

Michigan Water School 2020 Webinar Series Resources

Contents

Blue Economy	1
Community Improvement Plans	1
Dam Removal.....	2
Drinking Water.....	2
Funding Opportunities:.....	3
General Infrastructure	3
Green Infrastructure and Flood Planning	3
Groundwater.....	4
Planning and Zoning.....	4
Pollution.....	4
Road Salts.....	5
Septic Systems	5
Wastewater and Water Infrastructure	5
Water Quality.....	6
Wetlands.....	6

Blue Economy

- Michigan’s Blue Economy report:
<https://michiganblueeconomy.org/wp-content/uploads/2015/03/Michigan-Blue-Economy-Report.pdf>
- Michigan’s Blue Economy webpage: <https://michiganblueeconomy.org/>
- Michigan Economic Center, Blue Economy:
<https://www.michiganfoundations.org/sites/default/files/resources/Blue-Economy-Whitepaper.pdf>

Community Improvement Plans

- EGLE webpage of key resources - Land Use Planning to Protect Water Quality:
https://www.michigan.gov/egle/0,9429,7-135-3313_71618_3682_3714-479775--,00.html
- Local government has an important role for water quality protection:
https://www.canr.msu.edu/news/local_government_has_an_important_role_for_water_quality_protection

- Prioritizing capital investments; capital improvement program: https://www.canr.msu.edu/news/prioritizing_capital_investments_capital_improvement_program_part_2
- The Michigan Infrastructure Council (MIC) Asset Management Readiness Assessment Scale: <https://www.michigan.gov/MIC>
- Local Government Planning Resources for Water Quality Protection: https://www.michigan.gov/egle/0,9429,7-135-3313_71618_3682_3714-479775--,00.html
- Michigan's Water Strategy: <https://www.michigan.gov/og/0,9077,7-362-85258---,00.html>
- Summary of the Economic Impact of the Huron River: <https://www.hrwc.org/wp-content/uploads/2017/10/Summary-Huron-River-Economic-Impact-web.pdf>

Dam Removal

- Association of State Dam Safety: <https://damsafety.org/>.
 - Dam Removal in Michigan, Byron Lane, EGLE: https://www.michigan.gov/documents/deq/Dam_Removal_in_Michigan_318183_7.pdf.
 - EGLE Dams Regulated by the State of Michigan: <https://egle.maps.arcgis.com/apps/webappviewer/index.html?id=f8c0637f34864bcbabb9c794fd8e452b>.
 - EGLE Dam Safety: https://www.michigan.gov/egle/0,9429,7-135-3313_3684_3723---,00.html.
 - FEMA Dam Safety: <https://www.fema.gov/emergency-managers/risk-management/dam-safety>.
 - MDNR Dam Management: https://www.michigan.gov/dnr/0,4570,7-350-79136_79236_80249---,00.html.
- A Primer on Dam Removals in Michigan by Joe Rathbun, EGLE: <https://www.mi-wea.org/docs/A%20Primer%20on%20Removals%20in%20MI%20-%20Rathbun.pdf>.

Drinking Water

- University of Michigan Lead & Copper Rule brochure: [Click here for an explanation of Michigan's laws around water contamination from lead and copper, updated in 2018 and now the nation's most progressive](#)
- EGLE Lead & Copper Rule with Sampling Information: https://www.michigan.gov/egle/0,9429,7-135-3313_3675_3691-9677--,00.html
- University of Michigan Lead & Copper Rule webpage: In 2018, Michigan adopted the country's most proactive Lead and Copper Rule (LCR). This stringent new regulation protects public health by requiring Michigan's public water utilities to take additional actions to reduce lead and copper levels in drinking water.

