

MIDDLE ST. CROIX  
WATERSHED MANAGEMENT ORGANIZATION

2025-2035 WATERSHED MANAGEMENT PLAN

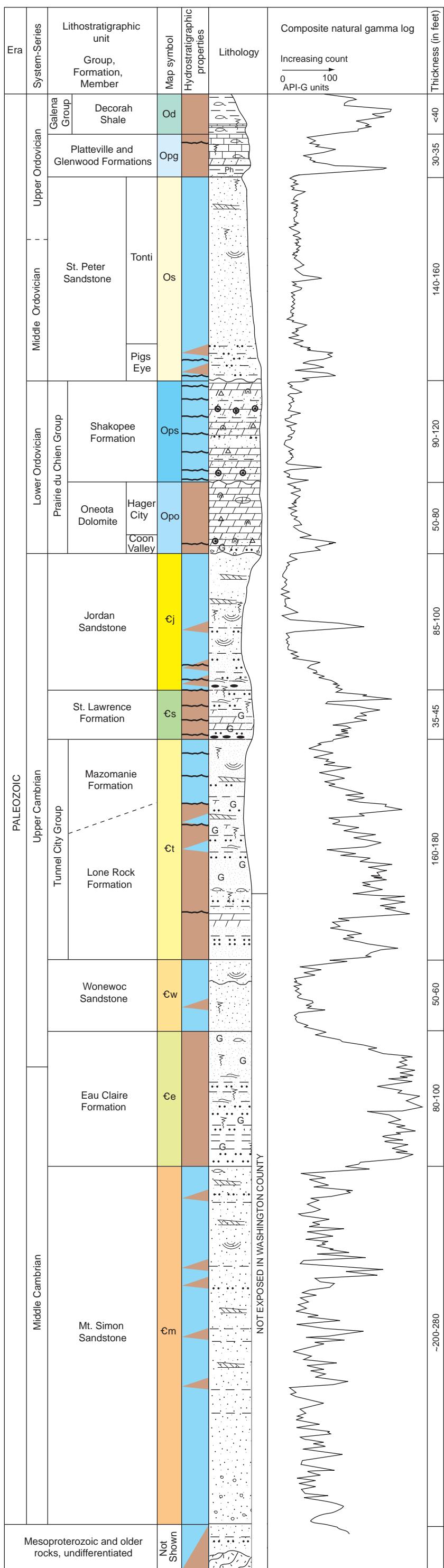
#### LEGEND

- Lakes
- Streams
- Cities & Townships

Credits: WCD, Washington County,  
Metropolitan Council, MPCA, MDNR, ESRI

0 1.25 2.5 Miles



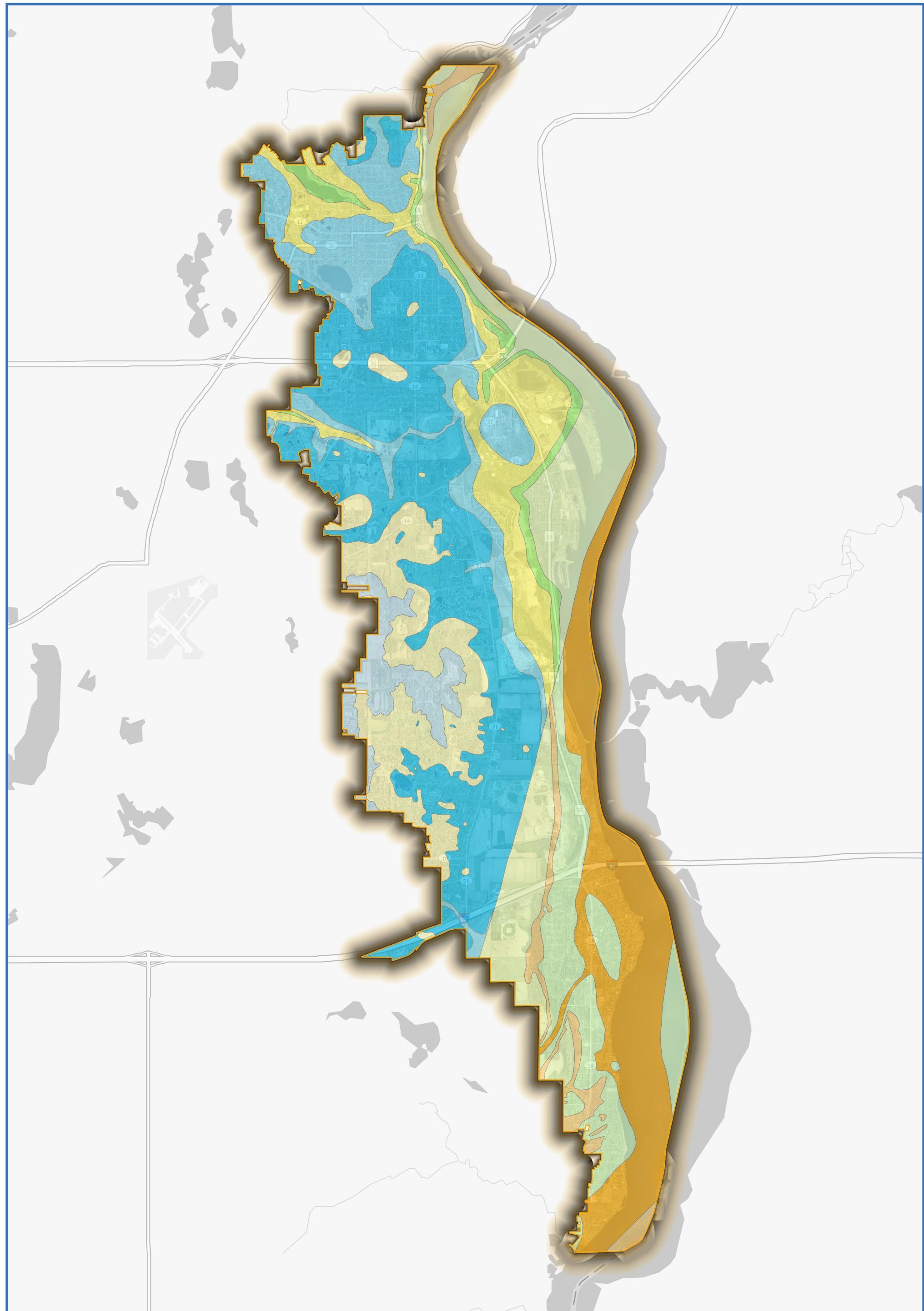


#### LITHOLOGY KEY

	Limestone
	Dolostone
	Sandy dolostone
	Sandstone
	Very fine- to fine-grained
	Fine- to medium-grained
	Medium- to coarse-grained
	Shaly
	Siltstone
	Shale
	Chert
	Oolites
	Glaucite
	Phosphate grains
	Stromatolites
	Shells
	Bioturbation
	Pebbles
	Intraclasts
	Cross-bedded (planar)
	Cross-bedded (trough)
	Cross-bedded (hummocky)
	Dolomitic
	Vugs
	Contact marks a major erosional surface

#### HYDROSTRATIGRAPHIC PROPERTIES KEY

	Relatively high permeability (aquifer)
	Relatively low permeability (except for fractures, aquitard)
	High permeability bedding fracture known to be common



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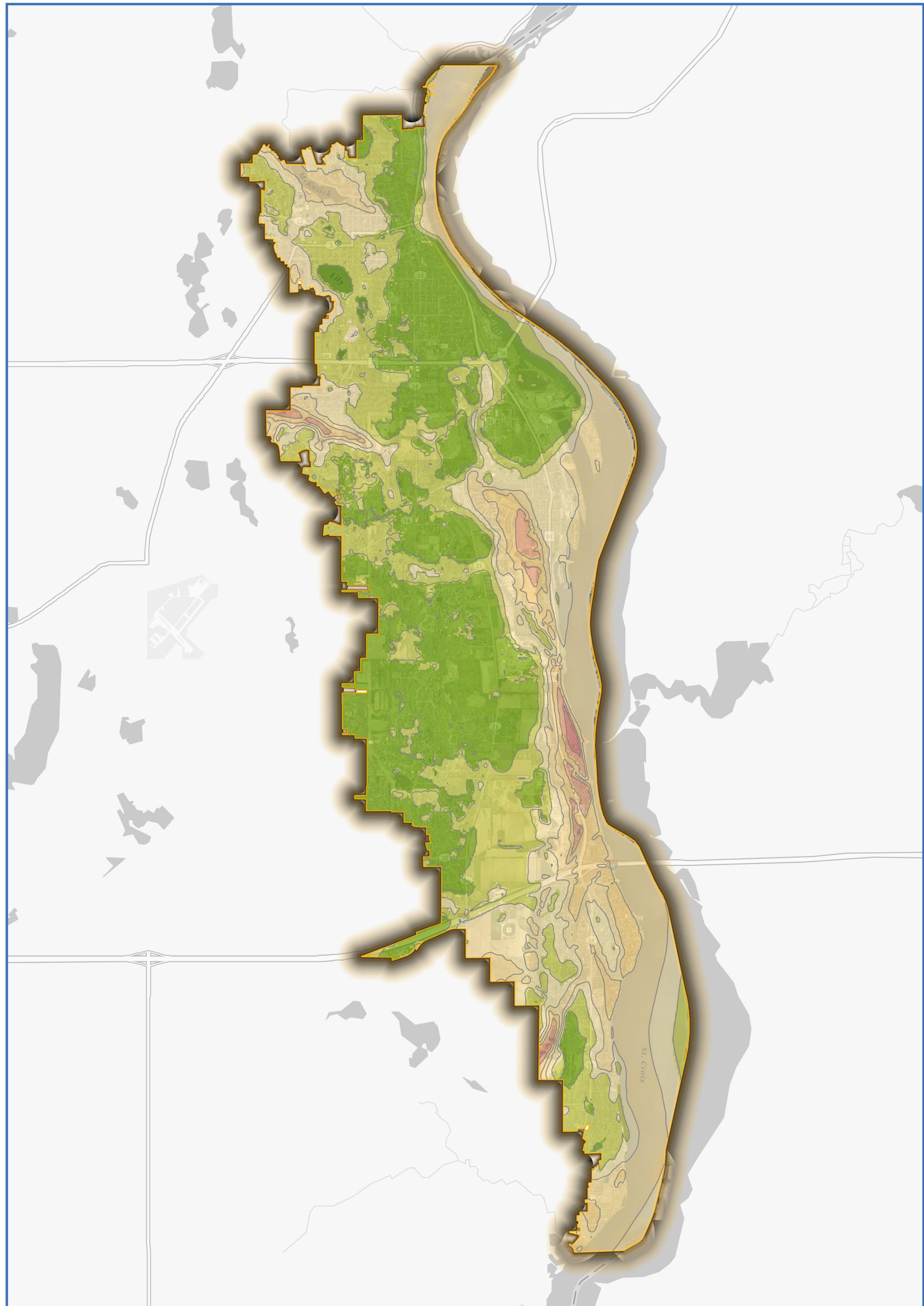
LEGEND

