

# Local Watershed Management Plan



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# Executive Summary

The City of Mendota Local Water Management Plan has been prepared in accordance with Minnesota Statutes 103.b, the Minnesota Rules Chapter 8410 and the Lower Minnesota River Watershed District .

The plan is subdivided into four sections as listed:

1. Executive Summary
2. Goals & Policies
3. General Standards
4. Maps
5. Implementation

The City of Mendota lies within two watersheds Lower Minnesota River Watershed District, and Lower Mississippi River Watershed Management Organization, These watersheds rely on the municipalities for review and compliance of stormwater management requirements. These LMRWD has water resource regulations which continue to apply within the city limits. The LMRWMO has adopted stormwater management performance standards that are applicable to the City. The City provides public wastewater facilities and services to residents. Currently there are roughly 220 residents with anticipated growth to reach roughly 280 residents by 2040. The collector system is mostly serviced by gravity mains, and there are limited force mains in the City. A map of the sanitary sewer system has been provided for reference.

The City has a relatively small amount of surface water resources but is partially in the FEMA Special Flood Hazard Area, 100 year floodplain, and wetlands along the City's northern boundary on the Minnesota River banks. Because of the limited amount of surface water Mendota has few natural stormwater management basins, which is an occasional issue for localized drainage issues during large rain events. Currently there are no projects with the watershed taking place in or around Mendota. A map of the storm sewer system has been provided for reference.

The City inspects all storm water management facilities during construction, and during the first year of operation. The City conducts annual inspections of structural stormwater BMP's to determine structural integrity, proper function and maintenance needs. They also inspect a minimum of 20% of ponds and outfalls each year on a rotating basis. Any person subject to an NPDES storm water discharge permit shall comply with all provisions of such permit. Where re-use of stormwater is implemented, volumes captured and reused shall be considered volume capacity towards volume reduction requirements by the City within the same resource of concern.

Water pumped from a site shall be treated by the appropriate control devices. Erosion and sedimentation control devices and techniques shall be consistent with the MPCA's Minnesota Stormwater Manual. The City also completes annual street sweeping (100% of the streets) to prevent sediment and debris from entering the storm sewer system. The City will continue to address any non-stormwater discharges that are found to be a significant contributor of pollutants to the MS4.

The City will continue to implement a public education program to help educate residents about the impacts of stormwater discharges on water bodies and steps the public can take to reduce pollutants in stormwater runoff. The city will continue to assess existing and potential water resource problem areas in accordance with MN Rules 8410, but currently does not have any key conservation areas and has not identified any problem areas within city limits. A very small portion of the City does drain to impaired water body such as Augusta Lake.

# Goals & Policies

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## Goals

1. Partner with the Lower Minnesota River Watershed District, and Lower Mississippi River Watershed Management Organization, on their goals and policies.
2. Make sure all data collected by the Districts are available for all citizens and streamline the flow of permit related information, and conserve staff resources by improving the efficiency in the distribution.
3. Utilize the districts website to provide access and to distribute data and information.
4. Use implementation processes and funding mechanisms consistent with the anticipated benefits received.
5. Minimize the potential damage to public and private infrastructure, private property, the land and other important water related natural resources caused by excess runoff and flooding.
6. Recognize the potential uncertainty associated with managing water resources and understand the implications of emerging issues including climate change, the use of monitoring data, and the interpretation of scientific and technical data, in the decision-making process.
7. Capitalize on opportunities to enhance water quality, reduce runoff volume and flood damages, and enhance ecological resources by using open space and greenways in the city.
8. Continue to incorporate ground water considerations into the decision making process with mindfulness of the interconnectedness of water and water dependent natural resources for development and redevelopment opportunities.
9. Work with the existing watershed district and organizations to determine the one district of management organization for the City to be in. This would eliminate overlap and additional review that can be an unnecessary use of limited city staff time and cost.

## Policies

1. Provide data in a manner which maximizes use by the public, share and distribute data and information in the most efficient manner possible, and minimize the duplication of data collection through cooperative data collection efforts and information sharing on the city website.
2. Encourage landowners to improve water quality, reduce runoff volume, and enhance ecological systems through the use of cost-share programs.
3. Continue to partner with districts for management of wetlands and establish wetland management goals to improve ecological condition.
4. Continue to manage non-103 E drainage systems and provide a functional level of service to benefited lands, while following local, state and federal laws and programs.
5. Achieve a better understanding of local surface and ground water dynamics and interactions in the City of Mendota.

