County and Tribal Government Grants (includes lake monitoring and protection network, and county lake grants).
- This program includes the former WDNR Lake Planning Grant Program and WDNR River Planning Grant Program that appeared in previous hazard mitigation plans.

## ***WDNR Municipal Flood Control Grant Program***

The WDNR Bureau of Community Financial Assistance and Bureau of Watershed Management offer this grant assistance to all cities, villages, towns, tribes, and metropolitan sewerage districts concerned with municipal flood control management throughout the state. Eligible project types (in ranked order) include the following:

- Property acquisition and removal of structures for permanent open space or flood water storage;
- Acquisition of vacant land or flood water flowage easement to facilitate more efficient flood flows to the water body;
- Floodproofing and flood elevation of public and private structures in the 100-year floodplain;
- Flood water control detention ponds;
- Riparian restoration projects on a watercourse; and
- Flood mapping.

The grant period is for two years, with a possible extension of one year with written justification. WDNR reimburses 50 percent of eligible costs under this program.

## ***WDNR Forest Fire Protection Grant Program***

Forest fire protection (FFP) grants are available to Wisconsin fire departments and county/area fire associations. Grant funding is intended to expand the use of local fire departments to augment and strengthen the WDNR's overall initial attack fire suppression capabilities on forest fires.

## ***WDNR Lead Service Line Replacement Programs***

The WDNR, in collaboration with the Wisconsin Department of Administration and the Wisconsin Public Service Commission, established the Private Lead Service Line (LSL) Replacement Program to assist municipalities in their efforts to replace private LSLs. This is part of the WDNR's Safe Drinking Water Loan Program (SDWLP). Funding for LSL replacements on private property will be awarded as principal forgiveness, which means that no debt is incurred on behalf of the municipality for these funds. The private portion of the service line is defined as the portion between the curb stop and the normal connection point inside the building. The public portion of the service line is eligible for SDWLP funding. This program has gone in and out of existence in recent years, but the Bipartisan Infrastructure Law (BIL) recently gave it new life.

## ***Wisconsin Department of Administration (WDOA) Division of Energy, Housing, and Community Resources - Community Development Block Grant (CDBG) – Emergency Assistance Program (EAP)***

The CDBG-EAP is administered by the WDOA's Division of Energy, Housing, and Community Resources (DEHCR) under Title I of the Housing and Community Development Act of 1974, as amended. CDBG-EAP funds are used to assist local units of government in addressing emergency housing, public facility, infrastructure, and business assistance needs that occur as a result of natural or manmade disasters. Such assistance may include, but is not limited to: housing rehabilitation, acquisition/demolition, housing replacement, road repairs, storm water drainage and public facilities. A local unit of government interested in applying for CDBG-EAP funds must submit a notice of intent to apply within 90 days of the disaster event. These funds must be used for the benefit of low-to-moderate income households or persons; income information is collected and reviewed to ensure participant eligibility.

## ***Wisconsin Department of Health Services (WDHS) Public Health Emergency Preparedness Program***

The WDHS applies for federal funding each year through the Hospital Preparedness Program – Public Health Emergency Preparedness Cooperative Agreement. The WDHS Health Emergency Preparedness (HEP) Section must submit an application, budget narrative and other documentation each year in order to receive funding for the upcoming fiscal year. Once that documentation has been reviewed and approved, the federal government distributes a Notice of Award that allocates the amount of funding that the state receives for the fiscal year. This funding is typically distributed between two programs: the Public Health Emergency Preparedness Program (PHEP) and the Hospital Preparedness Program (HPP). A certain percentage of PHEP funding goes to local health departments and tribal health centers, with one of these being the Manitowoc County Health Department.

### **Wisconsin Economic Development Corporation (WEDC) Disaster Recovery Microloan Program**

The goal of the WEDC Disaster Recovery Microloan (DRM) program is to provide short-term assistance to businesses affected by disaster events in Wisconsin. Nine regional entities in the state (including the Bay-Lake Regional Planning Commission (RPC) and nearly all RPCs in the state) have been designated by the WEDC “with the capacity to deploy rapid response microloans to businesses affected by disasters, either natural or manmade.” These regional entities contract with the WEDC to distribute and administer DRM funds. Within 30 days following a natural or manmade disaster event (which may or may not include a corresponding state of emergency or disaster declaration), the regional entity can request allocation of funding to make microloans in their region, and the WEDC will expedite review and approval of the request. Eligible activities include: (1) procurement of cleanup and restoration services; (2) operating expenses (such as payroll); (3) rent or mortgage for temporary space; and (4) repair and reconstruction. There are several eligibility criteria, and certain business types are ineligible. Up to \$20,000 in loans are available at an interest rate of 0.0 percent, and the loans should be paid back within 24 months. There are provisions for deferral, collateral and guarantees. Additional information regarding this program can be found at: [https://baylakerpc.org/fundingresources/disaster-recovery-microloan-program\(.\)](https://baylakerpc.org/fundingresources/disaster-recovery-microloan-program(.))

### **Wisconsin Emergency Management (WEM) Emergency Planning and Community Right-to-Know Act (EPCRA) Grants**

WEM offers two grants that have been authorized in the federal EPCRA:

- Planning Grants – WEM will provide grant funds to a county emergency management office for eligible expenses that support their Local Emergency Planning Committee (LEPC) completion of required Plan-of-Work (POW) hazardous materials planning and preparedness activities. Grant awards are formula based and are funded by EPCRA program revenue/fees. The grant is administered in conjunction with the Emergency Management Performance Grant (EMPG).
- Computer and Hazmat Equipment Grants – WEM will provide grant funds to a county emergency management office to support the purchase of eligible computer and hazmat equipment for a county sponsored hazmat team. The maximum total award may be up to \$10,000 annually (subject to approval), and with consideration of a four-year funding cycle. The grant will reimburse 80 percent of eligible expenses, with a 20 percent local match required. Counties without a county sponsored hazmat team are eligible only for the computer portion of the grant. The grant is funded by state general purpose revenue (GPR).

### **Wisconsin Disaster Fund**

The Wisconsin Disaster Fund (WDF) is a state-funded reimbursement program intended to assist counties, city, village, town and tribal units of government recoup costs incurred in responding to and recovering from natural disasters. The state reimburses 70 percent of eligible costs after the local governmental unit submits a complete WDF application. The WDF does not cover individuals, businesses, the agricultural sector, costs associated with snowstorms, damages covered by insurance, nor does it provide funds for mitigation activities. The WDF does reimburse public disaster costs under three categories of work: debris clearance; protective measures; and road and bridge repair.

The WDF is modeled after FEMA’s Public Assistance Program, and is guided by the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended.

In order to be eligible for the WDF, the following steps must occur:

- The local unit of government has declared a “State of Emergency,” in accordance with their own policies and procedures.
- The applicant must show that federal disaster assistance is not available.
- Recovery costs meet or exceed the county-wide per capita damage threshold.

# V. Plan Adoption and Maintenance

## Plan Adoption Process

The Manitowoc County, Wisconsin Hazard Mitigation Plan development process was guided by the County Hazard Mitigation Plan Steering Committee over an \_\_\_-month time-frame, with professional planning support from the Bay-Lake Regional Planning Commission. A list of Steering Committee members can be found in Section I - Introduction of this document.

WEM and FEMA reviewed a final draft of the county’s hazard mitigation plan prior to adoption by the Manitowoc County Board. Comments received from WEM and FEMA were reviewed by the Steering Committee and necessary revisions were made.

Prior to final approval by WEM and FEMA, the plan update must be formally adopted by Manitowoc County and its incorporated areas by resolution. Incorporated communities that do not adopt the plan cannot apply for mitigation grant funds unless they choose to prepare, adopt, and submit their own plan. Adoption of the county’s hazard mitigation plan gives the incorporated jurisdiction the ability to enact ordinances, policies, or programs to reduce hazard losses and to implement other mitigation actions.

Adoption of the this hazard mitigation plan update by a local unit of government certifies their participation. The plan was adopted by resolution by the Manitowoc County Board on \_\_\_\_\_. Local resolutions of adoption can be found on page \_\_\_\_\_. Approval letters from WEM and FEMA can be found on page \_\_\_\_\_.

## Plan Maintenance

Planning is an ongoing process, and this plan should grow and adapt in order to keep pace with growth and change in the planning area and its local jurisdictions. The Disaster Mitigation Act of 2000 requires that local plans be evaluated and updated at least every five years in order to remain eligible for assistance.

### Plan Monitoring, Evaluation, and Updating

This *Manitowoc County, Wisconsin Hazard Mitigation Plan 2025-2030* is an update to the 2020 plan, and will continue to be monitored, evaluated, and updated by the Manitowoc County Emergency Management Director.

Plan monitoring will occur every five years, and will involve convening the Steering Committee to review the identified mitigation strategies and track the progress toward implementation.

Plan evaluation will include an assessment of the effectiveness of the plan at achieving the stated goals by convening the steering committee every five years to review the plan and ensure that all information is still relevant and applicable.

Plan updating will occur every five years, and will involve the collection of the most current data to support the plan and the development of new mitigation strategies and an implementation plan. This planning effort will be comprehensive, and will incorporate opportunities for public involvement to meet all requirements of 44 CFR Part 201.6 and/or any applicable requirements or regulations developed over the next five years.

The plan monitoring, evaluation and updating will be coordinated by the Manitowoc County Emergency Management Director, and will be approved by the County Board. All meetings to monitor, evaluate, and/or update the plan will be subject to the Wisconsin Open Meetings Law, and will be properly noticed to allow for public involvement and comment. All communities in Manitowoc County will be invited to participate in the process.

### Additional Plan Review

Within three to six months following a significant natural hazard event, a special post-disaster review will occur. Information concerning the disaster shall be collected by Manitowoc County Emergency Management from local law enforcement personnel, fire department personnel, disaster response personnel, Wisconsin Emergency Management staff, FEMA staff, affected citizens, and any other pertinent entities. This information shall be provided to the Steering Committee for its review.

At a public meeting, the Steering Committee will analyze the contributing factors to the impact(s) of the hazard event, the likelihood of the event recurring, and any strategies that should be implemented to mitigate the impact(s) in the future. The County Emergency Management Director will have primary responsibility for establishing post-disaster review meeting dates,

distributing related materials, facilitating the meetings, and advertising these special meetings to affected county department heads and citizens and community groups, so that additional input and comment can be received. Special post-disaster review meetings shall be subject to the Wisconsin Open Meeting Law and shall be properly noticed to allow for public involvement and comment.

The Steering Committee may choose to revise or amend the existing county plan based on what is learned in the review process. Any recommended changes to the plan shall be forwarded to the Manitowoc County Board for its action and consideration.

### Plan Incorporation

The mitigation action plan (provided in Section IV) ties the mitigation strategies to related plans or policies. As the county and jurisdictions in the planning area develop or update their comprehensive plans, incorporation of this Hazard Mitigation Plan is highly recommended. Manitowoc County's current comprehensive plan was completed in August 2020. The 2020 Comprehensive Plan incorporated the January 2020 mitigation plan as outlined below. In addition, the current local comprehensive plans for the cities and villages also incorporated the hazard mitigation plan in a similar fashion as outlined below. Most of the following municipal comprehensive plans incorporated content from the original 2009 hazard mitigation plan, or from the 2014 or 2020 hazard mitigation plan updates based on how recently their comprehensive plan was adopted: villages of Cleveland (2019), Francis Creek (2009), Kellnersville (2009), Maribel (2009), Mishicot (2023), Reedsville (2009), St. Nazianz (2009), and Whitelaw (2009); and the cities of Manitowoc (2019) and Two Rivers (2022). The comprehensive plans for the City of Kiel (2002) and the Village of Valders (2003) are currently out of date and do not include hazard mitigation strategies since they were completed prior to Manitowoc County's original hazard mitigation plan (2009).

The Bay-Lake Regional Planning Commission facilitates the hazard mitigation planning and updates, plus assists with the county and many of the local comprehensive plan updates. Bay-Lake RPC works to integrate both plans as part of its standard planning process.

The following points detail how the hazard mitigation plan is incorporated into each of the elements of the county and local comprehensive plans

- Issues and Opportunities Element: A summary of major hazards that local governments are vulnerable to, and what is proposed to be done to mitigate future losses from the hazards.
- Housing Element: An inventory of the properties that are in the floodplain boundaries, the location of mobile/manufactured homes, recommendations concerning building codes, shelter opportunities, and a survey of homeowners that may be interested in a voluntary buyout and relocation program.
- Utilities and Community Facilities Element: Identify critical facilities such as schools, medical, water infrastructure, etc., and make recommendations on how to mitigate specific risks factors.
- Transportation Element: Identify any transportation routes or facilities that are more at risk during flooding or winter storms.
- Agricultural, Natural, and Cultural Resources Element: Identify the floodplains and agricultural areas that are at risk during hazardous events. Incorporate recommendations on how to mitigate future losses to these areas.
- Economic Development Element: Describe the impacts that past hazards have had on area businesses.
- Intergovernmental Cooperation Element: Identify intergovernmental police, fire and rescue service sharing agreements that are in effect or which may merit further investigation, and consider cost sharing and resource pooling of government services and facilities.
- Land Use Element: Describe how flooding has impacted land uses and what is being done to mitigate negative land use impacts from flooding; map and identify natural hazard areas, such as floodplains and soils with limitations.
- Implementation Element: Recommended actions from this plan included in the implementation element of comprehensive plans of all jurisdictions in the planning area.

Elements of the *Manitowoc County, Wisconsin Hazard Mitigation Plan: 2025 – 2030* were incorporated into other planning mechanisms that the county and its individual jurisdictions maintain including the *2024 Manitowoc County Farmland Preservation Plan*, *2023 Manitowoc County Parks and Open Space Plan*, and other local outdoor recreation plans.

## Plan Coordination

To maximize coordination of the Hazard Mitigation Plan with other related plans for Manitowoc County, mitigation strategies recommended in this plan have been, and should continue to be, considered when developing capital improvement plans, stormwater management plans, or flood mitigation plans.

Several relevant plans, reports, and technical data were referenced and incorporated into the *Manitowoc County, Wisconsin Hazard Mitigation Plan: 2025 – 2030*. The following is a comprehensive list of the data and reports that were used in plan development:

- Population and housing data from the Bureau of the Census (1990, 2000, 2010 and 2020);
- Employment by industry from the Bureau of the Census (2020 American Community Survey (ACS) 5-Year Estimates);
- Median household income and poverty rate (2016 and 2020 ACS 5-Year Estimates);
- Annual unemployment rate (2016 and 2020 Wisconsin Department of Workforce Development Local Area Unemployment Statistics);
- Land use inventory data (2023, Bay-Lake Regional Planning Commission);
- National Oceanic and Atmospheric Administration (NOAA) National Centers for Environmental Information, past natural hazard occurrence data;
- Wisconsin Department of Natural Resources (WDNR) Fire Management Dashboards Wildfire View, and Burning Permit Map;
- Traffic Operations and Safety (TOPS) Laboratory, UW-Madison, WisTransPortal System;
- Federal Emergency Management Agency (FEMA), Federal Disaster Declarations affecting Manitowoc County, Wisconsin, and Wind Zones Map;
- U.S. Geological Survey maps on landslides, land subsidence and earthquakes were used to describe those hazards;
- National Weather Service, various graphics, including: Explanation of Enhanced Fujita Scale; Tornado Tracks in Manitowoc County; Where to go when sheltering from a tornado; Average Annual Snowfall in Wisconsin; Number of Heat Wave Days; and Hailstone Size Chart;
- Wisconsin State Climatology Office, graphics, including: Average Days with Below Zero Lows; and Average Lightning Density;
- Wisconsin Initiative on Climate Change Impacts - Assessment Report (2021) contributed to the climate impacts language;
- National Drought Mitigation Center, Drought Guide Chart;
- Crondall Weather, Lightning Types;
- Internet Crime Complaint Center, Victims (of cybercrime) by Age Group; and Crime Type by Victim Count;
- FEMA, Flood Insurance Studies and Flood Insurance Rate Maps (FIRMs) were used to map floodplain areas;
- Parcel data from Manitowoc County were used to determine impacts of hazards with defined areas;
- Assessed valuation data from Manitowoc County were used to derive estimates of potential dollar losses;
- The *Manitowoc County 20-Year Comprehensive Plan Update* was used to develop the community profile and contributed to the development of the mitigation action plan;
- Risk Assessment Matrix Worksheet adapted from the Resource Guide to All Hazards Mitigation Planning in Wisconsin (AWRPC, 2003);
- Local Hazard Mitigation Plan Review Crosswalk completed for Manitowoc County in January 2020 was used to ensure that recommended revisions were addressed;
- State of Wisconsin Hazard Mitigation Plan (2016) was used to develop hazard descriptions for the risk assessment;

- FEMA Local Mitigation Planning Handbook (2013) was used to ensure that the plan contained all required information; and
- FEMA Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards (2013) contributed to the development of the mitigation action plan.

It is recommended that similar materials be referenced when completing any updates to the hazard mitigation plan.

# Appendix A

## Steering Committee Sign-In Sheets

October 2, 2023

ATTENDANCE REPORT & EXPENSE CLAIM VOUCHER:

Date: 10/2/2023 Start time: 1:30 pm  
 Location: CT 111112 End time: 3:00 pm

### Hazard Mitigation Plan Steering Committee

Each person who signs the Attendance Report and Expense Claim Voucher declares and affirms, subject to the penalties of Wis. Stat. § 946.32(1), that he or she believes the information he or she has provided is true and acknowledges that such information is required by the Manitowoc County Clerk to maintain official county records and to process the expense claim voucher.

Employee No.	Name	Signature <small>If present at meeting, sign name. If not present, Chair write EXCUSED or ABSENT.</small>	Round-Trip Miles	- ADMIN USE ONLY - Mileage Paid
	AGHMAR, Korina	EXCUSED		
	BACALZO, Steve	[Signature]		
	BECKERDITE, Kayla	[Signature]		
	BLASER, Todd	[Signature]		
	FULLER, Izzy	[Signature]		
	GRANGER, Paul	[Signature]		
	KONOP, Melissa	[Signature]		
	KOSKI, Dan	[Signature]		
	MURACK, Dave	[Signature]		
	NACK, Brian	[Signature]		
	NEUSER, Gerry	EXCUSED		
	ORTH, Jason	[Signature]		
	OTIS, Lexi	[Signature]		
	RAYMAKERS, Andrea	[Signature]		
	SMITH, Denny	[Signature]		
	STRADAL, Josh	[Signature]		
	WIESNER, Melissa			
	WITTERHOLT, Casey	[Signature]	54	

NOTE: Return this form to the COUNTY CLERK Office within ten days of the meeting.

[Signature]  
CHAIRPERSON SIGNATURE

November 30, 2023

ATTENDANCE Report & Expense Claim Voucher:

Date: 11/30/23 Start time: 10:00am  
 Location: Room 11/12 End Time: 11:30am

### HAZARD MITIGATION PLAN STEERING COMMITTEE

Each person who signs the Attendance Report and Expense Claim Voucher declares and affirms, subject to the penalties of Wis. Stat. § 946.32(1), that he or she believes the information he or she has provided is true and acknowledges that such information is required by the Manitowoc County Clerk to maintain official county records and to process the expense claim voucher.

Employee No.	Name	Signature <small>If present at meeting, sign name. If not present, Chair write EXCUSED or ABSENT</small>	Round-Trip Miles	- ADMIN USE ONLY - Mileage Paid
	AGHMAR, Korina	[Signature]		
	BACALZO, Steve	[Signature]		
	BLASER, Todd	[Signature]		
	FULLER, Izzy	[Signature]		
	GRANGER, Paul	[Signature]		
	GREEN, Rhonda	[Signature]		
	KONOP, Melissa	[Signature]		
	KOSKI, Dan	[Signature]		
	MURACK, Dave	[Signature]		
	NACK, Brian	[Signature]		
	NEUSER, Gerry	[Signature]		
	ORTH, Jason	[Signature]		
	OTIS, Lexi	[Signature]		
	RAYMAKERS, Andrea	[Signature]		
	RILEY, Brenden	[Signature]		
	SMITH, Denny	[Signature]		
	STRADAL, Josh			
	WIESNER, Melissa	[Signature]		
	WITTERHOLT, Casey	[Signature]	50	

April 9, 2024

February 26, 2024

ATTENDANCE REPORT & EXPENSE CLAIM VOUCHER:

Date: 02/26/24 Start time: 10:04am  
 Location: 624 59th St End time: 11:20am

### Hazard Mitigation Plan Steering Committee

Each person who signs the Attendance Report and Expense Claim Voucher declares and affirms, subject to the penalties of Wis. Stat. § 946.32(1), that he or she believes the information he or she has provided is true and acknowledges that such information is required by the Manitowoc County Clerk to maintain official county records and to process the expense claim voucher.

Employee No.	Name	Signature <small>If present at meeting, sign name. If not present, Chair write EXCUSED or ABSENT.</small>	Round-Trip Miles	- ADMIN USE ONLY - Mileage Paid
900378	AGHMAR, Korina	[Signature]		
	BACALZO, Steve	[Signature]		
	BLASER, Todd	[Signature]		
	ROBINSON, Brandon	[Signature]		
	GRANGER, Paul	[Signature]		
900442	GREEN, Rhonda - CHAIR	[Signature]		
52174	KONOP, Melissa	[Signature]		
	KOSKI, Dan	[Signature]		
	MURACK, Dave	[Signature]		
10142	NACK, Brian	[Signature]		
10966	NEUSER, Gerry	[Signature]		
15473	ORTH, Jason	[Signature]		
56078	OTIS, Lexi	[Signature]		
27405	RAYMAKERS, Andrea	[Signature]		
900434	RILEY, Brenden	[Signature]		
	SMITH, Denny	[Signature]		
	STRADAL, Josh			
	WIESNER, Melissa			
	WITTERHOLT, Casey	[Signature]		
	Wendishi, Kevin	[Signature]		
	[Signature]	[Signature]		

NOTE: Return this form to the COUNTY CLERK Office within ten days of the meeting.

ATTENDANCE REPORT & EXPENSE CLAIM VOUCHER:

Date: 4/9/24 Start time: 1:31  
 Location: Room 11/12 End time: 2:12

### Hazard Mitigation Plan Steering Committee

Each person who signs the Attendance Report and Expense Claim Voucher declares and affirms, subject to the penalties of Wis. Stat. § 946.32(1), that he or she believes the information he or she has provided is true and acknowledges that such information is required by the Manitowoc County Clerk to maintain official county records and to process the expense claim voucher.

Employee No.	Name	Signature <small>If present at meeting, sign name. If not present, Chair write EXCUSED or ABSENT.</small>	Round-Trip Miles	- ADMIN USE ONLY - Mileage Paid
900378	AGHMAR, Korina	[Signature]		
	BACALZO, Steve	[Signature]		
	BLASER, Todd	[Signature]		
	ROBINSON, Brandon	[Signature]		
	GRANGER, Paul	[Signature]		
900442	GREEN, Rhonda - CHAIR	[Signature]		
52174	KONOP, Melissa	[Signature]		
	KOSKI, Dan	[Signature]		
	MURACK, Dave	[Signature]		
10142	NACK, Brian	[Signature]		
10966	NEUSER, Gerry	[Signature]		
15473	ORTH, Jason	[Signature]		
56078	OTIS, Lexi	[Signature]		
27405	RAYMAKERS, Andrea	[Signature]		
900434	RILEY, Brenden	[Signature]		
	SMITH, Denny	[Signature]		
	STRADAL, Josh	[Signature]		
	WIESNER, Melissa	[Signature]		
	WITTERHOLT, Casey	[Signature]	56 (5-PM)	
	Semo, Lydria	[Signature]		

NOTE: Return this form to the COUNTY CLERK Office within ten days of the meeting.

[Signature]  
CHAIRPERSON SIGNATURE





# Appendix B

## Steering Committee Agendas October 2, 2023



### MANITOWOC COUNTY HAZARD MITIGATION PLAN UPDATE STEERING COMMITTEE

#### Meeting Notice

**DATE:** Monday, October 2<sup>nd</sup>, 2023  
**TIME:** 1:30 p.m.  
**PLACE:** Communications and Technology Building  
Room 111/112  
1024 South 9<sup>th</sup> Street  
Manitowoc, Wis.

The meeting is open to the public, but portions of the meeting may be closed if this notice indicates that the committee may convene in closed session. The following matters may be considered at the meeting:

1. Call to Order
2. Roll Call/Introductions
3. Public Comment
4. Project Description- Overview of planning process and plan content
5. Review project schedule and expectations of steering committee
6. Review/Update elements from previous plan, including, but not limited to, the following:
  - a. Goals
  - b. Hazard Risks and Ratings
  - c. Critical Facilities Categories
  - d. Mitigation Strategies
7. Discuss next steps
8. Schedule next meeting

Date: September 21, 2023                      Prepared by: Izzy Fuller  
Bay-Lake Regional Planning Commission

Any person wishing to attend the meeting who requires special accommodation because of a disability should contact the County Clerk's office at 920-683-4003 at least 24 hours before the meeting begins so that appropriate accommodations can be made.

## November 30, 2023



### MANITOWOC COUNTY HAZARD MITIGATION PLAN UPDATE STEERING COMMITTEE

#### Meeting Notice

**DATE:** Thursday, November 30<sup>th</sup>, 2023  
**TIME:** 10:00 am  
**PLACE:** Communications and Technology Building  
Room 111/112  
1024 South 9<sup>th</sup> Street  
Manitowoc, Wis.

The meeting is open to the public, but portions of the meeting may be closed if this notice indicates that the committee may convene in closed session. The following matters may be considered at the meeting:

1. Call to Order
2. Roll Call/Introductions
3. Public Comment
4. Recap of previous meeting
5. Review municipal exercises
6. Hazards overview
7. Review draft chapters
8. Other discussion and next steps
9. Schedule next meeting

Date: November 20<sup>th</sup>, 2023                      Prepared by: Izzy Fuller  
Bay-Lake Regional Planning Commission

Project Contacts:  
Rhonda Green, Emergency Management; rhondagreen@manitowocountywi.gov; 920-323-4207  
Brenden Riley, Emergency Management; brendenriley@manitowocountywi.gov; 920-323-7780  
Izzy Fuller, Bay-Lake Regional Planning Commission; ifuller@baylakerpc.org; 920-448-2820, Ext. 106

Any person wishing to attend the meeting who requires special accommodation because of a disability should contact the County Clerk's office at 920-683-4003 at least 24 hours before the meeting begins so that appropriate accommodations can be made.

## February 26, 2024



### MANITOWOC COUNTY HAZARD MITIGATION PLAN UPDATE STEERING COMMITTEE

#### Meeting Notice

**DATE:** February 26, 2024  
**TIME:** 10:00 AM  
**PLACE:** Communications and Technology Building  
Room 111/112  
1024 South 9<sup>th</sup> Street  
Manitowoc, Wis.

The meeting is open to the public, but portions of the meeting may be closed if this notice indicates that the committee may convene in closed session. The following matters may be considered at the meeting:

1. Call to Order
2. Roll Call/Introductions
3. Public Comment
4. Recap of previous meeting
5. Review draft chapter 3 (Risk Assessment)
  - a. Critical facilities overview
  - b. Hazards data & risk assessment
  - c. Hazards prioritization exercise
6. Mitigation strategies review
7. Other discussion and next steps
8. Schedule next meeting

Date: February 15, 2024                      Prepared by: Brandon Robinson  
Bay-Lake Regional Planning Commission

Project Contacts:  
Rhonda Green, Emergency Management; rhondagreen@manitowocountywi.gov; 920-323-4207  
Brenden Riley, Emergency Management; brendenriley@manitowocountywi.gov; 920-323-7780  
Brandon Robinson, Bay-Lake Regional Planning Commission; brobinson@baylakerpc.org; 920-448-2820, Ext. 105

Any person wishing to attend the meeting who requires special accommodation because of a disability should contact the County Clerk's office at 920-683-4003 at least 24 hours before the meeting begins so that appropriate accommodations can be made.

## April 9, 2024



### MANITOWOC COUNTY HAZARD MITIGATION PLAN UPDATE STEERING COMMITTEE

#### Meeting Notice

**DATE:** April 9, 2024  
**TIME:** 1:30 PM  
**PLACE:** Communications and Technology Building  
Room 111/112  
1024 South 9<sup>th</sup> Street  
Manitowoc, Wis.

The meeting is open to the public, but portions of the meeting may be closed if this notice indicates that the committee may convene in closed session. The following matters may be considered at the meeting:

1. Introductions
2. Recap of previous meeting
3. Finish Review Draft Chapter 3 (Risk Assessment)
4. Review Draft Chapters 4 & 5 (Mitigation Strategy and Plan Adoption and Maintenance)
5. Other discussion and next steps
6. Schedule next meeting

Date: April 3, 2024                      Prepared by: Brandon Robinson  
Bay-Lake Regional Planning Commission

Project Contacts:  
Rhonda Green, Emergency Management; rhondagreen@manitowocountywi.gov; 920-323-4207  
Brenden Riley, Emergency Management; brendenriley@manitowocountywi.gov; 920-323-7780  
Brandon Robinson, Bay-Lake Regional Planning Commission; brobinson@baylakerpc.org; 920-448-2820, Ext. 105

Any person wishing to attend the meeting who requires special accommodation because of a disability should contact the County Clerk's office at 920-683-4003 at least 24 hours before the meeting begins so that appropriate accommodations can be made.

## Multi-Jurisdictional Cooperation Exercise

As a way to ensure accurate data and multi-jurisdictional cooperation in the update of the county’s hazard mitigation plan, the steering committee and the Bay-Lake Regional Planning Commission engaged the local communities in a cooperation exercise to review and provide input on plan materials.

Cities and villages were provided a listing of their critical facilities, goals identified in the plan, and hazards mitigation actions, and were asked to review and comment on the materials. Additionally, they were asked to identify mitigation actions specific to their community. The following is the letter that was sent to the cities and villages in Manitowoc County. Towns received a similar letter that only asked for updates to their existing critical facility list.



### Manitowoc County Emergency Services

1024 South 9<sup>th</sup> Street - Manitowoc, WI 54220

**Kayla Beckerdite, Director**

920-683-4207 – [kaylabeckerdite@manitowoccountywi.gov](mailto:kaylabeckerdite@manitowoccountywi.gov)

September 13, 2023

RE: Request for Review of Hazard Mitigation Materials

**(Please forward to the Plan Commission or Council/Board)**

The Manitowoc County Emergency Management and the Bay-Lake Regional Planning Commission have been working with a local steering committee to update the Hazard Mitigation Plan for Manitowoc County and its municipalities.

The Federal Disaster Mitigation Act of 2000 established a **requirement for local governments** to prepare a hazard mitigation plan to be eligible for funding from FEMA through the Pre-Disaster Mitigation Grant Program, the Flood Mitigation Assistance Program, the Hazard Mitigation Grant Program, and disaster assistance.

The hazard mitigation planning process is being conducted at the county level. In order to be covered by the plan, cities and villages will need to provide input on the plan and adopt it once complete. The following materials have been enclosed to facilitate this participation in development of the plan and ensure that the plan contains accurate municipal information:

**EXERCISE #1:** Using the current inventory of the critical facilities found in your municipality, plus a list of the critical facility types/categories that are to be included, **review the information for accuracy and write in any edits.**

- Ensure that there is an address or lat/long coordinates provided for each critical facility that you add.
- Only include publicly owned facilities.

**EXERCISE #2:** Review and sign the sheet of county mitigation strategies.

**EXERCISE #3:** Identify at least one mitigation strategy specific to your municipality that the community would like to implement if grant funding were available.

Please return your information (with or without edits) **no later than October 6, 2023** to Izzy Fuller at [ifuller@baylakerpc.org](mailto:ifuller@baylakerpc.org) or 1861 Nimitz Drive, De Pere, WI 54115.

If you have any questions or need any additional information, please contact Izzy by email or phone at (920) 448-2820, Ext. 106. Thank you for your participation in reviewing the enclosed materials.

**PLEASE NOTE THAT THIS IS THE ONLY REQUEST THAT WILL BE MADE FOR THIS INFORMATION. IF CITY/VILLAGE MATERIALS ARE NOT RECEIVED, THE MUNICIPALITY WILL NOT BE A PART OF THE PLAN.** Not participating in this plan will require the development of a municipal plan in order to be eligible for FEMA funding – including disaster assistance.