<http://graham.umich.edu/project/revised-lead-and-copper-rule/what-elected-officials-need-know>

- EGLE PFA's Response:
<https://www.michigan.gov/pfasresponse>
<https://www.michigan.gov/pfasresponse/0,9038,7-365-86513---,00.html>
- Environmental Working Group site before; gives info on what is in our tap water:
https://www.ewg.org/tapwater/?gclid=Cj0KCQjwuL_8BRCXARIsAGiC51DBi9dQAGYvmeAojAb0Uj6D_u6i9CgNvHrH3jcREUm6Hs2bvIzSjYQaArEIEALw_wcB
- The WHO Water Safety Guide:
https://www.who.int/water_sanitation_health/water-quality/en/

Funding Opportunities:

- Grant and Loan opportunities via EGLE - the 319 funds can be used in part to develop watershed management plan: https://www.michigan.gov/egle/0,9429,7-135-3307_3515---,00.html
- New MI Clean Water Infrastructure Funding opportunities from EGLE - webinar recording: <https://register.gotowebinar.com/recording/8381465398658871810>
- EPA Grants: <https://www.epa.gov/grants>
- Nonpoint Source Watershed Planning RFP FY 2020 Information: https://www.michigan.gov/egle/0,9429,7-135-3313_71618_3682_3714-516808--,00.html

General Infrastructure

- American Society of Civil Engineering Report Card:
<https://www.infrastructurereportcard.org/state-item/michigan/>.
- Strong Towns:
https://www.strongtowns.org/about?gclid=EA1aIQobChMI0sCb-drn7AIVzsDACH0J1wcaEAAYASAAEgJvOvD_BwE.

Green Infrastructure and Flood Planning

- SEMCOG Green Infrastructure Vision:
<https://www.semco.org/desktopmodules/SEMCOG.Publications/GetFile.ashx?filename=GreenInfrastructureVisionForSoutheastMichiganMarch2014.pdf>
- Friends of the Rouge Rain Garden webpage: <https://therouge.org/rainsmart>
- Tip of the Mitt Rain Garden webpage: <https://www.watershedcouncil.org/rain-gardens.html>
- Tip of the Mitt Stormwater & Green Infrastructure Tools:
<https://www.watershedcouncil.org/stormwater-management-and-green-infrastructure-tools.html>
- Wisconsin Green Infrastructure Work Book by Julia Noordyk:
http://seagrant.wisc.edu/home/Portals/0/Files/Coastal%20Communities/Green_Infrastructure/DRAFT_GIworkbook_complete.pdf

- Preparing for Variable Lake Levels – Michigan Sea Grant:
<https://www.michiganseagrant.org/wp-content/uploads/2019/12/michug11009.pdf>
- MI Sea Grant Lake Levels webpage:
<https://www.michiganseagrant.org/topics/coastal-hazards-and-safety/lake-levels/>

Groundwater

- EGLE Water Well Viewer:
<https://www.mcgi.state.mi.us/waterwellviewer/>
- EGLE Water Use webpage- includes links to Parts 317 & 327, Great Lakes Compact, Water Withdrawal Assessment Tool, Water Use Advisory Council, and more:
https://www.michigan.gov/egle/0,9429,7-135-3313_3684_45331---,00.htmluncil.
- Jim Milne- Water Use Assessment Supervisor milnej@michigan.gov
- Ottawa County Groundwater Sustainability Initiative:
<https://www.miottawa.org/GroundWater/strategy.htm>

Planning and Zoning

- SEMCOG Water Resource Plan for Southeast Michigan:
<https://semcog.org/water>
- Superior Township in Washtenaw County Master Plan:
<https://superiortownship.org/planning-commission/revise-master-plan/>
- For Model Environmental Ordinances for Local Governments:
<https://ped.macombgov.org/PED-LandAndWater-About-ModelEnvironmentalOrdinances>
- Existing approved and pending watershed management plans in Michigan:
https://www.michigan.gov/documents/deg/wrd-nps-approved-watershed-plans_431188_7.pdf
- Southwest Michigan Planning Commission Water Protection Ordinances:
<https://www.swmpc.org/gaps.asp>
- NPS Approved Watershed Management Plans:
https://www.michigan.gov/documents/deg/wrd-nps-approved-watershed-plans_431188_7.pdf