Platteville and Glenwood Fms.	Prairie du Chien Gp., Oneota Dolomite	Wonewoc Standstone
St. Peter Standstone	Jordan Sandstone	Eau Claire Fm.
Prairie du Chien Gp., Shakopee Fm	St. Lawrence Fm.	Mt. Simon Sandstone
	Tunnel City Group	

Credits: WCD, Washington County,  
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0 1.25 2.5 Miles



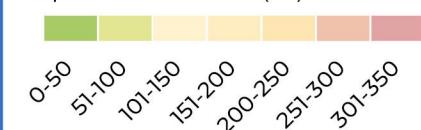


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**LEGEND**

Depth to bedrock (ft.)

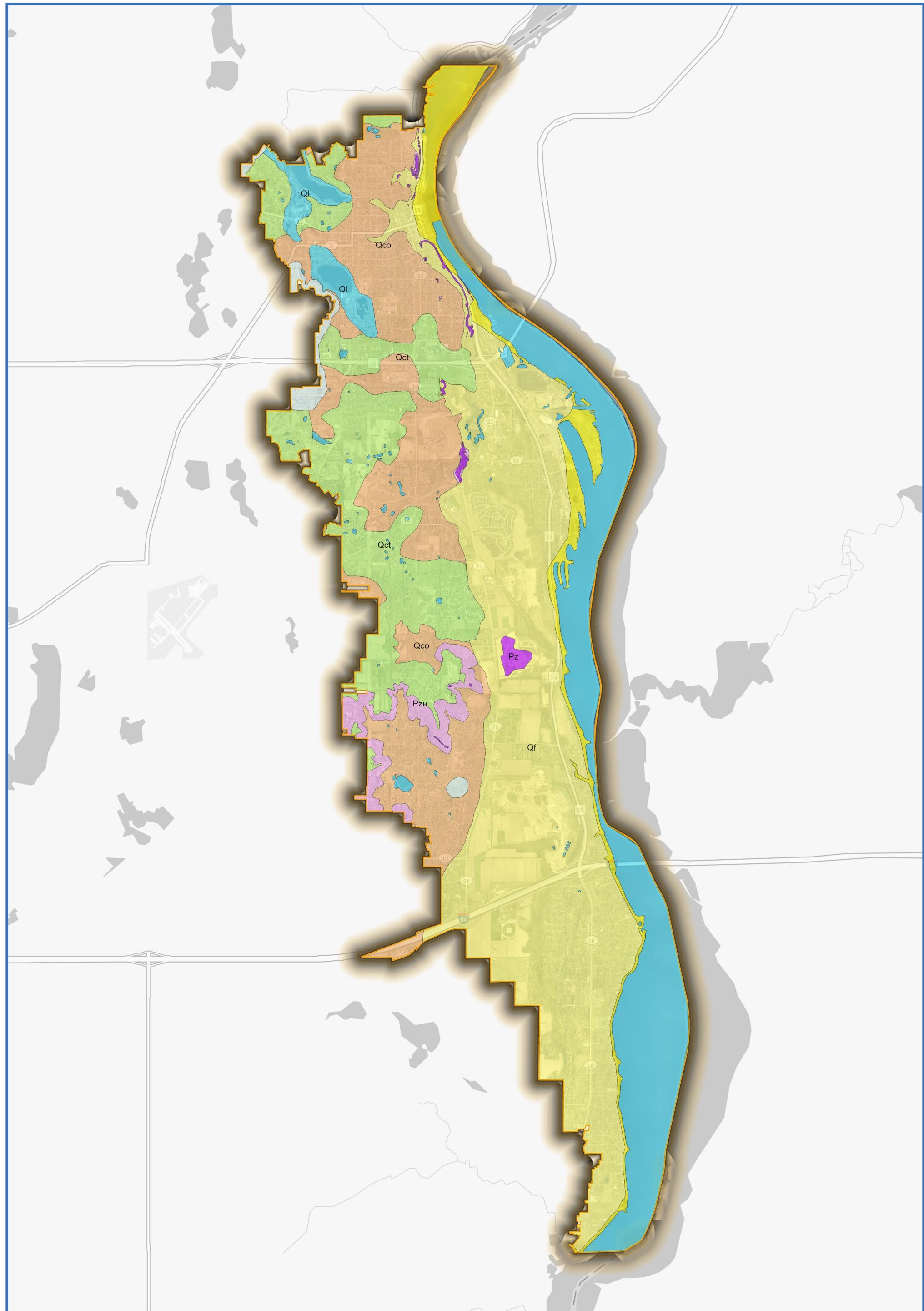


— Depth to bedrock contour

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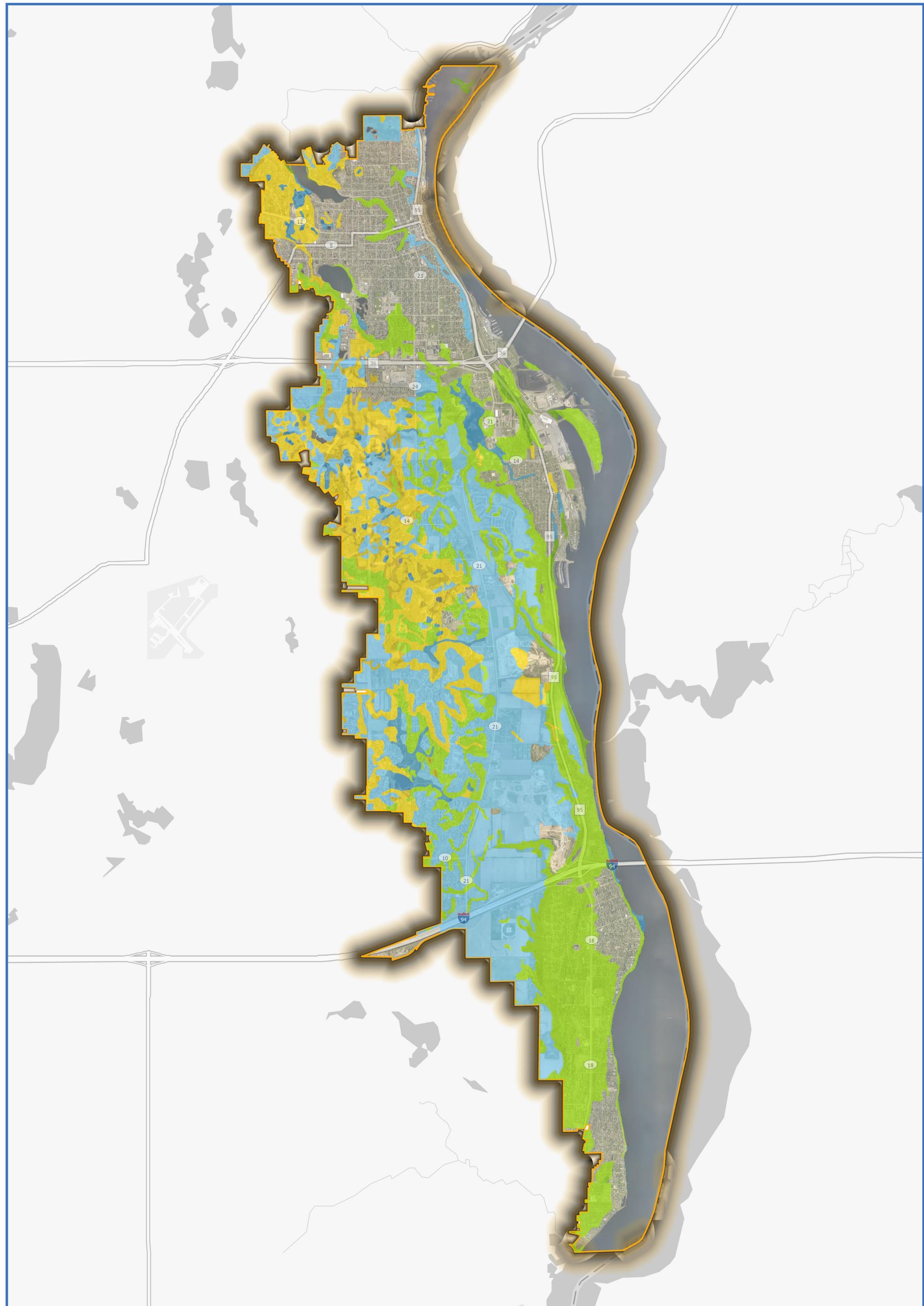
LEGEND