Sincerely,

Kayla Beckerdite  
Emergency Services Director

Enclosures (2): Exercise Packet (Exercise #1 - Critical Facility Categories; Exercise #2 - County Mitigation Strategies; and Exercise #3 - Municipal Mitigation Strategy Form); Municipal Critical Facilities List

# Appendix C

## Critical Facilities by Municipality

NAME	ADDRESS	Source	Type	MCD	Floodplain
Kiel City Hall	621 6th St	County	Administrative Building	City of Kiel	No
B360015	STH 32-STH 57 / SHEBOYGAN RIVER	County/HSI 2019	Bridge	City of Kiel	Yes
B360022	ROCKVILLE RD / SHEBOYGAN RIVER	County/HSI 2019	Bridge	City of Kiel	Yes
B360132	STH 67 / SHEBOYGAN RIVER	County/HSI 2019	Bridge	City of Kiel	Yes
Emergency Siren	417 Paine St	County	Communication Facility	City of Kiel	No
Emergency Siren	102 Rockville Rd	County	Communication Facility	City of Kiel	No
Cell Tower	621 6th St	County 2019	Communication Facility	City of Kiel	No
Cell Tower	198 3rd St	County 2019	Communication Facility	City of Kiel	No
Kiel	Sheboygan River	DNR 2019	Dam	City of Kiel	Yes
Kiel Fire Department	99 E Fremont St	Hazus MH	Fire and Safety	City of Kiel	Yes
Kiel Police Department	619 Paine St	Hazus MH	Fire and Safety	City of Kiel	No
Small Steps Family Child Care	1025 1st St	County 2019	Licensed Childcare Facility	City of Kiel	No
Chatterbox Child Learning Center	65 Riverview Road	County 2019	Licensed Childcare Facility	City of Kiel	No
Kiel Cooperative Preschool	621 6th Street	County 2019	Licensed Childcare Facility	City of Kiel	No
Field of Dreams	505 Belitz Dr	County 2019	Licensed Healthcare Facility	City of Kiel	No
Affinity Medical	632 Fremont St	County 2019	Licensed Healthcare Facility	City of Kiel	No
Aurora Kiel Clinic	1001 Service Rd	County 2019	Licensed Healthcare Facility	City of Kiel	No
Ascension Medical Group Kiel	1160 Service Rd, Kiel	County 2019	Licensed Healthcare Facility	City of Kiel	No
Fieldstone Community	Lexington Ct/Concord Dr	City 2023	Manufactured Housing	City of Kiel - Calumet County	
Bleck Management	13835 Cedar Lake Rd	City 2023	Manufactured Housing	City of Kiel - Calumet County	No
Kiel Mart Mobile Home Park	STH 32/57	City 2023	Manufactured Housing	City of Kiel - Calumet County	
Power Facility	705 Washington Ave	ATC	Power Facility/Bulk Fuel Storage	City of Kiel	No
Divine Savior Catholic School	423 Fremont St	County 2019	School	City of Kiel	No
Kiel High	210 Raider Hts	County 2019	School	City of Kiel	No
Kiel Middle	502 Paine St	County 2019	School	City of Kiel	No
Zielanis Elementary	1010 Adams St	County 2019	School	City of Kiel	No
Trinity Lutheran School	387 Cemetery Rd	County 2019	School	City of Kiel	No
Kiel Elementary	416 Paine St	County 2019	School	City of Kiel	No
Sewage Lift Station	619 STH 67	City	Wastewater Treatment Facility	City of Kiel	Yes
Wastewater Treatment Facility	100 Rockville Rd	City	Wastewater Treatment Facility	City of Kiel	No
Sewage Lift Station	301 River Ter	City	Wastewater Treatment Facility	City of Kiel	No
Sewage Lift Station	access from Rockville Rd	City	Wastewater Treatment Facility	City of Kiel	No
Sewage Lift Station	Rockville Rd	City	Wastewater Treatment Facility	City of Kiel	No
Sewage Lift Station	402 8th St	City	Wastewater Treatment Facility	City of Kiel	No
Sewage Lift Station	1055 STH 57	City	Wastewater Treatment Facility	City of Kiel - Calumet County	No
Well #3, Water Storage Tower	1401 1st St	City	Water Supply	City of Kiel	No
Well #4	501 CTH XX	City	Water Supply	City of Kiel	No
Well #5	355 Clay St	City	Water Supply	City of Kiel	No
Water Storage Tower	198 3rd St	City	Water Supply	City of Kiel	No
Well #1	705 Washington St	City	Water Supply	City of Kiel	No
Manitowoc Public Works	2655 S 35th St	City	Administrative Building	City of Manitowoc	No
Manitowoc Public Utilities	1303 S 8th St	City	Administrative Building	City of Manitowoc	No
Manitowoc County Courthouse	1010 S 8th St	County	Administrative Building	City of Manitowoc	No
Manitowoc City Hall	900 Quay St	County	Administrative Building	City of Manitowoc	No
Manitowoc Public School District	2902 Lindbergh Dr	County	Administrative Building	City of Manitowoc	No
Manitowoc County Office Complex	4319 Expo Dr	County	Administrative Building	City of Manitowoc	No
Public Utilities	1520/1540 Dewey St	City	Administrative Building	City of Manitowoc	No
Manitowoc County Administration Office Building	1110 S 9th St	County	Administrative Building	City of Manitowoc	No
Manitowoc County Airport	1815 Freedom Way	County	Administrative Building	City of Manitowoc	No
Manitowoc County Communications & Technology Bldg.	1024 S 9th St	County	Administrative Building	City of Manitowoc	No
Manitowoc County Exps	4921 Expo Dr	County	Administrative Building	City of Manitowoc	No
Manitowoc County Heritage Center	1701 Michigan Ave	County	Administrative Building	City of Manitowoc	No
Manitowoc County Human Services Department	926 S 8th St	County	Administrative Building	City of Manitowoc	No
Manitowoc County Public Health Department	1028 S 9th St	County	Administrative Building	City of Manitowoc	No
Manitowoc County Sheriff's Office	1025 S 9th St	County	Administrative Building	City of Manitowoc	No
Manitowoc Senior Center	3330 Custer Street	City 2023	Administrative Building	City of Manitowoc	No
Msnioyev Public Library	707 Quay Street	City 2023	Administrative Building	City of Manitowoc	No
B360026	USH 151 / SILVER CREEK	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360035	CTH B / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360112	USH 10 WB-STH 42 SB-WALDO BLVD / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360124	BROADWAY ST / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B3601280001	USH 10 EB-10TH ST / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B3601280002	USH 10 EB-10TH ST / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360140	S 21ST ST NB / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360141	MARTIME DR / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360142	USH 10 WB-8TH ST / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360900	STH 42-WALDO BLVD / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
P360174	CTH LS / SILVER CREEK	County/HSI 2019	Bridge	City of Manitowoc	Yes
P360707	REED AVE / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
P360914	CTH Q / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	Yes
B360029	USH 10-STH 42-WALDO BLVD / WISCONSIN CENTRAL RR	County/HSI 2019	Bridge	City of Manitowoc	No
B360062	CTH CL-VIEBACH ST / I-43	County/HSI 2019	Bridge	City of Manitowoc	No
B360063	USH 151-STH 42 NB / I-43	County/HSI 2019	Bridge	City of Manitowoc	No
B360106	18TH ST / SPRING ST CONNECTOR	County/HSI 2019	Bridge	City of Manitowoc	No
B360116	WISCONSIN CENTRAL RR / DEWEY ST	County/HSI 2019	Bridge	City of Manitowoc	No
B360122	REVERE DR SB / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	No
B3601280003	USH 10 EB-10TH ST / MANITOWOC RIVER	County/HSI 2019	Bridge	City of Manitowoc	No
Building	820 S 21st St (Wisconsin Public Service Corp.)		Communication Facility	City of Manitowoc	No
Tower	1024 S 9th St	BLRPC	Communication Facility	City of Manitowoc	No
Tower	1615 Spring St	County	Communication Facility	City of Manitowoc	No
Tower	1815 Freedom Way	County	Communication Facility	City of Manitowoc	No
Tower	4400 Michigan Ave	County	Communication Facility	City of Manitowoc	No
Radio Tower	4009 Viebahn St (Seehafer Broadcasting)	County	Communication Facility	City of Manitowoc	No
Tower	1015 S Lakeview Dr	County	Communication Facility	City of Manitowoc	No
Building	3730 Mangin St (Seehafer Broadcasting)	County	Communication Facility	City of Manitowoc	No
Radio Tower	4009 Viebahn St (Seehafer Broadcasting)	County	Communication Facility	City of Manitowoc	No
Radio Tower	4009 Viebahn St (Seehafer Broadcasting)	County	Communication Facility	City of Manitowoc	No

NAME	ADDRESS	Source	Type	MCD	Floodplain
Radio Tower	4009 Viebahn St (Seehafer Broadcasting)	County	Communication Facility	City of Manitowoc	No
Emergency Siren	1002 E Cedar Ave	County	Communication Facility	City of Manitowoc	No
Emergency Siren	1605 N 8th St	County	Communication Facility	City of Manitowoc	No
Emergency Siren	26th St and Hamilton St	County	Communication Facility	City of Manitowoc	No
Emergency Siren	1115 Washington St	County	Communication Facility	City of Manitowoc	No
Emergency Siren	708 N Water St	County	Communication Facility	City of Manitowoc	No
Emergency Siren	4921 Expo Dr	County	Communication Facility	City of Manitowoc	No
Emergency Siren	N Rapids Rd & Menasha Ave	County	Communication Facility	City of Manitowoc	No
Emergency Siren	Fleetwood Dr	County	Communication Facility	City of Manitowoc	No
Emergency Siren	Harvest Cir & Broadway St	County	Communication Facility	City of Manitowoc	No
Emergency Siren	Silver Ridge Subdivision	City 2023	Communication Facility	City of Manitowoc	No
Cell Tower	4410 Custer St	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	2515 Viebahn St	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	1915 Mirro Dr	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	1915 Mirro Dr	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	1400 N 8th St	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	736 Revere Dr	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	3110 Viebahn St	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	2035 S 30th ST	County 2019	Communication Facility	City of Manitowoc	No
Cell Tower	204 N 8th St	County 2019	Communication Facility	City of Manitowoc	No
Tower	3730 Mangin St	County	Communication Facility	City of Manitowoc	No
Silver Creek Fire Department - Station 2	6510 Calumet Ave	BLRPC	Fire and Safety	City of Manitowoc	No
Manitowoc Sheriff's Department	1025 S 9th St	Hazus MH	Fire and Safety	City of Manitowoc	No
Manitowoc Police Department	910 Jay St	Hazus MH	Fire and Safety	City of Manitowoc	No
Manitowoc Fire Station 1	911 Franklin St	Hazus MH	Fire and Safety	City of Manitowoc	No
911/EOC	1024 S 9th St	County	Fire and Safety	City of Manitowoc	No
Manitowoc Fire Station 4	1125 Fleetwood St	County	Fire and Safety	City of Manitowoc	No
Manitowoc Fire Station 2	1410 N 8th St	County	Fire and Safety	City of Manitowoc	No
Manitowoc Fire Station 3	3820 Dewey St	County	Fire and Safety	City of Manitowoc	No
Lakeshore Child Care Center	3400 Division St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Manitowoc/Two Rivers YMCA Child Development Center	205 Maritime Dr	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Cathy's Day Care Center	1314 Manila St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Jesus' Lambs of Grace	2426 N Rapids Rd	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Kinderheit Haus Child Care	948 N 5th St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Rise and Shine Child Care	1335 S 20th St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Sue's Little Angels Day Care	912 N 12th St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Lulu's House Family Child Care	1609 Viebahn St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Manitowoc Two Rivers YMCA - Orion	2210 Woodland Dr	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Falling Star Child Care LLC	1501 N Rapids Road	County 2019	Licensed Childcare Facility	City of Manitowoc	No
The Peanut Gallery CC and Learning Center	2411 Wollmer Street	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Manitowoc/Two Rivers YMCA SACC - Franklin	800 S 35th Street	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Man-Tr YMCA - Madison	701 N 4th Street	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Manitowoc/Two Rivers YMCA - Riverview	4400 Michigan Avenue	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Redeemer Lutheran Christian Preschool	1712 Menasha Ave	County 2019	Licensed Childcare Facility	City of Manitowoc	No
CESA 7 Head Start - Manitowoc	4400 Michigan Avenue	County 2019	Licensed Childcare Facility	City of Manitowoc	No
CESA 7 Head Start	1130 S 9th Street	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Cooperative Nursery Center Preschool	501 8th Street	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Trinity Christian School 4-year-old Kindergarten	2201 S 42nd St	County 2019	Licensed Childcare Facility	City of Manitowoc	No
Vista Adult Daycare	2005 Johnston Dr	City 2023	Licensed Childcare Facility	City of Manitowoc	No
Azura Memory Care	3720 Menasha Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Shady Lane Nuring Care Center	1235 S 24th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Maritime Gardens Assisted Living	1945 Dewey St, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Manitowoc Healthcare Center	2021 S Alverno Rd	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Holy Family Memorial Medical Center/Froedert	2300 Western Ave	City 2023	Licensed Healthcare Facility	City of Manitowoc	No
River Woods Place	960 S Rapids Rd	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
The Bay at North Ridge Health and Rehabilitation	1445 N 7th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
River's Bend Health Services	950 S Rapids Rd	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Laurel Grove Assisted Living Center	1308 S 22nd St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Sacred Heart Court	1903 Division St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
The Artisan Manitowoc	1480 N 7th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Care Partners Manitowoc	1858 Mirro Dr	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Fieldcrest Manor	1510 S 30th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Hannah Home I	4025 Delta St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Hannah Home II	3407 Wildwood Dr	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Harbor View Assisted Living	2115 Cappaert Road	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
HIL Lighthouse	1301 N 24th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
HIL Whittail Court	4705 W Whittail Ct	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
HIL Wisconsin Home	1348 S 39th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Kindredhearts Manitowoc	5005 Vista Rd	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Marco Services Inc	1114 S 11th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
TLC Homes Oakwood	1220 S 8th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Point Creek Home	1722 New York Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Rainbow House	3100 Southbrook Ct	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Reifs Harmony House II	2303 Marshall Street	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Samaritan on 7th	622 North 7th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
TLC Homes Fleetwood	4438 Fleetwood Drive	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
The Villa	1600 S 18th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Whittail Estates II	910 River Bluff Dr	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
St Mary's Home for the Aged	1635 S 21st St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Holy Family Memorial Harbor Town	1650 S 41st St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Holy Family Lakeshore Pediatrics	4303 Michigan Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Bellin Health Manitowoc	3415 Custer St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
TLC Homes East Cedar	705 E Cedar Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Vista Care North 21st Street AFH	2127 Menasha Ave, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
TLC Homes Cappaert Road	2233 Cappaert Rd, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Hill The Winds	2408 Knuell St, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Vista Care Kimberly Circle AFH	3302 Kimberly Circle, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No

NAME	ADDRESS	Source	Type	MCD	Floodplain
TLC Homes Paul Road	2213 Paul Rd, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Vista Care Rock Street AFH	4020 Rock St, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Orthopedic Associates	501 N. 10th St, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Lakeshore Community Health Care	2719 Calumet Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Hil Wisconsin Home	1350 S 39th St	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Prevea Manitowoc Health Center	4810 Expo Dr	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Vista Care Expo Drive AFH	5053 Expo Dr, Manitowoc	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Tender Reflections of Manitowoc	2210 Dufek Dr	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Aurora Manitowoc Clinic	4100 Dewey Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Aurora Manitowoc Clinic	3509 Dewey Ave	County 2019	Licensed Healthcare Facility	City of Manitowoc	No
Trails End Park	2000 Johnson Dr	County 2019	Manufactured Housing	City of Manitowoc	No
Newport Village MHP	770 E Albert Dr	County 2019	Manufactured Housing	City of Manitowoc	No
Newport Village West	88 W Albert Dr	County 2019	Manufactured Housing	City of Manitowoc	No
Lakeland Manor	3910 Waldo Blvd	County 2019	Manufactured Housing	City of Manitowoc	No
University Village Heights	2350 S 23rd St	County 2019	Manufactured Housing	City of Manitowoc	No
Army Reserve	3215 S 10th St	BLRPC	Military Installation	City of Manitowoc	No
City of Manitowoc Gravel Pit	Gravel Pit Ln	County	Post-Disaster Recovery Site	City of Manitowoc	Yes
Power Facility	5740 W Guster St	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	1605 N 8th St	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	2015 Mirro Dr	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	Lakeview Dr	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	101 Revere Dr	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	712 N Rapids Rd	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	2039 S 30th St	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	701 Columbus St	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Power Facility	4200 Ellis St	ATC	Power Facility/Bulk Fuel Storage	City of Manitowoc	No
ANR	4707 Hessel Ct		Power Facility/Bulk Fuel Storage	City of Manitowoc	No
Franklin Elementary	800 S 35th St	County 2019	School	City of Manitowoc	No
Roncalli Catholic High	2000 Mirro Dr	County 2019	School	City of Manitowoc	No
Manitowoc Lutheran High	4045 Lancer Cir	County 2019	School	City of Manitowoc	No
First German Evangelical Lutheran	1025 S 8th St	County 2019	School	City of Manitowoc	No
Immanuel Evangelical Lutheran	916 Pine St	County 2019	School	City of Manitowoc	No
Jackson Elementary	1201 N 18th St	County 2019	School	City of Manitowoc	No
Jefferson Elementary	1415 Division St	County 2019	School	City of Manitowoc	No
Lincoln High	1433 S 8th St	County 2019	School	City of Manitowoc	No
Madison Elementary	701 N 4th St	County 2019	School	City of Manitowoc	No
Monroe Elementary	2502 S 14th St	County 2019	School	City of Manitowoc	No
Stangel Elementary	1002 E Cedar Ave	County 2019	School	City of Manitowoc	No
Washington Junior High	2101 Division St	County 2019	School	City of Manitowoc	No
Wilson Junior High	1201 N 11th St	County 2019	School	City of Manitowoc	No
Riverview Elementary	4400 Michigan Ave	County 2019	School	City of Manitowoc	No
Bethany Evangelical Lutheran	3209 Meadow Ln	County 2019	School	City of Manitowoc	No
Life Academy	2810 Wollmer St	County 2019	School	City of Manitowoc	No
Saint Francis of Assisi Middle	2109 Marshall St	County 2019	School	City of Manitowoc	No
UW Green Bay - Manitowoc Campus	705 Viebahn St	County 2019	School	City of Manitowoc	No
Manitowoc County Airport	1815 Freedom Way	Hazus MH	Transportation Facility	City of Manitowoc	No
Car Ferry Dock	900 S Lakeview Dr		Transportation Facility	City of Manitowoc	No
Manitowoc City Transit System	915 S 11th St	Hazus MH	Transportation Facility	City of Manitowoc	No
Sewage Lift Station	600 S 19th St	City	Wastewater Treatment Facility	City of Manitowoc	Yes
Sewage Lift Station	4001 Archer St	City	Wastewater Treatment Facility	City of Manitowoc	Yes
Manitowoc Wastewater Treatment	1015 S Lakeview Dr	Hazus MH	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	2511 Lakeside Blvd	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	3201 S 10th St	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	1396 Irving Cr	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	1800 E Horseshoe Dr	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	2329 Silveridge Dr	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	500 S 16th St	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	2319 S 14th St	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	5023 River Heights Dr	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	2300 Paul Rd	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	911 Lawton Ter	City	Wastewater Treatment Facility	City of Manitowoc	No
Sewage Lift Station	820 Maritime Dr	City	Wastewater Treatment Facility	City of Manitowoc	No
Water Storage Tower	5715 West Dr		Water Supply	City of Manitowoc	No
Water Supply Filter Treatment Plant	S Lakeview Dr		Water Supply	City of Manitowoc	No
Water Supply Filter Treatment Plant	701 Columbus St		Water Supply	City of Manitowoc	No
Water Supply Booster/Pumping Station	1600 S 39th St		Water Supply	City of Manitowoc	No
New York Ave Pump Station	1906 New York Ave		Water Supply	City of Manitowoc	No
Water Storage Tower	Reed Ave & N 8th St		Water Supply	City of Manitowoc	No
Collector Well C	3983 S 10th St		Water Supply	City of Manitowoc	No
B360117	STH 42-WASHINGTON ST / WEST TWIN RIVER	County/HSI 2019	Bridge	City of Two Rivers	Yes
B360136	CTH VV-45TH ST / EAST TWIN RIVER	County/HSI 2019	Bridge	City of Two Rivers	Yes
B360155	STH 42-22ND ST / EAST TWIN RIVER	County/HSI 2019	Bridge	City of Two Rivers	Yes
B360176	STH 310 MADISON ST / W TWIN RIVER	County/HSI 2019	Bridge	City of Two Rivers	Yes
B360189	17TH ST / E TWIN RIVER	County/HSI 2019	Bridge	City of Two Rivers	Yes
Paddlers Park (draft: East Twin River access)	1223 27th St	Manitowoc County Fire Assoc.	Fire and Safety	City of Two Rivers	Yes
Vet's Park & Marina (draft at boat ramp)	1818 18th St	Manitowoc County Fire Assoc.	Fire and Safety	City of Two Rivers	Yes
Sewage Lift Station	44th St	City	Wastewater Treatment Facility	City of Two Rivers	No
Two Rivers High	4519 Lincoln Ave	County 2019	School	City of Two Rivers	No
Aurora Medical Center	5000 Memorial Dr	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Atrium Post Acute Care of Two Rivers	1 Hamilton Dr	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Two Rivers Police Department	1717 E Park St	Hazus MH	Fire and Safety	City of Two Rivers	No
Two Rivers Fire Department	2122 Monroe St	Hazus MH	Fire and Safety	City of Two Rivers	No
Two Rivers Wastewater Treatment	1415 Lake St	Hazus MH	Wastewater Treatment Facility	City of Two Rivers	No
Koenig Elementary	1114 Lowell St	County 2019	School	City of Two Rivers	No
Clarke Middle	4608 Bellevue Pl	County 2019	School	City of Two Rivers	No
Magee Elementary	3502 Glenwood St	County 2019	School	City of Two Rivers	No
Sewage Lift Station	Lakeview Ave/Jessie St	City	Wastewater Treatment Facility	City of Two Rivers	No

NAME	ADDRESS	Source	Type	MCD	Floodplain
Sewage Lift Station	Gardner St	City	Wastewater Treatment Facility	City of Two Rivers	No
Sewage Lift Station	Columbus St	City	Wastewater Treatment Facility	City of Two Rivers	No
Water Tower	2612 12th St	City	Water Supply	City of Two Rivers	No
Building (Switch Station)	4412 Browns Dr (Lakefield Telephone Co. LLC)	City	Communication Facility	City of Two Rivers	No
Sewage Lift Station	Woodland Dr	City	Wastewater Treatment Facility	City of Two Rivers	No
Building (Switch Station)	1609 Adams St (GTE Telephone Operations)	City	Communication Facility	City of Two Rivers	No
Two Rivers Department Public Works	1415 Lake Street	City	Administrative Building	City of Two Rivers	No
Two Rivers Utility Shop & Office	1415 Lake Street	City	Administrative Building	City of Two Rivers	No
Lakeshore Substation	Memorial Dr & 12th St	City	Power Facility/Bulk Fuel Storage	City of Two Rivers	No
Water Supply Filter Treatment Plant	Memorial Dr	City	Water Supply	City of Two Rivers	No
500 kva Generator	Memorial Dr	City	Power Facility/Bulk Fuel Storage	City of Two Rivers	No
Two Rivers City Hall	1717 E Park St	City	Administrative Building	City of Two Rivers	No
Sewage Lift Station	Pierce St	City	Wastewater Treatment Facility	City of Two Rivers	No
Water Tower	2314 Picnic Hill Ln	City	Water Supply	City of Two Rivers	No
Sewage Lift Station	23rd St/Pine Tree Dr	City	Wastewater Treatment Facility	City of Two Rivers	No
US National Guard	2225 Sandy Bay Rd	City	Military Installation	City of Two Rivers	No
Aurora Two Rivers Clinic	2219 Garfield St	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Tower	2500 Garfield St	City	Communication Facility	City of Two Rivers	No
Cable TV Control Center	807 34th St (Charter Communications)	City	Communication Facility	City of Two Rivers	No
Sewage Lift Station	Pierce Ct	City	Wastewater Treatment Facility	City of Two Rivers	No
Sewage Lift Station	Blue Heron Dr	City	Wastewater Treatment Facility	City of Two Rivers	No
Sewage Lift Station	31st St	City	Wastewater Treatment Facility	City of Two Rivers	No
West River Substation	27th St & W River St	City	Power Facility/Bulk Fuel Storage	City of Two Rivers	No
Sewage Lift Station	W River St	City	Wastewater Treatment Facility	City of Two Rivers	No
Natural Gas Substation	1921 Columbus St	City	Power Facility/Bulk Fuel Storage	City of Two Rivers	No
Sub Station	2929 Hawthorne Ave	City	Power Facility/Bulk Fuel Storage	City of Two Rivers	No
Sewage Lift Station	Parkway Blvd	City	Wastewater Treatment Facility	City of Two Rivers	No
Sewage Lift Station	37th St	City	Wastewater Treatment Facility	City of Two Rivers	No
St. Johns Evangelical Lutheran	3607 45th St	County 2019	School	City of Two Rivers	No
Sewage Lift Station	CTH VV (45th St)	City	Wastewater Treatment Facility	City of Two Rivers	No
Holy Family Memorial Two Rivers Health Center	3310 45th St	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Meadow View Assisted Living	4606 Mishicot Rd	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Sewage Lift Station	Forest Hills Dr	City	Wastewater Treatment Facility	City of Two Rivers	No
Wisteria Haus Assisted Living	2741 45th St	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Sewage Lift Station	Riverhills Rd/Bellevue Pl	City	Wastewater Treatment Facility	City of Two Rivers	No
Sewage Lift Station	43rd St ?	City	Wastewater Treatment Facility	City of Two Rivers	No
Building (Switch Station)	2722 45th St (Lakefield Telephone Co. LLC)	City	Communication Facility	City of Two Rivers	No
US Coast Guard	13 East St	BLRPC	Military Installation	City of Two Rivers	No
Tiny Treasures Christian Child Care	1029 33rd St	County 2019	Licensed Childcare Facility	City of Two Rivers	No
A Child's Place Day Care	2611 11th St	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Atrium Senior Living of Two Rivers at Northland	2500 Garfield St	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Emergency Siren	3900 block of Bellevue Pl	County	Communication Facility	City of Two Rivers	No
Emergency Siren	29th St & Adams St	County	Communication Facility	City of Two Rivers	No
Emergency Siren	2600 Block of 13th St	County	Communication Facility	City of Two Rivers	No
Communication Tower for Utility & Public Works	1415 Lake Street	City	Communication Facility	City of Two Rivers	No
Building (Switch Station)	2205 Forest Ave (Lakefield Telephone Co. LLC)	County	Communication Facility	City of Two Rivers	No
Water Reservoir	3900 Bellevue Pl	TAC	Water Supply	City of Two Rivers	No
Good Shepherd Lutheran Preschool 4k	3234 Michicot Road	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Follow Your Heart Learning Center LLC	2132 32nd Street	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Creative Learning Child Enrichment Center	4404 Bellevue Pl	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Creative Kids Club	3502 Glenwood Street	County 2019	Licensed Childcare Facility	City of Two Rivers	No
CESA 7 Head Start - Two Rivers	3234 Mishicot Road	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Children's House Montessori of Manitowoc	4020 Memorial Drive	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Learning Center	1630 28th Street	County 2019	Licensed Childcare Facility	City of Two Rivers	No
St Peter the Fisherman Preschool	2203 12th Street	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Two Rivers Nursery School	1218 Madison Street	County 2019	Licensed Childcare Facility	City of Two Rivers	No
Holy Family Lakefront Campus	800 Lakefront Way, Two Rivers	County 2019	Licensed Healthcare Facility	City of Two Rivers	No
Lighthouse Learning Acad	4521 Lincoln Ave	County 2019	School	City of Two Rivers	No
C360013	STH 42 / Drainage Way	County/HSI 2019	Bridge	City of Two Rivers	No
C361016	STH 42 / Drainage way	County/HSI 2019	Bridge	City of Two Rivers	No
Cell Tower	2701 18th St	County 2019	Communication Facility	City of Two Rivers	No
Cell Tower	2318 Picnic Hill Ln	County 2019	Communication Facility	City of Two Rivers	No
Cell Tower	800 Columbus St	County 2019	Communication Facility	City of Two Rivers	No
Eggers Industries Pond (dry hydrant)	1 Eggers Dr	Manitowoc County Fire Assoc.	Fire and Safety	City of Two Rivers	No
Clarks Mill	Manitowoc River	DNR 2019	Dam	Town of Cato	Yes
B360020	N CTH S / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Cato	Yes
B360131	S CTH J / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Cato	Yes
P360919	LEIST RD / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Cato	Yes
Cato Town Hall	14004 Upper Falls Rd	Town	Administrative Building	Town of Cato	No
Wastewater Treatment Facility	Meier Ln	Town	Wastewater Treatment Facility	Town of Cato	No
Gravel Pit (Sauer)	1534 Highway H Rd	County	Post-Disaster Recovery Site	Town of Cato	No
Gravel Pit (Graymont Western Lime)	16377 Lime Kiln Rd	County	Post-Disaster Recovery Site	Town of Cato	No
Saint Mary/Saint Michael School	19 S CTH J	County 2019	School	Town of Cato	No
B360034	N CTH J / BRANCH OF BRANCH RIVER	County/HSI 2019	Bridge	Town of Cato	No
C360037	USH 10 / TRIB. OF BRANCH RIVER	County/HSI 2019	Bridge	Town of Cato	No
C360039	GRIMMS RD / TRIB. TO BRANCH RIVER	County/HSI 2019	Bridge	Town of Cato	No
P360154	OLD WOODEN BRIDGE RD / SOO LINE	County/HSI 2019	Bridge	Town of Cato	No
Cell Tower	4004 N CTH J	County 2019	Communication Facility	Town of Cato	No
Cell Tower	13615 McGuire Rd	County 2019	Communication Facility	Town of Cato	No
Cell Tower	15709 Limestone Rd	County 2019	Communication Facility	Town of Cato	No
Cell Tower	13003 USH 151	County 2019	Communication Facility	Town of Cato	No
Cell Tower	16919 USH 10	County 2019	Communication Facility	Town of Cato	No
Clarks Mills (dry hydrant; Manitowoc River access)	13845 Old Mill Ln	Manitowoc County Fire Assoc.	Fire and Safety	Town of Cato	No
Seven Lakes (dry hydrant)	3108 N CTH S	Manitowoc County Fire Assoc.	Fire and Safety	Town of Cato	No
B360036	I-43 / FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360047	I-43 SB / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360110	I-43 SB / CENTER ROAD	County/HSI 2019	Bridge	Town of Centerville	Yes

