

MS4 Progress Report

version 1.17

(Submission #: HP6-Y6NN-M6NRB, version 1)

Details

Submission ID HP6-Y6NN-M6NRB

Status Submitted

Form Input

Section 1. General Facility Information, Nested MS4 and Outfalls/Points of Discharge

Municipality/Site Name

Waverly Community Schools

Nested MS4s:

1. Are you carrying out the terms and conditions of the permit for each nested MS4 listed in your permit? Select **❖NOT APPLICABLE❖** if you do not nest any regulated MS4s as part of your permit coverage.

Not Applicable - Nested MS4s not included in permit

2. Are you currently a Phase I or Phase II permittee?

Phase II

3. Did you add or remove any nested MS4s during the reporting period that have not been approved? If yes, submit a request for approval to add or remove a nested MS4 in accordance with Part I.A.1.b. of the permit.

NO

New Outfalls and/or Points of Discharge

4. Did you identify, construct, or install any new outfalls or points of discharge that have not been authorized? If yes, submit a request to authorize the discharge of storm water from the new outfall or point of discharge in accordance with Part I.A.2. of the permit as an Unscheduled Permit Required Report in MiWaters.

NO

Section 2. Enforcement response Plan (ERP)

Upload referenced documentation identified below and other information relevant to the implementation of your ERP.

NONE PROVIDED

Comment

NONE PROVIDED

1. Were there any changes made to the approved ERP during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each ERP measurable goal and/or implement ongoing activities consistent with the measurable goals?

YES

3. Provide the reference (paragraph & page) to the document submitted above describing progress made toward implementing the ERP to compel compliance using enforcement actions (e.g. summarize findings from tracking method).

Continuing to Educate community on Stormwater management

4. Identify the total number of enforcement actions taken during the reporting period (Type 0 if none).

0

5. Will you continue to implement the approved ERP during the next reporting cycle? If you responded "yes with changes" or "no", submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 3. Public Participation/Involvement Program (PPP)

Upload referenced documentation identified below and other information relevant to the PPP

NONE PROVIDED

Comment

NONE PROVIDED

1. Were there any changes made to the approved PPP during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each PPP measurable goal and/or implement ongoing activities consistent with the measurable goals?

YES

3. Provide the reference to the document submitted above describing progress made toward implementing the PPP and meeting each measurable goal, including a summary of results.

Posted Public Notice on all district building doors for 30 days.

4. Will you continue to implement the approved PPP during the next reporting cycle? If you responded "YES with changes" or "NO," submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 4. Public Education Program (PEP)

Upload referenced documentation identified below and other information relevant to the PEP.

[GLRC Progress Report Template_2016-2020.doc - 03/16/2021 01:17 PM](#)

Comment

NONE PROVIDED



1. Were there any changes made to the approved PEP during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each PEP measurable goal and/or implement ongoing activities consistent with the measurable goals?

YES

3. PEP TOPICS

Provide the reference to the document submitted above describing progress made toward implementing the PEP and meeting each measurable goal, including a summary of results. If the PEP topic is not a part of the approved PEP, include  Not Applicable  in the comment box.

PEP Topic 1: Promote public responsibility and stewardship in the applicant's watershed.

See GLRC document

PEP Topic 2: Inform and educate the public about the connection of the MS4 to area waterbodies and the potential impacts discharges could have on surface waters of the state.

See GLRC document

PEP Topic 3: Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.

See GLRC document

PEP Topic 4: Promote preferred cleaning materials and procedures for car, pavement, and power washing.

See GLRC document

PEP Topic 5: Inform and educate the public on proper application and disposal of pesticides, herbicides, and fertilizers.

See GLRC document

PEP Topic 6: Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter into the MS4.

Signs posted as shown in the permit.

PEP Topic 7: Identify and promote the availability, location, and requirements of facilities for collection or disposal of household hazardous wastes, travel trailer sanitary wastes, chemicals, yard wastes, and motor vehicle fluids.

N/A

PEP Topic 8: Inform and educate the public on proper septic system care and maintenance, and how to recognize system failure.

N/A

PEP Topic 9: Educate the public on, and promote the benefits of, green infrastructure and Low Impact Development.

See GLRC document

PEP Topic 10: Identify and educate commercial, industrial, and institutional entities likely to contribute pollutants to storm water runoff.

See GLRC Document

Overall PEP

4. Provide the reference to the document submitted above summarizing the evaluation of overall effectiveness of the PEP.

See Attached GLRC report.

5. Will you continue to implement the approved PEP during the next reporting cycle? If you responded "YES with changes" or "NO," submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 5. Illicit Discharge Elimination Program (IDEP)

Upload referenced documentation identified below and other information relevant to the IDEP.

[Waverly Community Schools Outfalls.pdf - 03/10/2021 07:23 AM](#)

[IDEP Training.pdf - 03/10/2021 07:25 AM](#)

Comment

NONE PROVIDED

1. Were there any changes made to the approved IDEP during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each IDEP measurable goal and/or implement the ongoing activities consistent with the measurable goals?

YES

3. Identify the number of outfalls and points of discharge in your storm sewer system.

See attached document Waverly Community Schools Outfalls.

4. Was dry weather screening (i.e., outfall observation, field screening, and source investigation) performed in accordance with the approved IDEP during the reporting period?

YES

5. How many illicit discharges were detected (Type 0 if none)?

0

6. How many of the illicit discharges led to an enforcement action? (Write 0 if none)

0

7. Was IDEP training provided in accordance with the approved program?

YES

8. Provide the reference to the document submitted above summarizing the evaluation and determination of overall effectiveness of the IDEP.

Continue to preform dry weather screenings as specified in the IDEP plan and continued BMP's for drain "No dumping" signs.

9. Will you continue to implement the approved IDEP during the next reporting cycle. If you responded "YES with changes" or "NO," submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 6. Construction Storm Water Runoff Control Program

1. Were there any changes made to the approved program during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each program measurable goal and/or implement ongoing activities consistent with the measurable goals?

YES

3. Do you continue to rely on the Part 91 Agency identified in the application (other than yourself) to implement a Soil Erosion and Sedimentation Control Program?

YES

4. Was the Part 91 agency, or appropriate staff if you are the Part 91 agency, notified when the soil or sediment was discharged to your MS4 from a construction activity in accordance with the approved procedure?

Not Applicable ♦ Soil or sediment was not discharged in accordance with the procedure during the reporting period

5. Was the Michigan Department of Environment, Great Lakes, and Energy (EGLE) notified when soil, sediment, or other pollutants were discharged to your MS4 from a construction activity in accordance with the approved procedure?

Not Applicable ♦ Soil or sediment was not discharged in accordance with the procedure during the reporting period

6. Was a Part 91 permit issued for all construction activity one acre or greater in total earth disturbance with the potential to discharge to your MS4?

No regulated construction activity during the reporting period

7. Will you continue to implement the approved program during the next reporting cycle? If you responded "YES with changes" or "NO," submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 7. Post-Construction Storm Water Runoff Program (i.e. Post-Construction Control or PCC Program)

Upload referenced documentation identified below and other information relevant to the PCC.

NONE PROVIDED

Comment

NONE PROVIDED

1. Were there any changes made to the approved PCC Program during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each PCC Program measurable goal and/or implement ongoing activities consistent with the measurable goals?

YES

3. Were the approved post-construction performance standards applied to all projects that disturb at least one or more acres, including projects less than one acre that are part of a larger common plan of development or sale, in accordance with the approved ordinance/regulatory mechanism?

YES

3a. Did you implement the approved procedure for reviewing the use of infiltration BMP's to meet the post-construction performance standards in areas of soil or groundwater contamination?

YES

3b. Were BMPs to address potential hot spots required in accordance with the approved ordinance/regulatory mechanism?

Not Applicable ♦ No projects in potential hot spots

3c. Were all site plans reviewed and approved to ensure compliance with the ordinance/regulatory mechanism/procedures?

YES

3d. Was a maintenance agreement or other legal mechanism entered with the owners or operators of each BMP to ensure long-term operation and maintenance in accordance with the approved ordinance/regulatory mechanism?

YES

3e. Were you approved to implement an off-site mitigation or payment in lieu program?

NO

3f. Did you approve projects subject to your off-site mitigation or payment in lieu program during the reporting period?

NO

4. Provide the reference to the document submitted above describing the status and results of implementing the procedure for tracking compliance with entered maintenance agreements or other legal mechanisms.

Ensured silt fences and catch basin filter were in place throughout project. Removed after vegetation was in full growth.

5. Will you continue to implement the approved PCC Program during the next reporting cycle? If you responded "YES with changes" or "NO," submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 8.A. Pollution Prevention and Good Housekeeping Program (P2/GH) - Structural Controls, Standard Operating Procedures, Catch Basin Cleaning, and Street Sweeping

Upload referenced documentation identified below and other information relevant to the P2/GH Program.

