

McHenry County Water Resources Action Plan 2020 Update



Prepared by:

Water Resources Action Plan Task Force
and

McHenry County Department of Planning and Development

McHenry County Water Resources Action Plan (WRAP) 2020 Update

INTRODUCTION

- Discussion of WRAP
- McHenry County Demographics
- Land Uses

WATER RESOURCES

- General Water Resources
- McHenry County Water Resources
- Water Conservation
- Water Quality

MAJOR WATER ISSUES

- Climate Change
- Flooding
- Drought
- Green Infrastructure

LAND USES & BEST MANAGEMENT PRACTICES

- Residential/Commercial
- Industrial Development
- Transportation
- Agriculture
- Open Space
- Recreation
- Golf Courses

Introduction



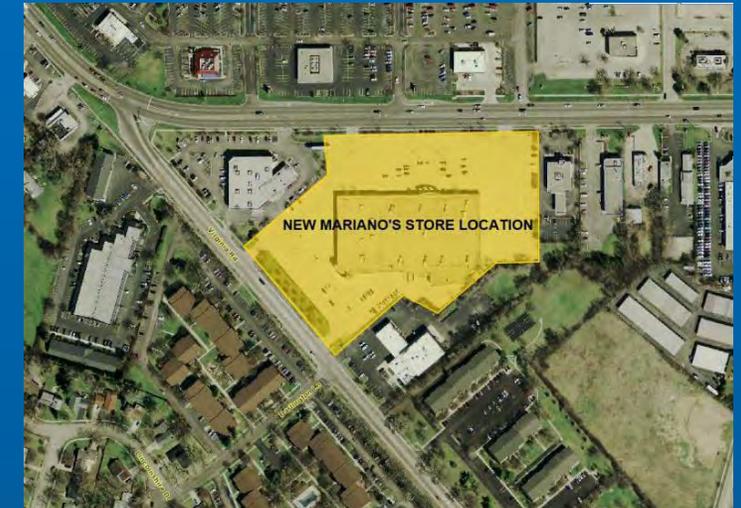
1. WRAP Overview

- Purpose
- History
- Methodology



2. County Overview

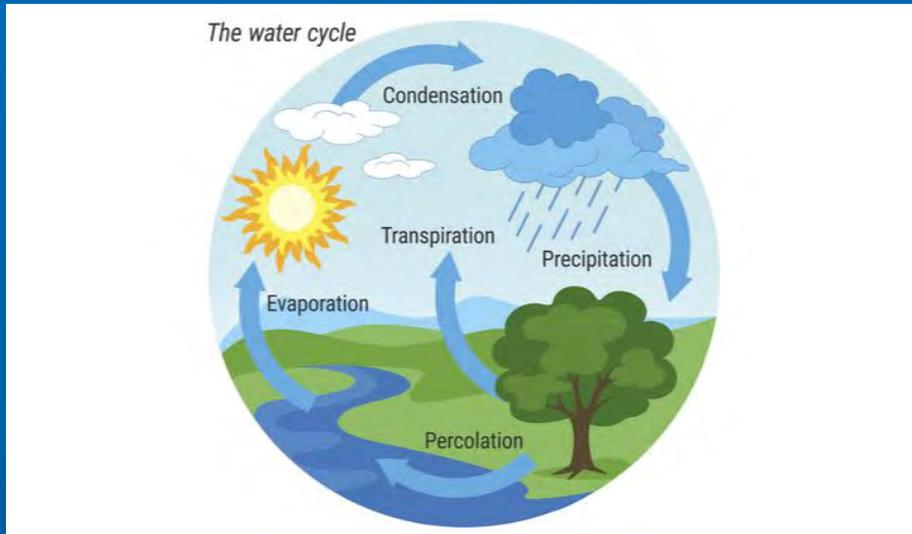
- Demographics
- Land Cover
- Geography



3. General Land Uses

- Housing
- Businesses
- Agriculture
- Open Space

Water Resources



4. General Water Resources

- Hydrologic Cycle
- Surface Water
- Groundwater
- Watersheds



5. McHenry County Water Resources

- Watersheds
- Surface Water
- Groundwater
- Class III Groundwater Recharge

Water Resources



6. Water Quality

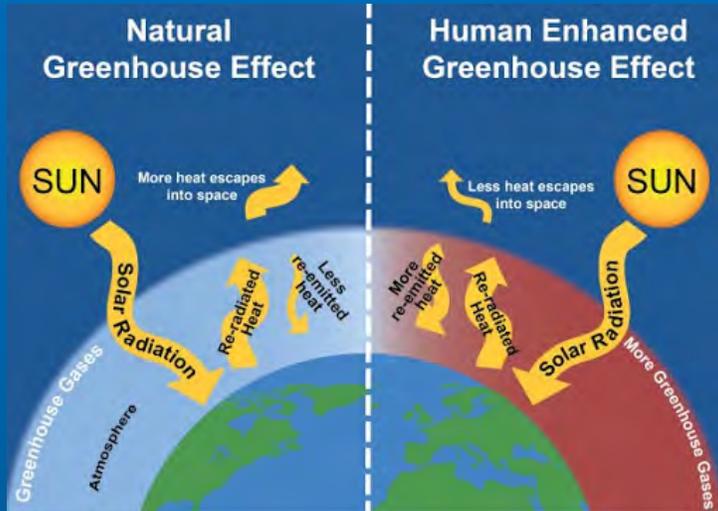
- Pollutants
- Drinking Water
- Waste Water
- Stormwater
- Surface Water



7. Water Conservation

- Municipal
- Residential
- Commercial Business
- Green Building

Major Water Issues



8. Climate Change

- Background
- Forecasted Changes
- Mitigation
- Adaptation



9. Flooding

- Types of Flooding
- Stormwater
- Floodplain/Floodway
- Flood Mitigation



10. Drought

- Causes
- Impacts
- Planning

Major Water Issues



Bioswale



Raingarden



Turf-to-Native

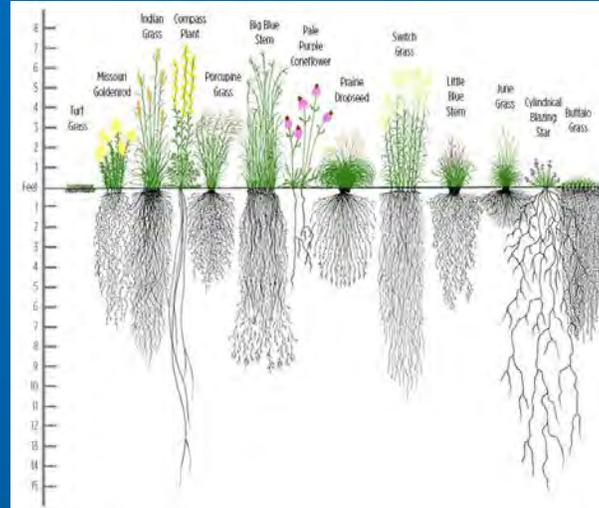
11. Green Infrastructure