# General Standards

## Wastewater Infrastructure and Management

Mendota provides public wastewater facilities or services to its residents. The system serves all but three recorded population, households, and lots located in Mendota. This is shown in the City’s existing land use, as it is landlocked and its future land use will be very similar. More detailed information and land use maps can be found in chapter 4 of the comprehensive plan. The systems service 90 households.

The City estimates that approximately 220 persons are served by the MCES Sewage Treatment System. The table below from the Metropolitan Council illustrates that new growth through 2040 is expected to continue to utilize the municipal shared sewer system.

Forecast Year	Forecast Component	Population	Households	Employment
2010	MCES Sewered	198	78	270
2010	Unsewered	0	0	0
2020	MCES Sewered	220	90	290
2020	Unsewered	0	0	0
2030	MCES Sewered	260	110	300
2030	Unsewered	0	0	0
2040	MCES Sewered	280	130	300
2040	Unsewered	0	0	0



The map on the following page shows the entire Sanitary Sewer System for Mendota. It shows the various locations for manholes, force mains, gravity mains, pipe castings, lift stations, and the city limits of Mendota. Most of Mendota is serviced by gravity mains, and there are limited force mains in the City. For geological features of Mendota please refer to the Dakota County Geological Atlas.





# SANITARY SEWER SYSTEM

MENDOTA  
DAKOTA COUNTY, MINNESOTA

-  SANITARY MANHOLES
-  SEWER GRAVITY MAINS



## Surface Water Resources

The City of Mendota is partially within the boundaries of the Lower Minnesota River Watershed District (LMRWD), and the Lower Mississippi River Watershed Management Organization (LMRWMO). Additionally, it is within the Mississippi River Critical Corridor Area. The MRCCA is a state, regional and local government program that provides coordinated land planning and regulation for the 72-mile stretch of the Mississippi River through the seven-county metropolitan area covering 54,000 acres of land in 30 local jurisdictions. Natural surface water features in the City of Mendota contribute greatly to the aesthetics of the community and/or function as natural drainage basins.

The City's surface waters are integral to the City's water resource management by serving as a means of conveying stormwater. The City of Mendota is partially in the FEMA 100 year floodplain along the river bank. The City's stormwater runoff eventually drains to Minnesota River and Augusta Lake. The low number of surface waters in the City decreases the potential risk of significant flooding, but localized flooding still occurs as described in the Problem Areas section on page 12.

The Lower Minnesota River Watershed District is approximately 80 square miles. The District has water resource regulations and many efforts to maintain that their management goals and policies are implemented throughout the district. The District has water resources regulations and goals and policies that it implements throughout the District to conserve and restore water resources for the beneficial use of current and future generations.

The Lower Mississippi River Watershed Management Organization (LMRWMO) is located in the southeast part of the Twin Cities metropolitan area, in northern Dakota County and southern Ramsey County. The LMRWMO abuts the south and west sides of the Mississippi River, from the Mississippi River's confluence with the Minnesota River to Rosemount and covers 55.8 square miles.

A map of the City's sub watersheds and the LMRWMO and LMRWD is shown on the following pages for further visual explanation.