[Parking lot Sweeping workorder.pdf - 03/11/2021 06:55 AM](#)

[Structural BMP Table.pdf - 03/22/2021 07:38 AM](#)

Comment

NONE PROVIDED

1. Were there any changes made to the approved P2/GH Program during the reporting period which have not been reviewed and approved in accordance with the permit language?

NO

2. Did you complete each P2/GH Program measurable goal and/or implement ongoing activities consistent with the measurable goals?

NO

If NO, provide an explanation.

Implementing schedule for Structural BMP Inspections.

3. Did you update your structural control inventory in accordance with the approved procedure (i.e. additions, deletions, no longer owned or operated)?

Not Applicable ♦ No updates during the reporting period

4. For each facility with a Standard Operating Procedure (SOP) is the content up-to-date?

YES

4a. Are routine and comprehensive inspections being performed at each facility with an SOP in accordance with the approved schedule?

YES

5. Did you implement the identified BMPs at facilities with medium to low potential to discharge pollutants

YES

6. Were any new facilities added during the reporting period that were not reviewed and approved by EGLE? If yes, submit the assessment for approval in accordance with Part I.A.3.g.2. of the permit as an **Unscheduled Permit Required Report in MiWaters.**

NO

7. Were the inspection, maintenance, and cleaning activities for the following structural controls implemented in accordance with the approved procedure?

Structural Control Type:	Inspection and Maintenance Activities Conducted in accordance with Approved Procedures?	If "NO," provide an explanation:
Detention Basins	YES (Provide date of last inspection/maintenance) Certify date inspection and/or maintenance was last completed? 10/20 Mowed and maintained like a lawn as permitting.	NONE PROVIDED
Oil/Water Separators	NO	Currently scheduling for a cleaning.
Pump Stations	N/A: Do not own/operate	NONE PROVIDED
Secondary Containment	YES (Provide date of last inspection/maintenance) Certify date inspection and/or maintenance was last completed? Inspected daily as it is located inside Mechanics bay.	NONE PROVIDED
Vegetated Swales	N/A: Do not own/operate	NONE PROVIDED
Constructed Wetlands	N/A: Do not own/operate	NONE PROVIDED
Infiltration Basins/Trenches	NO	Creating an on going work order to complete this item
Porous Pavement	N/A: Do not own/operate	NONE PROVIDED
Rain Gardens	N/A: Do not own/operate	NONE PROVIDED
Underground Storage Vaults/Tanks	NO	Creating an on going work order to complete this item
Other Structural Controls (add rows as needed). Specify control type in explanation.	N/A: Do not own/operate	NONE PROVIDED

8. Provide the reference to the document submitted above demonstrating implementation of the procedure for inspecting, cleaning, and maintaining catch basins to ensure proper performance.

Attached is the reporting document for structural BMP inspecting. Creating an annual work order to complete this.

9. Provide the reference to the document submitted above demonstrating implementation of the approved procedure for sweeping streets, parking lots, and other impervious surfaces.

Continue Preventive maintenance work ordered. Updated as performed. See attached.

Section 8.B. P2/GH - Operation and Maintenance Activities and Employee Training

Upload referenced documentation identified below and other information relevant to BMPs or employee training.

IDEP Training.pdf - 03/10/2021 07:45 AM

Parking lot Sweeping workorder.pdf - 03/18/2021 07:00 AM

Comment

NONE PROVIDED

1. Are you implementing BMPs in accordance with your approved procedures to prevent or reduce pollutant runoff from the following operations and maintenance activities?

Activity:	BMPs Implemented?	Provide the reference to the document submitted above describing the BMPs implemented or an explanation of why BMPs were not implemented:
Road, Parking Lot, and Sidewalk Maintenance (e.g. pothole, sidewalk, and curb and gutter repair)	YES	Parking lots are maintained as needed. Sweeping curbs monthly. Re stenciled as needed.
Bridge Maintenance	N/A	NONE PROVIDED
Right-of-Way Maintenance	YES	NONE PROVIDED
Unpaved Road Maintenance	YES	The unpaved portion of the parking lot is graded as needed.
Cold Weather Operations (e.g. plowing, sanding, application of deicing agents, and snow pile disposal)	YES	All salt storage is covered.
Maintenance of permittee-owned vehicles (e.g. police, fire, school bus, public works), including certifying that no vehicles are washed with a discharge to the regulated MS4.	YES	All vehicle are washed inside a wash bay that discharges to Sanitary sewer.

2. Were all new permittee-owned and operated facilities or new structural stormwater controls for water quantity designed and implemented in accordance with the PCC performance standards and long-term operation and maintenance requirements?

Not Applicable ☒ No new water quantity facilities or structural stormwater controls during the reporting period

3. Was P2/GH training provided in accordance with the approved program?

YES

3a. If yes, provide the reference to the training records in the document submitted above or in Section 8a.

See attached IDEP Training

4. Is your pesticide applicator certified by the State of Michigan?

YES

5. Was contractor oversight provided to ensure contractors hired by the permittee comply with P2/GH BMPs when performing O&M activities?

YES

6. Will you continue to implement the approved P2/GH Program during the next reporting cycle? If you responded ☒ YES with changes ☒ or ☒ NO, ☒ submit the SWMP modification request information as required by Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Section 9. Total Maximum Daily Load (TMDL) Implementation Plan

Upload referenced documentation identified below and other information relevant to the TMDL Implementation Plan.

2018 TMDL Reports.pdf - 03/10/2021 11:07 AM

Comment

NONE PROVIDED

1. Is there a TMDL applicable to the discharge from your MS4 identified in your permit?

YES

2. List the TMDLs in your permit.

Carrier Creek TMDL and Grand River TMDL

3. Were the prioritized BMPs implemented as per the approved TMDL Implementation Plan?

YES

4. Provide the reference to the summary of any monitoring results including outfall monitoring, in-stream monitoring, or modeling in the document submitted above.

See Attached 2018 TMDL Reports.

5. Provide the reference to the document submitted above with the assessment of progress made toward achieving the TMDL pollutant load reduction requirements.

In progress of TMDL testing for continued monitoring.

6. Will you continue to implement the approved TMDL Implementation Plan during the next reporting cycle? If you responded "Yes with changes" or "no", submit the SWMP modification request information as required in Part I.A.4. of the permit as an Unscheduled Permit Required Report in MiWaters.

YES

Additional Information

Comments (As needed)

NONE PROVIDED

Additional Documents (As needed)

NONE PROVIDED

Comment

NONE PROVIDED

Attachments

Date	Attachment Name	Context	User
3/22/2021 7:38 AM	Structural BMP Table.pdf	Attachment	Kyle Scriptor
3/18/2021 7:00 AM	Parking lot Sweeping workorder.pdf	Attachment	Kyle Scriptor
3/16/2021 1:17 PM	GLRC Progress Report Template_2016-2020.doc	Attachment	Kyle Scriptor
3/11/2021 6:55 AM	Parking lot Sweeping workorder.pdf	Attachment	Kyle Scriptor
3/10/2021 11:07 AM	2018 TMDL Reports.pdf	Attachment	Kyle Scriptor
3/10/2021 7:45 AM	IDEP Training.pdf	Attachment	Kyle Scriptor
3/10/2021 7:25 AM	IDEP Training.pdf	Attachment	Kyle Scriptor
3/10/2021 7:23 AM	Waverly Community Schools Outfalls.pdf	Attachment	Kyle Scriptor

Status History

	User	Processing Status
3/3/2021 6:13:53 AM	Kyle Scriptor	Draft
3/29/2021 7:00:40 AM	Kyle Scriptor	Signing
3/29/2021 7:00:40 AM	Kyle Scriptor	Submitting
3/29/2021 7:01:44 AM	Kyle Scriptor	Submitted

Storm water IDEP Training 8/16/19

Name	Signature
Dean Sunderlin	Dean Sunderlin
Ricardo Martinez	Ricardo Martinez
Thomas Bennett	Tom Bennett
Raquel Hendra	Raquel Hendra
Paul Hendra	Paul Hendra
Jim Sossionis	Jim Sossionis
Chad Brooks	Chad Brooks
ANDY MEJIA	Andy Mejia
ALEX MEJIA	Alex Mejia
Daryl Harris	Daryl Harris
Steven Jay Buck	Steven Jay Buck
Keenan Lewis	Keenan Lewis
John Petersen	John Petersen
Scott Lee	Scott Lee
Zach Gleason	Zach Gleason
Tamra Kosier	Tamra Kosier
CHRIS COURSEY	Chris Coursey
BRUCE MACCONNELL	Bruce MacConnell
Tom Gregory	Tom Gregory
Mary Little	Mary E. Little
Johnny Sorrells	Johnny Sorrells
Kim Dwyer	Kim Dwyer
PAUL HOLMES	Paul Holmes