- **Definition**
- **Stormwater Management – Best Management Practices (BMP)**
- **BMP Maintenance**

Land Uses and BMPs



Smart Growth



Stormwater BMPs



Pollution Prevention

12. Residential and Commercial Development

- Transit Oriented Development, Infill/Brownfield, Conservation Design
- Low Impact Development – Best Management Practices (BMP)
- Nutrient Reduction, Household Hazardous Waste, Coal-Tar Sealants

Land Uses and BMPs



Industrial Stormwater BMPs



Sand and Gravel Mining



Salvage and Scrap Yards

13. Industrial Development

- **Industrial Stormwater Regulations and BMPs**
- **Sand and Gravel Mining Regulations and BMPs**
- **Salvage and Scrap Yard BMPs**

Land Uses and BMPs



Transportation & Water Quality



Complete Streets



Sensible Salting

14. Transportation

- Vehicles, Roads, Parking Lots, and Water Quality
- Green Infrastructure, Street Trees, ROW Landscaping, Invasive Species
- Catch Basin Cleaning, Street Sweeping
- Sensible Salting

Land Uses and BMPs



Farmland Preservation



Conservation Practices



Soil Health

15. Agriculture

- **Farmland Preservation**
- **NRCS Conservation Best Management Practices**
- **Soil Health, Cover Crops, Nutrient Loss Reduction**
- **Agri-Tourism**

Land Uses and BMPs



16. Open Space

- Natural Resources
- Parks
- Greenways
- Tourism



17. Recreation

- Swimming
- Boating
- Fishing
- Hunting
- Equestrian

Land Uses and BMPs



Water Quality



Water Conservation



Natural Resources

18. Golf Courses

- Water Quality, Fertilizers, Pesticides, Waterway Buffers
- Water Conservation, Water Sources, Irrigation Practices, Landscaping
- Natural Resources, Green Infrastructure, Ecosystem Services

Water Resources Action Plan



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