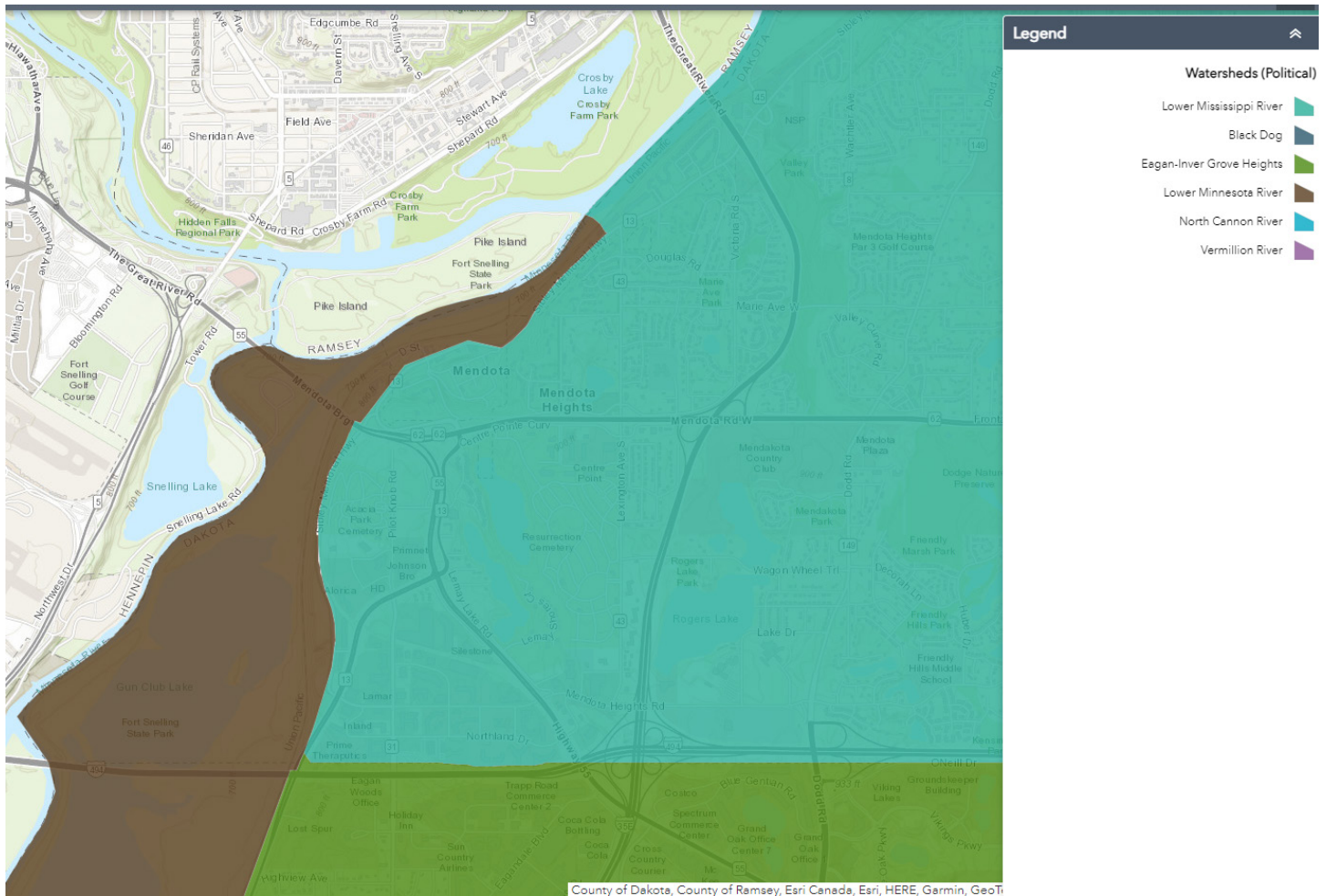


## MENDOTA SUB-WATERSHEDS

0 250 500 Feet



# Watersheds Map





## **Stormwater Inspection and Maintenance Schedule**

All storm water management facilities shall be designed to minimize the need for maintenance, to provide access for maintenance purposes and to be structurally sound. All storm water management facilities shall have a plan of operation and maintenance that assures continued effective removal of pollutants. A designated representative, shall inspect all storm water management facilities during construction, during the first year of operation, and every year for structural stormwater BMPs to determine structural integrity, proper function, and maintenance needs. The inspection records will be kept on file at the City Hall for a period of 6 years. It shall be the responsibility of the applicant to obtain any necessary easements or other property interests to allow access to the storm water management facilities for inspection and maintenance purposes.

## **Compliance**

The City of Mendota will continue to perform and regulate municipal review and compliance with stormwater management requirements. However, certain provisions are kept for unique situations. Included in these are industrial activities and situations where access is limited.

Any person subject to an NPDES construction stormwater permit shall comply with all provisions of such permit. Proof of compliance with the permit may be required in a form acceptable to the city prior to the allowing of discharges to the storm sewer system. Any person responsible for a facility that has stormwater discharges, and who is or may be the source of an illicit discharge, may be required to implement, at the person's expense, additional structural and nonstructural BMPs to prevent the further discharge of pollutants to the storm sewer system. These BMPs shall be part of a stormwater pollution prevention plan as necessary for compliance with requirements of the NPDES permit.

If the city has been refused access to any part of the premises from which stormwater is discharged, and is able to demonstrate probable cause to believe that there may be a violation of this section or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this chapter or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the city may seek an administrative search warrant from any court of competent jurisdiction.

## **Post-Construction Control**

The City does not currently have a regulation regarding this and will update its ordinance as part of the official controls requirements. The LMRWMO requires that Cities maintain and enforce local controls that are consistent with the MPCS's Construction Stormwater General Permit. The City will work with the LMRWMO administrator to confirm the applicable performance standards are consistent with the MPCA's NPDES Construction Stormwater General Permit standards.



## **Key Conservation Areas**

The City of Mendota has no key conservation areas as the City limits are 100% developed and the City is landlocked.