William Baker
Todd Stiles

William Baker
Todd Stiles

Storm water IDEP Training 8/16/19

[illegible]

Storm water IDEP Training 8/16/19

Name	Signature
Dean Sunderlin	Dean Sunderlin
Ricardo Martinez	Ricardo Martinez
Thomas Bennett	Tom Bennett
Raquel Hendra	Raquel Hendra
Paul Hendra	Paul Hendra
Jim Sossionis	Jim Sossionis
Chad Brooks	Chad Brooks
ANDY MEJIA	Andy Mejia
ALEX MEJIA	Alex Mejia
Daryl Harris	Daryl Harris
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Keenan Lewis	Keenan Lewis
John Petersen	John Petersen
Scott Lee	Scott Lee
Zach Gleason	Zach Gleason
Tamra Kosier	Tamra Kosier
CHRIS COURCY	Chris Courcy
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Storm water IDEP Training 8/16/19

[illegible]

Waverly Community Schools

Municipal Separate Storm Sewer System (MS4) Stormwater Program

Progress Report

May 2016 to December 31st, 2020

Submitted to:

Department of Environment, Great Lakes, and Energy



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1.0 General Information

This progress report is being submitted by the Waverly Community Schools in partial fulfillment of the requirements of the Phase II Stormwater National Pollutant Discharge Elimination System (NPDES) Permit No. MI0059954. The permit allows discharges from a municipal separate storm sewer system (MS4). The Michigan Department of Environment, Great Lakes, and Energy (EGLE) requires that a progress report be submitted on the implementation status of the current permit. Though progress reports are typically completed every two years, an error within the previous permit issued in 2013 did not account for delays in reissuance and therefore required reporting up to, not after, 2016. As such, this progress report will account for a longer reporting period between May 2016 and December 31st, 2020.

2.0 GLRC

The GLRC is a guiding body comprised of participating permitted MS4 communities within the Greater Lansing Region. The committee has been established to guide the implementation of the MS4 program for the communities within three identified urbanized watersheds: the Grand River, the Red Cedar River and the Looking Glass River Watersheds.

2.1 GLRC Background

In November 1999, nine communities and three counties in the Greater Lansing Area organized to discuss the Federal Regulations for the Stormwater Phase II Program. The result of this organization was an agreement to pool resources on a regional basis to fulfill the requirements of the program. Initially, based on 1990 census population data, these nine communities and three counties were the only entities in the Greater Lansing Area that were designated to participate in the Phase II “Voluntary Permit Program” by EGLE. Following several meetings of this group during late 1999 and early 2000, a resolution was drafted to establish the “Greater Lansing Area Regional NPDES Phase II Stormwater Regulations Committee” and representatives from each jurisdiction were named to serve on the committee.

Soon after the organization of the Committee in 2000, the Tri-County Regional Planning Commission (TCRPC) began to assist the committee in providing contractual, fiduciary, and administrative support. Tetra Tech was selected to produce a permit strategy study, and later to prepare the Voluntary Grant Permit Applications for each community. Again in 2002, Tetra Tech was retained to prepare watershed management plans (WMPs) for the Grand River and Red Cedar River watershed areas and would later prepare a WMP for the Looking Glass River watershed area.

Based on the increased population data following the release of the 2000 Census, ten additional communities were designated to meet the stormwater MS4 requirements under Federal and State regulations. Ultimately, seventeen communities and the three counties agreed to participate in a regional approach until April 30, 2008. Most recently the GLRC’s Memorandum of Agreement (MOA) was updated to align with the current permit cycle. The updated MOA was adopted by GLRC members and therefore establishes the GLRC legally

through April 30, 2022. There are also a number of interested parties that are consistently involved with the planning activities associated with this program such as park, conservation districts, utility authorities, and transportation authorities. The participating communities recognize the substantial benefits that can be derived through cooperative management of the watersheds and achieve the MS4 permit requirements.

2.2 GLRC Members

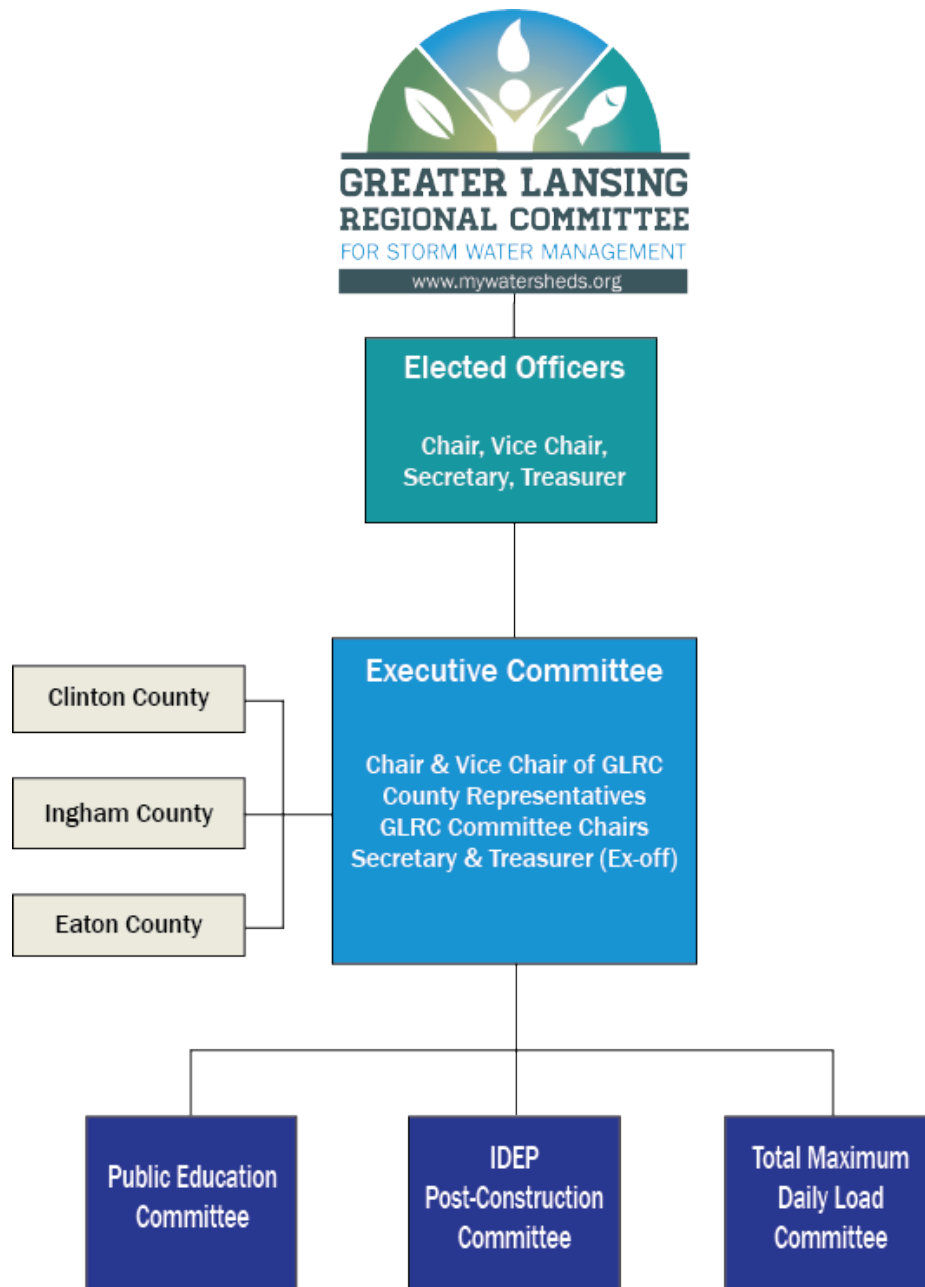
The participating MS4 entities that currently make up the GLRC are as follows:

- City of DeWitt
- City of East Lansing
- City of Grand Ledge
- City of Lansing
- City of Mason
- Delhi Charter Township
- Delta Charter Township
- DeWitt Charter Township
- Lansing Charter Township
- Meridian Charter Township
- Lansing School District
- Waverly Community Schools
- Clinton County
- Clinton County Road Commission
- Eaton County
- Ingham County
- Michigan State University

2.3 GLRC Organization

Within the GLRC, a number of committees have been established to guide various components of the MS4 program. Other committees may be established as needed throughout the course of the program. A list of the committees including a brief description of their responsibilities follows.

GLRC organization effective December 5th, 2019 - current



Executive Committee

The GLRC Executive Committee is comprised of a maximum of eight voting members consisting of the Chair and Vice Chair of the GLRC, one representative from each of the three counties, and the chairs of the Illicit Discharge Elimination Program (IDEP)/Post-Construction Committee,

Public Education Program (PEP) Committee, and Total Maximum Daily Load (TMDL) Committee. The Executive Committee meets five times a year and the Full Committee meets twice a year.