Gravely sand, clay, silt	Sand, silt, clay, Cromwell Fm.	Diamicton, Cromwell Fm.
Silt, sand, clay	Sand to gravel, Cromwell Fm.	Bedrock at or near the surface
Gravely sand		Bedrock outcrop

Credits: WCD, Washington County, Metropolitan Council, MPCA, MDNR, ESRI

0 1.25 2.5 Miles



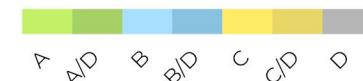


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#### LEGEND

Soil Hydrologic Group

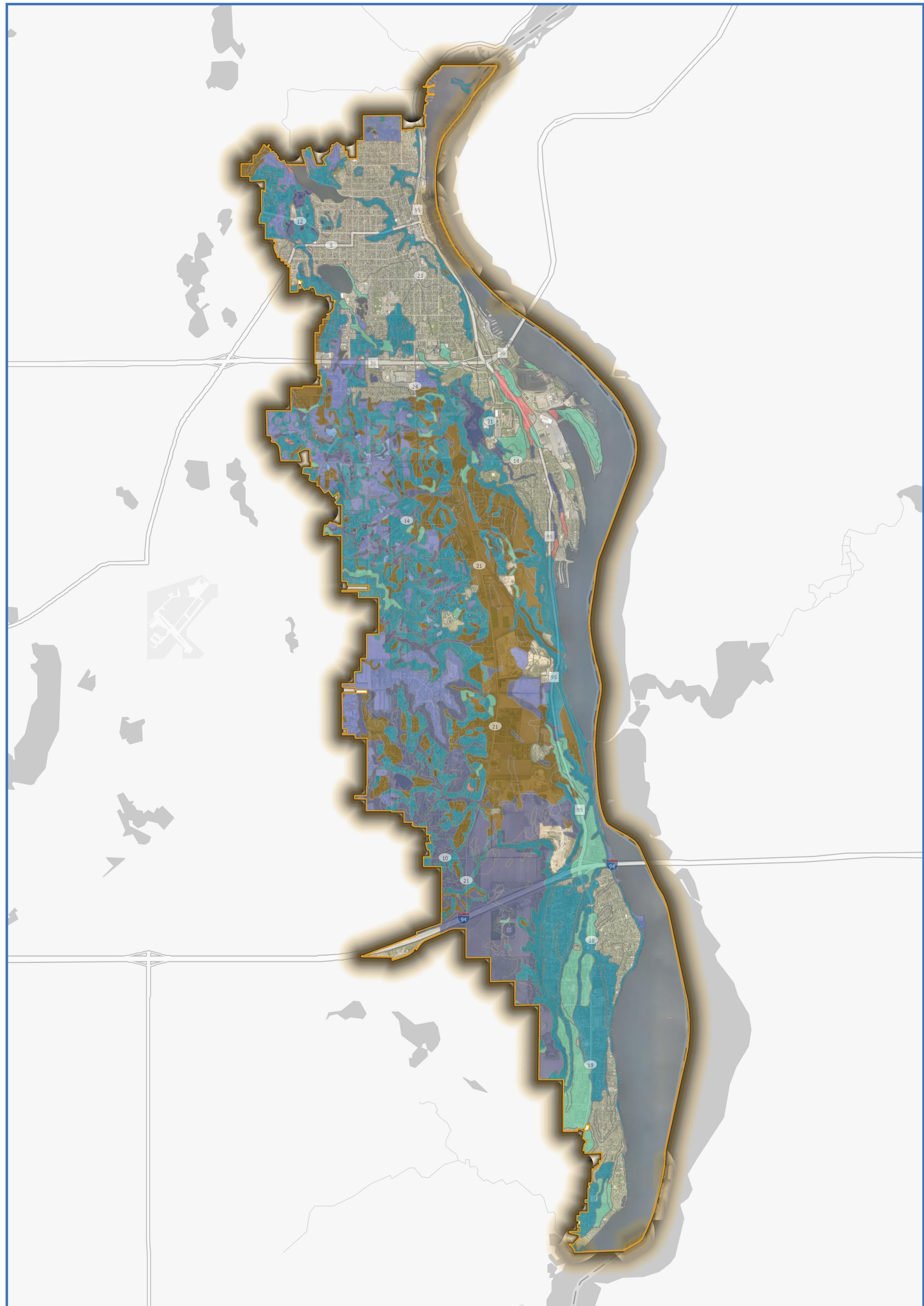


Group A soils have low runoff potential, group D soils have high runoff potential. For dual hydrologic groups, the first letter represents drained areas, and the second is undrained areas.

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**LEGEND**

Unified Soil Classification

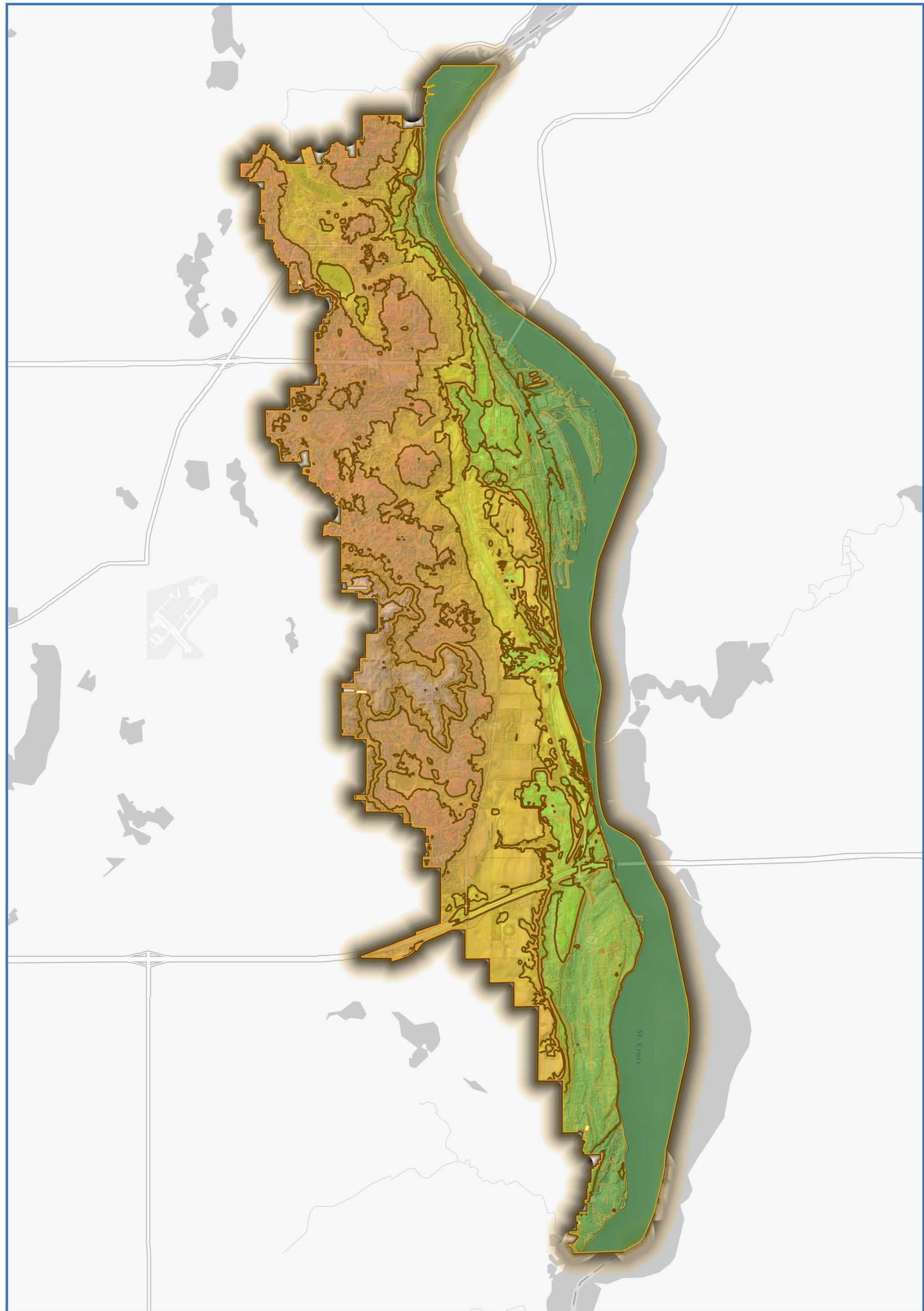
C	CL-ML	M	OL	PT	SC-SM	SM	Not Rated
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C = clay  
M = silt  
S = sand  
O = organic  
L = low plasticity  
PT = peat