## **New Projects and Programs**

The City does not have a capital improvement program. The City does have upcoming and current projects that will assist in the upgrade of systems throughout the City and better effect the region. Please refer to the implementation plan specific to watershed management located on pages 20-21.

## **NPDES Requirements Conformity**

The City of Mendota is compliant with the NPDES requirements for MS4 permittees. The City of Mendota's Stormwater Pollution Prevention Plan is a resource stating rules and regulations, some of the proceeding sections of this plan are summaries of the SWPPP.

## **Erosion and Sediment Ordinance**

Erosion and sedimentation control devices and techniques shall be consistent with the MPCA's "MN Stormwater Manual" as amended. As well as requirements in LMRWD Rule B Erosion and Sediment Control Rule. It is important to note that there are portions of Mendota that are within LMRWD's Steep Slopes Overlay District (shown in figure XX) which has more restrictive erosion and sediment control requirements. The complete Rule B is available on LMRWD's website for viewing. The existing ordinance needs some updates that will be completed in line with the LMRWMOs plan, which requires minimum performance standards and consistency with MPCS's Construction Stormwater General Permit. Updates to the existing ordinance must also comply with LMRWD, and the City will consistency within their ordinance and the districts Rule B requirements. This will occur within the required timeframe as specified in M.S. 103B.235 Subd.4.

[http://www.cityofmendota.org/MENDOTA\\_0001.PDF](http://www.cityofmendota.org/MENDOTA_0001.PDF)

## **Housekeeping Requirements**

**Street sweeping:** The City currently sweeps their streets annually in the fall. This helps remove sediment and debris from the road surface within the jurisdiction and minimize the amount received by the storm sewer system.

**Snow plowing:** The City receives comments at City Council meetings prior to snow season.

**Salt:** The City does not have a stockpile within the City. They rely on Dakota County and Mendota Heights. Inspect all exposed stockpile, storage and material handling areas at least annually. This stockpile is always completely disposed of by the end of each winter season. The City does not store salt mixtures over the summer. The city has goals to collaborate with its partners to ensure documentation of the amount of salt and sand applied to roadways, and evaluation of alternative deicing products, equipment, or procedures have been explored.

## **Pollutant Control**

The City will continue to evaluate whether any of the following categories of non-stormwater discharges or flows are significant contributors of pollutants to our MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetlands, dechlorinated swimming pool discharges, street wash water, and discharges or flows from fire fighting activities. For any non-stormwater discharges or flows which the City finds to be a significant contributor of pollutants to the MS4 the City will develop an action plan to evaluate and address the impact the discharge is having on stormwater quality.

City Code Section 809, Section 809.03 states “The purpose of this ordinance is to promote preserve and enhance the natural resources within the City of Mendota and protect them from adverse effects occasioned by poorly sited development or incompatible activities by regulating land disturbing or development activities that would have an adverse and potentially irreversible impact on water quality and unique and fragile environmentally sensitive lands; and by requiring detailed review standards and procedures for land disturbing and development activities proposed for such area, thereby achieving a balance between urban growth and development and protection of water quality and natural areas.” The ordinance has very specific standards that all development is subject to review on. The code is not in compliance with LMRWD’s rules and the City will update section 809 of the city code to comply.

## **Public Information and Education**

The City will continue to implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of Stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in Stormwater runoff.

- Publish Stormwater issues, recycling information and Education Program information articles on the City website. (ongoing)
- Continue 30-day public notice for the annual public meeting and continued on an annual interval. (ongoing - annual)
- Solicit Public Input and opinion on the Adequacy of the SWPPP
- Continue to provide a copy of the SWPPP at City Hall for viewing prior to the annual Public Meeting and other times upon request. (ongoing - annual)
- BMP categories to be implemented
- Measurable goals and time frames
- Online Availability of Stormwater Pollution Prevention Program Document
- Provide an electronic document of Stormwater Pollution Prevention Program document online, to allow anytime, easier access to these documents annually. (ongoing - annual)
- Adopt a site plan review document and illicit discharge workflow that is available to the public

## **Problem Areas**

The City is required to assess existing or potential water resource problems regulated by MN Rules 8410. There are no conflicts between infiltration requirements and wellhead protection. There have been some concerns of exposed bedrock and bluffline setbacks for infiltration practices in town. Citizens have also identified a few issues such as drainage issues during heavy rains, and old sewer and water infrastructure. While the solutions for these problems have not been established, the City will continue to keep these in mind and will evaluate potential solutions as problems come forward. Mendota is a regulated community for stormwater but is not a local floodplain administrator for FEMA. Another identified issue is the City drains to one impaired water body, which is Augusta Lake. Augusta Lake is impaired for nutrients (phosphorus), and the Lower Minnesota River has a problem with local flooding. The City will work with the LMRWD to evaluate flooding and other water resource issues within Mendota and the LMRWD's boundaries. The City will evaluate corrective issues to help ensure they are limiting their effect on these bodies of water. The LMRWMO's plan and website provides additional information on Lake Augusta's water quality, including monitoring data, projects implemented and next steps.