Public Education Program (PEP) Committee

The PEP Committee guides the overall public education, participation, outreach, and involvement process. This also includes evaluation of the program and assessment of public knowledge and activities.

Illicit Discharge Elimination Program (IDEP) / Post-Construction Committee

The IDEP/Post-Con Committee guides the organization and implementation of the Illicit Discharge Elimination Program, mapping guidelines, field-sampling protocols, and how the watershed will be monitored for progress, as well as advises on matters regarding Post-Construction measures. The Committee has reviewed and provided recommendations related to pet waste reduction techniques, septic tank maintenance issues, staff training, as well as channel protection and TSS removal practices.

Total Maximum Daily Load (TMDL) Committee

Makes recommendations regarding the Grand River and Red Cedar River E. coli Total Maximum Daily Load (TMDL) requirement. The committee provides education and updates to GLRC members to assist in the development and implementation of TMDL programs.

2.4 Watershed Partnerships and Related Efforts

Middle Grand River Organization of Watersheds (MGROW)

MGROW is an outgrowth of the Grand River Expedition 2010, founded in 2011 and established as a 501c3 in February 2012. MGROW is striving to bring together local communities, watershed groups and other stakeholders in the Middle Grand River Watershed to build a greater understanding of and stewardship for our water resources. MGROW's mission: *To protect and preserve the history and the natural resources of the Middle Grand River Watershed by promoting education, conservation, restoration, and wise use of watershed resources.* While the Upper Grand River Watershed Alliance (Jackson area) and the Lower Grand River Organization of Watersheds (or LGROW, in the Grand Rapids area) assist local watersheds in their respective regions, serving as umbrella organizations to network and share ideas with local watersheds, the Middle Grand River Watershed has been without such support until the formation of MGROW. Local watersheds and program administrators in the MGROW area include: Friends of the Looking Glass River; Friends of the Maple River; Friends of the Red Cedar; GLRC; local conservation districts; Michigan State University Institute of Water Research (MSU-IWR); TCRPC and Mid-Michigan Environmental Action Council (Mid-MEAC). These groups have been operating independently from one another but have been exploring avenues for collaboration.

The GLRC Coordinator continues to work with MGROW to identify collaborative opportunities related to education, recreation and monitoring and the GLRC Coordinator serves on the board of MGROW. Visit <http://www.mgrow.org/> for more information on this valuable partner.

Water Trail Planning/Grand River Partnership

The GLRC Coordinator assisted MGROW with the development of the DNR designated Middle Grand River Water Trail and associated materials, with the goal of inspiring new watershed stewards through recreation. The GLRC Coordinator also participates in the Grand River Partnership, a group composed of LGROW, MGROW, and Upper River Watershed Alliance who work together to promote watershed wide educational opportunities, collaborate on watershed protection, and collaborate on a headwaters to Lake Michigan paddle trail planning effort. Most recently, the group led the planning effort for the (since postponed) 2020 Grand River Expedition and are planning for virtual/socially distant opportunities to engage residents in watershed-based activities in 2021.

Looking Glass River Watershed Efforts

Friends of the Looking Glass River Watershed Council host local paddling events and log jam clean ups. The GLRC partners on related events and activities to promote recreation and awareness of the river. In late 2020, a surge of new members and leaders have inspired new activity and programming. The GLRC has met with leadership to discuss the role of the GLRC, the two group's history of partnership, and the educational resources available at GLRC. The GLRC has also submitted letters of support for grant proposals seeking to establish river clean up events for citizens of the watershed. The two groups are currently exploring further opportunities for partnering.

Red Cedar River Watershed Efforts

In 2019, the Friend of the Red Cedar River formed and brought a stakeholder group of river residents, paddlers, and governments together to promote watershed stewardship and recreation. The GLRC Coordinator assisted the group with early organizational efforts and provided guidance on Red Cedar River water trail effort with the goal of inspiring new watershed stewards and educational opportunities through water-based recreation.

Maple River Watershed Efforts

While outside of the urban area, the GLRC partners with Maple River stakeholders in their watershed planning efforts. The GLRC Coordinator sits on the Upper Maple River non-point Source Steering Committee as well as the Stony Creek Planning Project, a tributary of the Maple.

Dam Removal Exploratory Group

The GLRC Coordinator participates with a group of watershed stakeholders exploring feasibility of removing Lansing's two dams, advising on possible green infrastructure solutions to post-removal riparian restoration.

Smart Management of Microplastics Pollution

Smart Management of Microplastic Pollution in the Great Lakes is an initiative aimed at reducing microplastic pollution in communities surrounding the Great Lakes. Based out of Wayne State University, the project team selected two communities (Williamston and Pontiac) to pilot projects aiming to monitor, detect, and reduce microplastics in stormwater runoff and drinking water. The GLRC Coordinator is on the Steering Committee and assists with the development of outreach efforts.

Capital Area Sustainability Partnership

In 2021, a group of regional stakeholders began meeting to discuss sustainability and climate change planning efforts. The GLRC Coordinator, through the capacity of planner at the Tri-County Regional Planning Commission, has assisted in the facilitation of these regional discussions and helped include stormwater management as a focus of these conversations. The GLRC Coordinator has also leveraged GLRC connections to bring watershed partners into this planning effort.

3.0 Implementation Committee Reports

3.1 PEP Committee (including individual community activities)

The PEP Committee met on the following occasions:

April 26th, 2017
August 10th, 2017
March 21st, 2018
May 22nd, 2018
October 22nd, 2018
May 17th, 2019
November 23rd, 2020
January 20th, 2021

Committee Activities:

Regional Water Quality Survey – As stated in previous progress reports, the survey results continue to be used as a tool for the PEP Committee regarding all educational efforts and public participation. Surveys were conducted in 2006, 2012, and 2018. The surveys provide comparison data; demonstrating where we have made progress through our educational efforts and identifying areas that need improvement. This is used to craft and evaluate the success of our PEP BMPs. The survey results can be found on the GLRC website here: <http://mywatersheds.org/resources/publications/>

Pollution Isn't Pretty (PIP) - Originally funded by TCRPC's Mid-Michigan Program for Greater Sustainability, MGROW has facilitated the use of the water resource education campaign titled: Pollution Isn't Pretty. The PIP campaign was professionally designed and is being used consistently across the region. The campaign is currently owned and housed by MGROW. In late 2020, an error at the web hosting firm caused the web content to be deleted, and MGROW offered to redirect the website to the GLRC's website. Now, existing materials, including the roughly 250 pet waste trail signs throughout the region, will direct to the GLRC's "For Residents" page. The GLRC will continue to financially maintain the Pollution Isn't Pretty domain. Partners from throughout the watershed, including the GLRC, distribute materials from this campaign and with the domain. See: <http://www.pollutionisntpretty.org>

The following GLRC members have placed the Pollution Isn't Pretty signs in their communities: Lansing Charter Township (3), City of East Lansing (20), Ingham County Parks (5), Clinton County Parks (2), DeWitt Charter Township (3), Meridian Charter Township (4), City of Lansing (5), City of Grand Ledge (4), and MSU (1). Several signs have also been placed on the Lansing River Trail.



Watershed Signage – With the help of local road commissions, signage was placed along roads to indicate watershed boundaries to passing vehicles, cyclist, and pedestrians. These were installed between 2005-2006 but are maintained indefinitely.



GLRC Exhibit Display – The traveling exhibit display was developed in 2008 and has been used extensively at local workshops, conferences, community lobbies, etc. When the display is not being used for a special event, it travels throughout the region at GLRC member offices. The GLRC display panels were redesigned in 2014 to incorporate the PIP campaign, and in 2017 a scroll style “pop up” banner was developed that could be utilized in more places, like outdoor events. It was designed with a header titled “We All Live In A Watershed” in order to address survey results that indicate many residents don’t know that they live in a watershed. In 2019’s Public Education Plan update, most GLRC members agreed to display the scroll style banner in their lobbies (or other public place, like a library) for 2-3 weeks each year*. Multiple communities purchased their own scroll banners to display for longer periods. In addition to the display itself, copies of GLRC publications and watershed brochures are handed out to interested parties.

*Due to the Covid-19 pandemic, display use at lobbies and public events was temporarily replaced with digital PEP BMPs, per the GLRC PEP Amendment submitted in summer 2020.

Enviroscape – In late 2017, the GLRC purchased an Enviroscape Watershed model, a hands-on, interactive demonstration of the sources and impacts of stormwater pollution. It is utilized at events where time and setting allow. The GLRC also frequently partners with EGLE at events and utilizes their interactive floodplain model.

The GLRC displays and Enviroscapes unit have been utilized by the GLRC Coordinator and members. See the detailed list of the display usage in the attached Appendix A.