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**LEGEND**

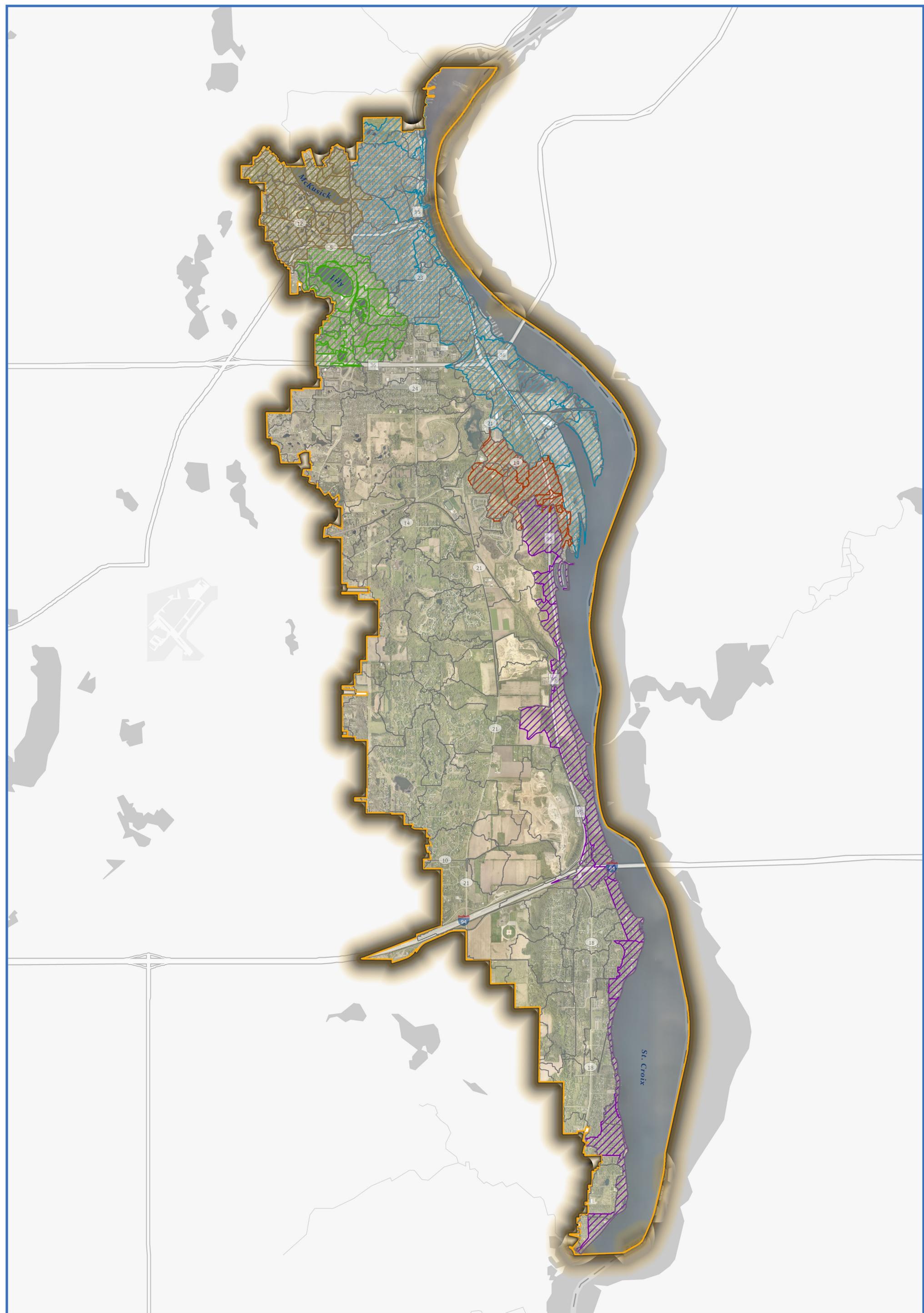
- Index 50' Contour
- Intermediate 10' Contour

670 ft  
1100 ft

Credits: WCD, Washington County,  
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USDA NRCS, ESRI

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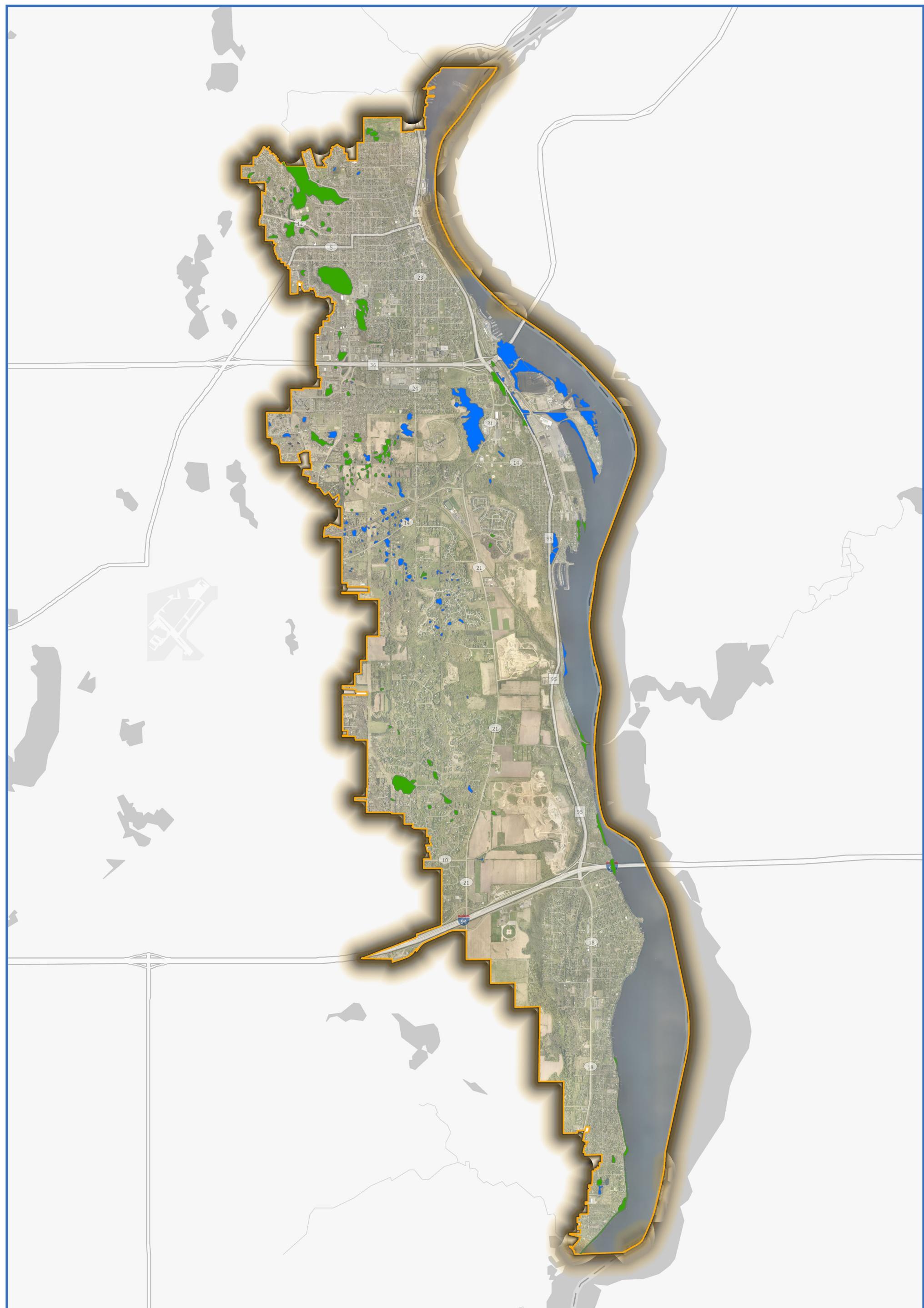
#### LEGEND

- Surface Drainage Catchments
- McKusick Catchments
- Lily Lake Catchments
- Perro Creek Catchments
- St. Croix Direct North Catchments
- St. Croix Direct South Catchments