## **Amendment Procedures**

Normally, the City of Mendota will initiate and proposed amendment to the City's Local Water Management Plan and can do so at any time. The process will require the City of Mendota to acknowledge a needed amendment. Amendments can be required to comply with amendments to the Local Water Management Plan requirements, to comply with modifications in State Statutes, to comply with revisions in the State Rules, to correct errors in the present plan, or to meet changing needs within the City of Mendota. The Local Watershed Management Plan must be updated every 10 years as part of the Comprehensive Plan update processes.

The City will submit any amendment to this plan to the LMRWO and LMRWD for review and comment consistent with MN Rules 8410. Any amendment will need to be considered by the City of Mendota. Upon consideration of the City Council, any amendment will need to follow the adopted submittal and review process described in the section titled *Submittal and Review*.



## **Submittal and Review**

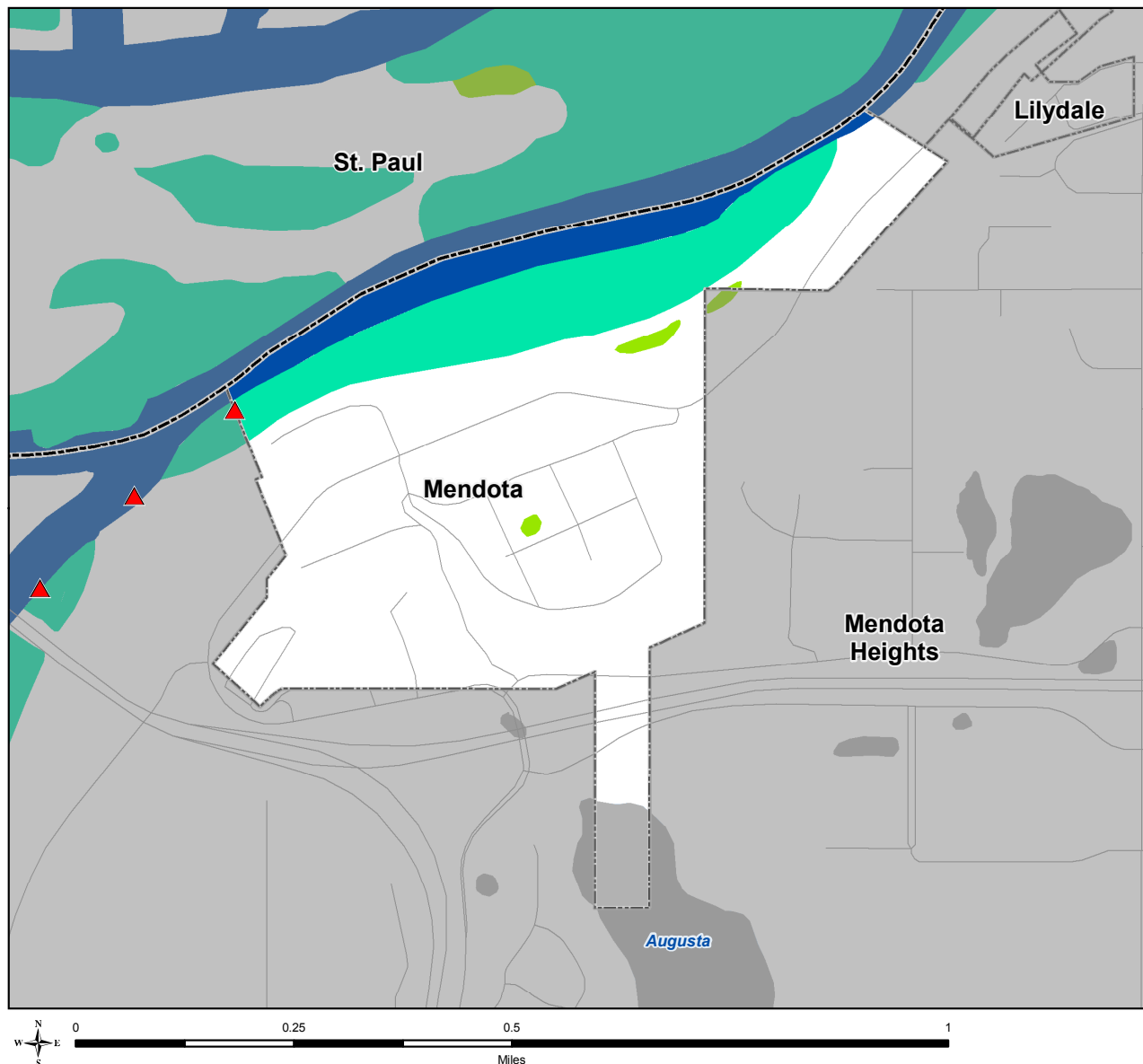
The Minnesota Rules Chapter 8410, Minnesota Statutes 103.b and the LMRWMO and LMRWD Watershed Management Plan outline the submittal and review process of the Local Water Management Plan (LWMP). Mendota must consider and approve forwarding the LWMP, or any amendment, to the LMRWMO and LMRWD for approval. The organizations are allowed 60 days to review the Local Plans. Within the 60 days, the organizations can approve, deny or request an extension from Mendota. If the LMRWMO and LMRWD fail to approve or deny the Plan within the 60 days and Mendota does not approve an extension, the LWMP is deemed approved.