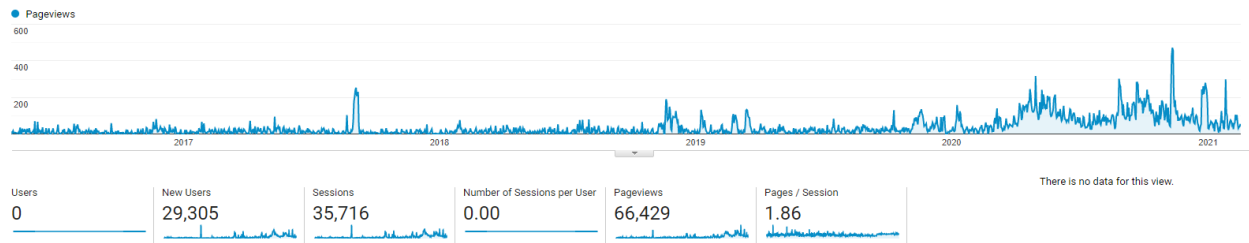


GLRC Website www.mywatersheds.org – The public website for the GLRC is maintained and updated on a regular basis. The website includes a significant amount of information relating to watersheds, stormwater stewardship, GLRC reports, educational information, links to other environmental organizations and much more. All public education outreach materials direct the viewer to our website so we can further educate them about pollution prevention. The website was updated in the spring of 2017 and again in 2020. The most recent update was driven by survey data. Survey results indicated that many residents do not realize they live in a watershed, prompting the GLRC to include “EVERYONE LIVES IN A WATERSHED” as the home page header as the first thing visitors see. Results also indicated that residents prefer learning about environmental issues from videos, prompting the GLRC to create and embed a suite of videos within the homepage.

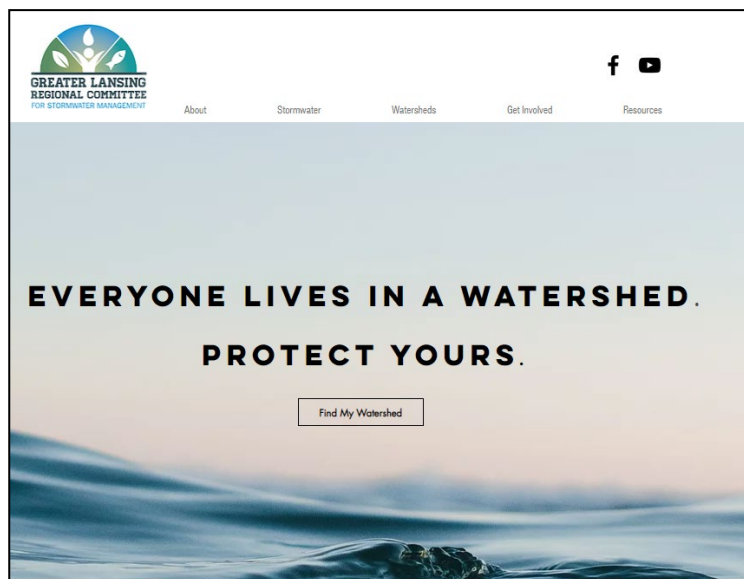
The PEP Committee reviews the website stats on a regular basis. There have been nearly 42,000 total hits on the website since its 2017 redesign, as indicated by the “ticker” at the bottom of the webpage. Google Analytics show a total of 63,549 page views and 28,315 users within the Progress Reporting period, including usage spikes surrounding the 2017 and 2020 website redesigns. There has been a significant increase in website traffic with the new website re-

designs and our continued multimedia approach. These demonstrate that our efforts to appeal to wider audiences have been successful.

- May 2016 – December 2016: 1,600k page views
- 2017: 6,150 pageviews
- 2018: 7,171 pageviews
- 2019: 9,977 pageviews
- 2020: 37,031 pageviews



The committee also tracks traffic to individual pages to monitor the strength of individual pages and interpret what information resonates well. Since the 2017 redesign, our “Rain Garden 101” page is by far the most popular. More planting guides and suggestions were added to supplement this page based on this feedback. Our “Stormwater Basics” and “What’s a Watershed” pages received a total of 10,298 visits during the reporting period.



“If you have questions or comments regarding the Township's stormwater management plan, please contact _____ by email or call 517-***-****.”

If you happen to see something entering or exiting a storm pipe, catch basin or drainage ditch that looks, smells or feels like something other than stormwater, please contact _____ at ***-***-**** ...

All this information is contained within our Storm water Portal.

Subpages --

For Residents Webpage – This page was developed on the website to allow GLRC members and the public to review files for education purposes. These files include brochures, posters, articles, seasonal tips, and other information to educate residents on stormwater pollution prevention. Per survey results, an emphasis is placed on video content and it is located near the top and in focus. Previous iterations were titled “For Homeowners” but that was determined to be too limiting. All residents, not just homeowners, can play a role in watershed protection.

For Educators Webpage – The PEP Committee maintains a webpage on the GLRC website for educators in the region. The page serves as a resource guide for local teachers, workshop leaders, or anyone interested in environmental education. State and federal environmental curriculum is highlighted as well as links to lesson plans. It includes resources and example projects that the schools can integrate into their current activities. The webpage also serves as a toolbox for teachers and school district officials that are required to meet MS4 permit requirements. This page continues to be updated on a regular basis. At the beginning of the Covid-19 pandemic, this website was updated with multiple at-home-learning lessons to assist parents and teachers with finding lessons and activities suitable for remote learning.

For Members Webpage – The GLRC developed a For Members webpage in 2019 to

house relevant documents and information for municipalities. There is particular focus on making it easier to view and use digital PEP materials and request physical resources for outreach events.

Be Septic Smart Webpage – The GLRC developed a septic focused webpage to house info on septic systems, time of sale programs, and our septic focused video.

Rain Garden 101 – Our most popular webpage, Rain Garden 101 includes manuals, videos, and planting resources to help homeowners plan and install their own native plant rain garden. It was developed and continuously improved during this reporting cycle. GSI focused webpages received over 16,000 views during the reporting period.

Local Green Infrastructure Projects -- This page was added to highlight Lansing area GSI projects and includes the video clip developed as part of the Greening Mid-Michigan project. It has 270 views during the reporting period.

Household Hazardous Waste Calendar – Respondents to the GLRC survey indicated that they were not utilizing household hazardous waste sites because they didn't know where they were. In response, the GLRC created a webpage dedicated to these resources. It includes an event calendar and information on disposal in the tri-county area. This received 1,395 views during the reporting cycle.

Reporting Webpage – To simplify the GLRC's shared outreach efforts, MyWatersheds.org/REPORT was created to house the IDEP reporting information for all members. This allows the GLRC to easily promote a one-stop reporting resource to the region's residents in a simple, easy to remember domain. The IDEP and reporting webpages received a total of 379 visits during the reporting period.

Event Calendar– The committee is continuously updating the GLRC calendar with applicable meetings, webinars, educational opportunities, and recreation and cleanup activities throughout the watersheds.

Website Mock Audits – The GLRC Coordinator continuously reviews members' websites and recommends improvements, and every GLRC member underwent a "mock audit" of their digital BMPs, starting in late 2017 through 2019. During these exercises, the GLRC Coordinator reviews municipal websites for PEP compliance and guides updates as needed to meet permit commitments. In addition, the GLRC Coordinator met with the stormwater and communications staff to share information on the MS4 program and its requirements, as well as the PEP resources available to them via the GLRC. These in-person trainings occurred as indicated below:

Lansing Township	Sam Shultz	12/14/2017
Grand Ledge	Hannah Bowman	2/13/2018

Meridian Township	Deb Guthrie, Erin Cornett	3/15/2018
Ingham County Drain Commission	Angie Cosman, Emily Short, Paul Pratt, Jamie Dixon	3/26/2018
Delta Township	Jennifer Berndardin, Erica Gupton	3/28/2018
Lansing Schools	Kattie White, Jenna Erbele	5/10/2018
Mason	Dana Martin, Jeff Rewerts, Sam Bibler	8/28/2018
Eaton	Eric Diebel, Ruth-Ann Clark	8/29/2018
Clinton	Lynn Cech, Dean Morton, Phil Hanses	8/28/2018
Lansing	Alec Malvetis, Natalie Singer	12/16/2019

Educational Articles – The PEP Committee continues to use and promote a series of news articles. They are posted on the GLRC website so GLRC members can easily access them to periodically include in their local community newspapers. They are also located in the “For Residents” page and included in each quarterly newsletter. The articles cover the following topics:

<i>What is a Watershed?</i>	<i>Pet Waste and the Environment</i>
<i>Riparian Buffers</i>	<i>Storm vs. Sanitary Sewer</i>
<i>Car Washing Article</i>	<i>Illicit Discharge</i>
<i>Adopt Your Catch Basin</i>	<i>Safe Fertilizer Use</i>
<i>Vehicle Maintenance</i>	<i>Wetlands: an Overview</i>
<i>Septic System</i>	<i>Maintenance</i>

The articles are updated periodically for content and design updates, most recently in 2020.

