



Web Site: [www.muskegonlake.org](http://www.muskegonlake.org)

Face Book Page / Face Book Group: Muskegon Lake Watershed Partnership  
316 Morris Ave., Suite 340, Muskegon, MI 49440 Phone: 231 722-7878 x 17

## **Muskegon Lake Action Plan**

### **Water Quality - Green Infrastructure - Stormwater Management Implementation Framework**

- Goal:** Surface waters within the watershed are safe for drinking, swimming and fishing
- Outcome:** Surface waters meet state and federal water quality standards
- Action Plan:** The numbers following each initiative, below, relate to the Muskegon Lake Action Plan Water Quality/Green Infrastructure/Stormwater Chapter [www.muskegonlake.org](http://www.muskegonlake.org)

### **MAJOR INITIATIVES**

**Bringing Back Beidler's Creek** – A U.S. EPA Great Lakes Restoration Initiative grant to WMSRDC will implement green infrastructure to improve storm water quality in the Division Street Storm Drain (formerly Beidler's Creek) before it flows into Muskegon Lake at Rotary Park at Heritage Landing. More partners are needed to achieve the project goals. The project will improve water quality, aquatic habitat and prevent the recontamination of a 60-acre lake bottom area, cleaned up with the U.S. EPA Great Lakes Legacy Act and the MDEQ Clean Michigan Initiative in 2012. (*Recommendations 3, 4, 5, 6, 7, 10*)

**Bear Creek Watershed** – A U.S. EPA Great Lakes Restoration Initiative grant to the Delta Institute provided funds for WMSRDC, Muskegon County Road Commission, Muskegon Conservation District and Muskegon River Watershed Assembly to implement on-the-ground projects to reduce the amounts of sediment and nutrients that enter Bear Lake from the Bear Creek watershed. Completion of the Zephyr Refinery Upland North cleanup project managed by the MDEQ is anticipated in 2019. (*Recommendations 1, 3, 4, 5, 10*)

**Ryerson Creek Watershed** – The MLWP is seeking partnerships to develop a multi-jurisdictional, land use and educational partnership to reduce urban stormwater runoff for the protection of the Ryerson Creek ecosystem and Muskegon Lake. A Great Lakes Legacy Act public-private partnership will remove contaminants in Muskegon Lake at the mouth of the creek in 2020. (*Recommendations 1, 3, 7, 10*)

**Ruddiman Creek Watershed** – Following up on the work funded under the Great Lakes Legacy Act of 2002 to address chemical contamination and dumping in the creek, the MLWP is interested in the development of non-point source projects and partnerships to improve in-stream habitat and water quality through stormwater management, stream bank erosion control and mitigation for flashy flows and flooding. (*Recommendations 1, 3, 4, 5, 6, 10*)

## EDUCATION AND OUTREACH GOALS

### Green Infrastructure, Low Impact Development and Site Plan Review

The Muskegon Lake Watershed Partnership supports the use of low impact development and green infrastructure for stormwater management, and programs providing technical, Best Management Practice trainings for planning commissions, landowners and developers. (*Recommendations 4, 5, 6, 7, 10*)

### Preservation of Natural Resources

The Muskegon Lake Watershed Partnership supports stewardship and the preservation of unique and functional natural characteristics for the protection of water resources through land use planning and site plan review. (*Recommendations 4, 5, 7, 10*)

### Regional Green Infrastructure

The Muskegon Lake Watershed Partnership supports the development of natural biofiltration systems, wetlands and regional stormwater retention to control stormwater runoff, flashy flows, erosion and non-point source pollution. (*Recommendations 4, 5, 7, 10*)

## CONTINUING EFFORTS

The Muskegon Lake Watershed Partnership works with community partners to identify land suitable for wetland construction, wetland restoration and rain gardens. Local governments and property owners can contact the MLWP or WMSRDC to explore the potential for partnership and assistance on projects.

## RESOURCES

**Michigan Shoreland Stewards**

[www.mishorelandstewards.org](http://www.mishorelandstewards.org)

**Muskegon Conservation District**

[www.muskegoncd.org](http://www.muskegoncd.org)

**National Resource Conservation Service (NRCS)**

[www.nrcs.usda.gov](http://www.nrcs.usda.gov)

**West Michigan Environmental Action Council**

[www.wmeac.org](http://www.wmeac.org)

**MDEQ Nonpoint Source Program**

[www.michigan.gov/deq/0,4561,7-135-3313\\_71618\\_3682\\_3714-106374--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3313_71618_3682_3714-106374--,00.html)

**Landscaping for Water Quality – Garden Designs for Homeowners**

[www.michigan.gov/documents/deq/wrd-nps-landscape4wq\\_401217\\_7.pdf](http://www.michigan.gov/documents/deq/wrd-nps-landscape4wq_401217_7.pdf)

**Wisconsin Department of Natural Resources – Rain Gardens A how to Manual for Homeowners**

<http://clean-water.uwex.edu/pubs/pdf/rgmanual.pdf>



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