NAME	ADDRESS	Source	Type	MCD	Floodplain
B360111	I-43 NB / CENTER ROAD	County/HSI 2019	Bridge	Town of Centerville	Yes
B360119	WESTVIEW RD / FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360129	CTH F / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360168	POINT CREEK RD / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360174	CTH LS-LAKESHORE RD / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360221	CENTER RD / NORTH BRANCH OF CENTERVILLE CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
B360230	I-43 NB / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
C360017	I-43 / CENTERVILLE CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
P360182	CENTER RD / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
P360184	CENTERVILLE RD / FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
P360185	CENTERVILLE RD / POINT CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
P360187	CTH LS-LAKESHORE RD / FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	Yes
Natural Gas Substation	Point Creek Rd	Town	Power Facility/Bulk Fuel Storage	Town of Centerville	No
Manitowoc County Highway Shop	10510 I-43	TAC	Administrative Building	Town of Centerville	No
B360013	DAIRYLAND DR / FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	No
B360016	DAIRYLAND DR / SOUTH BRANCH OF CENTERVILLE CREEK	County/HSI 2019	Bridge	Town of Centerville	No
B360037	CLEVELAND RD / I-43	County/HSI 2019	Bridge	Town of Centerville	No
B360039	CTH XX / I-43	County/HSI 2019	Bridge	Town of Centerville	No
B360042	I-43 SB / WESTVIEW RD	County/HSI 2019	Bridge	Town of Centerville	No
B360043	FISCHER CREEK RD / I-43	County/HSI 2019	Bridge	Town of Centerville	No
B360045	CTH X / I-43	County/HSI 2019	Bridge	Town of Centerville	No
B360046	POINT CREEK RD / I-43	County/HSI 2019	Bridge	Town of Centerville	No
B360048	I-43 NB / CTH F	County/HSI 2019	Bridge	Town of Centerville	No
B360061	I-43 NB / WESTVIEW RD	County/HSI 2019	Bridge	Town of Centerville	No
C360002	I-43 / TRIB. TO FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	No
C360019	I-43 / Unnamed Creek	County/HSI 2019	Bridge	Town of Centerville	No
C360021	I-43 / SOUTH BRANCH OF CENTERVILLE CREEK	County/HSI 2019	Bridge	Town of Centerville	No
P360935	CTH X / FISCHER CREEK	County/HSI 2019	Bridge	Town of Centerville	No
Cell Tower	16317 Dairyland Dr	County 2019	Communication Facility	Town of Centerville	No
Cell Tower	West View Rd	County 2019	Communication Facility	Town of Centerville	No
B360032	ROSECRANS RD / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
B360076	CTH R / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
B360097	I-43 SB / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
B360098	I-43 NB / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
B360183	CTH T / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
B360216	PLEASANT RD / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
C360040	KOCIAN RD / TRIB. TO BRANCH RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
P360097	ZANDER RD / TRIB. OF DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
P360100	ZANDER RD / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
P360104	HEROLD RD / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	Yes
Fels Pond (dry hydrant)	CTH Z	Town	Fire and Safety	Town of Cooperstown	No
Cooperstown Maintenance Shop	11626 CTH Z	Town	Administrative Building	Town of Cooperstown	No
Cooperstown Town Hall	11626 CTH Z	Town	Administrative Building	Town of Cooperstown	No
Gravel Pit (Cherney Construction)	15201 CTH NN	County	Post-Disaster Recovery Site	Town of Cooperstown	No
Gravel Pit (JPC Investments)	14511 CTH Z	County	Post-Disaster Recovery Site	Town of Cooperstown	No
Gravel Pit (Triple P)	CTH NN	County	Post-Disaster Recovery Site	Town of Cooperstown	No
Gravel Pit (MCC)	12599 Hidden Vally Rd	County	Post-Disaster Recovery Site	Town of Cooperstown	No
Gravel Pit (Kolarik)	Cooperstown Rd	County	Post-Disaster Recovery Site	Town of Cooperstown	No
B360083	HIDDEN VALLEY RD / I-43	County/HSI 2019	Bridge	Town of Cooperstown	No
B360089	ZANDER RD / I-43	County/HSI 2019	Bridge	Town of Cooperstown	No
B360090	GREENSTREET RD / I-43	County/HSI 2019	Bridge	Town of Cooperstown	No
B360091	I-43 SB / DEVILS RIVER STATE TRAIL	County/HSI 2019	Bridge	Town of Cooperstown	No
B360092	I-43 NB / DEVILS RIVER STATE TRAIL	County/HSI 2019	Bridge	Town of Cooperstown	No
B360093	I-43 SB / STH 147	County/HSI 2019	Bridge	Town of Cooperstown	No
B360094	I-43 NB / STH 147	County/HSI 2019	Bridge	Town of Cooperstown	No
B360095	I-43 SB / SCHLEY RD	County/HSI 2019	Bridge	Town of Cooperstown	No
B360096	I-43 NB / SCHLEY RD	County/HSI 2019	Bridge	Town of Cooperstown	No
B360099	I-43 NB / CTH T	County/HSI 2019	Bridge	Town of Cooperstown	No
B360100	I-43 SB / CTH T	County/HSI 2019	Bridge	Town of Cooperstown	No
B360101	I-43 SB / DEVILS RIVER STATE TRAIL	County/HSI 2019	Bridge	Town of Cooperstown	No
B360102	I-43 NB / DEVILS RIVER STATE TRAIL	County/HSI 2019	Bridge	Town of Cooperstown	No
B360103	I-43 SB / ROSECRANS RD	County/HSI 2019	Bridge	Town of Cooperstown	No
B360104	I-43 NB / ROSECRANS RD	County/HSI 2019	Bridge	Town of Cooperstown	No
B360130	ZANDER RD / DEVILS RIVER STATE TRAIL	County/HSI 2019	Bridge	Town of Cooperstown	No
B360148	COOPERSTOWN RD / TRIBUTARY OF THE DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	No
C360028	I-43 / KRIWANEK CREEK	County/HSI 2019	Bridge	Town of Cooperstown	No
C360090	I-43 / Unnamed Creek	County/HSI 2019	Bridge	Town of Cooperstown	No
P360094	COOPERSTOWN RD / TRIBUTARY OF THE DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	No
P360105	KVITEK RD / DEVILS RIVER	County/HSI 2019	Bridge	Town of Cooperstown	No
P360903	DEVILS RIVER STATE TRAIL / HOSTAK RD	County/HSI 2019	Bridge	Town of Cooperstown	No
Cell Tower	10167 Schley Rd	County 2019	Communication Facility	Town of Cooperstown	No
Cell Tower	8304 Pautz Rd	County 2019	Communication Facility	Town of Cooperstown	No
B360075	STH 67 / CEDAR CREEK	County/HSI 2019	Bridge	Town of Eaton	Yes
B360163	QUARRY RD / MANITOWOC R	County/HSI 2019	Bridge	Town of Eaton	Yes
B360210	USH 151 / CEDAR CREEK	County/HSI 2019	Bridge	Town of Eaton	Yes
B360211	USH 151 / TRIB. OF MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Eaton	Yes
Gravel Pit (Biese)	Glen Flora Rd	County	Post-Disaster Recovery Site	Town of Eaton	No
Gravel Pit (Broker)	STH 67	County	Post-Disaster Recovery Site	Town of Eaton	No
Gravel Pit (Litz)	Glen Flora Rd	County	Post-Disaster Recovery Site	Town of Eaton	No
Co HWY Dept Gravel Pit (Olm)	Hickory Hills Rd	County	Post-Disaster Recovery Site	Town of Eaton	No
Co HWY Dept Gravel Pit (Sukowaty)	USH 151	County	Post-Disaster Recovery Site	Town of Eaton	No
C360784	USH 151 / UNNAMED CREEK	County/HSI 2019	Bridge	Town of Eaton	No
C360785	USH 151 / TRIB. TO MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Eaton	No
Cell Tower	22520 Groh Rd	County 2019	Communication Facility	Town of Eaton	No
B360118	GRIMMS RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
B360139	W HILLCREST RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
B360145	REIFS MILLS RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes



NAME	ADDRESS	Source	Type	MCD	Floodplain
B360166	CTH T / BRANCH R	County/HSI 2019	Bridge	Town of Franklin	Yes
B360177	CTH J / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
B360214	HILLCREST RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
B360220	HILLCREST RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
P360118	TAUS RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
P360119	E TAUS RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
P360904	CTH K / BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
P360915	MANCAL RD / TRIB. OF BRANCH RIVER	County/HSI 2019	Bridge	Town of Franklin	Yes
Power Facility	11103 CTH K	ATC	Power Facility/Bulk Fuel Storage	Town of Franklin	No
Franklin Town Hall	7524 CTH J	BLRPC	Administrative Building	Town of Franklin	No
Menchalville Fire Department	15331 County Rd K	TAC	Fire and Safety	Town of Franklin	No
Cell Tower	9388 Menchalville Rd	County 2019	Communication Facility	Town of Franklin	No
Cell Tower	16818 Long Rd	County 2019	Communication Facility	Town of Franklin	No
Cell Tower	Hempton Lake Rd	County 2019	Communication Facility	Town of Franklin	No
Kalies Pond Dry Hydrant	7206 E Taus Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Franklin	No
Schenian Dry Hydrant (pond)	10455 Menchalville Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Franklin	No
Schenian Dry Hydrant	10455 Menchalville Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Franklin	No
Homes Rd / East Twin River (from bridge)	503 Holmes Rd	Town	Fire and Safety	Town of Gibson	Yes
B360001	OLD Y RD / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360133	HOLMES RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360135	STH 147 W / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360152	W TAPAWINGO RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360153	NACHTWEY RD / NESHOTA RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360161	W ZANDER RD / NESHOTA RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360162	MELNIK RD / W TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
B360915	CTH B / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
P360082	W ZANDER RD / JAMBO CREEK	County/HSI 2019	Bridge	Town of Gibson	Yes
P360085	TWIN BRIDGE RD / JAMBO CREEK	County/HSI 2019	Bridge	Town of Gibson	Yes
P360086	HILLVIEW RD / E TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
P360087	ROCKLEDGE RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Gibson	Yes
P360090	JAMBO CREEK RD / JAMBO CREEK	County/HSI 2019	Bridge	Town of Gibson	Yes
Gibson Town Hall	14920 CTH Q	Town	Administrative Building	Town of Gibson	No
Emergency Siren	CTH Q	County	Communication Facility	Town of Gibson	No
Co HWY Dept Gravel Pit	12415 CTH Q	County	Post-Disaster Recovery Site	Town of Gibson	No
Co HWY Dept Gravel Pit	3198 STH 147 W	County	Post-Disaster Recovery Site	Town of Gibson	No
Co HWY Dept Gravel Pit	2941 STH 147 W	County	Post-Disaster Recovery Site	Town of Gibson	No
Co HWY Dept Gravel Pit	CTH Q	County	Post-Disaster Recovery Site	Town of Gibson	No
Harpt Lake Boat Landing (dry hydrant)	6001 North Lake Rd	Town	Fire and Safety	Town of Gibson	No
Genex	Avery Rd	Town	Power Facility/Bulk Fuel Storage	Town of Gibson	No
Schaus (LP tank fill station)	3200 STH 147 W	Town	Power Facility/Bulk Fuel Storage	Town of Gibson	No
Lakeside Mennonite School	722 Hillview Road	County 2019	School	Town of Gibson	No
B360030	CTH R / DEVILS RIVER STATE TRAIL	County/HSI 2019	Bridge	Town of Gibson	No
B360159	CTH BB / BLACK CREEK	County/HSI 2019	Bridge	Town of Gibson	No
Cell Tower	7318 Old Y Rd	County 2019	Communication Facility	Town of Gibson	No
Reifs Mills (dry hydrant / Branch River access)	6801 CTH T	Manitowoc County Fire Assoc.	Fire and Safety	Town of Kossuth	Yes
CTH Y / West Twin River (dry hydrant)	4339 CTH Y	Manitowoc County Fire Assoc.	Fire and Safety	Town of Kossuth	Yes
B360021	CTH V / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Kossuth	Yes
B360125	DANMAR RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Kossuth	Yes
B360186	MEADOW LN / FRANCIS CREEK	County/HSI 2019	Bridge	Town of Kossuth	Yes
P360121	CTH Y / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Kossuth	Yes
P360123	DEVILS RIVER STATE TRAIL / MEADOW LN	County/HSI 2019	Bridge	Town of Kossuth	Yes
P360125	PARKWAY RD / FRANCIS CREEK	County/HSI 2019	Bridge	Town of Kossuth	Yes
P360126	FRANCIS CREEK RD / FRANCIS CREEK	County/HSI 2019	Bridge	Town of Kossuth	Yes
Wastewater Treatment Facility	CTH V	Village	Wastewater Treatment Facility	Town of Kossuth	No
Building	Berringer Rd (parcel address is 7117 CTH R)	County	Communication Facility	Town of Kossuth	No
Rockwood Fire Department	5401 CTH R	County	Fire and Safety	Town of Kossuth	No
Manitowoc County Hwy Shop (floating strainer)	3500 STH 310	Manitowoc County Fire Assoc.	Fire and Safety	Town of Kossuth	No
Kappelman's Pond (dry hydrant)	2405 Berringer Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Kossuth	No
Wastewater Treatment Facility	Tower Ave	Village	Wastewater Treatment Facility	Town of Kossuth	No
Water Storage Tower	CTH T	Village	Water Supply	Town of Kossuth	No
Cable TV/DSL/Cell Tower	CTH T	Village	Communication Facility	Town of Kossuth	No
Dry Hydrant	Forest Home Dr	Village	Fire and Safety	Town of Kossuth	No
Manitowoc County Highway Shop	3500 STH 310	County	Administrative Building	Town of Kossuth	No
Kids Crayon Club	7219 CTH T	County 2019	Licensed Childcare Facility	Town of Kossuth	No
Co HWY Dept Gravel Pit	CTH Q	County	Post-Disaster Recovery Site	Town of Kossuth	No
Co HWY Dept Gravel Pit	3304 STH 310	County	Post-Disaster Recovery Site	Town of Kossuth	No
Co HWY Dept Gravel Pit	CTH Q	County	Post-Disaster Recovery Site	Town of Kossuth	No
Co HWY Dept Gravel Pit	3500 STH 310	County	Post-Disaster Recovery Site	Town of Kossuth	No
Co HWY Dept Gravel Pit	Parkway Rd	County	Post-Disaster Recovery Site	Town of Kossuth	No
Co HWY Dept Gravel Pit	Reifs Mills Rd	County	Post-Disaster Recovery Site	Town of Kossuth	No
Co HWY Dept Gravel Pit	4005 Rockwood Rd	County	Post-Disaster Recovery Site	Town of Kossuth	No
B360077	I-43 SB / USH 10 WB-STH 310	County/HSI 2019	Bridge	Town of Kossuth	No
B360079	ROCKWOOD RD / I-43	County/HSI 2019	Bridge	Town of Kossuth	No
B360080	REIFS MILL RD / I-43	County/HSI 2019	Bridge	Town of Kossuth	No
B360081	CTH V-HILLCREST RD / I-43	County/HSI 2019	Bridge	Town of Kossuth	No
B360084	POLIFKA RD / I-43	County/HSI 2019	Bridge	Town of Kossuth	No
B360086	I-43 SB / CTH K	County/HSI 2019	Bridge	Town of Kossuth	No
B360087	I-43 NB / CTH K	County/HSI 2019	Bridge	Town of Kossuth	No
B360088	FISCHERVILLE RD / I-43	County/HSI 2019	Bridge	Town of Kossuth	No
B360317	SHOTO RD / BRANCH OF WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Kossuth	No
C360025	I-43 / Unnamed Creek	County/HSI 2019	Bridge	Town of Kossuth	No
P360068	OLD Q RD / TRIB. TO WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Kossuth	No
P360127	FRANCIS CREEK RD / TRIB. TO FRANCIS CREEK	County/HSI 2019	Bridge	Town of Kossuth	No
P360920	CTH Q / TRIB. OF WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Kossuth	No
Cell Tower	11000 Thunder Rd	County 2019	Communication Facility	Town of Kossuth	No
Cell Tower	11315 CTH T	County 2019	Communication Facility	Town of Kossuth	No
Cell Tower	9635 Hillside Ln	County 2019	Communication Facility	Town of Kossuth	No

NAME	ADDRESS	Source	Type	MCD	Floodplain
Cell Tower	7500 Village Dr	County 2019	Communication Facility	Town of Kossuth	No
Cell Tower	7500 Village Dr	County 2019	Communication Facility	Town of Kossuth	No
B360160	CTH A / TRIB. OF MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Liberty	Yes
P360165	TOMKINS RD / TRIB. OF MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Liberty	Yes
Power Facility	5109 CTH A	ATC	Power Facility/Bulk Fuel Storage	Town of Liberty	No
Liberty Town Hall	13812 English Lake Rd	Village	Administrative Building	Town of Liberty	No
Co HWY Dept Gravel Pit	7416 CTH J	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	16833 Christel Rd	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	Robley Rd	County	Post-Disaster Recovery Site	Town of Liberty	No
Cnty Hwy Dept Gravel Pit	CTH F	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	English Lake Rd	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	15322 CTH C	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	13701 English Lake Rd	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	English Lake Rd	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	CTH C	County	Post-Disaster Recovery Site	Town of Liberty	No
Co HWY Dept Gravel Pit	CTH C	County	Post-Disaster Recovery Site	Town of Liberty	No
B360170	PINE RIVER RD / POINT CREEK	County/HSI 2019	Bridge	Town of Liberty	No
Cell Tower	5102 Marken Rd	County 2019	Communication Facility	Town of Liberty	No
Cell Tower	15562 CTH C	County 2019	Communication Facility	Town of Liberty	No
Pigeon Lake Public Access (dry hydrant)	8964 Pigeon Lake Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Liberty	No
B360165	SILVER CREEK RD / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc	Yes
B360182	VALLEY DR / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc	Yes
P360176	SILVER CREEK RD / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc	Yes
P360177	S 26TH ST / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc	Yes
P360912	CTH Q / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc	Yes
P360913	CTH Q / LITTLE MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc	Yes
P360917	S 19TH ST / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc	Yes
Natural Gas Substation	3104 Nagle Ave		Power Facility/Bulk Fuel Storage	Town of Manitowoc	No
Water Supply Booster/Pumping Station	Viebahn St		Water Supply	Town of Manitowoc	No
Silver Creek Fire Department - Station 1	1822 Silver Creek Rd	County	Fire and Safety	Town of Manitowoc	No
Manitowoc Town Hall	1822 Silver Creek Rd	BLRPC	Administrative Building	Town of Manitowoc	No
Emergency Siren	21st St & Viebahn St	County	Communication Facility	Town of Manitowoc	No
Co HWY Dept Gravel Pit	S 15th St	County	Post-Disaster Recovery Site	Town of Manitowoc	No
B360461	STH 42 / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc	No
B360006	N RAPIDS RD / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360072	I-43 SB-USH 10 EB / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360073	I-43 NB-USH 10 WB / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360105	USH 151 / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360113	USH 10 EB-STH 42 NB-WALDO BLVD / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360164	VILLAGE DRIVE / BRANCH RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360169	MICHIGAN AVE / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
B360193	USH 10 / BRANCH R	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360022	MILL RD (PEDESTRIAN BRIDGE) / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360144	N UNION RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360145	CTH CS-W CUSTER ST / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360146	N UNION RD / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360147	BRANCH RIVER RD / BRANCH RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360148	S ALVERNO RD / SILVER CREEK	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
P360151	HIGHWAY H RD / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Manitowoc Rapids	Yes
Branch River Fill Site (float)	7901 Union Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Manitowoc Rapids	Yes
Natural Gas Substation	Middle Ct		Power Facility/Bulk Fuel Storage	Town of Manitowoc Rapids	No
Manitowoc Rapids Town Hall	8624 CTH JJ	BLRPC	Administrative Building	Town of Manitowoc Rapids	No
Water Tower	3145 Basswood Rd	City	Water Supply	Town of Manitowoc Rapids	No
B360065	I-43 SB-STH 42 SB / CTH CS-W CUSTER ST	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360066	I-43 NB-STH 42 NB / CTH CS-W CUSTER ST	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360067	I-43 SB-STH 42 SB / Wisconsin Central RR	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360068	I-43 NB-STH 42 NB / Wisconsin Central RR	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360069	MIDDLE RD / I-43-STH 42	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360070	I-43 SB / USH 10 EB-STH 42 SB	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360071	I-43 NB / USH 10 EB-STH 42 SB	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360078	I-43 NB / USH 10 WB-STH 310	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360085	CTH P-HOMESTEAD RD / I-43-USH 10	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360114	USH 10 WB-STH 42 SB-WALDO BLVD / WHITEWATER DR	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
B360115	USH 10 EB-STH 42 NB-WALDO BLVD / WHITEWATER DR	County/HSI 2019	Bridge	Town of Manitowoc Rapids	No
Cell Tower	9526 Hilltop Rd	County 2019	Communication Facility	Town of Manitowoc Rapids	No
Cell Tower	6492 Homestead Rd	County 2019	Communication Facility	Town of Manitowoc Rapids	No
Cell Tower	5712 CTH JJ	County 2019	Communication Facility	Town of Manitowoc Rapids	No
Cell Tower	2033 Highway H RD	County 2019	Communication Facility	Town of Manitowoc Rapids	No
Cell Tower	9630 Old 151 Rd	County 2019	Communication Facility	Town of Manitowoc Rapids	No
Manitowoc County Material Recycling Facility	3000 Basswood Rd	County	Administrative Building	Town of Manitowoc Rapids	No
Branch Fire Dept	8124 Village Dr	County	Fire and Safety	Town of Manitowoc Rapids	No
Matthias Pond	1540 N Union Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Manitowoc Rapids	No
B360144	USH 10 / EAST BRANCH OF MUD CREEK	County/HSI 2019	Bridge	Town of Maple Grove	Yes
B360237	HICKORY HILLS RD / MUD CREEK	County/HSI 2019	Bridge	Town of Maple Grove	Yes
P360108	TAUS ROAD / MUD CREEK	County/HSI 2019	Bridge	Town of Maple Grove	Yes
P360109	REIFS MILLS RD / MUD CREEK	County/HSI 2019	Bridge	Town of Maple Grove	Yes
P360925	CTH K / MUD CREEK	County/HSI 2019	Bridge	Town of Maple Grove	Yes
Maple Grove Town Hall	8432 N CTH W	County	Administrative Building	Town of Maple Grove	No
Co HWY Dept Gravel Pit	Schaefer Rd	County	Post-Disaster Recovery Site	Town of Maple Grove	No
Co HWY Dept Gravel Pit	Tamarack Rd	County	Post-Disaster Recovery Site	Town of Maple Grove	No
Co HWY Dept Gravel Pit	9803 Long Lake Rd	County	Post-Disaster Recovery Site	Town of Maple Grove	No
C360058	USH 10 / Unnamed Creek	County/HSI 2019	Bridge	Town of Maple Grove	No
Cell Tower	Oakwood Rd / USH 10	County 2019	Communication Facility	Town of Maple Grove	No
Cell Tower	20400 Manitowoc Rd	County 2019	Communication Facility	Town of Maple Grove	No
Marquette Pond (dry hydrant)	19420 Marquette Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Maple Grove	No
B360134	STH 42 / MEEME RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
B360167	E SPRING VALLEY RD / MEEME RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes

NAME	ADDRESS	Source	Type	MCD	Floodplain
B360185	S CLEVELAND RD / MEMEE RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
B360188	PIONEER RD / MEEME RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
B360191	S CLEVELAND RD / PIGEON RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
B360192	S CLEVELAND RD / PIGEON RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
B360218	MINERAL SPRINGS RD / PIGEON RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
B360910	CTH XX / MEEME RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
P360066	CTH M / PIGEON RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
P360193	W WASHINGTON RD / MEEME RIVER	County/HSI 2019	Bridge	Town of Meeme	Yes
Meeme	Meeme River	County 2019	Dam	Town of Meeme	Yes
Meeme Town Hall	15318 CTH X	BLRPC	Administrative Building	Town of Meeme	No
Co HWY Dept Gravel Pit	15233 CTH X	County	Post-Disaster Recovery Site	Town of Meeme	No
Co HWY Dept Gravel Pit	Mineral Springs Rd	County	Post-Disaster Recovery Site	Town of Meeme	No
Meeme Leads Charter School	12121 XX	County 2019	School	Town of Meeme	No
B360180	STH 42 / TRIB. TO MEEME CR	County/HSI 2019	Bridge	Town of Meeme	No
P360191	WILLMAS RD / MEEME RIVER	County/HSI 2019	Bridge	Town of Meeme	No
Cell Tower	15318 CTH X	County 2019	Communication Facility	Town of Meeme	No
Cell Tower	11932 CTH X	County 2019	Communication Facility	Town of Meeme	No
Cell Tower	13103 Moraine Rd	County 2019	Communication Facility	Town of Meeme	No
Cell Tower	15007 CTH XX	County 2019	Communication Facility	Town of Meeme	No
Horseshoe Lake Boat Landing (dry hydrant)	13716 Northwood Ct	Manitowoc County Fire Assoc.	Fire and Safety	Town of Meeme	No
Osman Cistern 2 (underground tank)	11380 Point Creek Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Meeme	No
Osman Cistern 1	10521 STH 42	Manitowoc County Fire Assoc.	Fire and Safety	Town of Meeme	No
School Hill Cistern (Marken Rd and Lincoln Ave)	12228 Marden Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Meeme	No
B360028	STURM RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	Yes
B360109	STH 147 / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	Yes
B360127	E ZANDER RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	Yes
B360511	TISCH MILLS RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	Yes
P360069	CTH Q / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	Yes
E Zander Rd / East Twin River (river access)	522 E Zander Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Mishicot	Yes
Tower	11811 Saxonburg Rd	Town	Communication Facility	Town of Mishicot	No
Co HWY Dept Gravel Pit	E Tapawingo Rd	County	Post-Disaster Recovery Site	Town of Mishicot	No
C360014	STH 147-S MAIN ST / TRIB. TO EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	No
C360015	STH 147 / Unnamed Creek	County/HSI 2019	Bridge	Town of Mishicot	No
P360130	CHURCH ST / TRIB. TO EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	No
P360924	E CTH V / TRIB. OF EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Mishicot	No
Cell Tower	9940 STH 147	County 2019	Communication Facility	Town of Mishicot	No
Cell Tower	2786 Sturm Rd	County 2019	Communication Facility	Town of Mishicot	No
B360033	CTH LS / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360038	GASS LAKE RD / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360050	I-43 SB / CTH C	County/HSI 2019	Bridge	Town of Newton	Yes
B360051	I-43 NB / CTH C	County/HSI 2019	Bridge	Town of Newton	Yes
B360054	CTH C / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360055	I-43 / CALVIN CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360060	I-43 / SILVER CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360064	I-43 SB Off Ramp to CTH C / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360146	CTH CR / SILVER CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
B360187	CTH CR / CALVIN CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
P360168	HECKER RD / SILVER CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
P360910	S UNION RD / SILVER CREEK	County/HSI 2019	Bridge	Town of Newton	Yes
Carstens Lake Public Access (lake access)	6205 Carstens Lake Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Newton	Yes
English Lake Public Access (lake access)	9348 S Lake Dr	Manitowoc County Fire Assoc.	Fire and Safety	Town of Newton	Yes
Building	7520 English Lake Rd (Lakefield Telephone Co. LLC)	County	Communication Facility	Town of Newton	No
Building	Newton Rd (Lakefield Telephone Co. LLC)	County	Communication Facility	Town of Newton	No
Newton Fire Department	6528 Carstens Lake Rd	Hazus MH	Fire and Safety	Town of Newton	No
Saint John's Evangelical Lutheran School	7531A English Lake Rd	County 2019	School	Town of Newton	No
Newton Town Hall	6532 Carstens Lake Rd	Town	Administrative Building	Town of Newton	No
Co HWY Dept Gravel Pit	3107 Fricke Dr	County	Post-Disaster Recovery Site	Town of Newton	No
Co HWY Dept Gravel Pit	5202 Silver Creek Rd	County	Post-Disaster Recovery Site	Town of Newton	No
Hil Newport Home	3609 Hecker Rd	County 2019	Licensed Healthcare Facility	Town of Newton	No
B360040	I-43 SB / CTH F	County/HSI 2019	Bridge	Town of Newton	No
B360041	I-43 NB / NEWTON RD	County/HSI 2019	Bridge	Town of Newton	No
B360052	I-43 SB / CARSTENS LAKE RD	County/HSI 2019	Bridge	Town of Newton	No
B360053	I-43 NB / CARSTENS LAKE RD	County/HSI 2019	Bridge	Town of Newton	No
B360056	I-43 SB / CLOVER RD	County/HSI 2019	Bridge	Town of Newton	No
B360057	I-43 NB / CLOVER RD	County/HSI 2019	Bridge	Town of Newton	No
B360058	I-43 / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	No
B360059	SILVER CREEK RD / I-43	County/HSI 2019	Bridge	Town of Newton	No
B360179	NEWTON RD / POINT CREEK	County/HSI 2019	Bridge	Town of Newton	No
B360181	STH 42 / TRIB. TO POINT CREEK	County/HSI 2019	Bridge	Town of Newton	No
B360229	S UNION RD / POINT CREEK	County/HSI 2019	Bridge	Town of Newton	No
B360231	I-43 SB / NEWTON RD	County/HSI 2019	Bridge	Town of Newton	No
C360020	I-43 / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	No
C360035	STH 42 / POINT CREEK	County/HSI 2019	Bridge	Town of Newton	No
C361024	STH 42 / DRAINAGE WAY	County/HSI 2019	Bridge	Town of Newton	No
P360171	CTH U / PINE CREEK	County/HSI 2019	Bridge	Town of Newton	No
Cell Tower	5405 CTH CR	County 2019	Communication Facility	Town of Newton	No
Cell Tower	4014 Carstens Lake Rd	County 2019	Communication Facility	Town of Newton	No
Cell Tower	9542 CTH C	County 2019	Communication Facility	Town of Newton	No
Cell Tower	9407 Newton Rd	County 2019	Communication Facility	Town of Newton	No
Radio Tower	7914 CTH F (Seehafer Broadcasting)	County 2019	Communication Facility	Town of Newton	No
Cell Tower	9431 Center Rd	County 2019	Communication Facility	Town of Newton	No
Cell Tower	5622 CTH F	County 2019	Communication Facility	Town of Newton	No
Cell Tower	3636 CTH CR	County 2019	Communication Facility	Town of Newton	No
Grotgut Pond (pond on farm)	7407 Newton Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Newton	No
Natural Ovens Tank	4300 CTH CR	Manitowoc County Fire Assoc.	Fire and Safety	Town of Newton	No
Newton Fire Station (50,000 gallon tank)	6528 Carstens Lake Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Newton	No
Stocks Pond	6007 Gass Lake Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Newton	No