Pollution

- Microplastics:
<https://www.hrwc.org/what-we-do/programs/knowledge-networks-outreach/microplastic-pollution-from-microplastic-fibers/>
- Map of Uncontrolled CSO's:
https://www.google.com/maps/d/u/0/edit?mid=1VkV8popUqkS-sQNY9HIIhHA-KX3iY5_&usp=sharing

- EGLE MiWaters - Permitting and compliance information, including: public notice search, CSO/SSO Discharge search, Site Map Explorer, Report spills, pollution, and unauthorized activities: <https://miwaters.deq.state.mi.us/miwaters/external/home>
- Water Softeners: [MN Pollution Control Agency](#)

Road Salts

- Winter Parking Lot and Sidewalk Maintenance Manual: <https://www.pca.state.mn.us/sites/default/files/p-tr1-10.pdf>
- Minnesota Department of Transportation, Salt sustainability: http://www.dot.state.mn.us/maintenance/salt_sustainability.html
- Winter Maintenance for Michigan Roads: <http://miwintermaintenance.weebly.com/manual-and-presentation.html>

Septic Systems

- EPA Funding for Septic Systems: <https://www.epa.gov/septic/funding-septic-systems>
- EPA Homeowner Septic System Resources: <https://www.epa.gov/septic/more-resources-homeowners-septic-systems>
- MSU Extension Septic Systems: https://www.canr.msu.edu/septic_system_education/
https://www.canr.msu.edu/septic_system_education/resources_for_homeowners
- Tip of the Mitt Septic System Resources: <https://www.watershedcouncil.org/septic-systems.html>
- EPA Septic System Policies: <https://www.epa.gov/septic/septic-systems-guidance-policy-and-regulations>

Wastewater and Water Infrastructure

- Anaerobic Digestion, US EPA: <https://www.epa.gov/anaerobic-digestion>.
- Anaerobic Digestion and its Application, US EPA: https://www.epa.gov/sites/production/files/2016-07/documents/ad_and_applications-final_0.pdf.
- Energy Efficiency in Water and Wastewater Facilities, U.S. EPA: <https://www.bing.com/videos/search?q=MSU+Anerobic+digestion+video&docid=608005479239778547&mid=5D5A15F3D047B57B43BB5D5A15F3D047B57B43BB&view=detail&FORM=VIRE>.
- Energy Efficiency for Wastewater Treatment Plants, Lyn Corum, Water World: <https://www.waterworld.com/drinking-water/treatment/article/14070820/energy-efficiency-for-wastewater-treatment-plants>.
- The Energy Roadmap: A Water and Wastewater Utility Guide to More Sustainable Energy Management, Water Environment Federation:

- <https://news.wef.org/wef-energy-roadmap-serves-as-user-guide-for-utilities-of-all-sizes/>.
- Michigan State University Anaerobic Digestion Video:
<https://www.bing.com/videos/search?q=MSU+Anaerobic+digestion+video&docid=608005479239778547&mid=5D5A15F3D047B57B43BB5D5A15F3D047B57B43BB&view=detail&FORM=VIRE>
- A Primer for Municipal Wastewater Treatment Systems, US EPA:
<https://www.epa.gov/sites/production/files/2015-09/documents/primer.pdf>

Water Quality

- Cleaning Michigan Initiative:
https://www.michigan.gov/egle/0,9429,7-135-3307_3515-314499--,00.html
- Harmful Algal Blooms resources:
<https://www.michiganseagrant.org/topics/coastal-hazards-and-safety/harmful-algal-blooms/>
- Eat Safe Fish:
https://www.michigan.gov/mdhhs/0,5885,7-339-71548_54783_54784_54785_58671-296074--,00.html

Wetlands

- Protecting Michigan's Wetlands A Guide for Local Governments:
http://www.watershedcouncil.org/uploads/7/2/5/1/7251350/wetland_ebookfinal.pdf
- UW Extension Bookstore- Aquatic Plants:
<https://www.uwsp.edu/cnr-ap/UWEXLakes/Pages/resources/bookstore/default.aspx>