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#### LEGEND

MnRAM-Wetland Functional Assessment

Management Class

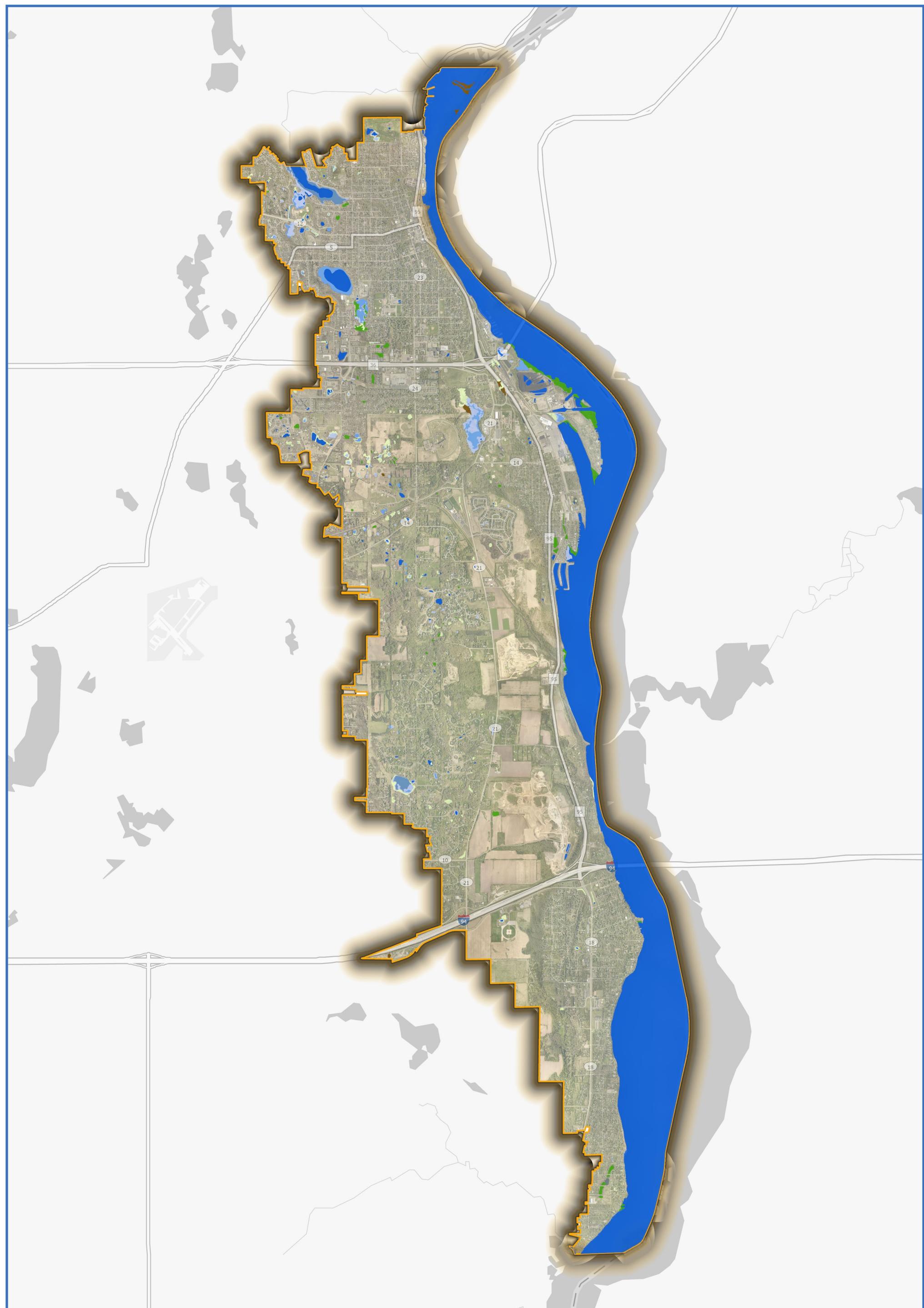
A

B

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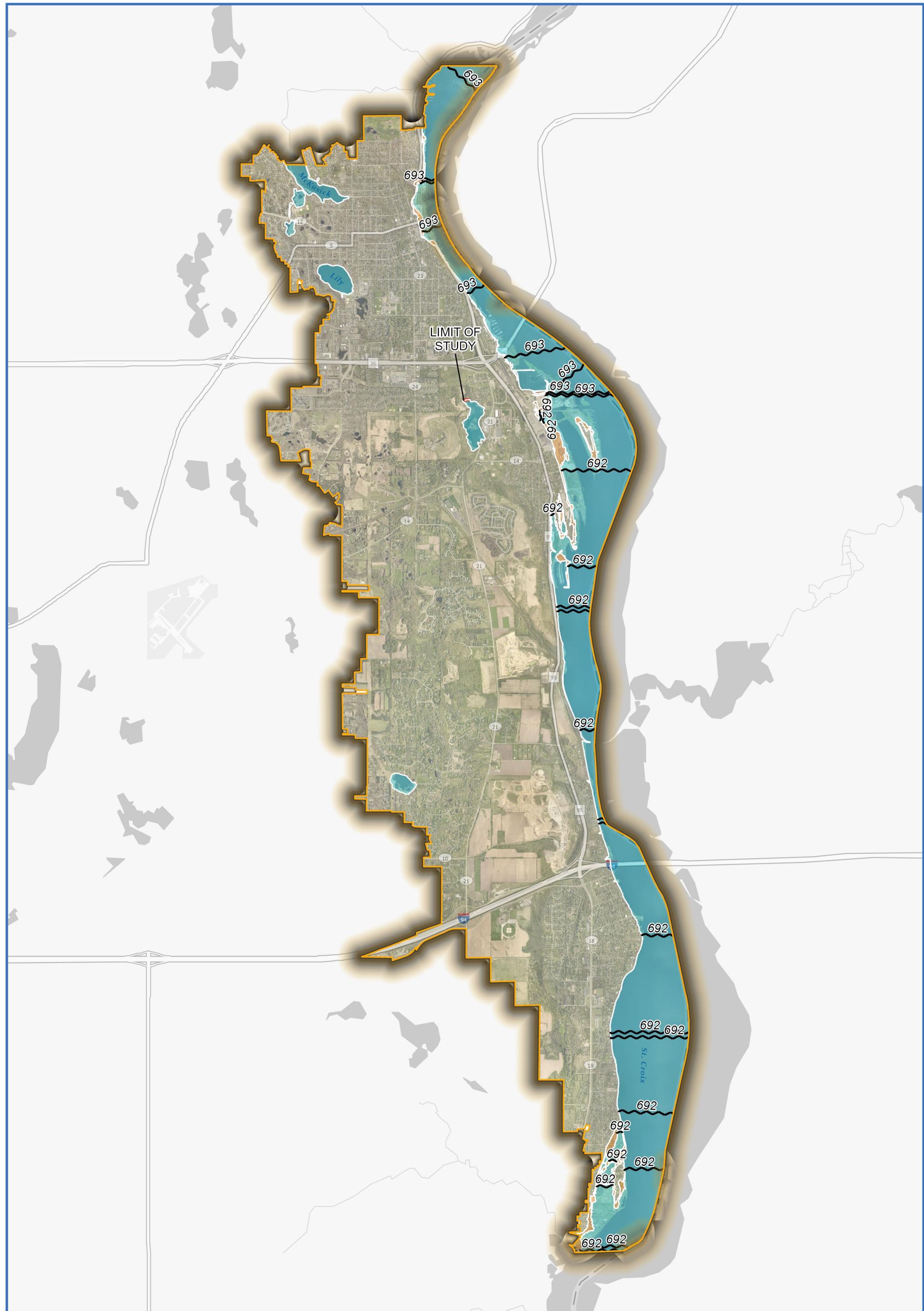
**LEGEND**

Shallow Marsh	Coniferous Bog
Shallow Open Water Community	Hardwood Wetland
Deep Marsh	Shrub Wetland
Non-Vegetated Aquatic Community	

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#### LEGEND

- ~~ Base Flood Elevations
- Flood Hazard Boundaries
- Limit Lines
- SFHA / Flood Zone Boundary