NAME	ADDRESS	Source	Type	MCD	Floodplain
Collins Marsh	Mud Creek	DNR 2019	Dam	Town of Rockland	Yes
Water Pumping Station	20708 Main St		Wastewater Treatment Facility	Town of Rockland	Yes
B360019	CTH JJ / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Rockland	Yes
B360147	S CTH W / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Rockland	Yes
B360157	COLLINS RD / MANITOWOC RIVER	County/HSI 2019	Bridge	Town of Rockland	Yes
B360173	CTH JJ / MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	Yes
P360158	W GOODWIN RD / MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	Yes
Collins / Manitowoc River (dry hydrant)	1184 Collins Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Rockland	Yes
Hilltop Dry Hydrant (at Mud Creek)	19586 Hilltop Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Rockland	Yes
Natural Gas Substation	3932 CTH W	Town	Power Facility/Bulk Fuel Storage	Town of Rockland	No
Rockland Town Hall	615 Milwaukee St	County	Administrative Building	Town of Rockland	No
Collins Fire Department	607 Milwaukee St	Town	Fire and Safety	Town of Rockland	No
Water Supply Filter Treatment Plant	20023 CTH JJ		Water Supply	Town of Rockland	No
Co HWY Dept Gravel Pit	Quarry Rd	County	Post-Disaster Recovery Site	Town of Rockland	No
Collins Marsh Sub-impound	Trib. of Mud Creek	DNR 2019	Dam	Town of Rockland	No
B360138	CTH W / BRANCH OF MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	No
B360158	BOXWOOD RD / BRANCH OF MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	No
C360034	CTH W / NORTH BRANCH OF MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	No
P360156	MANITOWOC RD / TRIB. OF MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	No
P360160	HILLTOP RD / MUD CREEK	County/HSI 2019	Bridge	Town of Rockland	No
P360927	BOOT LAKE RD / LONG LAKE TRIB	County/HSI 2019	Bridge	Town of Rockland	No
West Shore Retreat	3301 Long Lake Rd	County 2019	Manufactured Housing	Town of Rockland	No
Bullhead Lake Public Access (dry hydrant)	507 Bullhead Lake Ln	Manitowoc County Fire Assoc.	Fire and Safety	Town of Rockland	No
Millhome	Sheboygan River	DNR 2019	Dam	Town of Schleswig	Yes
Rockville	Sheboygan River	DNR 2019	Dam	Town of Schleswig	Yes
B360011	STH 32 NB-STH 57 NB / SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	Yes
B360023	ROCKVILLE RD / SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	Yes
B360025	LAX CHAPEL RD / TRIBUTARY OF SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	Yes
B360137	STH 32 SB-STH 57 SB / SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	Yes
B360172	STEINTHAL RD / SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	Yes
Schleswig Town Hall	21935 Rockville Rd	Town	Administrative Building	Town of Schleswig	No
Tower	23233 Mueller Rd	County	Communication Facility	Town of Schleswig	No
Co HWY Dept Gravel Pit	16800 Little Elkhart Lake Rd	County	Post-Disaster Recovery Site	Town of Schleswig	No
Co HWY Dept Gravel Pit	14601 Lax Shapel Rd	County	Post-Disaster Recovery Site	Town of Schleswig	No
Co HWY Dept Gravel Pit	16318 Little Elkhart Lake Rd	County	Post-Disaster Recovery Site	Town of Schleswig	No
Co HWY Dept Gravel Pit	Lax Shapel Rd	County	Post-Disaster Recovery Site	Town of Schleswig	No
Pathways to a Better Life 2 LLC	13127 Lax Chapel Rd, Kiel	County 2019	Licensed Healthcare Facility	Town of Schleswig	No
Pathways to a Better Life 1 LLC	13111 Lax Chapel Rd, Kiel	County 2019	Licensed Healthcare Facility	Town of Schleswig	No
B360224	CTH X / TRIB. TO SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	No
C360046	STH 32 / MILLHOME CREEK	County/HSI 2019	Bridge	Town of Schleswig	No
P360199	POINT CREEK RD / TRIB TO SHEBOYGAN RIVER	County/HSI 2019	Bridge	Town of Schleswig	No
Cell Tower	13426 Meggers Rd	County 2019	Communication Facility	Town of Schleswig	No
Cell Tower	14000 Louis Corners Rd	County 2019	Communication Facility	Town of Schleswig	No
Cell Tower	23233 MUELLER RD	County 2019	Communication Facility	Town of Schleswig	No
Cedar Lake Boat Landing (lake access; draft)	18584 Split Rail Ln	Manitowoc County Fire Assoc.	Fire and Safety	Town of Schleswig	No
Rokilio Pump (pump on north side of Cedar Lake)	14004 Rokilio Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Schleswig	No
Wilke Lake Boat Landing (draft; lake access)	10901 Wilke Lake Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Schleswig	No
Power Facility	6610 Nuclear Rd	ATC	Power Facility/Bulk Fuel Storage	Town of Two Creeks	No
Power Facility	4802 CTH V	ATC	Power Facility/Bulk Fuel Storage	Town of Two Creeks	No
Point Beach Nuclear Plant	6610 Nuclear Rd	Hazus MH	Power Facility/Bulk Fuel Storage	Town of Two Creeks	No
Two Creeks Town Hall	5128 E Tapawingo Rd	County	Administrative Building	Town of Two Creeks	No
Two Creeks Fire Department	5128 E Tapawingo Rd	Town	Fire and Safety	Town of Two Creeks	No
Emergency Siren	STH 42	County	Communication Facility	Town of Two Creeks	No
Emergency Siren	Nuclear Rd & Twin Elder Rd	County	Communication Facility	Town of Two Creeks	No
Waste Storage	E Tapawingo Rd	Town	Power Facility/Bulk Fuel Storage	Town of Two Creeks	No
Wotachek Pond	18804 STH 42	Town	Fire and Safety	Town of Two Creeks	No
Sprang Pond	16704 Lakeshore Dr	Town	Fire and Safety	Town of Two Creeks	No
B360178	STH 42 / S TWO CREEKS	County/HSI 2019	Bridge	Town of Two Creeks	No
B360227	STH 42 / UNNAMED TRIB. TO LAKE MICHIGAN	County/HSI 2019	Bridge	Town of Two Creeks	No
C360006	STH 42 / Unnamed Creek	County/HSI 2019	Bridge	Town of Two Creeks	No
C360007	STH 42 / Unnamed Creek	County/HSI 2019	Bridge	Town of Two Creeks	No
C360008	STH 42 / Unnamed Creek	County/HSI 2019	Bridge	Town of Two Creeks	No
C360010	STH 42 / Drainage Way	County/HSI 2019	Bridge	Town of Two Creeks	No
C360011	STH 42 / Drainage Way	County/HSI 2019	Bridge	Town of Two Creeks	No
P360942	LAKESHORE RD / TRIB. TO LAKE MICHIGAN	County/HSI 2019	Bridge	Town of Two Creeks	No
Cell Tower	6010 Nuclear Rd	County 2019	Communication Facility	Town of Two Creeks	No
Cell Tower	5036 Lehmann Rd	County 2019	Communication Facility	Town of Two Creeks	No
Cell Tower	4802 CTH V	County 2019	Communication Facility	Town of Two Creeks	No
Cell Tower	6610 Nuclear Rd	County 2019	Communication Facility	Town of Two Creeks	No
Pt Peach NPP Hydrant (hydrant on north end)	6610 Nuclear Rd	Manitowoc County Fire Assoc.	Fire and Safety	Town of Two Creeks	No
Neshoto - South	West Twin River	DNR 2019	Dam	Town of Two Rivers	Yes
B360120	CTH O / MOLASH CREEK	County/HSI 2019	Bridge	Town of Two Rivers	Yes
B360154	CTH B / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Two Rivers	Yes
P360134	E HILLCREST RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Two Rivers	Yes
P360135	MAPLEWOOD RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Town of Two Rivers	Yes
Neshoto - North	West Twin River	DNR 2019	Dam	Town of Two Rivers	Yes
Shoto Boat Landing (draft; West Twin River access)	921 CTH VV	Manitowoc County Fire Assoc.	Fire and Safety	Town of Two Rivers	Yes
Power Facility	1618 E STH 310	ATC	Power Facility/Bulk Fuel Storage	Town of Two Rivers	No
Two Rivers Town Hall	6525 CTH B	BLRPC	Administrative Building	Town of Two Rivers	No
Co HWY Dept Gravel Pit	CTH VV	County	Post-Disaster Recovery Site	Town of Two Rivers	No
Co HWY Dept Gravel Pit	6800 Manitou Dr	County	Post-Disaster Recovery Site	Town of Two Rivers	No
B360143	CTH B / WEST TWIN RIVER	County/HSI 2019	Bridge	Town of Two Rivers	No
C360005	STH 42 / MOLASH CREEK	County/HSI 2019	Bridge	Town of Two Rivers	No
P360911	LAKESHORE RD / RABE FOREST CREEK	County/HSI 2019	Bridge	Town of Two Rivers	No
Cell Tower	6220 STH 42	County 2019	Communication Facility	Town of Two Rivers	No
Cell Tower	6200 STH 42	County 2019	Communication Facility	Town of Two Rivers	No
Cell Tower	3607 Maplewood Rd	County 2019	Communication Facility	Town of Two Rivers	No

NAME	ADDRESS	Source	Type	MCD	Floodplain
Cell Tower	5103 CTH B	County 2019	Communication Facility	Town of Two Rivers	No
Cell Tower	6229 Greenfield Ln	County 2019	Communication Facility	Town of Two Rivers	No
Town of Two Rivers Fire Department	6525 CTH B	County	Fire and Safety	Town of Two Rivers	No
Town of Two Rivers Fire Dept (equip. storage)	7915 STH 42	County	Fire and Safety	Town of Two Rivers	No
Sewage Lift Station	1162 N Westview St	Village 2024	Wastewater Treatment Facility	Village of Cleveland	Yes
Village of Cleveland Public Works Garage	1151 Lakeshore Dr	County	Administrative Building	Village of Cleveland	Yes
Sewage Lift Station at Hika Park	1151 Lakeshore Dr	County	Wastewater Treatment Facility	Village of Cleveland	Yes
B360012	DAIRYLAND DR / NORTH BRANCH OF CENTERVILLE CREEK	County/HSI 2019	Bridge	Village of Cleveland	Yes
B360151	N WESTVIEW ST / NORTH BRANCH OF CENTERVILLE CREEK	County/HSI 2019	Bridge	Village of Cleveland	Yes
B360913	CTH XX-E WASHINGTON AVE / S BR. CENTERVILLE CREEK	County/HSI 2019	Bridge	Village of Cleveland	Yes
B360248	Linden St/South Branch, Centerville Crk	Village 2024	Bridge	Village of Cleveland	Yes
P360700	CTH LS-LAKESHORE DR / CENTERVILLE CREEK	County/HSI 2019	Bridge	Village of Cleveland	Yes
Cleveland Wastewater Treatment Facility	245 Whitetail Ln	BLRPC	Wastewater Treatment Facility	Village of Cleveland	No
Wind Turbines at Lakeshore Technical College	1290 North Ave	Village 2024	Power Facility/Bulk Fuel Storage	Village of Cleveland	No
Wisconsin Electric Substation	W Washington Ave/N Maple St	Village 2024	Power Facility/Bulk Fuel Storage	Village of Cleveland	No
Bonde's Quik Mart	1517/1519 North Ave	Village 2024	Power Facility/Bulk Fuel Storage	Village of Cleveland	No
Cleveland Village Hall	1150 W Washington Ave	BLRPC	Administrative Building	Village of Cleveland	No
Sewage Lift Station	1151 Lakeshore Dr	Hazus MH	Wastewater Treatment Facility	Village of Cleveland	No
Lakeshore Technical College Emergency Operations Center	1290 North Ave	Village 2024	Fire and Safety	Village of Cleveland	No
Lakeshore Technical College	1290 North Ave	County 2019	School	Village of Cleveland	No
Cleveland VA Clinic	1205 North Ave	County 2019	Licensed Healthcare Facility	Village of Cleveland	No
Cleveland Heights Mobile Home Park	Dairyland Dr/North Ave	Village 2024	Mobile Home Park	Village of Cleveland	No
Cleveland Fire Department	1274 W Washington Ave	Village	Fire and Safety	Village of Cleveland	No
Water Tower	819 Polk Ln	County 2019	Water Supply	Village of Cleveland	No
Cleveland Police Department	1150 W Washington Ave	Village	Fire and Safety	Village of Cleveland	No
Well #1	1245 Park Ln	Village	Water Supply	Village of Cleveland	No
Well #2	1299 Franklin Dr	Village	Water Supply	Village of Cleveland	No
Emergency Siren near Cleveland Fire Department	Dairyland Dr/W Washington Ave (Lat 45.914, Long -87.755)	County	Communication Facility	Village of Cleveland	No
Emergency Siren at Cleveland Elementary School	411 E Washington Ave	County	Communication Facility	Village of Cleveland	No
Lakeshore Tech College Child Care	1290 North Avenue	County 2019	Licensed Childcare Facility	Village of Cleveland	No
Cleveland Elementary School	411 E Washington Ave	County 2019	School	Village of Cleveland	No
Manitowoc Co Communication Facility at Water Tower	824 Polk Ln	Village 2024	Communication Facility	Village of Cleveland	No
TDS Telecom (Eastcoast Telecom)	1140 W Washington Ave	Village 2024	Communication Facility	Village of Cleveland	No
Cell Tower at Lakeshore Technical College	1290 North Ave	County 2019	Communication Facility	Village of Cleveland	No
B360082	I-43 / FRANCIS CREEK	County/HSI 2019	Bridge	Village of Francis Creek	Yes
B360121	CTH R / N PACKER DR / FRANCIS CREEK	County/HSI 2019	Bridge	Village of Francis Creek	Yes
Francis Creek Fire Department	310 Norwood Dr	Village	Fire and Safety	Village of Francis Creek	No
Francis Creek Village Hall	200 Norwood Dr	Village	Administrative Building	Village of Francis Creek	No
Kossuth Town Hall	129 S Packer Dr	County	Administrative Building	Village of Francis Creek	No
Francis Creek Ctgo Pond (dry hydrant)	333 Semi Dr	Village	Fire and Safety	Village of Francis Creek	No
K-Ville Mobile Home Park	444 Pleasant Ln	County 2019	Manufactured Housing	Village of Kellnersville	No
Emergency Siren	1214 Main St	County	Communication Facility	Village of Kellnersville	No
Kellnersville Fire Department and First Responders	807 Main St	Village	Fire and Safety	Village of Kellnersville	No
Pump House	Zeman Rd	Village 2023	Water Supply	Village of Kellnersville	No
Water Treatment Facility	14701 Pleasant Rd	Town	Wastewater Treatment Facility	Village of Maribel	No
Water Storage Tower	10416 E Belmar Ave	Village	Water Supply	Village of Maribel	No
Maribel Fire Department	15127 N Maribel Rd	Village	Fire and Safety	Village of Maribel	No
Maribel Village Hall	14905 Mulberry St	Village 2023	Administrative Building	Village of Maribel	No
St. John's Lutheran School	14323 S Maribel Rd	County 2019	School	Village of Maribel	No
Cell Tower	10416 E Belmar Rd	County 2019	Communication Facility	Village of Maribel	No
Mishicot Village Hall	511 E Main St	BLRPC	Administrative Building	Village of Mishicot	No
Mishicot Town Hall	710 N State St	BLRPC	Administrative Building	Village of Mishicot	No
Manitowoc County Highway Shop	740 N State St	Village 2023	Administrative Building	Village of Mishicot	No
Utility Support Building	1418 S Main St	Village	Administrative Building	Village of Mishicot	No
B360123	STH 147-S MAIN ST / EAST TWIN RIVER	County/HSI 2019	Bridge	Village of Mishicot	Yes
B360318	CTH B-S STATE ST / EAST TWIN RIVER	County/HSI 2019	Bridge	Village of Mishicot	Yes
P360133	STEINERS CORNERS RD / EAST TWIN RIVER	County/HSI 2019	Bridge	Village of Mishicot	Yes
C360026	STH 147-S MAIN ST / JOHNSON CREEK	County/HSI 2019	Bridge	Village of Mishicot	No
Emergency Siren	Salvage Rd & S Rockway St	County	Communication Facility	Village of Mishicot	Yes
Communications Building	250 S Main St	Village 2023	Communication Facility	Village of Mishicot	No
Cell Tower	221 S Rockway St	County 2019	Communication Facility	Village of Mishicot	No
Cell Tower	425 E Samz Rd	County 2019	Communication Facility	Village of Mishicot	No
Cell Tower	419 Buchanan St	County 2019	Communication Facility	Village of Mishicot	No
Mishicot	East Twin River	DNR 2019	Dam	Village of Mishicot	Yes
Mishicot Fire Department/Ambulance Service	214 S Main St	Village	Fire and Safety	Village of Mishicot	Yes
Mishicot Police Department	511 E Main St	BLRPC	Fire and Safety	Village of Mishicot	No
Fox Hills Pond (dry hydrant)	898 W Samz Rd	Village	Fire and Safety	Village of Mishicot	No
Forever Friends Family Child Care	824 Randolph St	County 2019	Licensed Childcare Facility	Village of Mishicot	No
Chatterbox Kids Campus	510 Woodlawn Dr	County 2019	Licensed Childcare Facility	Village of Mishicot	No
St Peter's Lutheran Tiny Treasures Preschool	325 Randolph St	County 2019	Licensed Childcare Facility	Village of Mishicot	No
Happy Hearts Childcare	440 Elizabeth Street	County 2019	Licensed Childcare Facility	Village of Mishicot	No
Aurora Mishicot Clinic	175 S State St	County 2019	Licensed Healthcare Facility	Village of Mishicot	No
Mishicot High	660 Washington St	County 2019	School	Village of Mishicot	No
Mishicot Middle	660 Washington St	County 2019	School	Village of Mishicot	No
Schultz Elementary	510 Woodlawn Dr	County 2019	School	Village of Mishicot	No
Sewage Lift Station 2	676 E Church St	Village	Wastewater Treatment Facility	Village of Mishicot	No
Sewage Lift Station 3	400 Washington St	Village	Wastewater Treatment Facility	Village of Mishicot	No
Sewage Lift Station 4	E Samz Rd/S State St	Village	Wastewater Treatment Facility	Village of Mishicot	No
Sewage Lift Station 5	139 W Church St	Village	Wastewater Treatment Facility	Village of Mishicot	No
Sewage Lift Station 6	Riverwood Dr/Riverwood Ct	Village	Wastewater Treatment Facility	Village of Mishicot	No
Sewage Lift Station 1	Laduron Dr	Village	Wastewater Treatment Facility	Village of Mishicot	No
Water Storage Tower	425 E Samz Rd	Village	Water Supply	Village of Mishicot	No
Water Storage Tower	Randolph St & N Rockway St	Village	Water Supply	Village of Mishicot	No
Water Supply Well #2	1310 S Main St	Village	Water Supply	Village of Mishicot	No
Water Supply Well #1	309 Washington St	Village	Water Supply	Village of Mishicot	No
B360126	MILL ST / MUD CREEK	County/HSI 2019	Bridge	Village of Reedsville	Yes
B360213	MANITOWOC ST / MUD CREEK	County/HSI 2019	Bridge	Village of Reedsville	Yes

NAME	ADDRESS	Source	Type	MCD	Floodplain
B360217	N 4TH ST / MUD CREEK	County/HSI 2019	Bridge	Village of Reedsville	Yes
B360892	USH 10-MAIN ST / MUD CREEK	County/HSI 2019	Bridge	Village of Reedsville	Yes
SS John & James Lutheran School	223 Manitowoc St	County 2019	School	Village of Reedsville	No
Reedsville Elementary	350 S Park St	County 2019	School	Village of Reedsville	No
Reedsville High	340 Manitowoc St	County 2019	School	Village of Reedsville	No
Reedsville Middle	350 S Park St	County 2019	School	Village of Reedsville	No
Wastewater Treatment Facility	Mud Creek Rd	Village	Wastewater Treatment Facility	Village of Reedsville	No
Cable Housing	Industrial Park Dr	Village	Communication Facility	Village of Reedsville	No
Reedsville Fire Department	100 Industrial Park Dr	Village	Fire and Safety	Village of Reedsville	No
Water Supply Well	Manitowoc St		Water Supply	Village of Reedsville	No
Water Storage Tower	111 Industrial Park Dr		Water Supply	Village of Reedsville	No
Aurora Reedsville Clinic	106 Mill St	County 2019	Licensed Healthcare Facility	Village of Reedsville	No
Manitowoc County Highway Shop	212 Menasha St	Village	Administrative Building	Village of Reedsville	No
Reedsville Police Department	217 Menasha St	County	Fire and Safety	Village of Reedsville	No
Reedsville Village Hall	217 Menasha St	County	Administrative Building	Village of Reedsville	No
Building (Switch Station)	502 Madison St (GTE Telephone Operations)	Village	Communication Facility	Village of Reedsville	No
Meadowbrook Court	Meadowbrook Ct	County 2019	Manufactured Housing	Village of Reedsville	No
Well #5	Deerview Dr	Village	Water Supply	Village of Reedsville	No
Emergency Siren	520 Manitowoc St	County	Communication Facility	Village of Reedsville	No
Saint Francis of Assisi Elementary	223 Manitowoc St	County 2019	School	Village of Reedsville	No
Cell Tower	111 Industrial Park Dr	County 2019	Communication Facility	Village of Reedsville	No
Village St Nazianz	608 N 1st Ave	BLRPC	Wastewater Treatment Facility	Village of St. Nazianz	No
St Nazianz Fire Station	202 N 4th Ave	Hazus MH	Fire and Safety	Village of St. Nazianz	No
Eaton Town Hall	316 W Main St	Town	Administrative Building	Village of St. Nazianz	No
St Nazianz Village Shop	110 Colonial Dr	Village	Administrative Building	Village of St. Nazianz	No
Water Utility Well	106 Colonial Dr	Village	Water Supply	Village of St. Nazianz	No
Water Utility Well	600 S 4th Ave	Village	Water Supply	Village of St. Nazianz	No
St Nazianz Village Hall	228 W Main St	County	Administrative Building	Village of St. Nazianz	No
Manitowoc County Highway Shop	318 W Main St	County	Administrative Building	Village of St. Nazianz	No
Emergency Siren	202 N 4th Ave	County	Communication Facility	Village of St. Nazianz	No
Emergency Siren	212 Church St	County	Communication Facility	Village of St. Nazianz	No
Voigt's Maple Terrace Mobile Home Court	400 E Main St	County 2019	Manufactured Housing	Village of St. Nazianz	No
Valders Police Department	207 S Liberty St	Hazus MH	Fire and Safety	Village of Valders	No
Valders Fire Department	103 Eisenhower St	Hazus MH	Fire and Safety	Village of Valders	No
Village of Valders	340 N Adams St	Hazus MH	Wastewater Treatment Facility	Village of Valders	No
Valders Elementary	331 W Wilson St	County 2019	School	Village of Valders	No
Valders High	201 W Wilson St	County 2019	School	Village of Valders	No
Valders Middle	138 Jefferson St	County 2019	School	Village of Valders	No
Natural Gas Substation	108 Brennan Rd		Power Facility/Bulk Fuel Storage	Village of Valders	No
Nordic Lands	141 Jackson St	County 2019	Manufactured Housing	Village of Valders	No
Water Storage Tower	250 N Calumet Dr	Village	Water Supply	Village of Valders	No
Valders Village Hall	207 S Liberty St	County	Administrative Building	Village of Valders	No
Water Well 1	207 S Liberty St	Village	Water Supply	Village of Valders	No
Water Well 2	314 S Adams St	Village	Water Supply	Village of Valders	No
Country Visions Coop	511 S Calumet Dr	Village	Power Facility/Bulk Fuel Storage	Village of Valders	No
Wee Care - Jodi's Day Care	124 Jefferson St	County 2019	Licensed Childcare Facility	Village of Valders	No
Emergency Siren	207 S Liberty St	County	Communication Facility	Village of Valders	No
Co HWY Dept Gravel Pit	Quarry Ln	County	Post-Disaster Recovery Site	Village of Valders	No
Chatterbox Kids Campus - Valders	331 Wilson Street	County 2019	Licensed Childcare Facility	Village of Valders	No
Building Blocks Day Care Center and Preschool	315 S Adams Street	County 2019	Licensed Childcare Facility	Village of Valders	No
Magic Ladder Nursery School	255 Roosevelt Street	County 2019	Licensed Childcare Facility	Village of Valders	No
Aurora Valders Clinic	106 Wilson St, Valders	County 2019	Licensed Healthcare Facility	Village of Valders	No
Cell Tower	250 N Calumet Dr	County 2019	Communication Facility	Village of Valders	No
Whitelaw Fire Department	330 E Menasha Ave	Village	Fire and Safety	Village of Whitelaw	No
Water Storage Tower	338 E Menasha Ave		Water Supply	Village of Whitelaw	No
Water Supply Booster/Pumping Station	338 E Menasha Ave		Water Supply	Village of Whitelaw	No
Whitelaw Village Hall	147 W Menasha Ave	BLRPC	Administrative Building	Village of Whitelaw	No
Wastewater Treatment Facility	312 N Hickory St	BLRPC	Wastewater Treatment Facility	Village of Whitelaw	No
Precious Memories Daycare LLC	132 W Menasha Avenue	County 2019	Licensed Childcare Facility	Village of Whitelaw	No
West Lift Station with Generator	CTH R/N Packer Drive and Norwood Drive	Village	Wastewater Treatment Facility	Village of Francis Creek	
East Lift Station with Generator	923 Forest Home Drive	Village	Wastewater Treatment Facility	Village of Francis Creek	
Water Tower	Cty. Rd. T	Village 2023	Water Supply	Village of Kellnersville	
Wastewater Treatment Plant	100 Tower Ave	Village 2023	Wastewater Treatment Facility	Village of Kellnersville	
VFW	314 W Main St	Village 2023	Communication Facility	Village of Mishicot	
Wastewater Treatment Facility	4024 Rockwood Road	Town 2023	Wastewater Treatment Facility	Town of Kossuth	
Cell Tower	6111 Apple Blossom Ln	Town 2023	Communication Facility	Town of Kossuth	

# Appendix D

## Public Meeting Notice and Sign-In Sheets



**Manitowoc County Emergency Services**  
 1024 South 9<sup>th</sup> Street - Manitowoc, WI 54220  
**Director Rhonda Green**  
 920-683-4207 - [rhondagreen@manitowoccountywi.gov](mailto:rhondagreen@manitowoccountywi.gov)

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Public Notice  
 Manitowoc County Hazard Mitigation Plan Ready for Public Review  
 Notice of Public Advisory

Manitowoc County Emergency management, response, and planning personnel from the private and public sectors have been working together as a steering committee to update the Manitowoc County Hazard Mitigation Plan. The plan was originally developed in 2007 under funding from the Federal Emergency Management Agency (FEMA). This will be the fourth update to the plan.

Development of the plan update is being led by the County Emergency Management department with the Bay-Lake Regional Planning Commission facilitating the process and writing the plan under the direction of the steering committee. The steering committee is made up of personnel from county departments including county planning and zoning, law enforcement, health department, highway, and forestry. The steering committee also includes representatives from electric utilities, county board, and others.


Hazard mitigation planning involves developing a set of actions designed to reduce or eliminate long-term risk to people and property from hazards and their effects. The rising costs associated with hazard recovery activities have led a much greater emphasis being placed on dealing with hazards before they occur through hazard mitigation planning. Hazard mitigation planning is the only phase of emergency management planning specifically dedicated to breaking the cycle of damage, reconstruction, and repeated damage.

With this plan, the County is able to identify the actions steps it needs to take in order to minimize risk and damage to people and property from natural hazards. Additionally, the County maintains its qualification to apply for FEMA funding to undertake identified projects that will minimize future risks.

A physical copy of the plan will be available for review at a public informational open house held on **June 20, 2024**, from **2:00 p.m. – 4:00 p.m.** at the **Manitowoc County Emergency Operations Center (EOC) 1024 S 9th Street, Manitowoc, WI 54220**.

The draft plan can be viewed online at: <https://baylakerpc.org/ManitowocHMP>

If you have any questions, please contact Rhonda Green with Manitowoc County Emergency Management at 920 683-4207 or Brandon Robinson with the Bay-Lake Regional Planning Commission at 920-448-2820, Ext. 105

  
 Rhonda Green  
 Manitowoc County  
 Emergency Services Director

### COMMUNITY ENGAGEMENT





### Manitowoc County Hazard Mitigation Plan 2025-2030

**What is a Hazard Mitigation Plan?**  
 Hazard mitigation planning forms the foundation for a community's long-term strategy to reduce disaster losses and break the cycle of disaster damage, reconstruction, and repeated damage in the next disaster. State, County, and Tribal governments are required to develop a hazard mitigation plan as a condition of receiving certain types of hazard mitigation disaster assistance, emergency and non-emergency.

**How can the community get involved?**  
 A steering committee formed by the county has worked with the Bay-Lake Regional Planning Commission during the last eight months to help guide decisions of the plan update. The upcoming public open houses are venues to gather public and stakeholder input and feedback as the planning process nears its endpoint.

Please visit the project website for additional information: [baylakerpc.org/ManitowocHMP](https://baylakerpc.org/ManitowocHMP)

**Upcoming Open Houses** Note: the same material will be presented at each of the meetings.

<b>29</b> MAY	Kiel Community Center 510 3rd Street   Kiel, WI	2:00 PM - 4:00 PM
<b>12</b> JUNE	Mishicot Village Hall 511 E Main Street   Mishicot, WI	2:00 PM - 4:00 PM
<b>20</b> JUNE	Communications & Technology Building - Room 111/112 1024 S 9th Street   Manitowoc, WI	2:00 PM - 4:00 PM

PLAN PREPARED BY  
 Bay-Lake Regional Planning Commission  
 1801 North Drive, Oshtemo, WI  
 920.448.2820 | [info@baylakerpc.org](mailto:info@baylakerpc.org)

**BAY LAKE**  
 Regional Planning Commission | Since 1952

### COMMUNITY FEEDBACK

We welcome any feedback, comments, or concerns regarding this plan update from the public. Feel free to use the link below to submit a feedback form or contact any of the project staff listed for the project.

FEEDBACK FORM

### MEETINGS/ EVENTS



#### UPCOMING EVENTS

- Open Houses**
- May 29, 2024** @ Kiel Community Center 2PM-4PM
  - June 12, 2024** @ Mishicot Village Hall 2PM-4PM
  - June 20, 2024** @ Communications & Technology Building 1024 S 9th St., Manitowoc 2PM-4PM

#### PAST EVENTS

- Meeting #4**  
April 9, 2024
- Meeting #3**  
February 26, 2024
- Meeting #2**  
November 30, 2023
- Meeting #1 - Kickoff**  
October 2, 2023

# Public Meeting Sign-In Sheets

## May 29, 2024

## June 12, 2024

**Manitowoc County Hazard Mitigation Plan Update  
Public Open House Sign-In**  
 May 29, 2024 at 2:00 pm  
 Kiel Community Center (510 3rd Street, Kiel, WI)

	Name	Affiliation
1	Melissa Brandt	citizen
2	Brandon Robinson	Bay Lake RPC
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12		
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14		
15		
16		

**Manitowoc County Hazard Mitigation Plan Update  
Public Open House Sign-In**  
 June 12, 2024 at 2:00 pm  
 Mishicot Village Hall (511 E Main Street, Mishicot, WI)

	Name	Affiliation
1	Brandon Robinson	Bay Lake RPC
2		
3		
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6		
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## June 20, 2024

**Manitowoc County Hazard Mitigation Plan Update  
Public Open House Sign-In**  
 June 20, 2024 at 2:00 pm  
 Communications and Technology Building (1024 South 9th Street, Manitowoc, WI)  
 Room 111/112

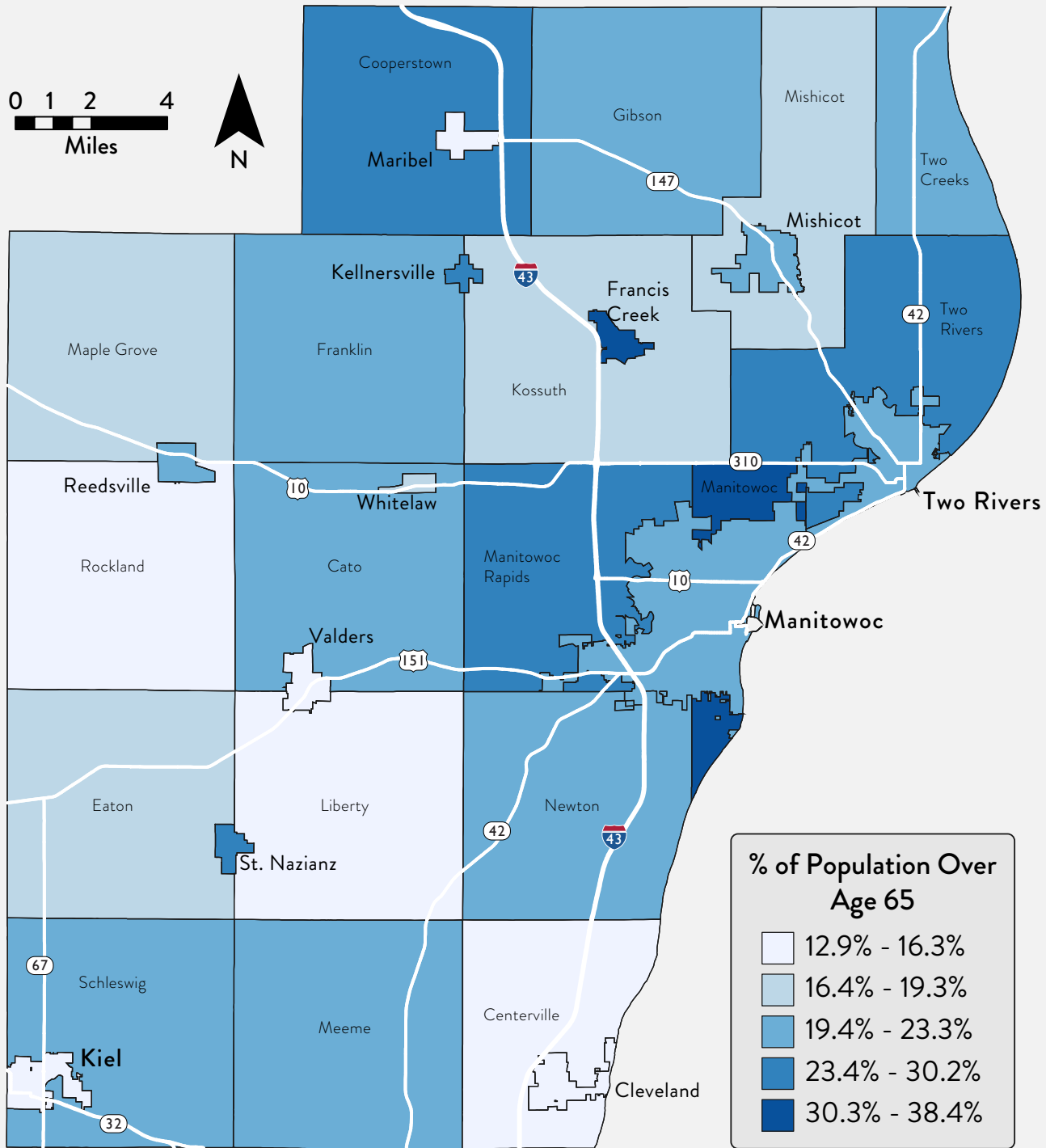
	Name	Affiliation
1	Frank ...	Bay Lake RPC
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# Appendix E