Mendota must also forward a copy of the LWMP to Dakota County and to the Metropolitan Council for review at the same time the LWMP is submitted to the LMRWMO and LMRWD. Dakota County and the Metropolitan Council have 45 days to review and submit comments to LMRWMO and LMRWD. Neither the County nor the Metropolitan Council has the authority to deny the LWMP.

Once the LMRWMO and LMRWD have approved the LWMP or amendment, either by action or the failure to act within the prescribed period, the City of Mendota must adopt the LWMP or amendment within 120 days. The implementation of any regulatory controls required by the plan, or amendment to the plan, must be implemented within 180 days of the approval by the LMRWMO and LMRWD.

# Metropolitan Council Provided Map of Surface Water and Groundwater Interaction

## Surface Water and Groundwater Interaction City of Mendota, Dakota County



### Karst Features (DNR)

- ▲ Spring
- Sinkhole
- Calcareous Fens
- ~ Trout Streams (DNR)

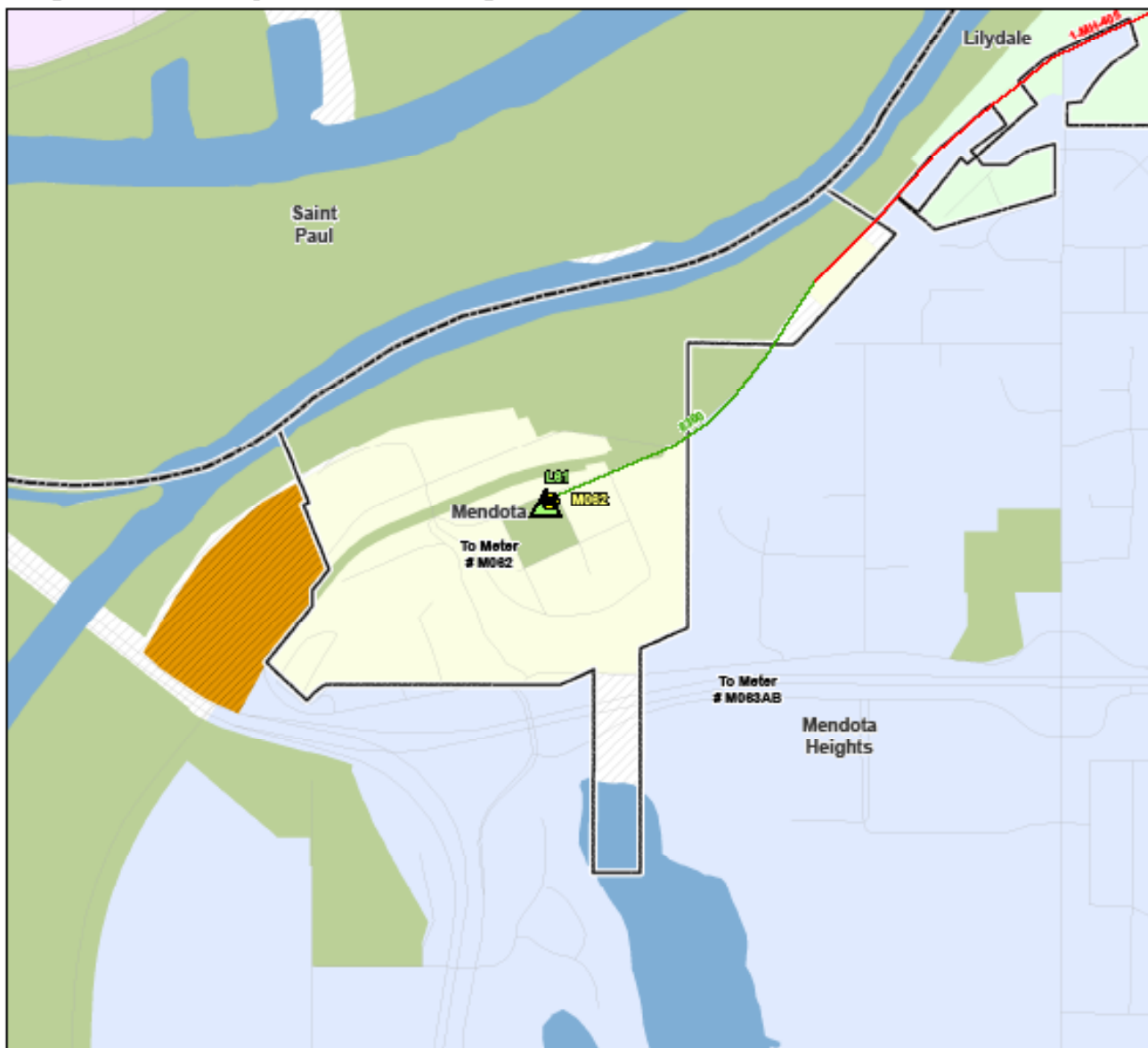
### Surface water type (regional screening by Met Council)