A suggested timeline for seasonal articles is also provided.

GLRC Media Toolkit – In fall of 2020, the GLRC developed a Media Toolkit for members and their communications staff. It was designed to clearly illustrate the content available for municipal newsletters, social media, and other outreach and provide “plug and play” language. Municipal communications staff often lack the technical knowledge or time to craft stormwater related content, but the Media Toolkit features 71 pages of resources that they can pull from and customize to their needs. This reduces the barrier to frequent stormwater related outreach.

Press Releases – A suite of press release templates were developed in 2020. Covering Pet Waste, Soil Erosion, Industrial Facilities, and Dumpster/Trash BMPS, they are structured as customizable news articles for inclusion in community newspapers or municipal newsletters.

Adopt A River – The GLRC display was part of the environmental fair at the Adopt A River events held in May of 2016 through 2019. The 2020 Event was canceled due to the Covid-19 pandemic. The Envirosapes Watershed model was an activity added to make the public interaction more hands on. The GLRC was also included in the Passport, which encouraged

participants to visit all booths of the environmental fair to be entered in a drawing for prizes, etc. Over 500 residents participate in this event each year.

MSU Science Festival – The MSU Science Festival is an annual month-long educational event hosted by Michigan State University. The GLRC participates in the Festival’s EXPO Day, utilizing the Enviroscapes Watershed model, handing out brochures, and speaking with children and families. EXPO Day draws 7,000 people each year, though it was cancelled in 2020 due to the Covid-19 pandemic. The GLRC participated in 2018 and 2019 and will continue to do so as the event returns.

Presentations – The following presentations were given by the GLRC Coordinator within the reporting period:

- May 24th, 2017: Presented new MyWatersheds.org website and materials to TCRPC Board of Commissioners.
- June 23rd, 2017: Interviewed by HOMTV. Discussed stormwater and pollution prevention.
- August 14th, 2017: Presented on stormwater/GLRC to the Lansing Exchange club, a local business and civic fraternal organization. Roughly 35 people attended.
- November 7th, 2017 – presented to local Brownies (Girl Scout) troop and used Enviroscapes Watershed exhibit.
- February 14th, 2018: Presenting on stormwater and GLRC to the TCRPC Program Committee (6 commissioners).
- February 28th, 2018: Presented on stormwater program and GLRC at TCRPC commission orientation (5 commissioners).
- April 23rd, 2018: Interviewed by HOMTV for Earth Day, providing an overview of Pollution Isn’t Pretty and stormwater pollution prevention.
- May 19th, 2018: Presented to participants at Ingham Conservation District’s rain barrel workshop. Provided overview of GLRC and stormwater pollution prevention. Roughly 20 participants were in attendance.
- June 27th, 2018: Participated at MSU’s Grand Parent’s University. Presented to two classrooms of grandparents and their grandkids on stormwater pollution prevention and watersheds. Passed out 50 rain garden seed cards to attendees.

- November 20th, 2018: Shared yearly GLRC highlights and annual reports with the East Lansing Commission on the Environment (9 commissioners).
- December 4th, 2018: Presented to MWEA's Stormwater Summit on the GLRC's digital PEP efforts. Roughly 125 people attended.
- February 7th, 2019: Guest speaker at the Eaton Conservation District Annual Dinner. Presented to 100 attendees about the GLRC and stormwater pollution prevention and hosted a trivia game with water-based questions.
- February 26th, 2019: Shared yearly GLRC highlights and annual reports with the East Lansing Commission on the Environment (9 commissioners).
- March 25th, 2019: Presented to audience at MGROW's annual meeting. Discussed GLRC and stormwater pollution prevention. Roughly 75 people attended.
- February 19th, 2019: Presented on stormwater program and GLRC at TCRPC commission orientation (6 commissioners).
- October 8th, 2019: Guest lectured two classes at Olivet College. Classes were 80 minutes each, covering the history of the Phase II program, the GLRC, and pollution prevention tips. The interactive Envirosapes watershed model was utilized. 50 students total were in attendance.
- December 6th, 2020: Participated in MGROW's Wild and Scenic Film Festival, providing a 3 minute presentation between films about the GLRC, our website, and pollution prevention. 300 people were in attendance.
- Throughout 2020, the GLRC Coordinator attended most of Meridian Township's weekly Wednesday Environmental Networking meetings. Township residents interested in environmental issues meet for free-flowing discussion. The GLRC Coordinator provides regular updates on Committee activities to this group and helps connect them with regional resources.

GLRC Annual Report – The first GLRC Annual Report was developed in early 2012 (reporting on 2011). The intent of the report is for GLRC members to share it with their boards, councils, and commissions in order to demonstrate the work that has been done throughout the year. TCRPC also shares the report with TCRPC Commissioners, subscribers to our newsletter, and on the website. The effort continues with reports developed through 2021 (reporting on 2020).

The following table indicates the annual report mailing to the GLRC newsletter subscriber list. These recipient numbers reflect members of the public who have volunteered to receive these updates, not partner/governmental contacts. This list has seen consistent growth.

Edition	Date Sent	Number of Recipients
2017	2/23/2018	44
2018	2/7/2019	150
2019	1/31/2020	275
2020	1/26/2021	525

GLRC Quarterly Newsletters – The GLRC began publishing quarterly newsletters in January 2010 and continues to do so. The newsletters are posted on the GLRC and TCRPC websites and are shared through an email distribution list of over 500 stakeholders. It is recommended that GLRC members share the newsletters with elected officials and appropriate boards, councils, and commissions.

Edition	Date sent	Number of Recipients
Fall 2017	11/1/2017	42
Winter 2018	2/23/2018	44
Spring 2018	4/20/2018	52
Summer 2018	7/23/2018	77
Fall 2018	10/31/2018	95
Winter 2019	2/7/2019	150
Spring 2019	4/29/2019	175
Summer 2019	7/17/2019	200
Fall 2019	10/28/2019	200
Winter 2020	1/31/2020	275
Spring 2020	5/11/2020	294
Summer 2020	7/16/2020	300
Fall 2020	10/21/2020	305
Winter 2021	1/26/2021	525

GLRC Fact Sheet – A fact sheet describing the Phase II program and purpose of the GLRC was created in 2017 to help community leaders quickly understand the requirements of the program and how the GLRC helps meet them. This is distributed with annual reports, dues invoices, and to new TCRPC Commissioners to help those in leadership roles understand their municipality’s responsibilities and the GLRC resources available to them.

Social Media – The GLRC joined Facebook and Twitter in December 2009. Regular posts/updates are related to watershed stewardship, public involvement, and participation. GLRC and partner events are also posted frequently. Currently 1,335 people “like” the GLRC on Facebook (an increase of 1,176 since 2013) and we have 389 “followers” on Twitter (an increase of 74 since 2016). The committee places heavy focus on the use of paid advertising on Facebook to spread our messaging. These tools allow the GLRC to target residents within the urban area and ensure that we are reaching people who do not already interact with our page. Our reach and influence have grown tremendously since adopting this approach. Since May 2016, our posts have “reached” over 1.8 million times and resulted in almost 3.1 million impressions, all within the urban area due to geo-targeting. Purchasing ad space diversifies the placement of the outreach material as well. Our posts are not limited to our page, but are displayed on Instagram, Facebook Marketplace, and in the sidebar of Facebook (in addition to the “News Feed.”

The GLRC has committed to utilizing paid advertising from the central, shared GLRC account rather than commit to social media responsibilities of individual members. The paid posts cover each required PEP topic, and the GLRC has dedicated over \$20,500 in funding to these paid educational promotions in the reporting period.

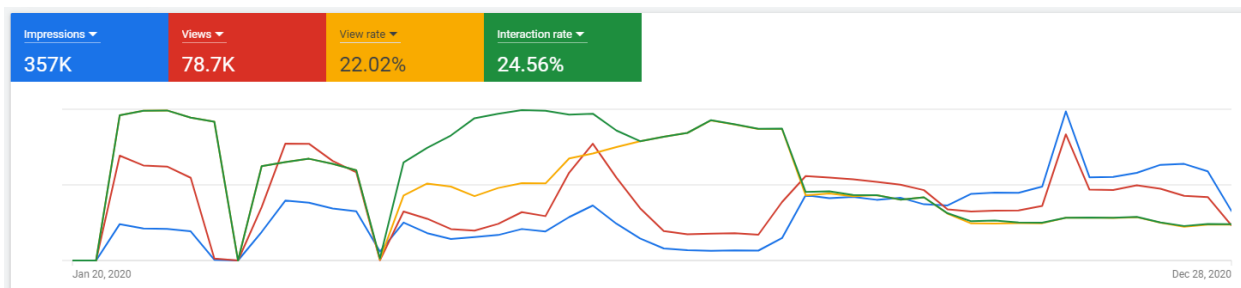
See our pages here: <https://www.facebook.com/GLRC4stormwater/> and <https://twitter.com/GLRC4stormwater>.