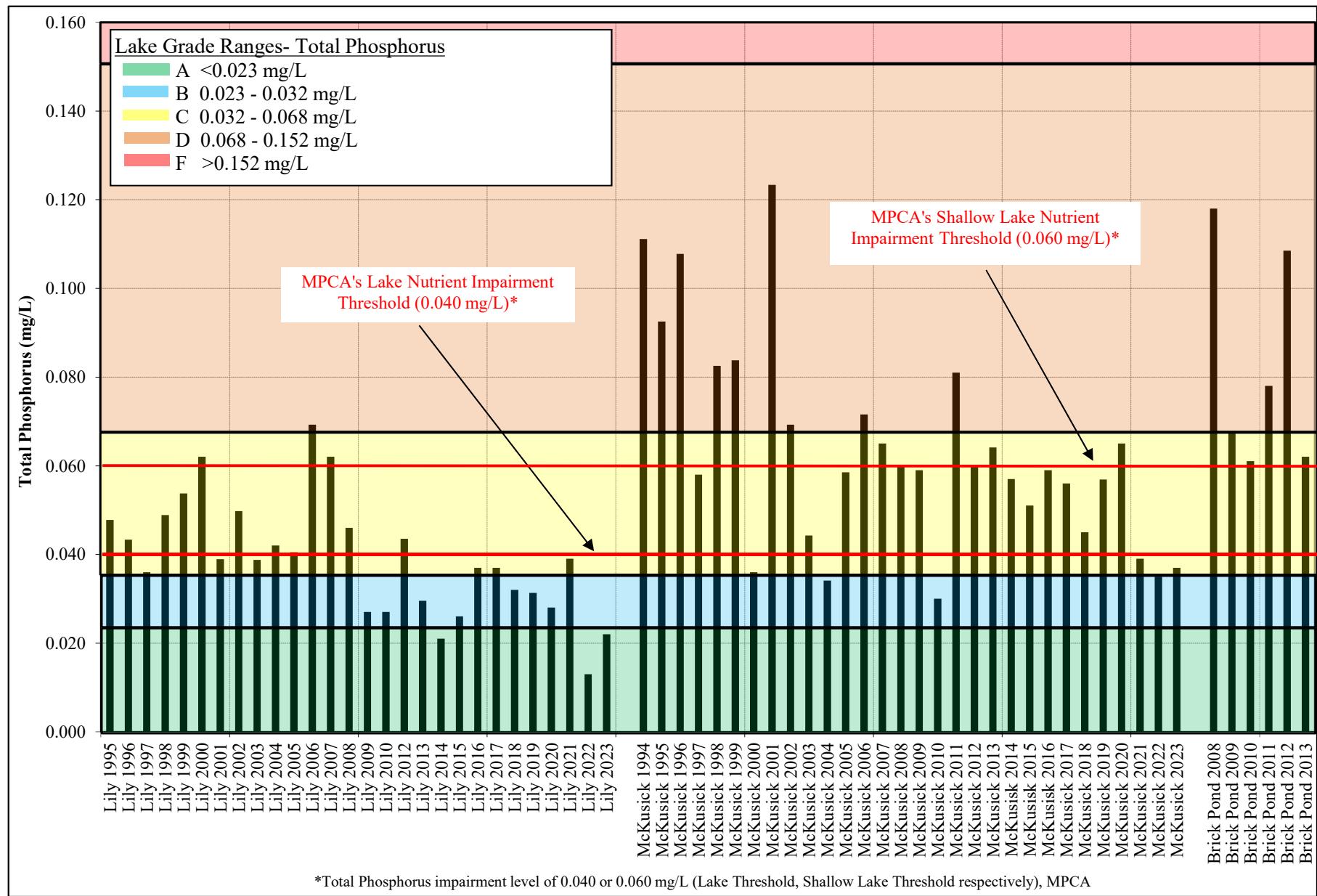
#### Flood Hazard Zones

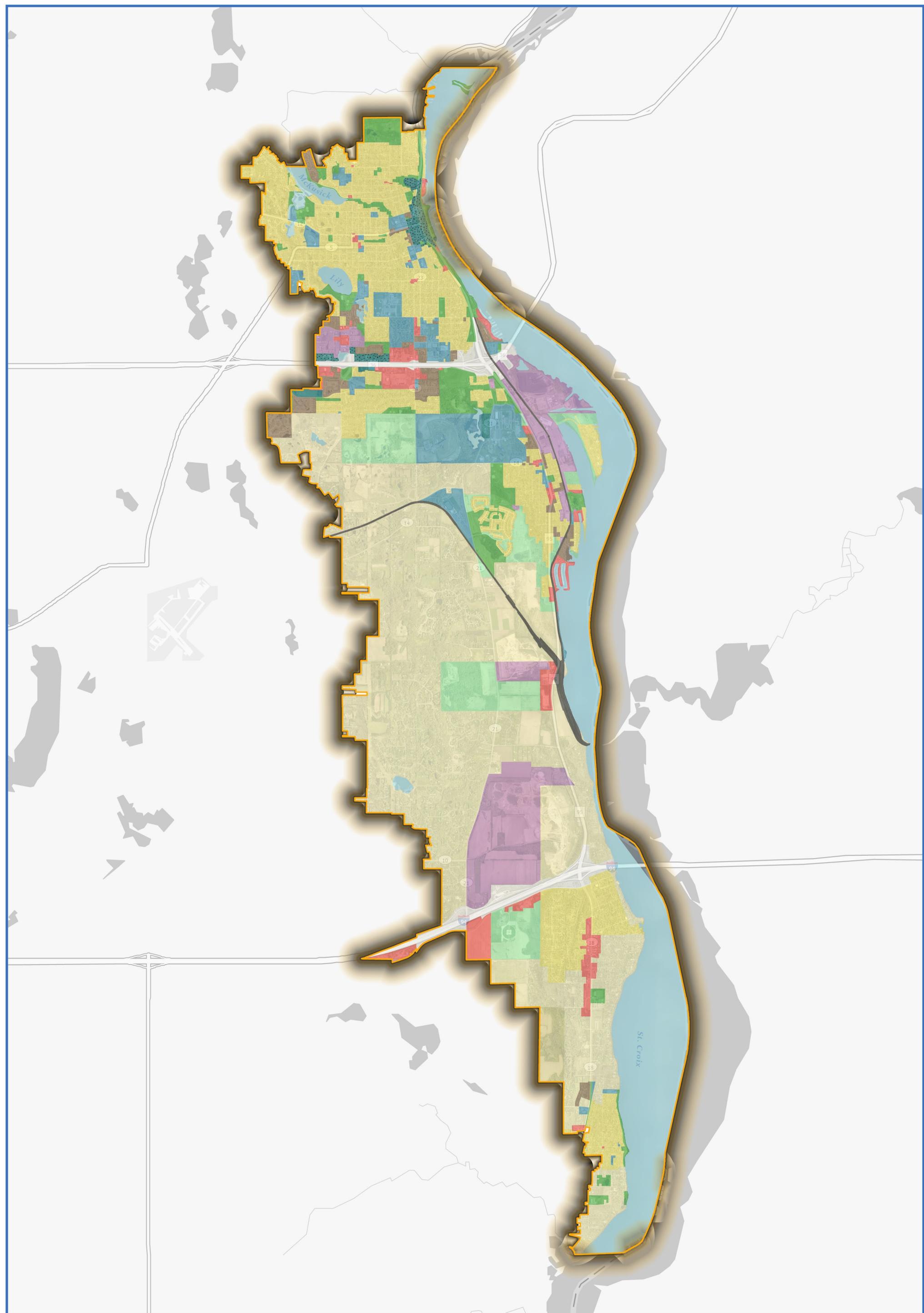
- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard

Credits: WCD, Washington County, Metropolitan Council, FEMA, MDNR, ESRI

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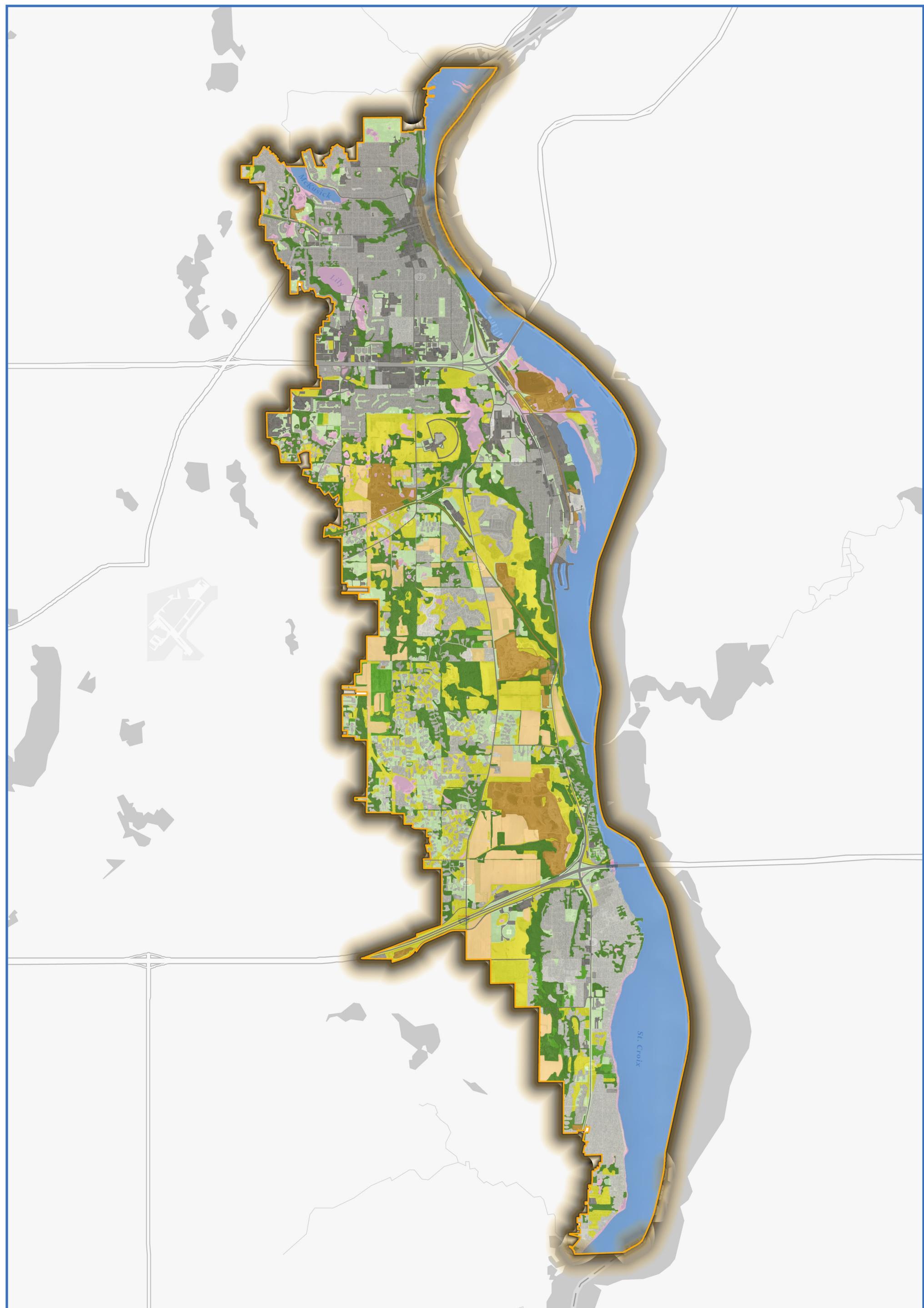
Agricultural	Industrial
Rural or Large-Lot Residential	Institutional
Single Family Residential	Mixed Use
Multifamily Residential	Multi-Optional Development
Commercial	Park and Recreation

Open Space or Restrictive Use
Rights-of-Way (i.e., Roads)
Railway (inc. LRT)
Open Water