- Disconnected from the regional groundwater system
- Recharges aquifers
- Receives and discharges groundwater
- Supported by upwelling groundwater

- County Boundaries
- City and Township Boundaries
- NCompass Street Centerlines
- Other Open Water Features

# Metropolitan Council Provided Map of MCES Sanitary Sewer Meter Service Areas

## MCES Sanitary Sewer Meter Service Areas City of Mendota, Dakota County



1/6/2015



### Interceptors by Type

- Gravily
- Forcesmain
- Siphon

- Outfall
- Low Head Crossing
- Bypass



Meters



Lift Stations



MCES Wastewater Treatment Plants

### Interceptor Meter Service Areas

- To Meter # 100
- Areas Not Served

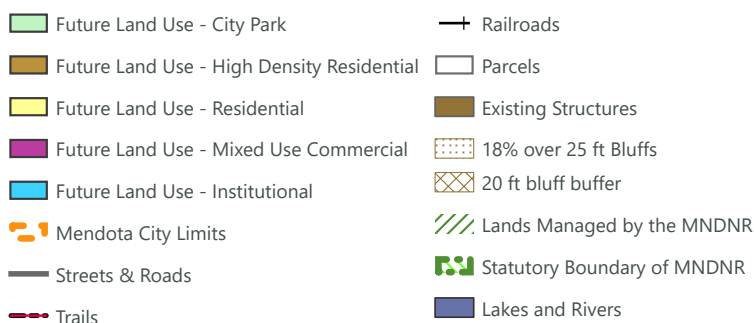
- Areas of Unmetered Flow into the Community
- Rural Center WWTP Service Areas
- 2040 MUSA

- County Boundaries
- City and Township Boundaries
- Lakes and Rivers
- MCampus Street Centerlines

- Park, Recreational or Preserve
- Golf Course



The city is almost fully built out and will not expand beyond its current limits. The City is a mix of residential, commercial, institutional and open space land uses.