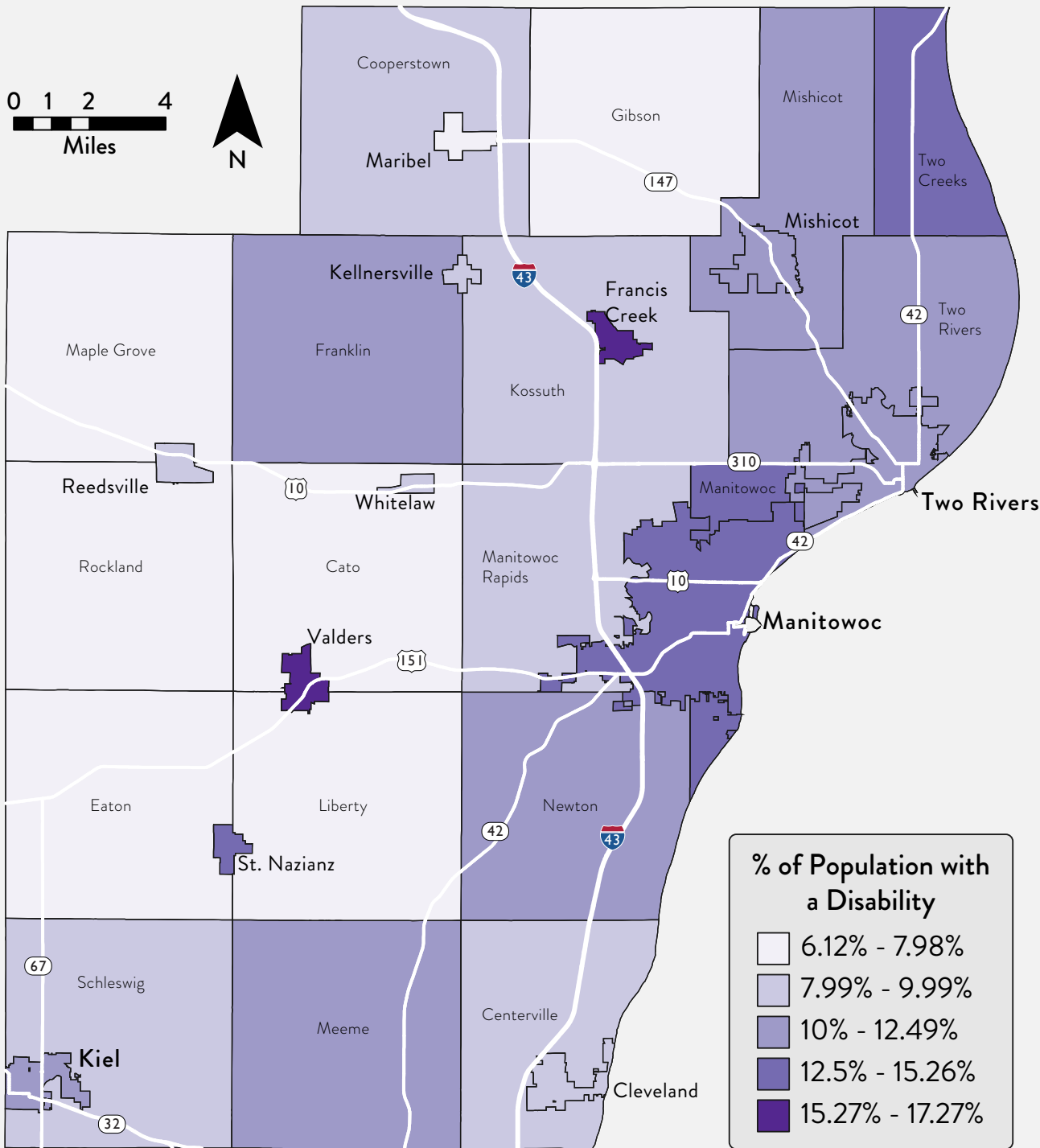
## Underserved/Vulnerable Populations

# Map E.1: Populations of Persons Over Age 65 by MCD



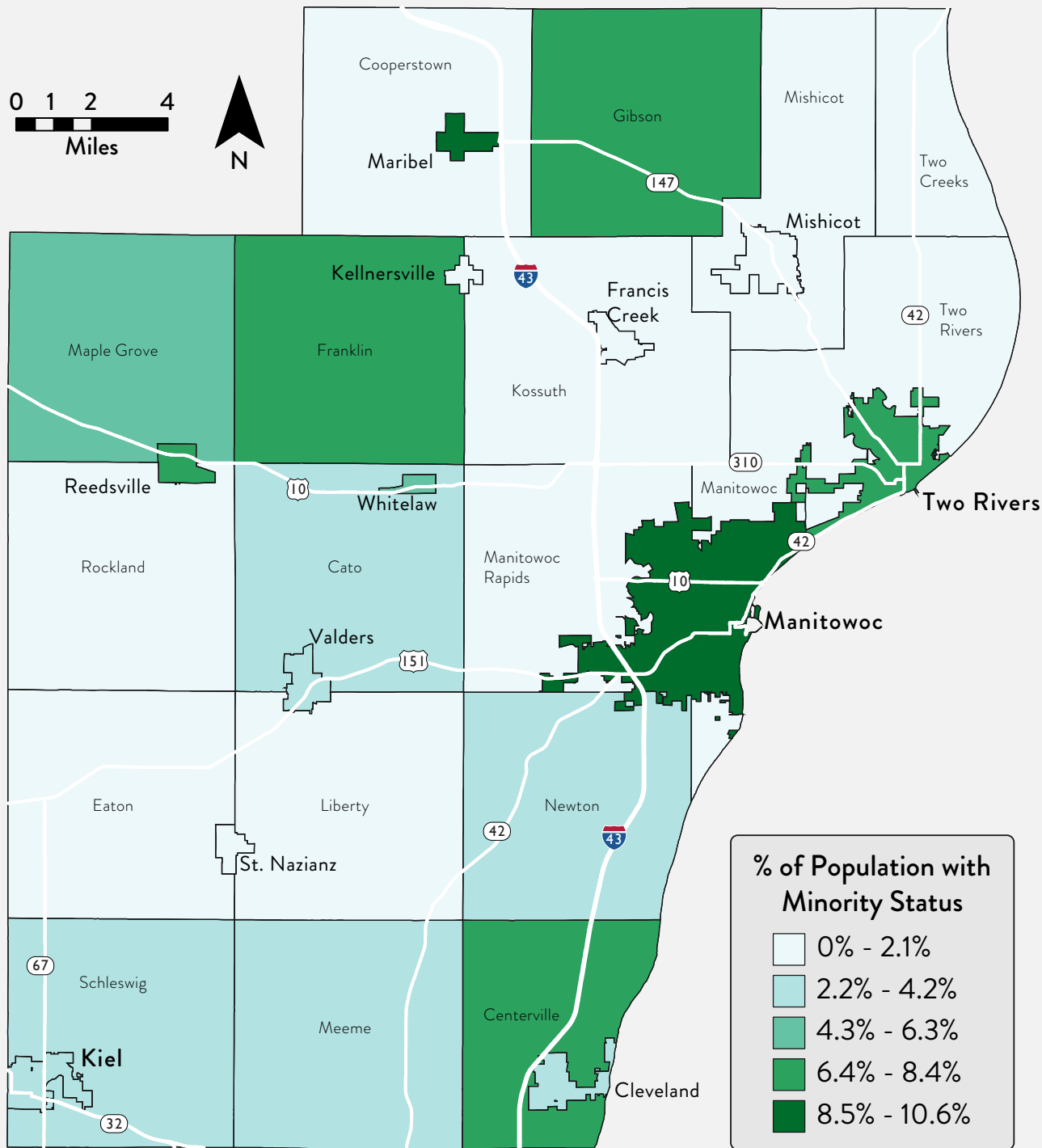
Sources: US Census, ACS 5-Year Estimates 2018-2022, S0101; Bay-Lake RPC, 2024.  
 Disclaimer: This map is neither a legally recorded map nor a survey, and is not intended to be used as one. This drawing is a compilation of records, information, and data used for reference purposes only. Bay-Lake RPC is not responsible for any inaccuracies.

Map E.2: Populations of Persons with a Disability by MCD



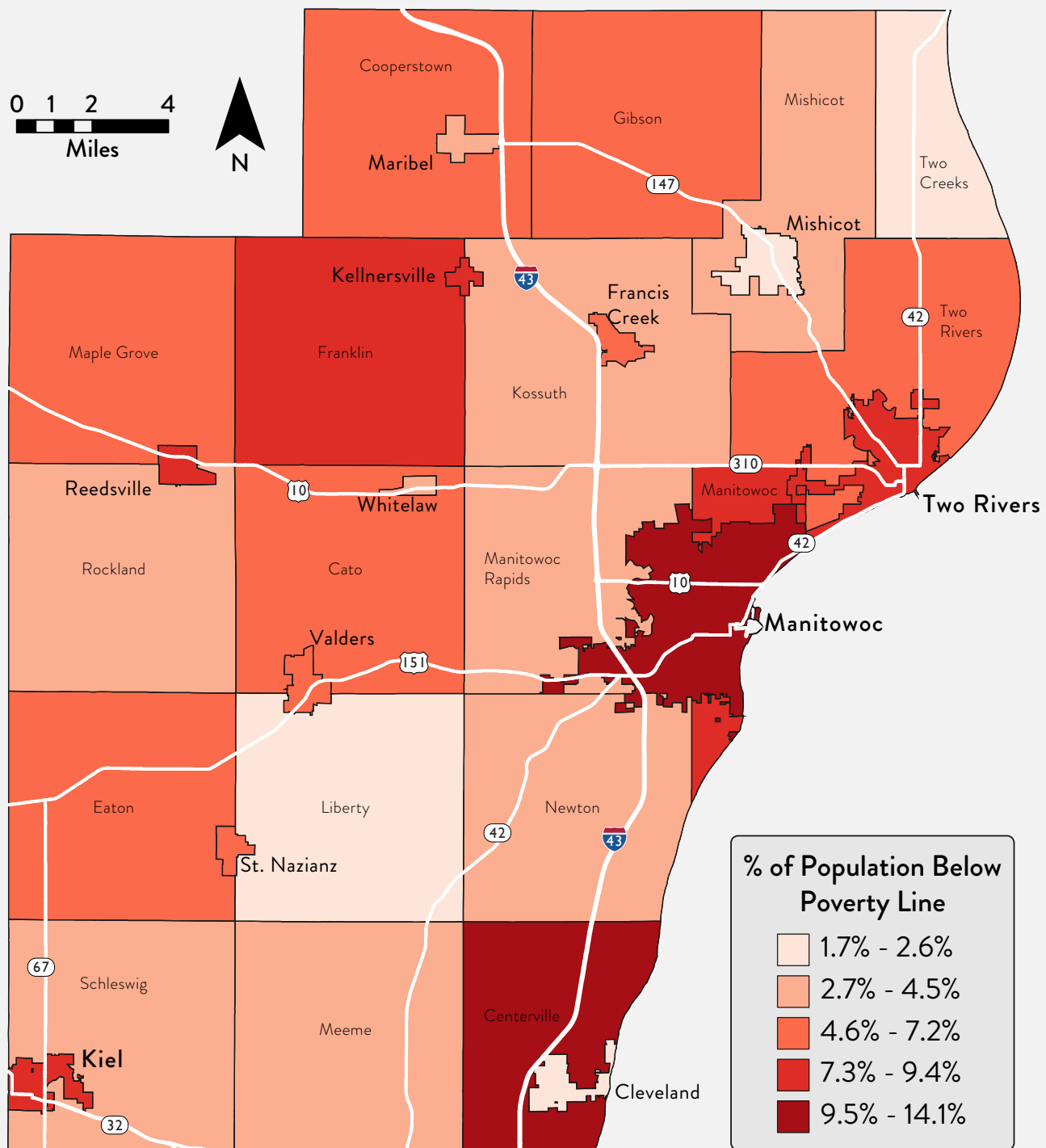
Sources: US Census, ACS 5-Year Estimates 2018-2022, DP02; Bay-Lake RPC, 2024.  
Disclaimer: This map is neither a legally recorded map nor a survey, and is not intended to be used as one. This drawing is a compilation of records, information, and data used for reference purposes only. Bay-Lake RPC is not responsible for any inaccuracies.

### Map E.3: Populations of Persons of Minority Status by MCD



Sources: US Census, ACS 5-Year Estimates 2018-2022, DP05; Bay-Lake RPC, 2024.  
 Disclaimer: This map is neither a legally recorded map nor a survey, and is not intended to be used as one. This drawing is a compilation of records, information, and data used for reference purposes only. Bay-Lake RPC is not responsible for any inaccuracies.

Map E.4: Populations of Persons Living Below Poverty Level by MCD



Sources: US Census, ACS 5-Year Estimates 2017-2021, B17001; Bay-Lake RPC, 2024.  
 Disclaimer: This map is neither a legally recorded map nor a survey, and is not intended to be used as one. This drawing is a compilation of records, information, and data used for reference purposes only. Bay-Lake RPC is not responsible for any inaccuracies.



Resolution No. \_\_\_\_\_

**RESOLUTION ADOPTING 2025-2030 HAZARD MITIGATION PLAN**

TO THE MANITOWOC COUNTY BOARD OF SUPERVISORS

WHEREAS, Manitowoc County recognizes the threat that natural hazards pose to people and property; and

WHEREAS, undertaking hazard mitigation actions before disasters occur will reduce the potential for harm to people and property and save taxpayer dollars; and

WHEREAS, an adopted natural hazards mitigation plan is required as a condition of future grant funding for mitigation projects; and

WHEREAS, in recognition of the need to prepare for the mitigation of natural hazards, Manitowoc County has prepared its *Manitowoc County Hazard Mitigation Plan 2025-2030* (the "Plan"); and

WHEREAS, Wisconsin Emergency Management ("WEM") has reviewed and approved the Plan; and

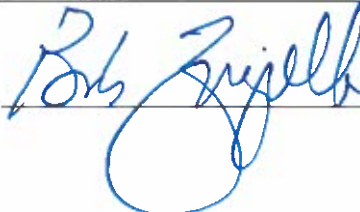
WHEREAS, after careful consideration and review, the Hazard Mitigation Plan Update Steering Committee recommends the County Board of Supervisors of the County of Manitowoc adopt the Plan;

NOW, THEREFORE BE IT RESOLVED, that the County Board of Supervisors of Manitowoc County hereby adopts the *Manitowoc County Hazard Mitigation Plan 2025-2030* as approved by WEM as the County's official Hazard Mitigation Plan; and

BE IT FURTHER RESOLVED, that upon approval of the *Manitowoc County Hazard Mitigation Plan 2025-2030*, the Bay-Lake Regional Planning Commission will submit the Plan to Wisconsin Emergency Management and Federal Emergency Management Agency officials for final approval, as required under the Hazard Mitigation Grant Program.

Dated this \_\_\_\_ day of \_\_\_\_\_, 2024.

Dated \_\_\_\_\_, 2024. \_\_\_\_\_, Corporation Counsel

Approved Nov 18, 2024.  County Executive

Resolution No. \_\_\_\_\_.

**Adopting the Manitowoc County Hazard Mitigation Plan 2025-2030**

WHEREAS, the City of Two Rivers recognizes the threat that natural hazards pose to people and property; and

WHEREAS, undertaking hazard mitigation actions before disasters occur will reduce the potential for harm to people and property and save taxpayer dollars; and

WHEREAS, an adopted natural hazards mitigation plan is required as a condition of future grant funding for mitigation projects, and

WHEREAS, the City of Two Rivers participated jointly in the planning process with Manitowoc County and the other local units of government within the County to prepare a Hazard Mitigation Plan;

NOW, THEREFORE BE IT RESOLVED, that the City of Two Rivers, hereby adopts the *Manitowoc County Hazard Mitigation Plan 2025-2030* as an official plan; and

BE IT FURTHER RESOLVED, that City of Two Rivers' City Council will provide a copy of this signed resolution to the Manitowoc County Emergency Management Department.

Adopted this \_\_\_\_ day of \_\_\_\_\_, 2025.

\_\_\_\_\_, City Clerk, Amanda Baryenbruch

\_\_\_\_\_, City Manager, Gregory E. Buckley



**Sec. 5-6-24. Commercial refuse/recycling haulers. (Proposed 3-04-2025 – Mark-up)**

- A. *License required.* No person shall be permitted to operate as a commercial refuse/recycling hauler without first having obtained a license therefore from the city clerk. The city clerk shall not issue the license until the application has been approved by the director of public works and the city manager and granted by the city council. Each applicant shall also be required to furnish a letter of credit in the amount of \$5,000.00 from an acceptable responsible institution. Each applicant shall also be required to furnish a certificate of liability insurance with limits of \$1,000,000.00 for one person and \$1,000,000.00 for any number of persons injured or killed in one accident and \$100,000.00 property damage per incident on each licensed vehicle used in the city. A license fee as specified in the schedule of fees in title 1 of this Code shall be charged for each vehicle used in the business of refuse and/or recycling hauling in the city. Each license shall expire annually on the first day of July following its issuance.
- B. *Noncommercial haulers.* Notwithstanding subsection A., no person, firm or corporation which hauls refuse or recyclables generated solely by such person, firm or corporation shall be required to obtain a license hereunder. No such person, firm or corporation shall, however, dispose of any such refuse at a licensed landfill and charge the cost for such disposal to the City of Two Rivers. Non-commercial haulers are responsible to report amounts of refuse and/or recyclables disposed of if the amounts are over ten tons per year.
- C. *Vehicle requirements.* All vehicles used by commercial refuse haulers to collect or haul refuse shall be covered over the part of the vehicle which contains the refuse and/or recyclables and shall be so constructed that no garbage and/or recyclables can spill, leak or break. Such vehicles shall be kept clean and as free from offensive odors as possible. While any refuse and/or recyclables are contained in any such vehicle, the vehicle shall not be kept on any street, alley or public place, or upon any private premises in the city longer than is reasonable necessary to collect the refuse and/or recyclables and transport it for disposal. No vehicles may be kept overnight with any refuse and/or recyclables stored in the vehicle, unless the vehicle is removed by 8:00 a.m. the following morning. No vehicles may be parked at any time in any area not zoned to permit the location of a refuse and/or recycling hauling or processing business, whether loaded or unloaded, except while making collections.
- D. *Collection and disposal.* Each commercial refuse/recycling hauler shall make arrangements with his customers to collect refuse/recyclables on a specific day and shall collect all refuse/recyclables on the day scheduled for collection. All refuse collected shall be disposed of at a licensed landfill. All recycling materials shall be disposed of at the Manitowoc County Recycling Facility or through arrangements made with Manitowoc County for processing of recyclable material for market.
- E. *Reporting requirements.* All refuse/recycling haulers shall make quarterly reports to the director of public works. These reports shall be due within 30 days after March 31, June 30, September 30 and December 31. These reports shall include, but **are** not limited to, customers served inside the city, refuse tonnage collected inside the city and recycling tonnage collected in the city. The recycling tonnage collected shall be submitted for each item listed under section 5-6-11 or otherwise required by the department of natural resources. The means and methods to be used for compiling the report shall be submitted with the annual license application or whenever the means and methods are revised or changed through the licensing period. All means and methods shall be approved by the director of public works.
- F. *Dumpsters.*
  - (1) Commercial haulers are responsible for the use of and maintenance of refuse dumpsters. Dumpsters shall be secured at all times when not in use. Dumpsters shall be placed as far as possible from public view. Should the city manager, the director of public works, or the police chief determine that a dumpster located on private property constitutes a nuisance or hazard, it shall be removed or relocated as directed by that official. The city manager, director of public works, or police chief may order the removal of any dumpster from the public right-of-way at his discretion.

- (2) Dumpster permits. No person or commercial hauler shall place a dumpster on streets or other public rights-of-way without first obtaining a permit to do so from the director of public works ("director") or his/her authorized representative. Any person seeking to place dumpsters on streets or public rights-of-way shall submit a written application for permit in a form approved by the director.
- a. Dumpsters may not be placed in posted "No Parking" or restricted parking zones.
  - b. Dumpsters may not be placed in illegal parking spaces, such as crosswalk areas, at hydrants, or in driveway approaches.
  - c. Dumpsters may not extend more than eight (8) feet into the roadway from the face of curb or edge of pavement for rural roadways.
  - d. In the case of gravel roads, dumpsters shall be placed on wooden planks capable of withstanding the weight of the dumpster and waste load if placed on a gravel roadway so as not to cause rutting of the gravel.
  - e. Dumpsters shall be set back sixty (60) feet from any intersecting cross street curb lane and twenty (20) feet from any intersecting alley edge of pavement.
  - f. Dumpsters may not be placed in alleys
  - g. No dumpster may be placed in a public street or right-of-way unless barricades with eight (8) inch wide ASTM Type 2 orange and white diagonal reflective tape approved by the director are placed ~~at~~ at both ends of the dumpster closest to traffic travel lane, ~~or~~ reflective tape approved by the director is placed on all sides of the dumpster in accordance with drawings and specifications prepared by the director, or appropriate reflective tubular devices with flashers are placed as required below.
  - h. If barricades are used, flashing lights must be placed on the barricades when they remain in the place at any time from 4:00 p.m. to 8:00 a.m.
  - i. If reflective tape is used, such tape shall be at least ~~six~~ two (2) inches in width with a minimum of one-hundred eighty (180) square inches of DOT-C2 Conspicuity 6" red x 6" white reflective tape applied to both ends and both sides of the dumpster as further described:
    - i. A minimum of thirty (30) inches vertically along each vertical edge beginning at the upper most portion of the dumpster.
    - ii. A minimum of three (3), twelve (12) inch long strips evenly spaced along the uppermost edge of the dumpster.
    - iii. A minimum of two (2), twelve (12) inch long strips near the bottom, a minimum of twelve inches above the roadway, beginning at the outer edge of the dumpster such that they are visible to oncoming nighttime traffic.
  - j. If reflective tubular devices are used they shall meet the following requirements:
    - i. Must be a minimum of forty-two (42) inches in height and a minimum of two (2) inches in diameter, orange in color.
    - ii. Must have a minimum total reflective area of three-hundred sixty (360) square inches or one-hundred eighty (180) square inches visible to an oncoming vehicle.
    - iii. Must be a minimum of 32-inches in height of reflectivity, alternating a minimum of 4-inch orange flexible prismatic reflective tape and 4-inch white reflectivity conspicuity tape with the top band being orange. Alternating bands do not need to be continuous; space is allowable between each row of reflective tape.

- iv. Must be a minimum of three (3) tubular devices must be placed on a diagonal on the approach side of the dumpster; the tubular device nearest the corner of the dumpster and the vehicle travel lane must have a flasher mounted on the top of the tubular device and activated for night time hours.
- v. Must be a minimum of three (3) tubular devices must be placed on a diagonal on the departure side of the dumpster ; the tubular device nearest the corner of the dumpster and the vehicle travel lane must have a flasher mounted on the top of the tubular device and activated for night time hours.
- vi. Must include two (2) to three (3) tubular devices ~~must be~~ placed adjacent to the dumpster closest to the vehicle travel lane, with a maximum spacing between tubular devices being seven (7) feet.
- k. If barricades are rented from the city, the city may impose a rental fee of at least \$5.00 a day for their use, which fee shall be payable on submission of the application for permission.
- l. The dumpster permittee or user of the dumpster that is placed within the street or other public rights-of-way will be responsible to clear snow and ice that has accumulated around the dumpster down to bare pavement conditions.
- m. Dumpsters must be secured to prevent the spread of debris from the dumpsters.
- n. Each applicant shall be required to agree in writing to indemnify and hold the city harmless from any and all claims, actions, liabilities, demands or obligations of any nature whatsoever arising from the placement of the dumpster in a street or other public right-of-way, including actual attorneys' fees and expenses incurred by the city in defending itself therefrom, and agree to comply with all applicable law, ordinances, regulations and any special conditions as are imposed by the director of public works or his/her designee.
- o. The city manager, police chief or the director of public works may order any dumpster removed at his discretion, at the cost of the person who applied for permission to place the dumpster.
- p. No household refuse shall be allowed to be disposed of in any residential dumpster, and the dumpster shall be emptied at least every two weeks unless otherwise stated in the permit.

(Ord. No. 2023-051, § 1, 3-20-2023)

**ORDINANCE**

An Ordinance to amend Section 5-6-24 of the Municipal Code of the City of Two Rivers, Wisconsin, regulating Commercial refuse/recycling haulers within the City, based on the recommendation of the Public Works Director:

The Council of the City of Two Rivers, Wisconsin, ordains as follows:

**SECTION 1.** Section 5-6-24. of the Municipal Code of the City of Two Rivers, Wisconsin is hereby amended and shall now read as follows:

**Sec. 5-6-24. Commercial refuse/recycling haulers.**

- A. *License required.* No person shall be permitted to operate as a commercial refuse/recycling hauler without first having obtained a license therefore from the city clerk. The city clerk shall not issue the license until the application has been approved by the director of public works and the city manager and granted by the city council. Each applicant shall also be required to furnish a letter of credit in the amount of \$5,000.00 from an acceptable responsible institution. Each applicant shall also be required to furnish a certificate of liability insurance with limits of \$1,000,000.00 for one person and \$1,000,000.00 for any number of persons injured or killed in one accident and \$100,000.00 property damage per incident on each licensed vehicle used in the city. A license fee as specified in the schedule of fees in title 1 of this Code shall be charged for each vehicle used in the business of refuse and/or recycling hauling in the city. Each license shall expire annually on the first day of July following its issuance.
- B. *Noncommercial haulers.* Notwithstanding subsection A., no person, firm or corporation which hauls refuse or recyclables generated solely by such person, firm or corporation shall be required to obtain a license hereunder. No such person, firm or corporation shall, however, dispose of any such refuse at a licensed landfill and charge the cost for such disposal to the City of Two Rivers. Non-commercial haulers are responsible to report amounts of refuse and/or recyclables disposed of if the amounts are over ten tons per year.
- C. *Vehicle requirements.* All vehicles used by commercial refuse haulers to collect or haul refuse shall be covered over the part of the vehicle which contains the refuse and/or recyclables and shall be so constructed that no garbage and/or recyclables can spill, leak or break. Such vehicles shall be kept clean and as free from offensive odors as possible. While any refuse and/or recyclables are contained in any such vehicle, the vehicle shall not be kept on any street, alley or public place, or upon any private premises in the city longer than is reasonable necessary to collect the refuse and/or recyclables and transport it for disposal. No vehicles may be kept overnight with any refuse and/or recyclables stored in the vehicle, unless the vehicle is removed by 8:00 a.m. the following morning. No vehicles may be parked at any time in any area not zoned to permit the location of a refuse and/or recycling hauling or processing business, whether loaded or unloaded, except while making collections.
- D. *Collection and disposal.* Each commercial refuse/recycling hauler shall make arrangements with his customers to collect refuse/recyclables on a specific day and shall collect all refuse/recyclables on the day scheduled for collection. All refuse collected shall be disposed of at a licensed landfill. All

recycling materials shall be disposed of at the Manitowoc County Recycling Facility or through arrangements made with Manitowoc County for processing of recyclable material for market.

E. *Reporting requirements.* All refuse/recycling haulers shall make quarterly reports to the director of public works. These reports shall be due within 30 days after March 31, June 30, September 30 and December 31. These reports shall include, but are not limited to, customers served inside the city, refuse tonnage collected inside the city and recycling tonnage collected in the city. The recycling tonnage collected shall be submitted for each item listed under section 5-6-11 or otherwise required by the department of natural resources. The means and methods to be used for compiling the report shall be submitted with the annual license application or whenever the means and methods are revised or changed through the licensing period. All means and methods shall be approved by the director of public works.

F. *Dumpsters.*

- (1) Commercial haulers are responsible for the use of and maintenance of refuse dumpsters. Dumpsters shall be secured at all times when not in use. Dumpsters shall be placed as far as possible from public view. Should the city manager, the director of public works, or the police chief determine that a dumpster located on private property constitutes a nuisance or hazard, it shall be removed or relocated as directed by that official. The city manager, director of public works, or police chief may order the removal of any dumpster from the public right-of-way at his discretion.
- (2) Dumpster permits. No person or commercial hauler shall place a dumpster on streets or other public rights-of-way without first obtaining a permit to do so from the director of public works ("director") or his/her authorized representative. Any person seeking to place dumpsters on streets or public rights-of-way shall submit a written application for permit in a form approved by the director.
  - a. Dumpsters may not be placed in posted "No Parking" or restricted parking zones.
  - b. Dumpsters may not be placed in illegal parking spaces, such as crosswalk areas, at hydrants, or in driveway approaches.
  - c. Dumpsters may not extend more than eight (8) feet into the roadway from the face of curb or edge of pavement for rural roadways.
  - d. In the case of gravel roads, dumpsters shall be placed on wooden planks capable of withstanding the weight of the dumpster and waste load if placed on a gravel roadway so as not to cause rutting of the gravel.
  - e. Dumpsters shall be set back sixty (60) feet from any intersecting cross street curb lane and twenty (20) feet from any intersecting alley edge of pavement.
  - f. Dumpsters may not be placed in alleys
  - g. No dumpster may be placed in a public street or right-of-way unless barricades with eight (8) inch wide ASTM Type 2 orange and white diagonal reflective tape approved by the director are placed ~~on~~ at both ends of the dumpster closest to traffic travel lane, ~~or~~ reflective tape approved by the director is placed on all sides of the dumpster in accordance with drawings and specifications prepared by the director, or appropriate reflective tubular devices with flashers are placed as required below.
  - h. If barricades are used, flashing lights must be placed on the barricades when they remain in the place at any time from 4:00 p.m. to 8:00 a.m.
  - i. If reflective tape is used, such tape shall be at least ~~six~~ two (2) inches in width with a minimum of one-hundred eighty (180) square inches of DOT-C2 Conspicuity 6" red x 6"

white reflective tape applied to both ends and both sides of the dumpster as further described:

- i. A minimum of thirty (30) inches vertically along each vertical edge beginning at the upper most portion of the dumpster.
  - ii. A minimum of three (3), twelve (12) inch long strips evenly spaced along the uppermost edge of the dumpster.
  - iii. A minimum of two (2), twelve (12) inch long strips near the bottom, a minimum of twelve inches above the roadway, beginning at the outer edge of the dumpster such that they are visible to oncoming nighttime traffic.
- j. If reflective tubular devices are used they shall meet the following requirements:
- i. Must be a minimum of forty-two (42) inches in height and a minimum of two (2) inches in diameter, orange in color.
  - ii. Must have a minimum total reflective area of three-hundred sixty (360) square inches or one-hundred eighty (180) square inches visible to an oncoming vehicle.
  - iii. Must be a minimum of 32-inches in height of reflectivity, alternating a minimum of 4-inch orange flexible prismatic reflective tape and 4-inch white reflectivity conspicuity tape with the top band being orange. Alternating bands do not need to be continuous; space is allowable between each row of reflective tape.
  - iv. Must be a minimum of three (3) tubular devices must be placed on a diagonal on the approach side of the dumpster; the tubular device nearest the corner of the dumpster and the vehicle travel lane must have a flasher mounted on the top of the tubular device and activated for night time hours.
  - v. Must be a minimum of three (3) tubular devices must be placed on a diagonal on the departure side of the dumpster ; the tubular device nearest the corner of the dumpster and the vehicle travel lane must have a flasher mounted on the top of the tubular device and activated for night time hours.
  - vi. Must include two (2) to three (3) tubular devices ~~must be~~ placed adjacent to the dumpster closest to the vehicle travel lane, with a maximum spacing between tubular devices being seven (7) feet.
- k. If barricades are rented from the city, the city may impose a rental fee of at least \$5.00 a day for their use, which fee shall be payable on submission of the application for permission.
- l. The dumpster permittee or user of the dumpster that is placed within the street or other public rights-of-way will be responsible to clear snow and ice that has accumulated around the dumpster down to bare pavement conditions.
- m. Dumpsters must be secured to prevent the spread of debris from the dumpsters.
- n. Each applicant shall be required to agree in writing to indemnify and hold the city harmless from any and all claims, actions, liabilities, demands or obligations of any nature whatsoever arising from the placement of the dumpster in a street or other public right-of-way, including actual attorneys' fees and expenses incurred by the city in defending itself therefrom, and agree to comply with all applicable law, ordinances, regulations and any special conditions as are imposed by the director of public works or his/her designee.

- o. The city manager, police chief or the director of public works may order any dumpster removed at his discretion, at the cost of the person who applied for permission to place the dumpster.
- p. No household refuse shall be allowed to be disposed of in any residential dumpster, and the dumpster shall be emptied at least every two weeks unless otherwise stated in the permit.

**SECTION 2.** This ordinance shall take effect and be enforced from and after the date of its passage and publication.

Adopted by the Council of the City of Two Rivers, Manitowoc County, Wisconsin this \_\_\_\_ day of \_\_\_\_\_, 2025.

\_\_\_\_\_  
Scott Stechmesser  
President, City Council

\_\_\_\_\_  
Gregory E. Buckley  
City Manager

Attest:

\_\_\_\_\_  
Amanda Baryenbruch, City Clerk

Approved as to form and legality:

\_\_\_\_\_  
Sean P. Griffin  
City Attorney

# CITY OF TWO RIVERS

## SIDEWALK REPAIR & REPLACEMENT POLICY



Revised September 2007  
February 2025





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# 1 OBJECTIVES

The program is intended to provide a safe walkway for pedestrians and to protect the interests of both the Property Owner and the City of Two Rivers.