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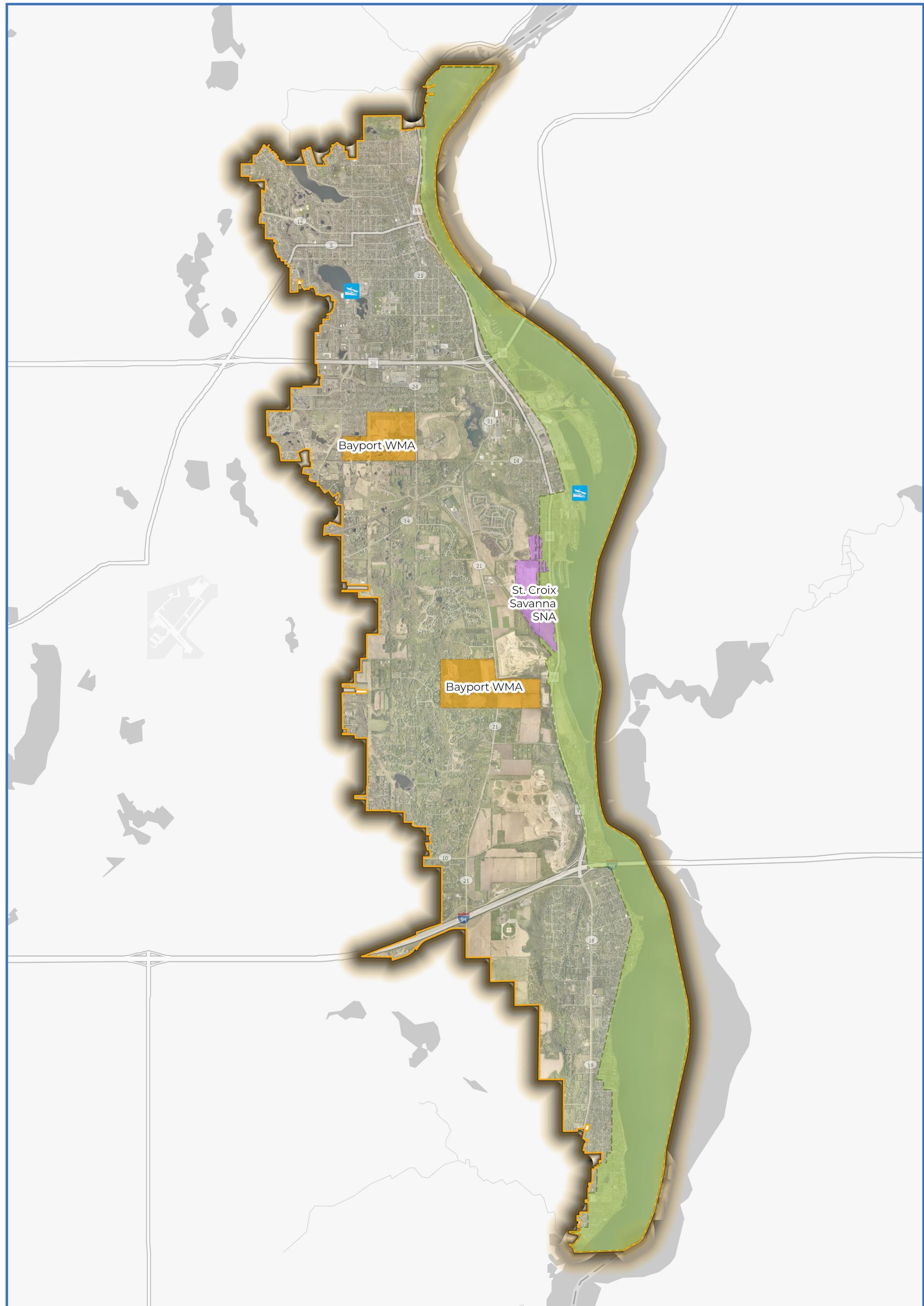
**LEGEND**

4 - 10 Impervious	Exposed or Transitional	Open Water
11 - 25 Impervious	Cropland	Wetlands
26 - 50 Impervious	Maintained Grasses	
51 - 75 Impervious	Planted Trees	
76 - 90 Impervious	Forest/Woodland	
91 - 100 Impervious	Grasslands	

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#### LEGEND

Protection Areas

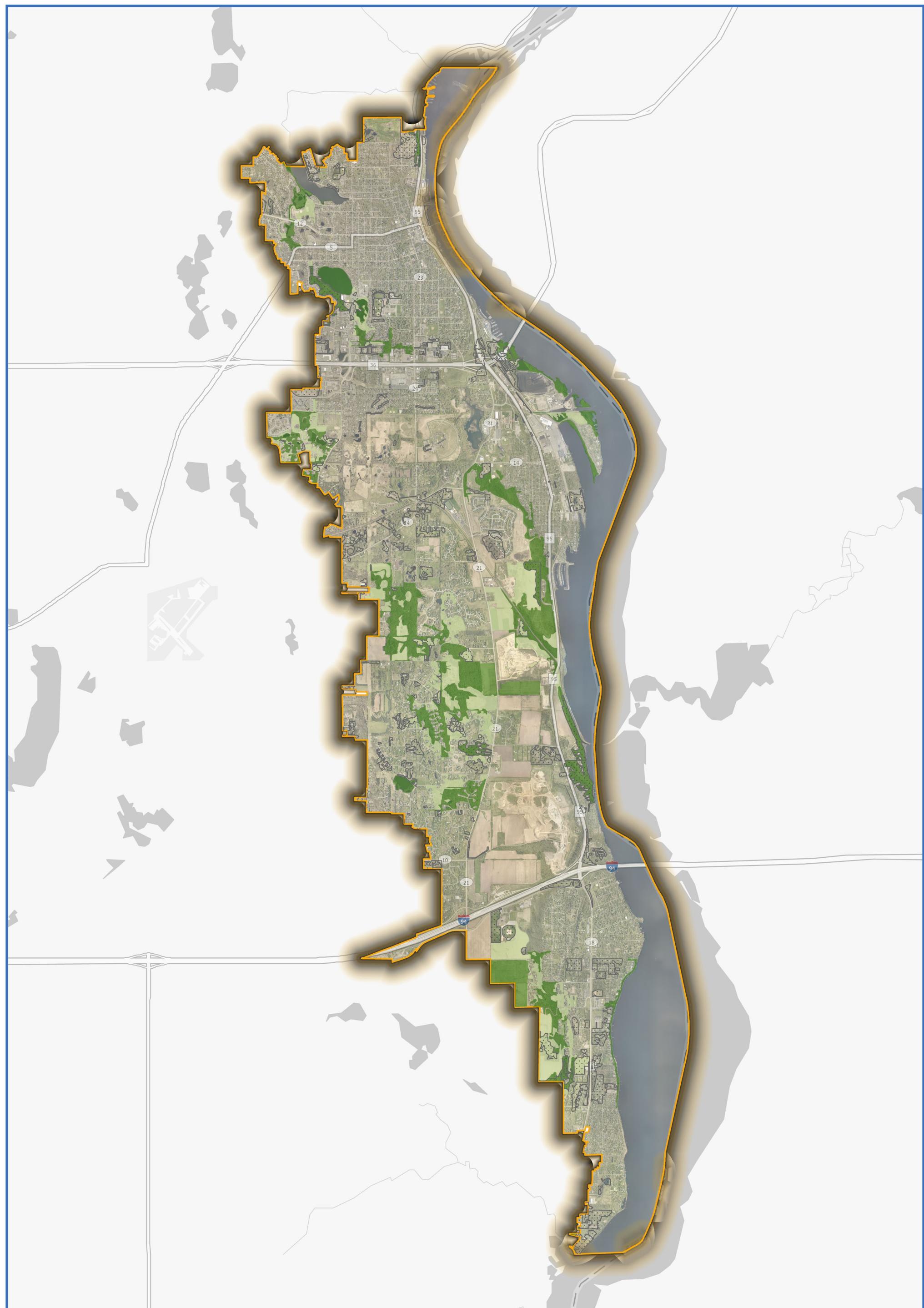
- Wildlife Management Area (Orange)
- Scientific and Natural Area (Purple)
- National Scenic Riverway (Green)

Public Water Access

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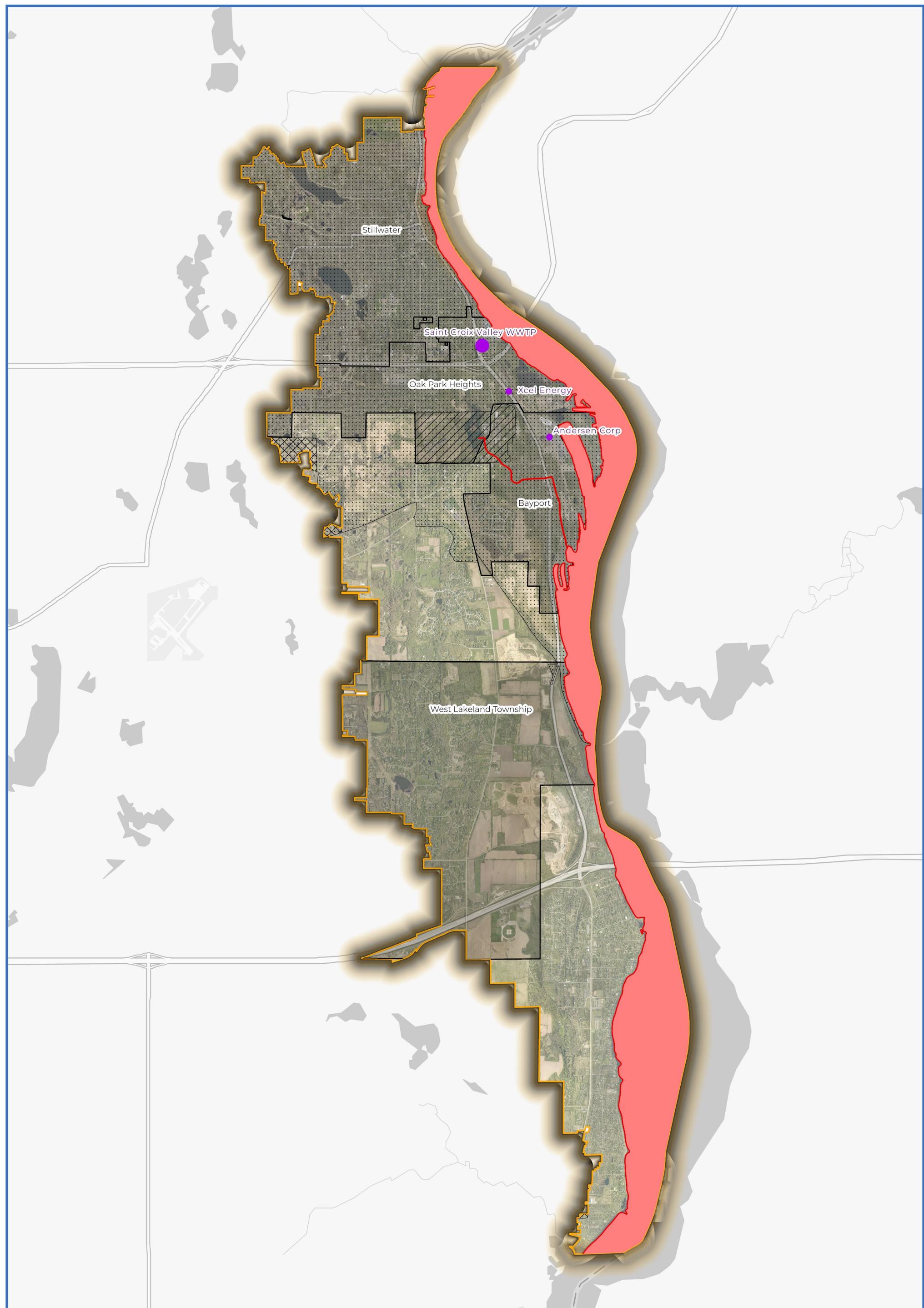
#### LEGEND