# MENDOTA 2040 COMPREHENSIVE PLAN

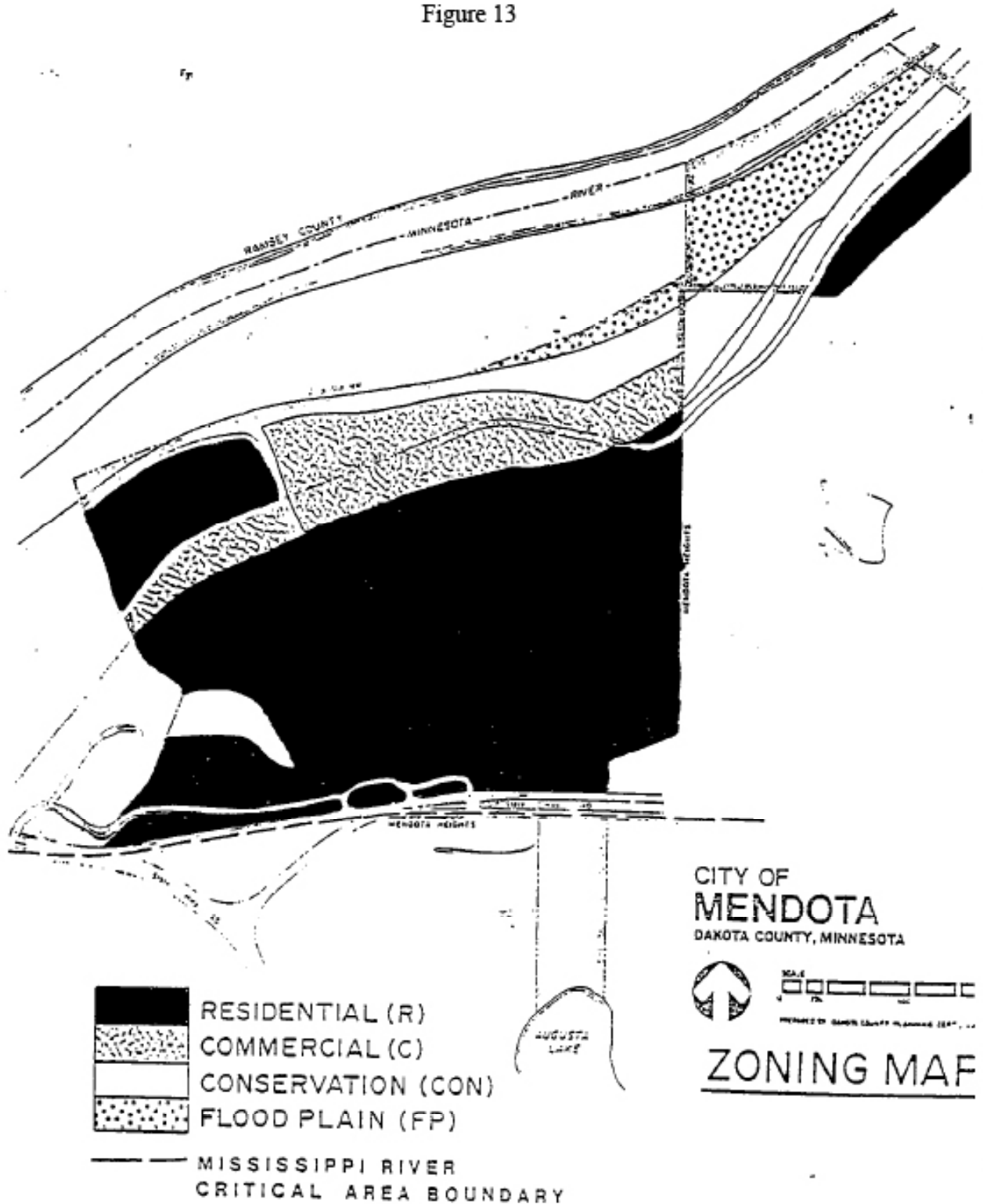
MENDOTA  
DAKOTA COUNTY, MN  
06/11/2019



## Existing Map

The city is almost fully built out and will not expand beyond its current limits. The areas along the river are conservation and floodplain zoning district.

Figure 13



## LOCAL WATER MANAGEMENT PLAN - Implementation Plan

No.	Project Description	MS4 Permit Requirement	Initial 12 Month Requirement	Annual Requirement	10 Year Cost Estimate	Potential Funding Sources
1	<b>Annual SWPPP Assessment &amp; Annual Reporting</b> City staff will conduct an annual SWPPP assessment in preparation of each annual report. Proposed SWPPP modifications are subject to Part II.G of the MS4 permit. The final annual report will be posted on the City's website. City staff will submit the annual report to the MPCA prior to June 30th for the previous calendar year.	X		X	20,000	City of Mendota
2	<b>Online Availability of the Stormwater Pollution Prevent Plan (SWPPP) Program Document</b> The City will make the SWPPP and each year's annual report available on the City webpage within 12 months from the date the MS4 permit coverage is extended to the City.	X	X	X	1,000	City of Mendota
3	<b>Update Stormwater Management Regulation Ordinance</b> The City will update their ordinance to be consistent with NPDES Permit regulations. As well as continue to enforce the regulation. This will be completed in the timeframe allowed by MN State statute.	X	X	X	10,000	City of Mendota
4	Identify possible corrective actions and solutions for the city's eventual drainage into the impaired waters of Augusta Lake and the Lower Minnesota River				2,000	City of Mendota and LMRWD and LMRWMO
5	Gully Erosion Potential and Pipe Outfalls Requiring Repair (5 areas identified)					City of Mendota LMRWD

**Total Cost**



[illegible]