This program includes the systematic review of public sidewalks, drive approach aprons, and carriage walks within the public right-of-way to identify sidewalk sections not in conformance with accepted standards or which contain defects as herein described and as decided by the City Engineer. The program is intended to correct non-conforming sidewalks that may be observed in the course of periodic sidewalk inspections throughout the City or as complaints arise.

This program does not include curbs within the public right-of-way.

At intersections, the walk extensions to the curb from the public walks not across property frontage are included in the program. These walks will be repaired/replaced by the City of Two Rivers at the City's expense.

Should you have any additional questions or desire further information concerning the City of Two Rivers Sidewalk Repair and Replacement Policy, please contact the City Engineer's office at the Engineering Department, City Hall, 1717 East Park Street, Two Rivers, WI, telephone number(920) 793-5539, on Monday through **Thursday 7:30 A.M. to 5:00 P.M., and Friday 7:30 A.M. to 11:30 A.M. between the hours of 8:00 A.M. and 4:30 P.M.**

# 2 GENERAL DESCRIPTION OF SIDEWALK REPAIR PROGRAM

## 2.1 Introduction

The City of Two Rivers ~~has~~ initiated an annual program for the repair or replacement of defective or damaged public sidewalks. This program ~~is will-be~~ part of a citywide program to bring all sidewalks up to current standards. This does not mean that all of the sidewalks will be replaced. Each year, ~~the~~ sidewalks in a selected area of the City will be inspected in accordance with the criteria contained in this manual. The objective of this program is to restore the sidewalks throughout the City to an overall good condition.

This manual has been prepared to explain the purpose and details of the program and answer questions regarding the sidewalk repairs.

The City of Two Rivers, like most municipalities in colder climates, has a major problem with maintaining sidewalks in good condition. Sidewalks are subject to a number of deteriorating influences. Because of our geographic location, concrete sidewalks are subjected to severe freezing and thawing conditions. Not only will concrete crack, chip and deteriorate faster in our climate, but also sidewalk slabs will move as the ground below moves due to the freeze and thaw action. Sometimes this displacement will cause sidewalk sections to be offset at a joint. Other factors causing problems are tree roots, poor subsoil conditions, utility trench settlement and the use of materials to control ice and snow. Broken, raised or settled sidewalks create hazards for pedestrians. The number of persons utilizing sidewalks continues to increase and the potential for tripping and falling is a concern.

The primary benefits of a sidewalk repair program include improved pedestrian safety and the enhancement of area neighborhoods.

## 2.1 Required Work

The owner of any parcel of land that is adjacent to a City street is responsible for maintaining the sidewalk in front of his property in good condition in accordance with the criteria set forth in this manual and as described in the City Ordinances (see Section 4-1-4). The criteria for the replacement of sidewalk is based on evidence of deterioration to concrete sections such as sidewalk which is cracked, tilted, raised, badly chipped, spalled, settled, etc.

On corner lots, any repair or replacement required within the pie shaped slab or handicap ramp at the corner will be paid for by the City and will not be charged to the property owner.

## 2.2 Property Owner Responsible For Repairs

Property owners are responsible for maintenance/repairs/replacement to sidewalks fronting their property in accordance with City Specifications. Property owners may hire a private sidewalk construction contractor to repair or replace the defective walk. All financial arrangements will be between the property owner and their his/her contractor should the property owner choose to have a private contractor do the work. The property owner can perform the sidewalk construction them/himself without hiring a contractor provided that the applicable City ordinances and standard specifications are met. The sidewalk repair requirements are available for distribution at the City Engineers office. The Property Owner choosing to replace their his own walk or hiring a contractor to replace the walk must obtain a permit from the City Engineering Department and upon completion of the work must call the Engineering Department to inspect and approve the construction in conformance to the City Standards. Owner constructed walks that do not meet City specifications may be ordered removed and replaced.

The property owner will have a minimum forty-five (45) day period from the date of issuance of the notice to inform the City of their his plans for the sidewalk repair/replacement work. The property owner shall provide notice to the City by obtaining a Sidewalk Permit from the City Engineer's office indicating their his intent to either complete the work on their his own or to default to the work being performed by the City at their his expense.

In instances where the property owner fails to respond, the City of Two Rivers will replace sidewalks that are not repaired/replaced in compliance with the Notice to Repair/Replace Sidewalk. The cost of walks replaced by the City in this situation will be charged under the Special Assessment Program.

There will be no charge for sidewalk permits if the City repairs/installs the sidewalk under the City's contract.

## 2.3 City Performance of Repairs

The City will perform repair/replacement of the defective walk under a City Contract at the expense of the property owner. All sidewalk replacement work by the City of Two Rivers will be concrete construction only.

The City of Two Rivers will prepare and bid a contract for the construction of concrete sidewalks. Property Owners who elect to have the City replace their walk will have their work assigned to the contractor for construction in the most efficient manner possible. Property Owners who do not respond by the date on the Notice will be assigned to the contractor for construction as well.

Sidewalk repaired / installed by the City shall have an expected service life of ten (10) years. Should the concrete sidewalk require replacement before the end of the ten (10) year expected

service life, the abutting property owner shall be assessed on a prorated basis. For example, should sidewalk require replacement after five (5) years, the abutting property owner would only be assessed at one-half (1/2) of the applicable rate. The prorated assessment policy shall only apply if the work is done through the City and the City’s contractor, or authorized by the City, and noted on the sidewalk permit.

**2.5 Payment For City Performance of Repairs**

The City of Two Rivers will have available a Special Assessment Program for sidewalk repairs.

Following completion of defective sidewalk repair/replacement by the City via its contract, a bill will be sent to the property owner by the City Engineering Department. The Property owner will have the option at that time to pay the amount in full or to participate in the Special Assessment Program. All sidewalk repairs in the amount of \$200.00 or less will be required to be paid in full.

The Special Assessment Program will allow the repayment of the cost of the sidewalk replacement over a five (5) year period at the interest rate the City Council set that year. The annual cost will be billed to the property owner at the time taxes are sent. Prepayment of the Special Assessment will be allowed by the City with no pre-payment penalty.

**2.6 Obstruction Notice**

The property owner is responsible for all objects that are on the property that encroach upon the public right-of-way adjacent to the sidewalk to be replaced, i.e., fence, retaining wall (brick, block, concrete stone, and railroad ties), vegetation (trees, flowers, shrubs) etc. All objects that the property owner has placed within the public right-of-way are subject to removal by the City without replacement by the City if necessary for construction, repair, replacement and/or maintenance of publicly owned and operated facilities.

Any damage done to these private encroachments into the public right-way will not be repaired or replaced by the City or the City’s contractor. This includes damages resulting from the installation of concrete forms to establish the back of walk.

**2.7 Sidewalk Widths**

The standard minimum width for sidewalks in the City of Two Rivers is 5’-4”. Walks that are constructed at the back of curb and gutter shall have a minimum width of 6’-4”. Any exceptions to this requirement must be approved by the City Engineer.

**2.8 Alignment And Grade Of Replaced Walks**

Sidewalks will be replaced to the line and grade established by the City Engineering Department. In general, walks will be replaced so that the back of walk is 20” from the street right-of-way line. The back of walk grade will be established to preserve as much as possible the standard cross section for City streets.

**2.9 Grass Area Repair**

When the defective sidewalk is removed, removal of the soil and grass along both sides of the walk is expected. Hedges or other vegetation within area needed for walk construction (including installation of forms) in the region is subject to removal without replacement.

In the event the work is done by the City, all removed materials will be hauled from the site.

The disturbed areas along each side of the walk are to be restored with topsoil, seed and mulch within ten (10) days as soon as possible following placement of the new walk. Each property owner is expected to water and maintain the new seed.

In the event the work is done by the City, the disturbed areas along each side of the walk are to be restored with topsoil, seed and mulch and seed installed within ten (10) days as soon as possible following placement of the new walk. Each property owner is expected to water and maintain the new seed.

**2.10 Driveway Area Repairs**

At locations where replacement walks are constructed across existing driveways, pavements will be saw cut to allow a neat and workmanlike repair to the driveway pavement to be made. This rule will not apply where the existing driveway pavement is to be replaced.

**2.11 Sidewalks Adjacent To Trees**

Replacement of sidewalks adjacent to trees may require that tree roots be sawed off to provide for installation of the new sidewalk to the proper grade and alignment. (See section 4.0 Tree Roots and Root Cutting) Under certain circumstances, root sawing may severely damage the tree, necessitating its removal. Trees located within the City right-of-way which are severely damaged or compromised by the sidewalk replacement or by other causes, as determined by the official City Forester or Designee, will be removed by the City at no expense to the property owner. The City will not be responsible for damage to, or removal of, trees located beyond the limits of the public right-of-way.

A property owner may request the removal of a tree by the City, provided that the tree is located within the public right-of-way, in an attempt to prevent future damage to the adjacent sidewalk caused by tree roots. If you request that a street tree be removed, the City Forester or Designee will evaluate the tree to determine whether or not removal of the tree is warranted. If the City Forester or Designee determines that removal is justified it will be done at the City’s expense.

The City of Two Rivers is not obligated to replace street trees that are removed as provided above. Such trees may be replaced at the discretion of the City.

When it is determined by the City Engineer that sidewalk is impacted by street trees, trees within the public rights-of-way, the repairing or replacement of the impacted sidewalk will be done at the City’s expense (2023).

**2.12 Repairs To Defective Sidewalks**

The City may allow repairs to defective sidewalk either by the Property Owner or by the Property Owner’s private contractor.

The types of authorized repair options include mud jacking, beveling, epoxy crack filling, sawcutting repairs and total sidewalk replacement. The City Engineer prior to doing the repair shall approve mud-jacking, beveling, epoxy joint filling and sawcutting repairs.

Total sidewalk replacement would be considered by the City as the preferred repair option. This may be the only option if sidewalk panels are severely damaged and/or broken since it is the only method of repair that fully removes and replaces the damage with a completely new sidewalk panel and looks at the soils beneath the sidewalk panel being replaced. This can be done by a licensed contractor hired by the homeowner or the property owner can perform the sidewalk construction

themselves without hiring a contractor provided that the applicable City ordinances and standard specifications are met as previously stated in Section 2.2 above.



Mud jacking repairs to sidewalk sections are considered by the City to be temporary in nature. Mud jacking repairs made to defective sidewalk slabs will be allowed once. Mud jacking is mainly used to raise existing sidewalks that have sunken below adjacent sidewalk panels so that the entire panel does not need to be removed and replaced with an entirely new one. If the City determines that the attempt at mud jacking fails or if the sidewalk is cracked, broken or otherwise damaged during mudjacking or such other authorized repair, or if the sidewalk remains defective in any other manner after the attempt at repair, the sidewalk shall be immediately removed and replaced in accordance with City Ordinances and procedures described in this program.



Sawing repairs to sidewalk sections are considered by the City to be temporary in nature. Sawing repairs made to defective sidewalk slabs will be allowed once. If the City determines that the attempt at sawing fails or if the sidewalk is cracked, broken or otherwise damaged during sawing or such other authorized repair, or if the sidewalk remains defective in any other manner after the attempt at repair, the sidewalk shall be immediately removed and replaced in accordance with City Ordinances and procedures described in this program.

For sawing to be considered successful, the following criteria must be accomplished; each trip hazard must be corrected in accordance with the requirements of ADA. Each offset will be tapered to at least a 1:8 slope and will have a smooth, uniform, slip-resistant finish. All saw cutting will be taken to a zero point of differential and extend fully to both edges of the sidewalk.

Epoxy Crack Filling of sidewalk sections is considered by the City to be temporary in nature. Epoxy cracking filling is usually used to fill cracks or depressions in sidewalk panels so that the entire panel does not need to be removed and replaced with an entirely new one. The cracks have to be relatively narrow is width, less than one half (1/2) inch [and the cracked panel shall not be offset by more than one-quarter (1/4) of an inch without other repair options to be implemented]. If the surface of the sidewalk has minimal spalling, flaking or chipping, epoxy concrete patching may be considered with the approval of the City Engineer. Epoxy can be found in most local and chain hardware stores. If the product states “Epoxy Concrete Patch”, it is deemed acceptable for you to use by the City.



Beveling or Diamond Grinding of sidewalk sections is considered by the City to be temporary in nature. Beveling or diamond grinding is usually used to “grind” off the edge of an existing sidewalk that has risen above adjacent sidewalk panes. For sidewalk panels, or cracks within a sidewalk panel, that are offset one-quarter (1/4) of an inch to one-half (1/2) of an inch can be beveled at a forty-five (45) degree angle to remove the tripping hazard. For changes in level greater than one-half (1/2) inch to three-quarters (3/4) of an inch the diamond grinding needs to be completed at an 8.3-percent slope per Federal Register requirements ( $\frac{3}{4}$ ” elevation change x 8.3% = 9” beveled length).



All repairs done by property owners must be approved in accordance with all City of Two Rivers Engineering Department.

### 2.13 Handicap Ramps

In conjunction with work done in front of privately-owned properties, the City will also evaluate existing and be constructing new handicapped curb ramps at street intersections. In accordance with the Americans with Disability Act, Uniform Federal Accessibility Standards, the City is obligated to construct handicap ramps at locations where sidewalks intersect curbs to provide access for handicapped persons. The property owner will not be charged for the construction of these handicap ramps. The property owner will need to keep the ramps clear of debris and snow accordingly.

### 2.14 Parking During Construction

If the sidewalk portion of your driveway is removed, it is important that vehicles are not driven over the newly poured portion of the driveway for at least seven (7) days after the concrete is poured. Barricades shall be placed around the new concrete and should remain in place during that week. Driving over newly poured concrete before the concrete has cured properly could cause damage to the new sidewalk. Damage from this cause is the responsibility of the property owner and could be cause for replacing the new sidewalk damaged sections. If the access to your parking area is cut off by the construction, you will be allowed to park on the street in areas where parking is allowed until access is restored.

### 2.15 Exceptions

Where there are exceptions to the specifications in this document, the decision of the City Engineer will govern. For example, there are sidewalks with pitch greater than allowed in these specifications that were designed that way because the ground elevations or because narrowness of the walk/grass plot area made it necessary. As a general rule, sidewalks that are more than 50% out of compliance with the applicable codes may be ordered replaced in their entirety. Sidewalks that are less than 50% out of compliance may shall be allowed to have the out of compliance sections remain if they are otherwise in good condition.

## 3 PUBLIC SIDEWALK - REPAIR/REPLACEMENT CRITERIA

In general, any sidewalk defects that could be considered a hazard to the public shall be considered as a basis for requiring repair or replacement of a sidewalk or a part thereof. This rule shall apply regardless of the walks specifications that follow.

As a guide, the following is a list of criteria that can be used to determine which sidewalk slabs will require repair work up to and potentially including the total replacement of the impacted sidewalk panels.

### 3.1 Vertically Misaligned Slabs

Where there is differential settlement or heaving of up to three quarters of an inch (3/4") or more between two adjacent sections of sidewalk.

### 3.2 Sidewalk Having Excessive Slope

Sidewalk having longitudinal slope greater than one inch (1") per foot, or transverse slope greater than (1/2") per foot.

### 3.3 Cracked Slabs

3.3.1 Where crack(s) which have resulted in a difference of elevation of three quarters inch (3/4") or greater.

3.3.2 Where there is more than one crack in a slab.



- 3.3.3 Where the sidewalk is cracked and the crack(s) have horizontal separations equal to one half of an inch (1/2") or more.
- 3.3.4 Where the sidewalk is cracked and such cracking has resulted in or has the potential to result in breaking out and/or settling.

**3.4 Loose Or Spalled Slabs**

- 3.4.1 Loose or spalled sidewalks are defined as walks that have a surface with irregularities greater than one-half inch (1/2") in depth relative to the sidewalk surface.
- 3.4.2 A sidewalk slab has spalled over twenty five percent (25%) of its surface will be replaced.

**3.5 Structures With The Sidewalk**

Any underground vault covers, ground level service accesses, drainage grates, window well grates, water valves, manholes, or other similar structures which are defective.

Sidewalk which ~~is~~ are defective because of water valves, manholes, or other utilities will be repaired by the City at no cost to the property owner.

Sidewalks which are defective from other causes not specified above will be the responsibility of the property owner.

**3.6 Temporary Sidewalk Repairs**

Any type of wedge, crack fillers, surface treatments, or other applications using materials of any nature constituting a ~~the~~ temporary elimination of defective sidewalk, which has failed for a second time, shall require that the sidewalk be removed and replaced. Temporary repairs may be approved by the City Engineer in a case by case basis if it is known that future street projects will require replacement of existing sidewalks.

**3.7 Sidewalk Drainage Problems**

Settled sidewalk creating a drainage problem. Sediment collection on the settled walk may indicate poor drainage. Settled sidewalk may not be considered a problem if there is drainage out of the settled area.

**3.8 Excess Joint Width**

Walks having open walk joints of ~~one-half~~ ~~three-quarters~~ of an inch (1/2" ~~3/4"~~) or more at any location will require the ~~for~~ full width of the walk ~~will~~ to be replaced or repaired.

**3.9 Drive Or Drive Apron Material Used For Sidewalk**

Any sidewalk across drive that is not constructed of concrete materials approved for sidewalk construction will be replaced.

**3.10 General Deterioration**

A sidewalk slab that has multiple defects, even if the limits of the individual criteria are not met, will be replaced.

**4 TREE ROOTS AND ROOT CUTTING**

Sidewalks that are determined to be impacted due to street / terrace trees, will be deemed the City's responsibility. Sidewalks that are impacted due to trees outside of the public rights-of-way are the responsibility of the property owner. The Contractor shall take any necessary precautions to protect trees at the work site which are not to be removed. Tree roots interfering with the work shall be completely severed with a clean sharp tool and removed so that no portion of the root is within five

inches (5") of new concrete. An approved mechanical root cutter shall be used to saw any roots that interfere with the proposed sidewalk construction. In those situations with limited and/or restricted access for mechanical root cutting equipment, hand implement usage, i.e., axe, chain saw, etc., is permissible.

The distance between the sidewalk and a tree shall be two feet (2') or more for mechanical root grinding to be done.

When tree roots are cut, the following provisions shall apply:

- Roots below the proposed walk shall be removed only to a depth of nine inches (9") below the proposed elevation of the new walk.
- The root system on the walk side of the tree shall not be cut deeper than nine inches (9") below the proposed elevation of the new walk and not more than five inches (5") from the edge of the proposed walk.
- If, in the opinion of the City Forester or Designee, the root cutting will seriously injure or weaken the tree, the tree will be considered for removal or allowances made as noted below to minimize the impact of the sidewalk replacement. Removal of City owned trees shall be the responsibility of the City.
- Walk slabs may be arched or re-routed around larger trees as required to protect the tree and minimize root cutting. This option is available on the judgment of the City Engineer and may require access easements to be executed to allow the sidewalk to be placed on private property.
- Where walk slabs are heaved less than three inches (3"), the roots may be root sawed along the edge of the sidewalk in an effort to impede further heaving.
- Flexible walk forms may be required to provide minimum clearance around tree roots at some locations.
- Caution shall be used during root cutting operations so as to not cause unnecessary damage to the tree or its root system. ROOT SAWING SHALL BE DONE ON ONLY ONE SIDE OF A TREE.
- All debris from the root sawing operations shall be removed from the sidewalk area and root sawing trenches must be filled with approved topsoil before the end of the work day.
- All exposed and severed tree roots shall be immediately covered with a mulch and watered to prevent drying until such time that the concrete work is complete, the form removed and the area between the tree and concrete work backfilled with approved topsoil. The time duration for completion of the backfilling operations shall not exceed 72 hours from the time the concrete was placed.
- In areas where walk replacement is required and where street trees are present, structural soil may, at the discretion of the City Engineer, be utilized to permit the future growth of tree

roots in a manner that will not disrupt the new sidewalk. Structural soil if utilized should be utilized on all sidewalk blocks within 3 feet of any existing tree.

- Structural soil is a mixture of 15-20% soil, 85-80% crushed stone and a hydrogel; Gelscape or approved equal. Structural soil may be utilized in place of crushed stone backfill under new walk slabs that are within four feet either way from the tree trunk.

Please see the City of Two Rivers Street Tree Ordinance, Chapter 7-4, for additional information.

## 5 OTHER CONSTRUCTION ISSUES

### 5.1 Time Limit on Removals of Materials

All excess materials shall be removed from the site of each operation, residential and/or commercial, within three (3) days after the material has been deposited. No material shall be placed in the street gutter pan so as to block drainage.

### 5.2 Barricades

All areas where the sidewalk has been removed shall be properly protected by barricades until the concrete has been poured, cured and backfilled.

## 6 SPECIFICATIONS FOR REPLACEMENT OF WALKS

### 6.1 General

This work shall consist of concrete walkway construction in accordance with these specifications and in close conformity with the lines and grades of the existing sidewalks being replaced unless other lines and grades are established by the City Engineering Department. The Property Owner shall obtain a Sidewalk Permit, if they are doing the work or their contractor shall obtain, from the City Engineering Department following receipt of the letter of Notice and the hiring of a contractor. Permit fees will double if the permit is not taken out before the work begins.

### 6.2 Sidewalk Specifications

#### 6.2.1 Sidewalk Sub-Base:

All sidewalk shall be constructed on a granular sub-base material. Topsoil or any other type of unsuitable material will be required to be removed and a minimum of four (4) inches of granular material placed for sub-base. The granular material can consist of either sand or gravel. All sub-base material shall be compacted and moistened prior to placement of concrete.

#### 6.2.2 Sidewalk Forms:

Forms for concrete sidewalks shall be set to the line and grade as established by the City Engineer.

Forms shall be set so as the finished slab shall pitch toward the street ¼” per 1 foot of sidewalk width.

In general, sidewalks 5’-4” wide shall be 4 inches thick. Walks that are constructed at the back of curb and gutter shall have a minimum width of 6’-4”. In places where sidewalks cross existing driveways, the slab shall be 6 inches thick. The entire thickness shall be made in one monolithic pour.

The preferred form material is metal with metal spreaders to maintain full dimensions. The type of form used, whether metal or wood, shall be of proper dimensions to provide the required depth for the full width of the slab. Wood forms shall be of sound lumber. Forms shall be properly anchored and braced to prevent any movement or bowing of the forms during pouring.

Expansions joints of the type specified shall be placed along all curbs or structures, and transversely across the slab at each property line as determined by the Engineer. Joints shall extend for the full depth of the slab.

In addition, transverse control joints shall be scored on the surface of the walk at 5 foot intervals. Scoring shall be done with an approved edging tool of ¼ inch radius. The joints shall be at least 1-inch deep. Sawcutting the joints will be acceptable.

### 6.2.3 Concrete:

Concrete for sidewalks shall be ready mix Portland Cement air entrained concrete. It shall meet the requirements of State Wisconsin Department of Transportation Grade A concrete. The coarse aggregate shall conform entirely to Size No. 1. Ready mix concrete will have a minimum compressive strength of 4000 psi. No other concrete mixes will be allowed.

Concrete shall be mixed with clean water, free from mud, oils, grease, or other deleterious matter. The amount of water used per batch shall be the minimum amount necessary to produce a concrete of workable consistency and in general the amount of water used shall be such that in no batch shall the slump be less than 2" or more than 4".

Re-tempering or remixing of concrete, with or without additional cement, aggregates or water will not be permitted.

### 6.2.4 Placement of Concrete:

All forms shall be inspected by the City's Engineering Department prior to placement of any concrete. All forms, unless oiled, shall be thoroughly wetted. The sub-grade shall also be thoroughly wetted.

Concrete shall be placed immediately after mixing and in no case shall concrete be used which does not reach its final position in the form within one and one half (1-1/2) hours (~~1-1/2~~) after the time that the water is first added to the batch. The method and manner of placing of concrete shall be such as to minimize the possibility of segregation of the aggregate. Concrete re-tempered by adding water, or by any other means, shall not be used.

The placement of concrete shall be as continuous as possible.

Concrete shall be placed in the forms as near to the final position as possible in order to avoid re-handling.

### 6.2.5 Joints:

Dummy groove joints are to be placed at 5-foot intervals as contraction joints. The joints shall be at least one (1) inch deep. The joints can be tooled in or sawcut. In some cases these joints may need to be spaced further or closer apart to fit the existing conditions.

Deviating from the 5-foot joint spacing needs to be approved the City's Engineering Department. In no case shall joint spacing be less than foot intervals.

When making sidewalk repairs, felt joints (1/2 inch asphaltic expansion material) or other materials approved by the City Engineer are required at driveways and ramps, and where other sidewalk sections such as carriage walks meet. Expansion joints shall be of the pre-molded type and not less than 1/2" thick. The joint filler shall consist of cane or other long fibers of cellular nature, uniformly impregnated with asphalt. The asphalt content shall be between 35 and 50 percent by weight.

Expansion joints shall be constructed where walks are built up to the curb, either at crosswalks or in front of private property. A one-half inch (1/2") thick asphalt impregnated fiber expansion joint, the minimum width to be equal to the thickness of the walk, shall be installed between the curb and the walk.

For new sidewalk installation, felt joints are required at driveways, ramps, and carriage walks. Expansion joints will be placed at fifty-foot (50') intervals. In addition, where new walk abuts concrete walks or drives to the curb or to the house, a one-half inch (1/2") expansion joint shall be placed between the new frontage walk and the abutting pavement to the curb and to the house. Where it is necessary to use fractional lengths, they shall be accurately cut and no piece shall be less than thirty inches (30") long.

#### 6.2.6 Surface Finish

The surface of concrete sidewalks shall have a light broom finish parallel to the contraction joints. Care shall be taken that the surface is not over floated. All edges and joints shall be finished with an approved edging tool of 1/4" radius. The light broom finish shall be done before the mortar has set. Coloring, stamping, cutting or placing designs in sidewalks is not permitted except as specified in Section 7 of this Policy.

#### 6.2.7 Curing and Sealing:

The concrete shall be protected following the completion of concrete finishing and throughout the curing period for a minimum of three days. This will prevent the surface from spalling. Waterproof paper blankets, quilted covers, polyethylene coated burlap blankets, polyethylene curing covers, and membrane curing compounds are acceptable for curing.

Concrete needs to cure for a minimum of 7 days before it has enough strength to allow most traffic on it.

#### 6.2.8 Cold Weather Curing

At any time of the year, when the weather forecast for the construction area predicts freezing temperatures or below within the next 24 hours, all concrete placed within the preceding 72 hours shall be covered with curing paper. The paper shall remain in place until at least seven but not more than fourteen days have expired from the date of the placement of the concrete.

Heating of cement will not be permitted. The addition of salt or chemical admixtures to the concrete to prevent freezing will not be permitted.

Concrete shall not be placed on frozen ground.

6.2.9 Concrete Protection

The new concrete shall be protected at all times from damage by pedestrian traffic, vehicle traffic, or other causes.

Barricades shall be erected to keep traffic from the newly constructed sidewalk across driveways for a period of seven days or unless evidence is shown to the City Engineer that the concrete has attained a compressive strength of at least 3,000 pounds per square inch in an earlier period of time.

Any new concrete that has been damaged shall be replaced, at no additional cost to the City.

6.3 Finish Grading And Seeding

After the sidewalk is poured and the forms removed, the ground on each side of the walk shall be graded to the satisfaction of the City Engineer. In general, this will involve cutting away or filling the area between the sidewalk and street or curb to provide for an even slope; also, cutting away or filling the area in back of the sidewalk to a slope not to exceed 3 horizontal to one vertical. The top 3” of any fill necessary shall be of an approved topsoil. All areas, whether cut or fill, shall be sodded or seeded with an approved grass seed and mulched.

6.4 Other Requirements

The property owner shall replace removed walk within fourteen (14) calendar days following its removal. Walk shall be backfilled with topsoil within three (3) calendar days of form removal. Barricades shall remain in place until backfilling is complete.

The construction of sidewalks without forms is prohibited.

The property owner will be required to remove all broken concrete, excess dirt, debris and the like created by his work and dispose of it with his own resources. **Broken concrete, excess dirt, construction debris and the like will not be picked up by City refuse crews.**

**In the case where sidewalk is installed or repaired and does not meet the City of Two Rivers specifications, the City will order the work to be redone and costs shall be assessed against the property as per Section 4-1-4C(e)(2) of the City of Two Rivers Code of Ordinances.**

7 COLORED, STAMPED OR PATTERNED CONCRETE

7.1 Permitted Locations

Colored, stamped or patterned concrete as specified below may be installed in the following designated area and only under the conditions specified.

- 1. The Central Business District  
Defined as the area between Jefferson and Adams Streets extending from 22<sup>nd</sup> Street south to the West Twin River, including parcels fronting along both sides of Jefferson, Adams and 22<sup>nd</sup> Streets.

7.2 Colored Concrete

In an attempt to maintain a uniform appearance, the following conditions shall be met to install colored concrete

1. Colored concrete will only be allowed in terrace areas, and in locations where concrete is allowed in terrace areas per City Ordinance
2. The installation of colored concrete will only be allowed if installed as part of a City directed project or by petition of the property owners of a minimum of one side of an entire block from intersection to intersection and then shall be installed by City contract or by a contractor approved by the Director of Public Works or City Engineer.
3. The color of the concrete shall be approved by the Director of Public Works or City Engineer.
4. All colored concrete installed in the terrace areas shall be stamped/patterned with a design approved by the Director of Public Works or City Engineer.
5. Regular maintenance of the colored stamped concrete shall be required and performed by the adjacent property owner and shall include but not be limited to; semi annual pressure washing and sealing

**7.3 Patterned or Stamped Concrete**

In attempt to maintain a uniform appearance and safe conditions for pedestrians, the following conditions shall be met to install stamped or patterned concrete

1. The installation of stamped or patterned concrete will only be allowed if installed as part of a City directed project or by petition of the property owners of a minimum of one side of an entire block from intersection to intersection and then shall be installed by City contract or by a contractor approved by the Director of Public Works or City Engineer.
2. Stamped patterns will only be allowed in the terrace areas
3. Patterns, such as window pane shall be installed during the finishing process of sidewalk installation and shall not be applied after the concrete has cured.
4. The design of the pattern applied to the concrete sidewalk shall be approved by the Director of Public Works or City Engineer.

**8 SIDEWALK INSPECTION STANDARDS – REFERENCED IN APENDEX A**

Use sidewalk inspection standards – reference exhibits for assistance.

8.1 To aid the determination of need for repair/replacement, the following pages contain exhibits:

8.1.1 The page that is titled “NOTICE TO PROPERTY OWNERS” is intended to summarize each type of criteria for determination of the need to repair/replace a sidewalk section. This notice is sent to property owners who receive notice that they have defective sidewalk.

8.1.2 The page that is titled “SIDEWALK STANDARDS” is intended to summarize the City’s sidewalk standards. This is given to the property owners who choose to repair their own sidewalk or have their own contractor repair the sidewalk.

8.1.3 The page that is titled “DRIVEWAYS” is intended to the City’s standards for constructing sidewalk through a driveway. This is given to the property owners who choose to repair their own sidewalk or have their own contractor repair the sidewalk.

8.1.4 The page that is titled “SIDEWALK DETAILS” is intended to summarize the City’s sidewalk layout on various street section throughout the City. This is given to the property

owners who choose to repair their own sidewalk or have their own contractor repair the sidewalk.

8.1.5 The page that is titled “TREE ROOTS” is intended to summarize the City’s sidewalk standards as it pertains to sidewalk repairs where damage to the sidewalk is caused by trees. This is given to the property owners who choose to repair their own sidewalk or have their own contractor repair the sidewalk.

**9 SELECTED SECTIONS FROM THE CITY OF TWO RIVERS CODE OF ORDINANCES**

The following are selected references from the City of Two Rivers Code of Ordinances.

**SEC. 4-1-2 OBSTRUCTIONS OF PUBLIC WAYS**

(a) PROHIBITED. No person shall obstruct or encroach upon any street, alley, sidewalk, dock, or wharf or any other public place in the City without the approval of the City Manager, provided goods, wares and merchandise may be loaded and unloaded which do not extend more than three feet on one sidewalk and do not remain thereon more than two hours, unless this is not physically possible.

(b) MOVING BUILDINGS. A permit may be granted under the building code provisions of this Municipal Code to temporarily obstruct a street by the moving of a building thereon.

(c) WIRES OVER PUBLIC WAYS. Except as authorized by the City Manager, no person shall erect a wire, device, equipment over a public right of way.

**SEC. 4-1-4 CONSTRUCTION AND REPAIR OF SIDEWALKS**

(a) WHERE SIDEWALKS REQUIRED.