YouTube -- Survey results indicated that respondents prefer learning about environmental issues through video. As such, the GLRC invested in a suite of videos for inclusion on the website, Facebook, and YouTube. One video is two minutes and explains the GLRC and basic stormwater pollution prevention, other videos cover the required PEP topics. Most topics have two videos: one that is roughly 60-90 seconds and one that is under 15 seconds, as 15 seconds is the maximum length of a non-skippable ad. The GLRC pays to promote these videos as “pre-roll” advertisements on YouTube, utilizing both the short, non-skippable ads and traditional skippable ads. While Google indicates that a “good” view rate is 15%, the GLRC’s is 22%, indicating that nearly a quarter of users presented our videos are watching them. Data also indicates that many users continue to watch our pre-roll advertisements even when given the option to skip ahead to their intended video.

Most encouraging is YouTube’s ability to expand our audience demographic. While Facebook Analytics indicate that content is reaching an older, more female audience, a quarter of our YouTube views are from young men. Our multimedia approach is meeting our residents where they are and ensuring our outreach material has a broad reach. It also helps us diversify the places our ads display. Due to YouTube TV and the use of “casting”, over 25% of viewers are viewing from Television screens. And because Google owns YouTube, these ads show up throughout the Google ecosystem and any website that uses Google Ads, not *just* YouTube. Find the channel here: https://www.youtube.com/channel/UCm-2OdB67N_dSanR5osYSFw

*During Covid-19, the GLRC Coordinator and GLRC members were unable to satisfy in-person outreach events. In summer 2020, GLRC members submitted a PEP amendment to replace in-person PEP BMPs with a commitment to fund YouTube ads.

The GLRC began utilizing these YouTube ads at the beginning of 2020. The following reflects ad statistics from Jan 1st to Dec 31st, 2020:



Dog Calendar Contest – One of our most successful outreach initiatives, the annual Dog Photo Calendar Contest, offers residents a chance to see their dog as a month’s feature photo and win a pet store gift card. In order to enter, contestants must read about pet waste’s impact on water quality and pledge to pick up after their pets. The GLRC launched the first contest in 2018 and it has grown each year, with between three and four hundred entries each.

The submittal form includes an option for entrants to subscribe to the GLRC newsletter, allowing us to continue to reach these new contacts and engage them in our messaging in the future. The following indicates the number of newsletter signups resulting from each contest.

2018: 107 signups

2019: 75 signups

2020: 118 signups

New Brochures – In late 2018 and early 2019, the GLRC redesigned its suite of brochures and added Green Infrastructure as an additional topic. Redesigned tri-fold brochures also include Pet Waste Management, Fertilizer and Lawn Care, Responsible Car Washing, Motor Oil Management, and Do You Know Your Watershed? These are distributed at events and lobbies. The GLRC Coordinator distributed 1,188 brochures at events during the reporting period. The brochures were also available on GLRC webpages that received 715 views. The following reflects distribution of brochures related to individual required PEP topics.

- Topic A: 352 brochures distributed
- Topic D: 2,092 brochures distributed
- Topic F: 2,474 brochures distributed
- Topic H: 29 brochures distributed
- Topic I: 904 brochures distributed

Similar information is presented digitally on the website and social media.

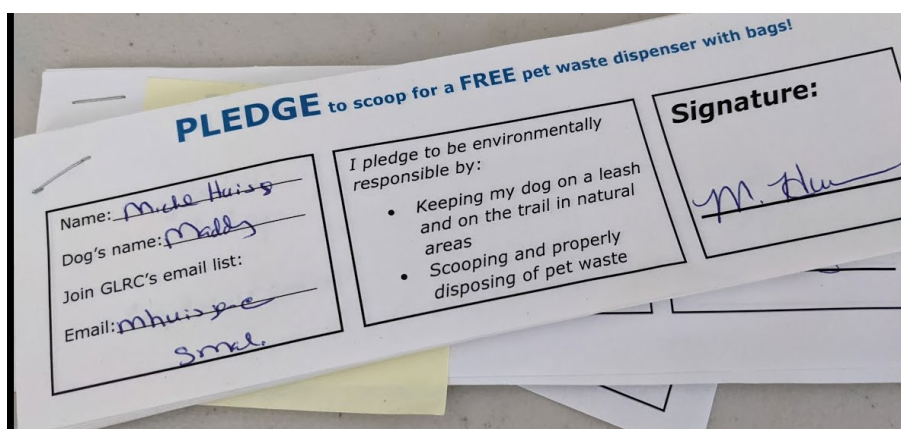
Overall, 5,387 total pieces of outreach material - including MyWatersheds.org stickers, bracelets, bike tour maps, etc - were distributed by the GLRC coordinator at events during the reporting period.

Placed brochures in main entrance at Administration building. There were 16 brochures distributed.

Rain Garden Seed Cards – In 2017, the GLRC began distributing rain garden information cards printed on paper embedded with native black-eyed susan seeds. These provide information on the benefits of native plantings and provide residents with seeds to plant their own. They have proven very popular at events. Since 2017, 799 have been distributed through the GLRC Coordinator.

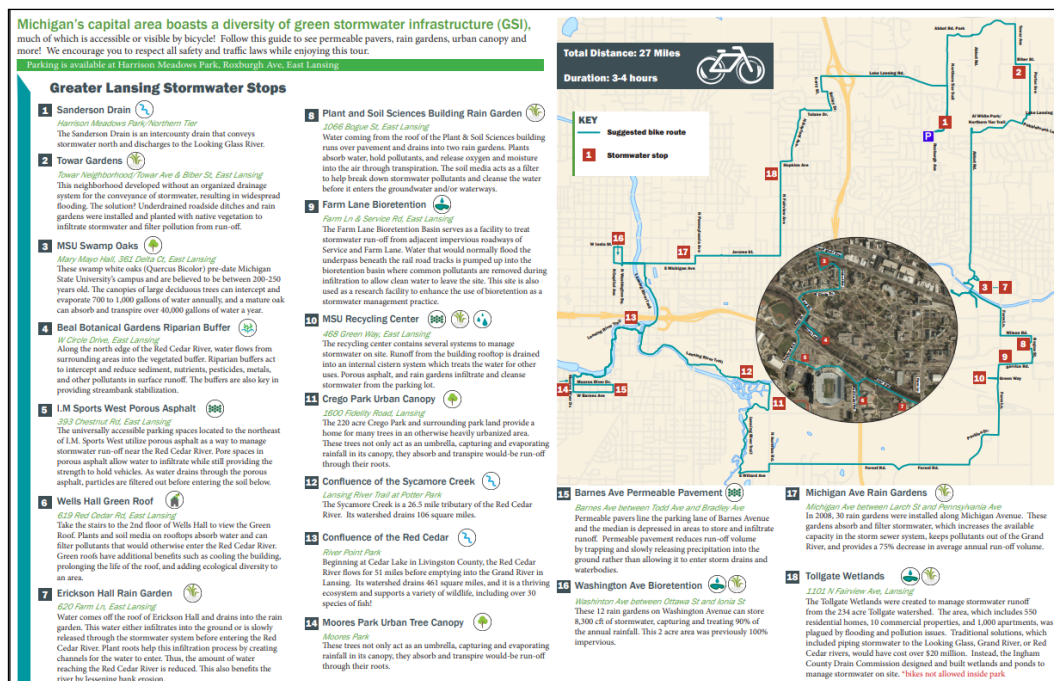
Dog Waste Bag Dispensers -- In 2017 the GLRC began distributing branded dog waste bag dispensers with the tagline “In The Bag, Not The River” to meet pet waste education requirements. To receive one at events, attendees must sign a pledge to pick up after their pets. The pledge form also gives them the option to sign up for the GLRC newsletter. Since 2017, 1075 have been distributed by the GLRC Coordinator.

Dog Park Map and Pledge: In 2017, the GLRC developed a map of local dog friendly parks that includes information on pet waste’s impact on our water resources. These were hung up at



area park and trail head bulletin boards. An additional version was developed for in-person events that included the pledge mentioned above. Signatories received a dog waste bag dispenser and a copy of the dog park map to take home.