- BWSR Pollinator Sweet Spots
- County LPSF Core Habitats
- County LPSF Potential Wildlife Corridors

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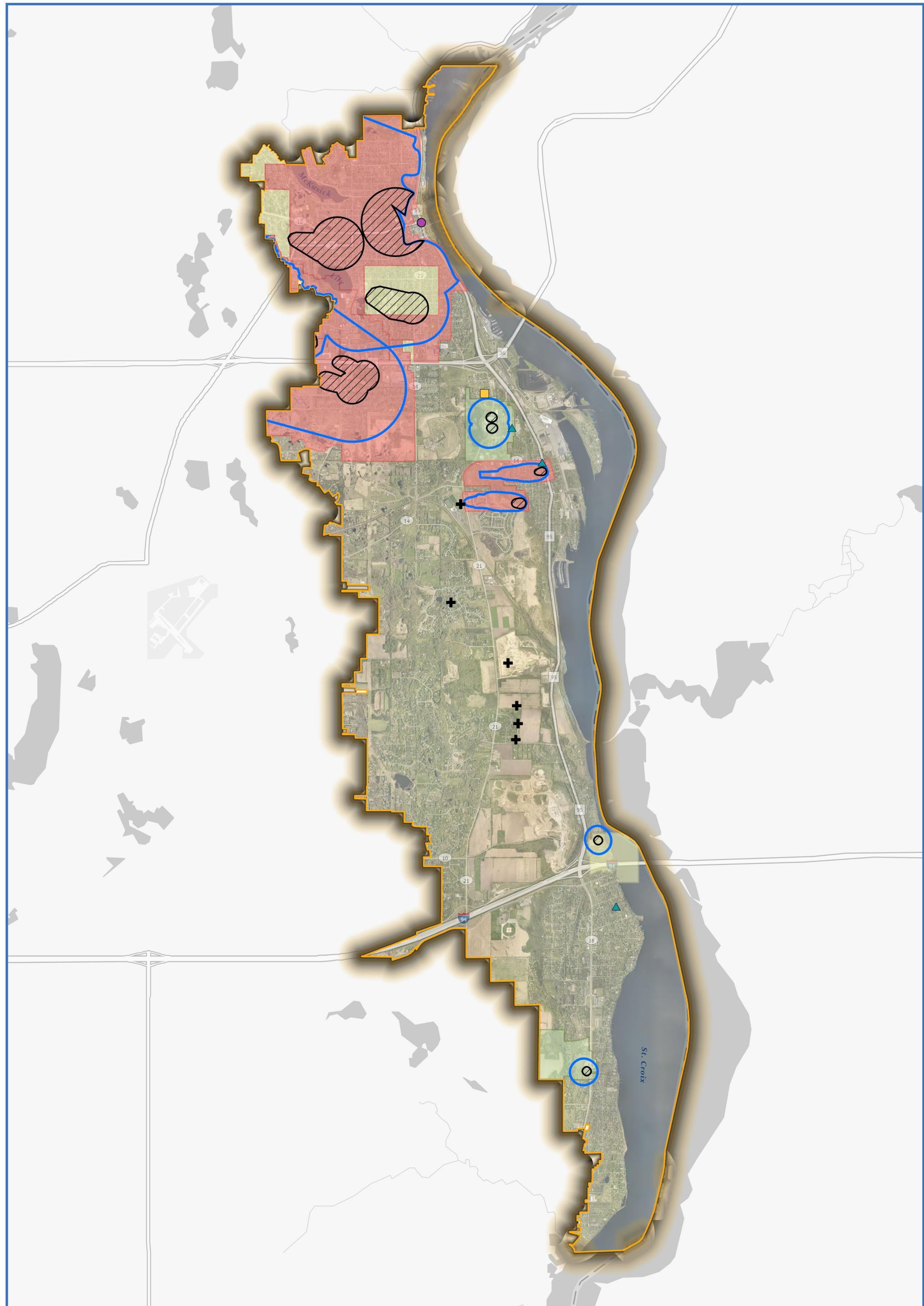
- Impaired Streams
- Impaired Lakes
- Permitted TP discharge (kg/yr)
  - 0 - 1000
  - 1000 - 3000
  - 3000 - 9000

Municipal Separate Storm Sewer System

- Non-traditional
- MNDOT/County
- Watershed District
- City or Township

0 1.25 2.5 Miles





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**LEGEND**

PFAS Health Risk Index (HRI)

▲ PFAS not detected (HRI = 0)

■ HRI <= 1

● HRI > 1

✚ Karst Features

▨ Emergency Response Areas

▬ Wellhead Protection Areas

DWSMA Vulnerability

■ High

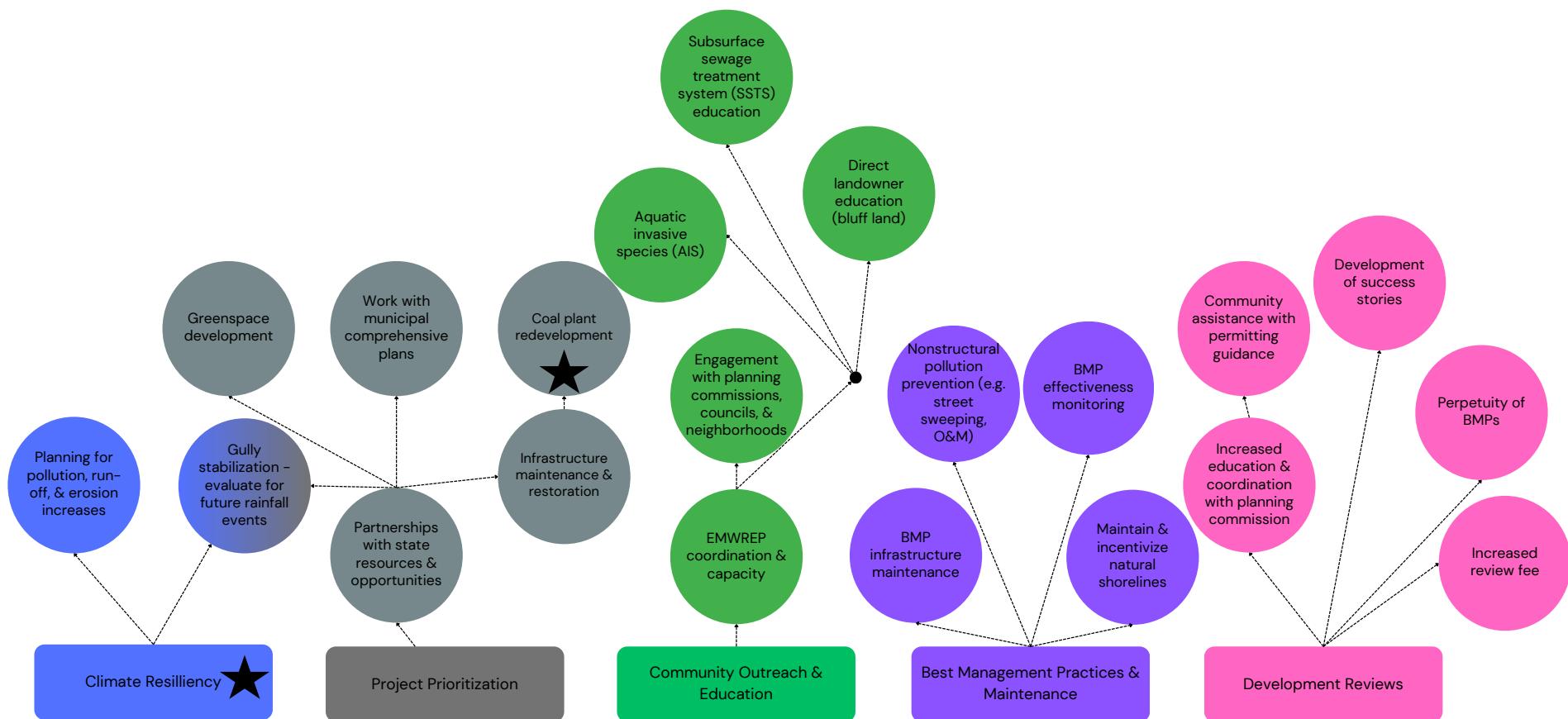
▨ Moderate

▬ Low

Credits: WCD, Washington County, Metropolitan Council, MPCA, MDOH, ESRI

0 1.25 2.5 Miles





# Middle St. Croix WMO Management Plan Update

2025-2035  
Technical Advisory Committee  
Priorities