(1) Concrete sidewalks shall be constructed in the right-of-way as set forth herein where the following conditions exist:

- a. Along the street or streets adjacent to a lot on which a building is constructed.
- b. On both sides of a public street in blocks where at least seventy five percent (75%) of the lots are developed or seventy five percent (75%) of the frontage is on lots that are developed.
- c. At other locations along public streets, irrespective of whether the abutting or surrounding lands have been improved, whenever in the judgment of the City Council and safety and welfare of the public requires it.

(b) EXEMPTIONS.



(1) Other than where sidewalks are ordered by the Council, the following exemptions to the sidewalk requirement are established:

- a. Vacant land extending outward to the City limits, and any vacant land where there are no developed lots for five hundred (500) feet or more and lands which extend to the City limits and are utilized for commercial or industrial purposes.
- b. Areas where land is intermittently in the township and City so as to make impossible the construction of a continuous sidewalk for at least five hundred (500) feet.
- c. Cemeteries, parks, fairgrounds and golf courses.
- d. Outlying industrial zones where workers generally reach their place of employment by motor vehicle.
- e. On sides of streets where there are no buildings fronting or there is no destination for pedestrian traffic (e.g., park, school).
- f. The Director of Public Works is empowered to exempt properties from such construction when upon investigation he determines that sidewalk construction is physically impossible due to the following circumstances:
  - 1. Nature of terrain.
  - 2. Insufficient right-of-way.
  - 3. Insurmountable engineering problems.
  - 4. Safety hazards that would arise by encouraging pedestrian traffic in dangerous areas such as along railroad tracks.
- g. On streets or parts of streets where in the opinion of the City Council the need for sidewalk does not exist.

(c) LOCATION AND CONSTRUCTION.

(1) The property owner or his agent shall obtain from the City Engineer the necessary location and grade upon which the sidewalk is to be built, the construction standards to use, and the sidewalk shall be constructed to meet the specifications provided.

(2) If the property owner fails to construct a sidewalk as required, the City will cause the work to be done and the cost shall be assessed against the property.

(3) The Director of Public Works may delay construction of a sidewalk temporarily until the time of street construction when the street is expected to be scheduled

for improvement in the future and when such delay would be necessary or desirable from an engineering standpoint.

(d) TIMING OF INSTALLATION.

(1) All properties shall be brought into conformance with this section within six months of its adoption.

(2) Sidewalks shall be constructed as required within six months of the completion of any new building or at any time upon reaching level of development set forth in this Section, or within six months of an order to install a sidewalk unless a shorter period is specified.

(3) Upon annexation of new areas all affected properties will be brought into conformance within six months of their annexation.

(e) VARIANCE. The Council is empowered to hear and decide requests for temporary variances to the sidewalk requirements where, owing to special conditions peculiar to a specific lot or tract of land, a literal enforcement will result in practical difficulty or unnecessary hardship, so that the spirit of the Section shall be observed, public safety and welfare secured and substantial justice done. A public hearing shall not be required and there is no fee for the review. If a temporary variance is granted, the minutes shall clearly show in what particular and specific respects an unnecessary hardship or practical difficulty has been established. The Council may cancel temporary variance when conditions change, removing the reason for the variance, or where other compelling factors are found to exist.

(f) MAINTENANCE. Property owners shall maintain their sidewalks in good repair and in a safe condition. If the property owner fails to maintain a sidewalk as required, the City will cause the work to be done and the cost shall be assessed against the property. (Proposed revision/alteration)

(g) PERMIT REQUIRED.

(1) No person shall repair, replace or construct any sidewalk in the City without first obtaining a permit to do so from the Director of Public Works or his authorized representative.

(2) Applicant shall be required to pay a fee for such permit. See Schedule of Fees in Title 1 for fee amount.

**SEC. 4-1-6 SNOW AND ICE REMOVAL**

The owner of every building, lot or part of a lot within the City fronting upon a public sidewalk shall remove or cause to be removed all snow and ice from such sidewalk within 24 hours from the time when the snow ceases to fall. If such snow or ice is not removed, the City Manager may cause such to be removed and shall report the cost of such removal to the City Clerk-Treasurer who shall insert such cost in the tax roll as a special tax and lien against the premises.

**SEC. 4-1-7 TRAP DOORS**

(a) **APPROVAL REQUIRED.** No trap door or opening in any sidewalk shall be permitted to extend beyond the lot line into the highway right-of-way unless approval shall have been obtained from the City Engineer.

(b) **CONSTRUCTION OF SIDEWALK OPENINGS.** All trap doors and openings in sidewalks shall be substantially constructed and no portion of the same shall extend unnecessarily above the level of the sidewalk.

(c) **REMOVAL FOR NONCOMPLIANCE.** If the owner of such trap door or opening in sidewalk, shall fail to apply for such approval, or if the same does not comply with standards established by the Department of Public Works, he shall be obliged to remove such trap door or sidewalk opening upon ten (10) days notice from the City Engineer and such owner shall not be entitled to any damages on account of such removal; and if he shall not remove it upon due notice, it shall be removed at the applicant's expense by the City and the cost assessed against the property.

**SEC. 4-1-10 REGULATION OF TERRACE AREAS**

(b) **NOXIOUS WEEDS; PAVING.** All that part of the terrace not covered by sidewalk shall be kept free and clear of all noxious weeds and rank growth and shall not be paved, surfaced or covered with any material which shall ultimately prevent the growth of plants. Existing paved or surfaced areas will be permitted to remain. Except where there is no curbing, the part of the terrace not covered by a sidewalk shall be maintained as a lawn, other than areas specifically approved in writing by the City Manager or his designee where maintenance of a lawn is not feasible.

# APPENDIX

1. Notice to Property Owners
2. Sidewalk Standards
3. Driveways
4. Sidewalk Details
5. Tree Roots



**TWO  
RIVERS**  
WISCONSIN

**PUBLIC WORKS**

Engineering Division  
1717 E. Park Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087



The City of Two Rivers has established standards for the construction of public sidewalks on public street right-of-way. If a sketch titled "Sidewalk Details" is included with this letter, use that sketch. The sketch explains how to measure from an existing curb to locate your sidewalk. If curb doesn't exist, grade stakes are placed by this office and indicate the location and height of the sidewalk as follows:

- The near edge of the walk is to be 20 inches from the line of these stakes.
- The grade as marked indicates how far below or above the top of the stake the finished surface of the walk is to be placed. The letter "C" means cut or below and "F" means fill or above the top of the stake.

The City will construct curb ramps and sidewalk corner sections. Please notify this office when the adjacent sidewalk is completed.

The construction specifications for the sidewalk are:

1. Width shall be 5 feet 4 inches.
2. Thickness shall be 4 inches. Thickness in driveway sections of sidewalk shall be 6 inches.
3. The sidewalk shall be pitched down towards the street 1-1/4 inches across the width (1/4 inch per foot).
4. Where tree roots have caused damage to sidewalk, roots must be removed before placing of new sidewalk. SEE ATTACHED INFORMATION REGARDING REMOVAL OF TREE ROOTS.
5. The sub-base under the concrete shall consist of a minimum of 2-inch granular base (sand or gravel) which has been compacted and moistened prior to placement of the concrete.
6. Ready-mix Portland Cement air-entrained concrete is to be used. It shall meet the requirements of State of Wisconsin Department of Transportation Grade A concrete. The coarse aggregate shall conform entirely to Size No. 1.
7. Dummy groove joints are to be placed at 5-foot intervals as contraction joints. The joints shall be at least 1 inch deep.



[www.two-rivers.org](http://www.two-rivers.org)



920.793.5539



920.793.5537

8. When making sidewalk repairs, felt joints (2-inch asphaltic expansion material) are required at driveways and ramps as shown on the attached drawing, and where other sidewalk sections such as carriage walks meet. For new sidewalk installations, felt joints are required at driveways, ramps, and carriage walks. Felt joints are also required every 50 feet.
9. Before the mortar has set, the surface of the new sidewalk shall be brushed or lightly broomed.
10. As soon as the concrete has set sufficiently, it shall be covered with plastic, burlap, or approved curing compound to allow the concrete to cure instead of drying out. This will prevent the surface from spalling. The concrete shall remain covered for 3 days.
11. In the case where a sidewalk is installed or repaired and does not meet City of Two Rivers specifications, the City will order the work to be redone and costs shall be assessed against the property as per Section 4-1-4(c)(2) of the City of Two Rivers Code of Ordinances.

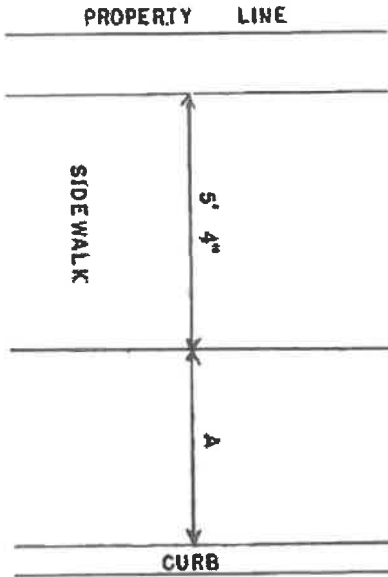
After 7 days, concrete should achieve enough strength to be opened to most traffic.

If you have any questions, please call the Engineering Office at 793-5539.

City of Two Rivers  
James J. Mc Donald, P.E.  
City Engineer / Director of Public Works

## **SPECIFICATIONS FOR CONCRETE WALKS AND DRIVE APPROACHES**

**TREE ROOTS:** Tree roots that have raised a sidewalk slab to be replaced shall be cut by the Contractor/Homeowner at six (6) inches outside of the sidewalk area, using a root cutting machine. Cuts shall be made perpendicular to the length of root and shall be done in a manner so as not to splinter the wood. Cutting depth is not to exceed nine (9) inches from the proposed sidewalk surface. All roots within two inches of the bottom of the proposed sidewalk must be removed. The Contractor/Homeowner shall make every effort to safeguard and preserve all trees and tree roots.



TABLE

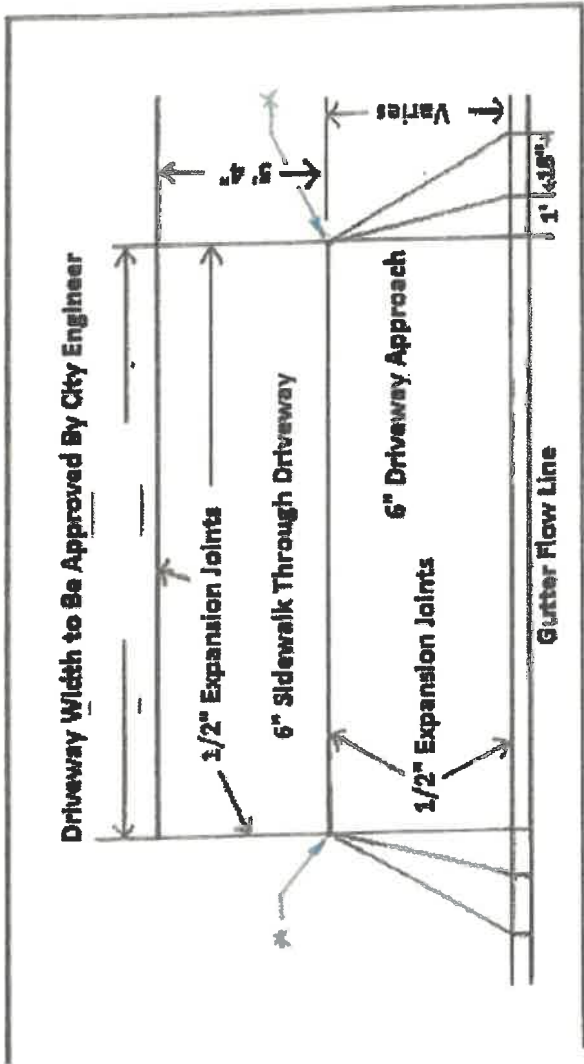
PAVEMENT	ROW	A	B
30	60	7' 6"	2"
32	60	6' 6"	1-3/4"
36	60	4' 6"	1-1/4"
36	66	7' 6"	2"
40	66	5' 6"	1-1/2"
44	66	3' 6"	1"

NOTE: 45th Street and north of 45th Street  
 Increase "A" by 1' and "B" by 1/4"



**SIDEWALK DETAILS**  
 CITY OF TWO RIVERS





**Sec. 4-1-4. Construction and repair of sidewalks.**

- (a) *Where sidewalks required.* Concrete sidewalks shall be constructed in the right-of-way as set forth herein where the following conditions exist:
  - (1) Along the street or streets adjacent to a lot on which a building is constructed.
  - (2) On both sides of a public street in blocks where at least 75 percent of the lots are developed or 75 percent of the frontage is on lots that are developed.
  - (3) At other locations along public streets, irrespective of whether the abutting or surrounding lands have been improved, whenever, in the judgment of the city council, the safety and welfare of the public requires it.
  
- B. *Exemptions.* Other than where sidewalks are ordered by the council, the following exemptions to the sidewalk requirement are established:
  - (1) Vacant land extending outward to the city limits, and any vacant land where there are no developed lots for 500 feet or more and lands which extend to the city limits and are utilized for commercial or industrial purposes.
  - (2) Areas where land is intermittently in the township and city so as to make impossible the construction of a continuous sidewalk for at least 500 feet.
  - (3) Cemeteries, parks, fairgrounds and golf courses.
  - (4) Outlying industrial zones where workers generally reach their place of employment by motor vehicle.
  - (5) On sides of streets where there are no buildings fronting or there is no destination for pedestrian traffic (e.g., park, school).
  - (6) The director of public works is empowered to exempt properties from such construction when, upon investigation, he determines that sidewalk construction is physically impossible due to the following circumstances:
    - (a) Nature of terrain.
    - (b) Insufficient right-of-way.
    - (c) Insurmountable engineering problems.
    - (d) Safety hazards that would arise by encouraging pedestrian traffic in dangerous areas, such as along railroad tracks.
  - (7) On streets or parts of streets where, in the opinion of the city council, the need for sidewalk does not exist.
  
- C. *Location and construction.*
  - (1) The property owner or his agent shall obtain from the city engineer the necessary location and grade upon which the sidewalk is to be built and the construction standards to use; the sidewalk shall be constructed to meet the specifications provided.

- (2) If the property owner fails to construct a sidewalk as required, the city will cause the work to be done and the cost shall be assessed against the property.
- (3) The director of public works may delay construction of a sidewalk temporarily until the time of street construction, when the street is expected to be scheduled for improvement in the future and when such delay would be necessary or desirable from an engineering standpoint.

D. *Timing of installation.*

- (1) All properties shall be brought into conformance with this section within six months of its adoption.
- (2) Sidewalks shall be constructed as required within six months of the completion of any new building or at any time upon reaching the level of development set forth in this section, or within six months of an order to install a sidewalk, unless a shorter period is specified.
- (3) Upon annexation of new areas, all affected properties will be brought into conformance within six months of their annexation.

E. *Variance.* The council is empowered to hear and decide requests for temporary variances to the sidewalk requirements where, owing to special conditions peculiar to a specific lot or tract of land, a literal enforcement will result in practical difficulty or unnecessary hardship, so that the spirit of this section shall be observed, public safety and welfare secured and substantial justice done. A public hearing shall not be required, and there is no fee for the review of the request. If a temporary variance is granted, the minutes shall clearly show in what particular and specific respects unnecessary hardship or practical difficulty has been established. The council may cancel a temporary variance when conditions change, removing the reasons for the variance, or where other compelling reasons are found to exist.

F. *Maintenance.* ~~Property owners shall maintain their sidewalks in good repair and in a safe condition. If the property owner fails to maintain a sidewalk as required, the city will cause the work to be done and the cost shall be assessed against the property.~~ (Original Ordinance Language)

- (1) (November 18, 2024 proposed language) Property owners shall maintain their sidewalks in good repair and in a safe condition. Maintenance required of property owners shall include, but not be limited to, the following:
  - (a) ~~Clearing the full width of the sidewalk adjacent to the property of any ice or snow, pursuant to Sec. 4-1-6.~~
  - (b) Clearing and edging of the sidewalk so as to completely remove any sediment, plant material, rock, or other obstructions which reduce the visible surface of the sidewalk to a width of less than ninety percent (90%) of the sidewalk.
  - (c) Repair or replacement of any portions of sidewalk adjacent to the property where the difference in elevation between two pieces of sidewalk is equal to or greater than three quarters (3/4) inches, whether two different sections of sidewalk or two parts of one section of sidewalk. **Changes in elevation between**

two sidewalk pieces are between one quarter (1/4) and one half (1/2) inch shall require that the offset be beveled (~~Federal Register Vol 88, No. 151 discussion purposes~~) or other corrective action taken. Such differentials between sections adjacent to two different properties shall be the joint and several responsibilities of both property owners.

- (d) ~~Up to a height of at least eight (8) feet above the sidewalk, clearing any objects, building encroachments, or plant material, including bushes or the branches of trees, which do or may obstruct the airspace above the sidewalk pursuant to Section 7-4-9.B(3).~~
  - (e) Any other maintenance or repair deemed reasonable and necessary by the Public Works Director if notice of the same is served upon the property owner by sending a written notice by first class mail, containing an outline of remedial action which, if taken, will affect compliance with this section, and giving the property owner at least twenty (20) days after mailing in which to comply. If the property owner or their agent is personally served, the remediation time may be shortened to a reasonable time, at the discretion of the Public Works Director, to take the prescribed action.
- (2) If a property owner fails to maintain a sidewalk as required, the city will cause the work to be done and the cost shall be assessed against the property.

G. *Permit required.*

- (1) No person shall repair, replace or construct any sidewalk in the city without first obtaining a permit to do so from the director of public works or his authorized representative.
- (2) Applicant shall be required to pay a fee for such permit. See chapter 1-2, fees, for fee amount.

**ORDINANCE**

An Ordinance to amend Section 4-1-4 of the Municipal Code of the City of Two Rivers, Wisconsin, regulating Construction and Repair of Sidewalks within the City, based on the recommendation of the Public Works Director:

The Council of the City of Two Rivers, Wisconsin, ordains as follows:

**SECTION 1.** Section 4-1-4.F. of the Municipal Code of the City of Two Rivers, Wisconsin is hereby amended and shall now read as follows:

“Section 4-1-4. - Construction and Repair of Sidewalks.”

F. *Maintenance.*

- (1) Property owners shall maintain their sidewalks in good repair and in a safe condition. Maintenance required of property owners shall include, but not be limited to, the following:
  - (a) Clearing and edging of the sidewalk so as to completely remove any sediment, plant material, rock, or other obstructions which reduce the visible surface of the sidewalk to a width of less than ninety percent (90%) of the sidewalk.
  - (b) Repair or replacement of any portions of sidewalk adjacent to the property where the difference in elevation between two pieces of sidewalk is equal to or greater than three quarters (3/4) inches, whether two different sections of sidewalk or two parts of one section of sidewalk. Changes in elevation between two sidewalk pieces are between one quarter (1/4) and one half (1/2) inch shall require that the offset be beveled or other corrective action taken. Such differentials between sections adjacent to two different properties shall be the joint and several responsibilities of both property owners.
  - (c) Any other maintenance or repair deemed reasonable and necessary by the Public Works Director if notice of the same is served upon the property owner by sending a written notice by first class mail, containing an outline of remedial action which, if taken, will affect compliance with this section, and giving the property owner at least twenty (20) days after mailing in which to comply. If the property owner or their agent is personally served, the remediation time may be shortened to a reasonable time, at the discretion of the Public Works Director, to take the prescribed action.
- (2) If a property owner fails to maintain a sidewalk as required, the city will cause the work to be done and the cost shall be assessed against the property.

**SECTION 2.** This ordinance shall take effect and be enforced from and after the date of its passage and publication.

Adopted by the Council of the City of Two Rivers, Manitowoc County, Wisconsin this \_\_\_\_ day of \_\_\_\_\_, 2025.

\_\_\_\_\_  
Scott Stechmesser  
President, City Council

\_\_\_\_\_  
Gregory E. Buckley  
City Manager

Attest:

\_\_\_\_\_  
Amanda Baryenbruch, City Clerk

Approved as to form and legality:

\_\_\_\_\_  
Sean P. Griffin  
City Attorney



**TWO  
RIVERS**  
WISCONSIN

**PARKS AND RECREATION**

Section 11, Item D.

1520 17<sup>th</sup> Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087

Dear Two Rivers City Council Members,

The Parks and Recreation Department is excited to be in the process of developing a new community event called the Great Neshotah Beach Campout for August 30<sup>th</sup>, 2025. This will be a one-of-a-kind event through which we will deepen the connection of our residents to Neshotah Beach and raise funds for a worthy charitable cause.

It has come to the attention of City staff and council members that an individual has taken a stance towards the event that it will, "set a precedent by which anyone will be able to campout at the beach." I am writing to provide you with more background and details about the event so that you can be fully informed as we discuss the event.

#### **Event Details:**

- **Event Name:** The Great Neshotah Beach Campout
- **Organizing Entity:** Two Rivers Parks and Recreation
- **Date:** Saturday, August 30, 2025 – Sunday, August 31, 2025
- **Rain Date:** Sunday, August 31, 2025
- **Location:** Neshotah Beach, Two Rivers, WI
- **Registration Fee:** Pre-registration \$30 per family (includes 2 breakfast tickets), \$40 on-site registration, \$5 for additional breakfast tickets
- **Alcohol Policy:** No alcohol will be served or permitted at the event.
- **Check-in Start:** 6:00 PM
- **Lights Out:** 11:00 PM
- **Check-out Time:** 10:00 AM

#### **Purpose and Community Benefits:**

The Great Neshotah Beach Campout is a family-friendly, community-driven event designed to celebrate National Beach Day while fostering local engagement with Two Rivers' natural resources. It is likely that many attendees at this event will be Two Rivers families or families from nearby communities. This audience has been identified by City staff and elected officials as important to driving growth and community identity in Two Rivers.



[www.two-rivers.org](http://www.two-rivers.org)



920.793.5593



920.793.5512



**TWO  
RIVERS**  
WISCONSIN

**PARKS AND RECREATION**

Section 11, Item D.

1520 17<sup>th</sup> Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087



The event will also support a worthy charitable cause specific to Two Rivers. Proceeds from the event will benefit the Two Rivers Public Schools Angel Fund, which provides critical support to local families, including groceries, transportation assistance, winter clothing, school supplies, and medical necessities. This event directly benefits residents of Two Rivers.

### **Event Operations & Oversight:**

Parks and Recreation will assume full responsibility for the organization and operation of the campout. The event will be registration-based, ensuring controlled attendance and accountability. Key local organizations, including the Two Rivers Rotary, Two Rivers Public Schools, Two Rivers Historical Society, Two Rivers Cub Scouts, and Two Rivers Optimist Club, are partnering to support the event's success. The Parks and Recreation Department will manage all trash and clean-up for the event, ensuring the beach is restored to its normal condition in time for the beach to be groomed the next day. In addition, the Parks and Recreation Director will be onsite all night for the campout. Other Parks and Recreation team members will be available during the evening and the morning to support set-up and clean-up.

### **Activities & Programming:**

- **Live Music:** Family-friendly entertainment at the Rotary Pavilion
- **Campfire & S'mores:** Supervised community gathering with storytelling
- **Astronomy Adventures:** Educational night sky exploration
- **Sports & Games:** Various activities organized by Parks and Recreation
- **Storytelling & Ghost Stories:** Hosted by local experts
- **Concessions:** Drinks, and snacks available from the beach concession stand
- **Ice Cream:** Made available by the Two Rivers Historical Society
- **Sunrise Yoga:** Morning relaxation and mindfulness session
- **Breakfast:** Breakfast sandwiches and drinks served by the Optimist Club

### **Addressing Concerns About Precedent:**

There is no obligation to allow other groups to camp on the beach due to this event. Parks and Recreation, a city department with direct oversight of Neshotah Beach, is leading and managing this event, ensuring compliance with regulations



[www.two-rivers.org](http://www.two-rivers.org)



920.793.5593



920.793.5512





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**PARKS AND RECREATION**

Section 11, Item D.



1520 17<sup>th</sup> Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087

and maintaining the integrity of city property. No other organizations will be permitted to host similar events without city approval, and Parks and Recreation does not intend to collaborate with external entities for additional beach campouts.

City ordinance grants the City Council or the City Manager the ability to authorize temporary changes to our ordinance to allow cars and/or people to be in the park after 11:00 pm. The City Council and/or the City Manager simply do not have to grant permission for any future requests for outside entities to host campouts.

**Conclusion:**

The Great Neshotah Beach Campout is a controlled, family-focused event designed to enrich the community, promote engagement with our local parks, and support a meaningful cause. With structured oversight, strong community backing, and a clear operational plan, this event represents an opportunity for Two Rivers residents to celebrate their beach in a safe and responsible manner. We kindly seek the City Council's approval to proceed with this valuable initiative.

Sincerely,

Mike Mathis

Director of Parks and Recreation

City of Two Rivers

1520 17<sup>th</sup> St. PO Box 87

Two Rivers, WI 54241

920-793-5592



[www.two-rivers.org](http://www.two-rivers.org)



920.793.5593



920.793.5512



March 12, 2025

Dear Two Rivers City Council Members,

**Subject:** Support for the Great Neshotah Beach Campout

As a service organization dedicated to supporting the youth and families of Two Rivers, the Optimist Club is excited to lend our support to the Great Neshotah Beach Campout, an event that will bring our community together for a fun, family-oriented experience.

Organized by the Two Rivers Parks and Recreation Department, this event offers a unique opportunity for local families to enjoy Neshotah Beach in a way that fosters a stronger connection to our shared public spaces.

Our club is proud to be actively involved by preparing and serving breakfast to campout participants on the morning of August 31. We see this as more than just a meal—it’s a way to start the day together as a community, reinforcing the values of, service, togetherness, and appreciation for the beautiful natural spaces that make Two Rivers special.

Beyond the experience itself, this event will raise funds for the Two Rivers Public Schools Angel Fund, which provides critical assistance to local students and families.

The Optimist Club has always believed in supporting initiatives that directly improve the lives of young people, and we see this as a meaningful way to contribute to that mission.

We appreciate the careful planning and oversight provided by the Parks and Recreation Department, ensuring that this event will be both well-organized and beneficial to the community. We respectfully ask for your support in approving this event, recognizing the positive impact it will have on local families, the public-school community, and the spirit of Two Rivers as a whole.

Thank you for your time and consideration. We look forward to playing our part in making the Great Neshotah Beach Campout a successful and memorable event.

Sincerely,

*Judy Goodchild*, President

Two Rivers Optimist Club

[goodchildmom@gmail.com](mailto:goodchildmom@gmail.com)





PO Box 272  
Two Rivers, WI 54241

Dear Two Rivers City Council Members,

On behalf of the Rotary Club of Two Rivers, I am writing to express our support for the Great Neshotah Beach Campout, a family-focused event being organized by the Two Rivers Parks and Recreation Department. This event will provide an opportunity for families to enjoy an evening of outdoor recreation, community connection, and support for a worthy cause—all while celebrating the beauty of Neshotah Beach.

As an organization dedicated to service and community engagement, the Rotary Club is proud to contribute to the success of this event by volunteering to manage the check-in and registration table, as well as assisting with set-up. We believe that events like this are essential in fostering civic pride and encouraging families to experience all that our local parks and natural spaces have to offer.

Additionally, we fully support the event's fundraising efforts for the Two Rivers Public Schools Angel Fund, which provides crucial support to local families in need. By participating in the Great Neshotah Beach Campout, we are not only helping create a memorable event but also ensuring that children and families in our community receive essential assistance such as food, transportation, winter clothing, school supplies, and medical care.

We commend the Parks and Recreation Department for their thoughtful planning and commitment to ensuring a safe and well-organized event. With structured oversight, strong community partnerships, and a clear focus on inclusivity and local engagement, this campout will be a meaningful experience for all involved.

We encourage the City Council to support and approve this event, recognizing the positive impact it will have on our community. The Rotary Club of Two Rivers is excited to play a role in making it a success and looks forward to seeing families come together for this unique and enriching experience.

Sincerely,

A handwritten signature in black ink that reads "Dennis J. Swartz, President". The signature is written in a cursive style with a long horizontal line extending from the end.

Two Rivers Rotary Club



**Two Rivers Public School District**

Administration Office 4521 Lincoln Ave Two Rivers, WI 54241 (920) 793-4560

Two Rivers City Council  
1717 E. Park St.  
Two Rivers, WI 54241

**Letter of Support for the Great Neshotah Beach Campout**

Dear Two Rivers City Council Members,

On behalf of the Two Rivers Public School District, we enthusiastically support the Great Neshotah Beach Campout, a community-driven initiative led by the Two Rivers Parks and Recreation Department. Scheduled for August 30, 2025, this event offers a fantastic opportunity to bring our community together, promote outdoor recreation, and contribute to a meaningful cause that benefits children in the district.

A vital component of this event is its support for the Angel Fund, a district fund which provides assistance to local children and families in need. From groceries and transportation to winter clothing, school supplies, and toiletries, this fund plays a crucial role in ensuring that every child has the necessary resources.

Beyond its charitable benefits, the Great Neshotah Beach Campout is a family-friendly experience that celebrates our city's natural beauty while strengthening community connections. Thoughtfully organized with structured activities, safety oversight, and collaboration with local organizations—including Two Rivers Public School District—this event is poised to be both enjoyable and impactful.

We commend the Parks and Recreation Department for their dedication to making this event a success and encourage the City Council to approve and support this initiative. Its positive contributions to community spirit, family engagement, and local pride will be significant to the residents of Two Rivers.

Thank you for your time and consideration. We look forward to seeing this event bring joy to families and the community.

Sincerely,

Diane Johnson, Superintendent  
diane.johnson@trschoools.k12.wi.us  
920-793-4560

**CURRENT ORDINANCE**

**HIGHLIGHTED TO BE CHANGED**

**Sec. 6-4-9. - Vendors from special vehicles.**

D. *Hours of operation.* No vehicle used by a vendor shall be operated for the purpose of sales prior to **8:00** a.m. and later than one-half hour after sunset, provided that the city council may make an exception to the requirement for special events.

E. *Limitations.* Except as expressly provided herein, no product shall be dispensed by vendors on Washington Street between the north curblineline of 22nd Street to the south curblineline of 12th Street, on 22nd Street between the west curblineline of Forest Avenue to the east end of 22nd Street at Neshotah Road, Pierce Street between 22nd Street to Zlatnik Drive, 21st Street between Pierce Street and Garfield Street or any part of Zlatnik Drive. This prohibition shall not apply in the case of any special event taking place on Washington Street, 22nd Street, Pierce Street or Zlatnik Drive or authorized by the city council.

No product shall be dispensed by vendors at any park as defined in [section 7-1-7](#) without being previously authorized by the parks and recreation director or at any special event with exception to the terms and provisions of [sections 6-4-3](#) of this Code. **With authorization of the parks and recreation director, a vendor may sell from parking lots number one and five adjacent to Zlatnik Drive or designated lot at Walsh Field but may only be parked in the same manner and at the same places designated for the parking of motor vehicles.**

**REPLACEMENT FOR LAST SENTENCE**

A vendor may apply for a seasonal permit from the Parks and Recreation Department to operate from Parking Lot 1 at Neshotah Beach. The seasonal permit fee is two hundred fifty dollars (\$250) for the vendor to park one vehicle in an area designated by the parks and recreation director in Lot 1 and is valid from one week prior to Memorial Day through one week following Labor Day. Permit fees will not be pro-rated. The vehicle must be parked entirely within the area designated in said permit, at the far south end of Parking Lot 1, and vending from any other beach parking lot is strictly prohibited. The permit must be displayed at all times when in Parking Lot 1.

The parks and recreation director may limit the number of seasonal permits issued. The Parks and Recreation Director may establish “black-out dates” when vendors are not permitted to operate or park in Lot 1, and these dates shall be provided to the permittee at the time of permit issuance. The designated vending area in Parking Lot 1 is available on a first-come, first-served basis for permit holders. Vendors may also park in

the Walsh Field parking lot on 22<sup>nd</sup> Street without a seasonal permit, provided they park in the same manner designated for all motor vehicles.

**ORDINANCE**

**AN ORDINANCE** to amend Section 6-4-9 of the Municipal Code, entitled “Vendors from Special Vehicles” to modify permitted hours of operation and to modify limitations regarding operation on certain city streets, in parks and at Neshotah Beach.

The Council of the City of Two Rivers ordains as follows:

**SECTION 1.** Subsection 6-4-9 D, “Hours of Operation,” is hereby repealed and recreated to read as follows:

*D. Hours of operation.* No vehicle used by a vendor shall be operated for the purpose of sales prior to 8:00 a.m. and later than one-half hour after sunset, provided that the city council may make an exception to the requirement for special events.

**SECTION 2.** Subsection 6-4-9 E, “Limitations,” is hereby repealed and recreated to read as follows:

*E. Limitations.* Except as expressly provided herein, no product shall be dispensed by vendors on Washington Street between the north curblineline of 22nd Street to the south curblineline of 12th Street, on 22nd Street between the west curblineline of Forest Avenue to the east end of 22nd Street at Neshotah Road, Pierce Street between 22nd Street to Zlatnik Drive, 21st Street between Pierce Street and Garfield Street or any part of Zlatnik Drive. This prohibition shall not apply in the case of any special event taking place on Washington Street, 22nd Street, Pierce Street or Zlatnik Drive or authorized by the city council.

No product shall be dispensed by vendors at any park as defined in Section 7-1-7 without being previously authorized by the parks and recreation director or at any special event with exception to the terms and provisions of Sections 6-4-3 of this Code.

A vendor may apply for a seasonal permit from the Parks and Recreation Department to operate from Parking Lot 1 at Neshotah Beach. The seasonal permit fee is two hundred fifty dollars (\$250) for the vendor to park one vehicle in an area designated by the parks and recreation director in Lot 1 and is valid from one week prior to Memorial Day through one week following Labor Day. Permit fees will not be pro-rated. The vehicle must be parked entirely within the area designated in said permit, at the far south end of Parking Lot 1, and vending from any other beach parking lot is strictly prohibited. The permit must be displayed at all times when in Parking Lot 1.

The parks and recreation director may limit the number of seasonal permits available. The Parks and Recreation Director may establish “black-out dates” when vendors are not permitted to operate or park in Lot 1, and these dates shall be provided to the permittee at the time of permit issuance.

The designated vending area in Parking Lot 1 will be available on a first-come, first-served basis for permit holders. Vendors may also park in the Walsh Field parking lot on 22<sup>nd</sup> Street without a seasonal permit, provided they park in the same manner designated for all motor vehicles.

**SECTION 3.** This ordinance shall take effect and be in force from and after its date of passage and publication of same.

Dated this 17<sup>th</sup> day of March, 2025.

\_\_\_\_\_  
Scott Stechmesser  
President, City Council

\_\_\_\_\_  
Gregory E. Buckley  
City Manager

Attest:

\_\_\_\_\_  
Amanda Baryenbruch  
City Clerk

Approved as to form and legality:

\_\_\_\_\_  
Sean Griffin  
City Attorney





**TWO RIVERS**  
WISCONSIN

### Committee Volunteer Application

If you reside in the City of Two Rivers and wish to be appointed to a citizens Committee, Commission, or Board please complete the following application and return to the City Manager's Office, P.O. Box 87, Two Rivers, WI, 54241-0087

Name (Last, First, Middle): POWALISZ JACK JOSEPH

Home Address: 414 HIGHLAND COURT

Phone: 920.973.1882 Email: JACKPOWALISZ@YAHOO.COM

Employer/Business: CITY OF TWO RIVERS

Employer Address: 1710 W. PARK STREET

Occupation: RECREATION COORDINATOR

Which Committee, Commission, or Board do you wish to serve on?  
LIBRARY BOARD

Do you have any special skills, knowledge, experience, or interest that relates to the above Committee, Commission, or Board?

CITY COUNCIL MEMBER 2014-2019

ADVISORY REC BOARD 2014-2019

PUBLIC UTILITIES BOARD 2014-2016

PERSONNEL & FINANCE BOARD 2016-2019

Do you have any conflict of interest related to the Committee, Commission, or Board for which you are applying (such as employed relatives, business or financial conflicts, etc.)?

NO

*Jack Powalisz*  
 Signature

2-12-25  
 Date



**TWO  
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Section 11, Item G.

**CITY CLERK**

1717 E. Park Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087

March 13, 2025

Mr. Kenneth R Sippel  
4708 Hwy 147 W  
Maribel, WI 54227

Dear Kenneth,

Your sex offender residency appeal was received on March 3, 2025. Following review by our Police Department, your request, along with a recommendation for denial of your request by our Police Department, is being forwarded to the City Council for action at their meeting on Monday, March 17, 2025. You are welcome to attend this meeting in which Council may choose to allow you and/or your legal counsel to speak regarding your request.

The meeting will take place at:

Lester Public Library  
Community Room  
1001 Adams Street  
Two Rivers, WI 54241

The meeting starts at 6:00 PM. A meeting agenda will be posted at <https://www.two-rivers.org/meetings> no later than Friday, March 14, 2025.

Sincerely,

Amanda Baryenbruch  
City Clerk/Human Resources Director

Enclosures: 03/03/2025 Memo from Police Chief Meinnert



**Police Department**  
**1717 East Park Street**  
**Post Office Box 87**  
**Two Rivers, WI 54241-0087**

EMERGENCY DIAL .....911  
Non-Emergency Police Response.....(920)686-7200

Police Business Office.....(920)793-1191  
Mon.-Fri. 7:00 a.m. to 4:30 p.m.

Fax .....(920) 793-5500  
Email .....trpolice@two-rivers.org

**TO:** Amanda Baryenbruch, City Clerk  
**FROM:** Chief Ben Meinnert  
**DATE:** March 3, 2025  
**SUBJECT:** Sex Offender Residency Appeal

On January 9<sup>th</sup>, Stacie Erdman (Sippel) spoke with Detective Lieutenant Glaser regarding our Sex Offender ordinance restrictions. Erdman was interested in purchasing a house in order to reside in Two Rivers together with Sippel, but wanted to make sure he could with his sex offender status.

Detective Lieutenant Glaser investigated the circumstances and followed up with a phone call to Erdman later in the week. Det Lieutenant Glaser found that Sippel was convicted on August 14, 2002 for one count of **3<sup>rd</sup> Degree Sexual Assault of a Child § 940.225(3)** after pleading guilty. Mr. Sippel is not currently under Department of Corrections Division of Community Corrections Supervision, but he is on the sex offender registry until January 10, 2029

Based on **Ordinance 9-9-3 Domicile Restrictions**, Sippel does not fall under any of the exemptions for allowing an offender to reside within the city of Two Rivers. Specifically (**Section B**), Sippel did not have an established residence within the City of Two Rivers at the time of conviction, nor is there a residence within the City of Two Rivers where Sippel's parents, grandparents, siblings, spouse or child had established a residence at least five years before he intends to establish a residence in Two Rivers. No other exemptions are applicable.

On 03/03/25, Kenneth Sippel sent a letter to the Two Rivers City Clerk, along with a completed Manitowoc Sex Offender Residency Board Appeal form (included) requesting a waiver of the City of Two Rivers sex offender residency restrictions as outlined in Ord. 9-9. I had telephone contact with Mr. Sippel and confirmed he sent the letter and confirmed he has intentions to request a waiver. Based on Mr. Sippel's sex offense and the fact that he does not meet the criteria for an exception to the residency requirement, Mr. Sippel was advised he would not be permitted to reside within the City of Two Rivers without a waiver approved by City Council.

The Police Department recommends that no waiver or variance of the sex offender residency restriction be granted to Mr. Sippel. This recommendation is based upon the severity of the offense in which he has been convicted, a lengthy criminal history, and the fact Mr. Sippel has not previously resided in the City of Two Rivers, his wife has not resided in the City of Two Rivers, and there is likelihood that affordable housing is available within a jurisdiction where he could reside without being in violation of the law.



**TWO RIVERS**  
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**PUBLIC WORKS**



**Engineering Division**  
1717 E. Park Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087

**Memorandum**

*Department of Public Works*

Date: March 03, 2025

To: Public Utility Committee  
City Council  
Greg Buckley, City Manager

From: Matthew Heckenlaible, PE – Director of Public Works / City Engineer

Re: 2024 Annual WDNR MS4 Report - Summary

As part of the WDNR MS4 permit, the City of Two Rivers is required to prepare, review and submit an annual report of stormwater related activities which identify our progress related to permit requirements and working on improving water quality in the waterways in and around the city.

Parts of the WDNR MS4 permit pertain to:

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Pollutant Control (Erosion Control)
- Post Construction Storm Water Management
- Pollution Prevention
- Minimum Control Measures (Maps), and
- Fiscal Analysis

Since I came on-board in 2022, the EAB educational series is a great addition to promoting awareness towards stormwater improvements. Between the four (4) committees, boards and commissions that I sit on, it is encouraging to hear about the active interest the groups have in learning more about stormwater. These items are identified as part of the Public Involvement and Participation section of the report.

Public Works performed 30 outfall inspections as part of meeting a portion of the IDDE permit requirements and investigated two (2) potential illicit discharges. One was an unknown substance spilled on the parking lot at Vets Park. We spread sand on it and swept it up. The other was the release of diesel fuel that made it's way into a storm catch basin. The catch basin





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**PUBLIC WORKS**



**Engineering Division**

1717 E. Park Street  
P.O. BOX 87  
Two Rivers, WI 54241-0087

sump was deep enough to prevent the fuel from flowing downstream and into the East Twin River. The fuel was removed out of the catch basin and disposed of.

There were several home construction projects that were underway within 2024 including the Roosevelt Avenue Street Reconstruction project and the next phase of Sandy Bay Highlands Subdivision. As part of those construction projects, erosion control inspections were performed to insure that good management practices were installed and maintained during the duration of the project.

Post-Construction Stormwater Management pertains to improving water quality by capturing and ‘treating’ the storm water prior to being discharged into the waters of the State / US. In 2022, the Eggers (20<sup>th</sup> Street) Storm Water Facility (Pond) was substantially completed, providing additional treatment benefits within the City. Final punch list items and appropriate plantings were completed in 2024. Public Works also carried out an inspection of the other nine (9) storm water facilities located throughout the city to ensure that they are still in good working condition.

The Pollution Prevention portion of the permit requires the city to look at our own facilities, such as the public works shop and monitoring implementation of good housekeeping practices to aid in minimizing impacts to storm water prior to discharging to the waters of the State and US. Such practices may include having spill kits for petroleum product spilled on to the ground, aiding in preventing it from entering the storm sewer system and the ability to clean it up. Similarly how we store equipment and materials again trying to minimize the discharge of undesirable materials from entering the storm sewer system.

Street sweeping, leaf collection, storm inlet / catch basin cleaning and minimizing the amount of sand and salt utilized during winter road maintenance (snow plowing) activities are also documented to show that we are again trying to minimize the overall quantity of pollutants from discharging into the waters. Public Works purchased a brine sprayer in 2023 to pretreat the roadways to aid in minimizing salt application and usage.

It also shows that we are providing sufficient financial funds towards meeting our MS4 permit requirements.

Public Works has a paper “draft copy” of the report and attachments that will be included within the electronically submitted annual MS4 Report prior to the end of March. The draft report is available for review at the Engineering counter located on 2<sup>nd</sup> floor of City Hall. Public Works is requesting authorization to sign and submit the report by the end of March to remain in compliance with our WDNR MS4 permit.



# Submittal of Annual Reports and Other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is deleted.

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Form 3400-224(R8/2021)

## Reporting Information :

Will you be completing the Annual Report or other submittal type?  Annual Report  Other

**Project Name:** 2024 Annual Report

**County:** Manitowoc

**Municipality:** Two Rivers, City

**Permit Number:** S050075

**Facility Number:** 31434

**Reporting Year:** 2024

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable?  Yes  No

Please submit grant funded deliverables separately from the annual report.

Please include grant number below. It is available on all grant documents or by contacting your regional NPS coordinator: <https://dnr.wisconsin.gov/topic/Nonpoint/NPScontacts.html>

**Grant Number:**

## Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

### Annual Report

- Review related web site and instructions for [Municipal storm water permit eReporting](#) [Exit Form]
- Complete all required fields on the annual report form and upload required attachments
- Attach the following other supporting documents as appropriate using the attachments tab above
  - Public Education and Outreach Annual Report Summary
  - Public Involvement and Participation Annual Report Summary
  - Illicit Discharge Detection and Elimination Annual Report Summary
  - Construction Site Pollution Control Annual Report Summary
  - Post-Construction Storm Water Management Annual Report Summary

- Pollution Prevention Annual Report Summary
    - Leaf and Yard Waste Management
    - Municipal Facility (BMP) Inspection Report
    - Municipal Property SWPPP
    - Municipally Property Inspection Report
    - Winter Road Maintenance
  - Storm Sewer Map Annual Report Attachment
  - Storm Water Quality Management Annual Report Attachment
  - TMDL Attachment
  - Storm Water Consortium/Group Report
  - Municipal Cooperation Attachment
  - Other Annual Report Attachment
- Attach the following permit compliance documents as appropriate using the attachments tab above
- Storm Water Management Program
    - Public Education and Outreach Program
    - Public Involvement and Participation Program
    - Illicit Discharge Detection and Elimination Program
    - Construction Site Pollutant Control Program
    - Post-Construction Storm Water Management Program
    - Pollution Prevention Program
      - Municipal Storm Water Management Facility (BMP) Inventory
      - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan
  - Total Maximum Daily Load documents (*\*If applicable, see permit for due dates.*)
    - TMDL Mapping\*
    - TMDL Modeling\*
    - TMDL Implementation Plan\*
    - Fecal Coliform Screening Parameter \*
    - Fecal Coliform Inventory and Map (*S050075-03 general permittees Appendix B B.5.2 – document due to the department by March 31, 2022*)
    - Fecal Coliform Source Elimination Plan (*S050075-03 general permittees Appendix B - document due to the department by October 31, 2023*)
- Sign and Submit form

Do not close your work until you SAVE.

Form 3400-224 (R8/2021)

### Municipal Contact Information- Complete

**Note:** Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].  
**Note:** Compliance items must be submitted using the Attachments tab.

### Municipality Information

**Name of Municipality** Two Rivers, City

**Facility ID # or (FIN):** 31434

**Updated Information:**  Check to update mailing address information

**Mailing Address:** PO Box 87

**Mailing Address 2:**

**City:** Two Rivers, City

**State:** WI

**Zip Code:** 54241      xxxxx or xxxxx-xxxx

### Primary Municipal Contact Person (Authorized Representative for MS4 Permit)

The "Authorized Representative" or "Authorized Municipal Contact" includes the municipal official that was charged with compliance and oversight of the permit conditions, and has signature authority for submitting permit documents to the Department (i.e., Mayor, Municipal Administrator, Director of Public Works, City Engineer).

Select to **create new** primary contact

**First Name:** Matthew

**Last Name:** Heckenlaible

Select to **update** current contact information

**Title:** DPW/City Engineer

**Mailing Address:** 1717 East Park St

**Mailing Address 2:**

**City:** Two Rivers

**State:** WI

**Zip Code:** 54241-0087      xxxxx or xxxxx-xxxx

**Phone Number:** 920-793-5540      Ext:      xxx-xxx-xxxx

**Email:** mathec@two-rivers.org

### Additional Contacts Information (Optional)

I&E Program



Individual with responsibility for:  
(Check all that apply)

- IDDE Program
- IDDE Response Procedure Manual
- Municipal-wide Water Quality Plan
- Ordinances
- Pollution Prevention Program
- Post-Construction Program
- Winter roadway maintenance

First Name:

Last Name:

Title:

Mailing Address:

Mailing Address 2:

City:

State:

Zip Code:  XXXXX or XXXXX-XXXX

Phone Number:  Ext:  XXX-XXX-XXXX

Email:

**Municipal Billing Contact Person (Authorized Representative for MS4 Permit)**

Select to *create new* Billing contact

First Name:

Last Name:

Select to *update* current contact information

Title:

Mailing Address:

Mailing Address 2:

City:

State:

Zip Code:  XXXXX or XXXXX-XXXX

Phone Number:  Ext:  XXX-XXX-XXXX

Email:

1. Does the municipality rely on another entity to satisfy some of the permit requirements?

Yes  No

Public Education and Outreach

Public Involvement and Participation

Illicit Discharge Detection and Elimination

- Construction Site Pollutant Control
- Post-Construction Storm Water Management
- Pollution Prevention
  - Storm Water Management Facility Inspections: McMahon Associates
  - Public Works Yards and Other Municipally Owned Properties:
  - Street Sweeping/Cleaning Program:
  - Catch Basin Sump Cleaning Program:
  - Leaf Collection Program:
  - Winter Road Management:
  - Internal Staff Education & Communication:
  - Storm Sewer System Map:

2. Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

- Yes
- No

**Missing Information**

Do not close your work until you SAVE.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Form 3400-224 (R8/2021)

**Minimum Control Measures- Section 1 : Complete**

**1. Public Education and Outreach**

- a. Does MS4 conduct any educational efforts or events independently (not with a group)  Yes  No
- b. How many total educational events were held during the reporting year:
- c. Were any of the public education and outreach delivery mechanisms conducted during the reporting year active or interactive?  Yes  No
- d. Please select all storm water topics, target audiences, and delivery mechanisms used in the reporting year

Public Education and Outreach Delivery Mechanisms (Active and Passive)	
Active/Interactive Mechanisms	Passive Mechanisms
<input checked="" type="checkbox"/> Education activities (school presentations, summer camps) <input type="checkbox"/> Information booth at event <input checked="" type="checkbox"/> Targeted group training (contractors, consultants, etc.) <input checked="" type="checkbox"/> Government event (public hearing, council meeting) <input type="checkbox"/> Workshops <input type="checkbox"/> Tours <input type="checkbox"/> Other: <input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/> Passive print media (brochures at front desk, posters, etc.) <input checked="" type="checkbox"/> Distribution of print media (mailings, newsletters, etc.) via mail or email. <input type="checkbox"/> Media offerings (radio and TV ads, press release, etc.) <input checked="" type="checkbox"/> Social media posts <input type="checkbox"/> Signage <input checked="" type="checkbox"/> Website <input type="checkbox"/> Other: <input style="width: 150px;" type="text"/>

Topics Covered	Target Audience
<input checked="" type="checkbox"/> Illicit discharge detection and elimination <input checked="" type="checkbox"/> Household hazardous waste disposal/pet waste management/vehicle washing <input checked="" type="checkbox"/> Yard waste management/pesticide and fertilizer application <input checked="" type="checkbox"/> Stream and shoreline management <input type="checkbox"/> Residential infiltration <input checked="" type="checkbox"/> Construction sites and post-construction storm water management <input type="checkbox"/> Pollution prevention <input checked="" type="checkbox"/> Green infrastructure/low impact development <input type="checkbox"/> Other: <input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/> General Public <input checked="" type="checkbox"/> Public Employees <input checked="" type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input checked="" type="checkbox"/> Public Officials <input type="checkbox"/> Other: <input style="width: 150px;" type="text"/>

e. Will additional information/summary of these education events be attached to the annual report?  
 Yes  No

If no, please provide additional comment in the brief explanation box below. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

**Missing Information**

Do not close your work until you **SAVE**.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

**Minimum Control Measures - Section 2 : Complete**

**2. Public Involvement and Participation**

a. Permit Activities. Select all of the following topics the Permittee did to engage public participation and involvement.

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
<input checked="" type="checkbox"/> MS4 Annual Report <input checked="" type="checkbox"/> Storm Water Management Program <input type="checkbox"/> Storm Water related ordinance <input type="checkbox"/> Other: <input type="text"/>	<input checked="" type="checkbox"/> General Public <input checked="" type="checkbox"/> Public Employees <input checked="" type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input checked="" type="checkbox"/> Public Officials <input type="checkbox"/> Other	11-50	<input type="radio"/> Yes <input checked="" type="radio"/> No

b. Volunteer Activities. Select all of the following audiences targeted for volunteer involvement and participation related to storm water.

NA (Individual Permittee)

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	<input checked="" type="checkbox"/> General Public <input checked="" type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Public Officials <input checked="" type="checkbox"/> Other	11-50	<input type="radio"/> Yes <input checked="" type="radio"/> No

c. Brief explanation on Public Involvement and Participation reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

**Missing Information**

Do not close your work until you SAVE.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 3 : Complete

3. Illicit Discharge Detection and Elimination

- a. How many total outfalls does the municipality have?
- b. How many major outfalls does the municipality have?
- c. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program?
- d. From the municipality's routine screening, how many were confirmed illicit discharges?
- e. How many illicit discharge complaints did the municipality receive?
- f. From the complaints received, how many were confirmed illicit discharges?
- g. How many of the identified illicit discharges did the municipality eliminate in the reporting year (from both routine screening and complaints)?

(If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)

h. What types of regulatory mechanisms does the municipality have available to compel compliance with this program? Check all that are available and how many times each were used in the reporting year.

- Verbal Warning
- Written Warning (including email)
- Notice of Violation
- Civil Penalty/ Citation

Additional Information:

i. Brief explanation on Illicit Discharge Detection and Elimination reporting. If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.

See attached

Missing Information

Do not close your work until you SAVE.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 4 : Complete

### 4. Construction Site Pollutant Control

- a. How many total construction sites with one acre or more of land disturbing construction activity were active at any point in the reporting year?
- b. How many construction sites with one acre or more of land disturbing construction activity did the municipality issue permits for in the reporting year?
- c. How many erosion control inspections did the municipality complete in the reporting year (at sites with one acre or more of land disturbing construction activity)?

d. What types of regulatory mechanisms does the municipality have available to compel compliance with this program? Check all that are available and how many times each were used in the reporting year.

- Verbal Warning
- Written Warning (including email)
- Notice of Violation
- Civil Penalty/ Citation
- Stop Work Order
- Forfeiture of Deposit
- Other - Describe below

e. Brief explanation on Construction Site Pollutant Control reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached

### Missing Information

Do not close your work until you SAVE.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

### Minimum Control Measures - Section 5 : Complete

### 5. Post-Construction Storm Water Management

- a. How many new structural storm water management Best Management Practice (BMP) have received local approval ?   
\*Engineered and constructed systems that are designed to provide storm water quality control such as wet detention ponds, constructed wetlands, infiltration basins, grassed swales, permeable pavement,
- b. Does the MS4 have procedures for inspecting and maintaining private storm water facilities?  Yes  No
- c. If Yes, how many privately owned storm water management facilities were

inspected in the reporting year ? Inspections completed by private landowners should be included in the reported number.

0

- d. Does the municipality utilize privately owned storm water management BMP in its pollutant reduction analysis?  Yes  No
- e. Does MS4 have maintenance authority on these privately owned BMPs?  Yes  No
- f. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year.

<input checked="" type="checkbox"/> Verbal Warning	<input type="text" value="0"/>
<input checked="" type="checkbox"/> Written Warning (including email)	<input type="text" value="0"/>
<input checked="" type="checkbox"/> Notice of Violation	<input type="text" value="0"/>
<input type="checkbox"/> Civil Penalty/ Citation	<input type="text"/>
<input type="checkbox"/> Forfeiture of Deposit	<input type="text"/>
<input type="checkbox"/> Complete Maintenance	<input type="text"/>
<input checked="" type="checkbox"/> Bill Responsible Party	<input type="text" value="0"/>
<input type="checkbox"/> Other - Describe below	<input type="text"/>

g. Brief explanation on Post-Construction Storm Water Management reporting . If marked 'Unsure' on any questions above, justify your reasoning. Limit your response to 250 characters and/or attach supplemental information on the attachments page.

See attached

**Missing Information**

Do not close your work until you SAVE.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

**Minimum Control Measures - Section 6 : Complete**

**6. Pollution Prevention**

Storm Water Management Best Management Practice Inspections  Not Applicable

- a. Enter the total number of "municipally owned" (i.e., publicly owned BMPs) or operated (i. e., privately owned BMPs) structural storm water management best management practices.
- b. How many new municipally owned storm water management best management practices were installed in the reporting year ?

- c. How many municipally owned (public) storm water management best management practices were inspected in the reporting year? 10
- d. What elements are looked at during inspections (250 character limit)?  
Vegetation, embankment condition, inlet/outlet structures, scour
- e. How many of these facilities required maintenance? 0
- f. Brief explanation on Storm Water Management Best Management Practice inspection reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*  
See attached

Public Works Yards & Other Municipally Owned Properties that require a stormwater pollution prevention plan (SWPPP)\*  Not Applicable

- g. How many municipal properties require a SWPPP? 5
- h. How many inspections of municipal properties have been conducted in the reporting year? 5
- i. Have amendments to the SWPPPs been made?  
 Yes  No
- j. If yes, describe what changes have been made. Limit response to 250 characters and/or attach supplemental information on the attachment page:
- k. Brief explanation on Storm Water Pollution Prevention Plan reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*  
See attached

\* Any municipally owned property that has the potential to generate stormwater pollution should have a SWPPP. For example, if a municipal property stores compost piles, material storage, yard wastes, etc., outside and can contaminate stormwater runoff—a SWPPP is required.

Collection Services - Street Sweeping Program  Not Applicable

- l. Did the municipality conduct street sweeping during the reporting year?  
 Yes  No
- m. If known, how many tons of material was removed? 134
- n. Does the municipality have a [low hazard exemption](#) for this material?  Yes  No
- o. If street sweeping is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?  
 Yes - Explain frequency Sweeping is done as weather and conditions allow  
 No - Explain \_\_\_\_\_  
 Not Applicable

Collection Services - Catch Basin Sump Cleaning Program  Not Applicable



- p. Did the municipality conduct catch basin sump cleaning during the reporting year?  Yes  No
- q. How many catch basin sumps were cleaned in the reporting year?
- r. If known, how many tons of material was collected?
- s. Does the municipality have a low hazard exemption for this material?  Yes  No
- t. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?
  - Yes- Explain frequency Weekly rotation as conditions allow
  - No - Explain \_\_\_\_\_
  - Not Applicable

Collection Services - *Leaf Collection Program*  Not Applicable

- u. Does the municipality conduct curbside leaf collection?  Yes  No
- v. Does the municipality notify homeowners about pickup?  Yes  No
- w. Where are the residents directed to store the leaves for collection?
  - Pile on terrace  Pile in street  Bags on terrace
  - Other - Describe \_\_\_\_\_
- x. What is the frequency of collection? Weekly rotation as conditions allow
- y. Is collection followed by street sweeping?  Yes  No
- z. Brief explanation on Collection Services reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page*

Perform daily leaf collection throughout the city on a weekly basis from October-December. See attached

Winter Road Management  Not Applicable

\*Note: We are requesting information that goes beyond the reporting year, answer the best you can.

aa. How many lane-miles of roadway is the municipality responsible for doing snow and ice control? *(One mile of a two-way road equals two lane miles.)*

ab. Provide amount of de-icing products used by month last winter season?  
Solids (tons) (ex. sand, or salt-sand)

Product	Oct	Nov	Dec	Jan	Feb	Mar
Salt	0	16	117	132	48	38

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
Brine	0	0	2480	631	631	0

ac. Was salt applying machinery calibrated in the reporting year?  Yes  No

ad. Have municipal personnel attended salt reduction strategy training in  Yes  No the reporting year?

Training Date	Training Name	# Attendance
2/27/2024	2024 Fox Wolf Watershed Conference	2
2/28/2024	2024 Fox Wolf Watershed Conference	2
8/9/2024	Lake Michigan Day 2024	4

ae. Brief explanation on Winter Road Management reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page*

See attached

**Internal (Staff) Education & Communication**

af. Has the municipality provided an opportunity for internal training  Yes  No or education to staff implementing the municipality's procedures for each of the pollution prevention program element ?

If yes, describe what training was provided (250 character limit):

ag. Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs, procedures and pollution prevention program requirements.

Elected Officials

City Council and Committee/Board meetings

Municipal Officials

City Council and Committee/Board meetings

Appropriate Staff ( such as operators, Department heads, and those that interact with public)

Staff meetings, webinars, NEWSC meeting, conferences and City Manager reports

ah. Brief explanation on Internal Education reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached

**Missing Information**

Do not close your work until you SAVE.

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

**Minimum Control Measures - Section 7 : Complete**

**7. Storm Sewer System Map**

a. Did the municipality update their storm sewer map this year?

Yes  No

If yes, check the areas the map items that got updated or changed:

- Storm water treatment facilities
- Storm pipes
- Vegetated swales
- Outfalls
- Other - Describe below

b. Brief explanation on Storm Sewer System Map reporting. *If you marked Unsure for an question for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached

Do not close your work until you SAVE.

Form 3400-224 (R8/2021)

**Final Evaluation - Complete**

**Fiscal Analysis**

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

Annual Expenditure Reporting Year	Budget Reporting Year	Budget Upcoming Year	Source of Funds
-----------------------------------	-----------------------	----------------------	-----------------

**Element: Public Education and Outreach**

4625	4000	5000	<u>Storm water utility</u>
------	------	------	----------------------------

**Element: Public Involvement and Participation**

4645	2500	4000	<u>Storm water utility</u>
------	------	------	----------------------------

**Element: Illicit Discharge Detection and Elimination**

5575	8000	6500	<u>Storm water utility</u>
------	------	------	----------------------------

**Element: Construction Site Pollutant Control**

9280	5000	10000	<u>Storm water utility</u>
------	------	-------	----------------------------

**Element: Post-Construction Storm Water Management**

18095	15000	20000	<u>Storm water utility</u>
-------	-------	-------	----------------------------

**Element: Pollution Prevention**

2725	6000	4500	<u>Storm water utility</u>
------	------	------	----------------------------

**Other (describe)**

Stormwater Quality Management			
63320	50000	70000	<u>Storm water utility</u>

**Other (describe)**

Leaf Collection			
101670	95000	100000	<u>Storm water utility</u>

**Other (describe)**

Yearly Dues & Fees			
3935	110000	70000	Storm water utility

**Other (describe)**

Street Sweeping			
92900	78000	65000	Storm water utility

**Other (describe)**

Storm Sewer System Mapping (CADD & GIS)			
10025	55000	45000	Storm water utility

Please provide a justification for a "0" entered in the Fiscal Analysis. Limit response to 250 characters.

**Water Quality**

**a:** Were there any known water quality improvements in the receiving waters to which the municipality's storm sewer system directly discharges to?

Yes  No  Unsure If Yes, explain below:

**b:** Were there any known water quality degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?

Yes  No  Unsure If Yes, explain below:

**c:** Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year?

Yes  No  Unsure

**d:** Has the municipality evaluated their storm water practices to reduce the pollutants of concern?

Yes  No  Unsure

**Storm Water Quality Management**

**a.** Has the municipality completed or updated modeling in the reporting year (relating to developed urban area performance standards of s. NR 151.13(2)(b)1., Wis. Adm. Code)?  Yes  No

**b.** If yes, enter percent reduction in the annual average mass discharging from the entire MS4 to surface waters of the state as compared to implementing no storm water management controls:

Total suspended solids (TSS)

Total phosphorus (TP)

**Additional Information**

Based on the municipality's storm water program evaluation, describe any proposed changes to the municipality's storm water program. *If your response exceeds the 250 character limit, attach supplemental information on the attachments page.*

The City is in the process of updating our City wide stormwater master plan as part of receiving a WDNR Urban Non-Point Planning Grant.

Do not close your work until you SAVE.

Form 3400-224 (R8/2021)

**Requests for Assistance on Understanding Permit Programs**

Would the municipality like the Department to contact them about providing more information on understanding any of the Municipal Separate Storm Sewer Permit programs?

Please select all that apply:

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Construction Site Pollutant Control
- Post-Construction Storm Water Management
- Pollution Prevention
- Storm Water Quality Management
- Storm Sewer System Map
- Water Quality Concerns
- Compliance Schedule Items Due
- MS4 Program Evaluation

Do not close your work until you SAVE.

Form 3400-224(R8/2021)

### Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

\*Required Item

Note: To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

### Attach - Other Supporting Documents

#### AR IDDE

File Attachment

[Erosion control inspections.pdf](#)

#### AR SWGroupReport

File Attachment

[2024 Annual NEWS Report.pdf](#)

#### AR Other

File Attachment

[2024 Activity log.xlsx](#)

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

### Attach - Permit Compliance Documents

#### SWQM TMDLImpPlan

File Attachment

[MS4 all Section Narratives.pdf](#)

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

### Missing Information

**Draft and Share PDF Report with the permittee's governing body or delegated representatives.**

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been reviewed by the governing body or delegated representative, return to the MS4 eReporting System to submit the final report to the DNR.

[Draft and Share PDF Report](#)





Do not close your work until you SAVE.

Form 3400-224(R8/2021)

## Sign and Submit Your Application

### Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

**NOTE:** For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click [HERE](#).

### Terms and Conditions

**Certification:** I hereby certify that I am an authorized representative of the municipality covered under Two Rivers, City MS4 Permit for which this annual report or other compliance document is being submitted, and that the information contained in this submittal and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Signee (must check current role prior to accepting terms and conditions)

- Authorized municipal contact using WAMS ID.
- Delegation of Signature Authority ( Form 3400-220 ) for agent signing on the behalf of the authorized municipal contact.
- Agent seeking to share this item with authorized municipal contact (authorized municipal contact must get WAMS id and complete signature).

Name:

Title:

Authorized Signature.

- I accept the above terms and conditions.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.