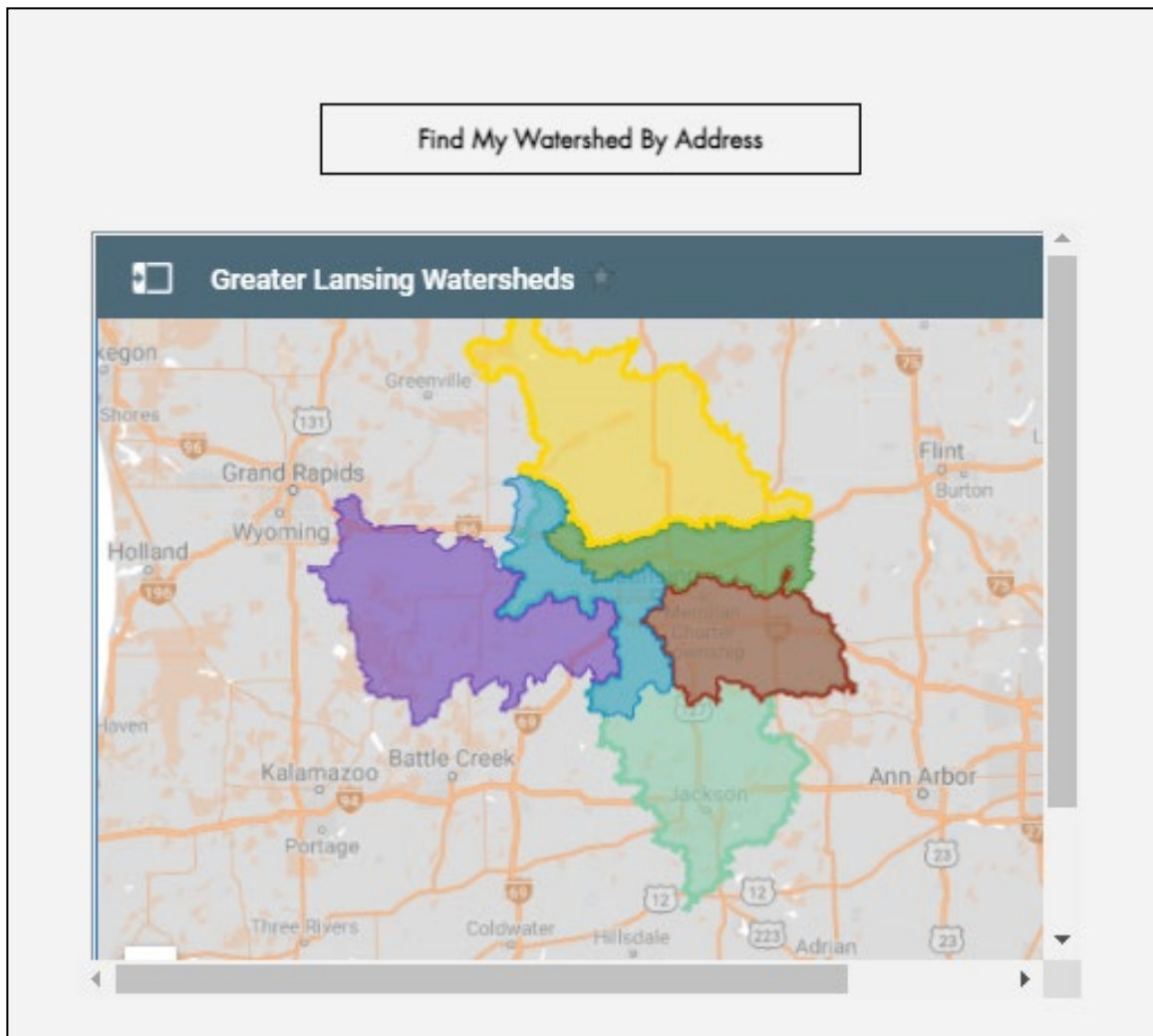
Green Infrastructure Bike Tour – A bicycle tour of area green infrastructure was developed in 2019 to provide users an interactive experience and inspire them to install green infrastructure on their own properties. The bike tour follows area bike trails and includes a printable map as well as a custom Google Map.



Watershed Tattoos – The GLRC added an additional “swag” item to distribute during the permit cycle: a temporary Middle Grand River watershed tattoo. Sized to fit a hand, it creates a geographically accurate depiction of the Middle Grand River watershed overlaid the Michigan “mitten”.



Find My Watershed Tool – In 2019 the GLRC developed a Find My Watershed Tool. Users can plug in their home address and see which watershed they live in and where they live within it. It also provides information about the watershed, links to 319 plans, and contact information for watershed organizations focused on stewardship within its boundaries. Survey results indicate that many residents do not know that they live in a watershed and this tool has made it easier for them to learn about the watershed they call home. This tool was visited 33,638 times since it's publishing.



General Outreach/Education Efforts – The GLRC Coordinator partners with several different groups, agencies, and organizations in the region. Here is a summary of general collaboration and activities related to stormwater and pollution prevention:

- **Red Cedar Awareness** – In response to the discovery that a river-front MSU fraternity was dumping their garbage into the Red Cedar, and group of stakeholders began meeting to explore ways to engage the student and Greek communities as well as apartment complex owners. Part of that effort resulted in a MSU football gameday initiative led by the GLRC, MGROW, and MidMEAC. In fall of 2017, volunteers walked through the tailgate area and gave away swag items in exchange for signing a trash pick-

up pledge and distributed refrigerator magnets with pollution prevention information that were purchased by the GLRC.

- East Lansing Dog Swim – Prior to closing the pool at the East Lansing Aquatic Center for the 2017 season, the city opened up the pool for a dog swim. The GLRC Coordinator attended and traded the GLRC's dog waste bags in exchange for signing a pledge to scoop. 57 pledges were signed/bags distributed. Pens and GLRC stickers were also distributed.
- MWEA Watershed Committee – GLRC Coordinator has been attending all MWEA Watershed Committee meetings and provided some support to the group related to the MS4 permit application process. This is a good networking opportunity for the GLRC to share our experiences and learn what others are doing around the state. This group plans the Watershed and Stormwater summits, which the GLRC coordinator has presented at.
- December 2017; 2018; 2019;– Promoted annual MWEA Stormwater Seminar. GLRC Coordinator attended. *The event didn't occur in 2020, and no GLRC Coordinator was in place in December 2016.
- March 2017, March 2018; March 2019; and July 2020* – GLRC display was on exhibit at the MWEA Watershed Summit. *The 2020 event was moved to a digital format due to Covid-19. The GLRC exhibited virtually, giving a brief presentation on the group to the audience.
- March 2018, 2019, February 2019 – Promoted and exhibited at the Quiet Water Symposium. *GLRC Coordinator volunteered at the 2017 QWS, having been hired after the deadline to be able to exhibit.
- November 2018 – donated over 100 brochures, stickers, and bracelets to a local foster care center for children.
- April 2019 – donated 30 Rain Garden Seed Cards to a meeting of the Dimondale garden club.
- April 2019 – Provided letter of support to the Eaton County Conservation District for a Consumers Energy Grant aimed at watershed planning effort.
- May 2019 – donated bracelets, stickers, and brochures to local foster care center for children.

- July 2019 – Donated 35 each of green infrastructure brochures, watershed brochures, bike maps, stickers, and rain garden seed cards for an Allen Neighborhood Center Rain Garden class.
- July 2019 – Provided letter of support and assistance to MidMEAC for Great Lakes Commission Green Infrastructure Mentor Grant. MidMEAC/GLRC was partnered with a peer stormwater group in New York who shared their outreach materials and strategies.
- June 2020 – Provided letter of support for a MSU green infrastructure/stormwater tree grant application.
- The GLRC Coordinator has consistently provided notices to GLRC members regarding anything relevant to the MS4 program including seminars, training, webinars, legislative updates, etc.
- The GLRC continues to promote the Mid-Michigan Environmental Action Council's stream monitoring programs. The GLRC Coordinator also participated in the 2018 volunteer monitoring event. The GLRC reached 96,407 area residents through social media promotion of these events during the reporting period.

Business Outreach: During the reporting period, the GLRC developed a variety of resources for local businesses to help educate them and staff on pollution prevention at their facilities and as part of their operations:

For Business Webpage – In 2020, a For Businesses webpage was developed to house outreach information particular to businesses and industrial facilities and flyers/posters detailing industrial BMPs. It has had 158 views. www.MyWatersheds.org/businesses

Business Mailing – In 2020 the GLRC is developed a mailable poster focused on business and industrial BMPs. This will be mailed to industrial facilities and available online for other businesses.

Business Posters – Ten posters/flyers focusing on business and industrial facilities were produced in 2020 and included on the GLRC For Business webpage. It includes facility management BMPs for salt usage, vehicle cleaning, landscaping, and more. They are designed to be utilized on break room bulletin boards and other public areas.

The GLRC Coordinator presented to a local business fraternal group in 2017 on the GLRC and stormwater management.



Customer Education Collaboration – The GLRC seeks to work with area businesses to educate their customers on stormwater pollution prevention:

- Between 2019 and 2021, the GLRC worked with the Capital Area Humane Society to provide 750 dog waste bag dispensers and pet waste brochures to be included in the adoption packets for new pet owners. These materials highlight the importance of picking up pet waste while providing them the tool needed to start good dog ownership habits. This relationship will continue.
- In 2019, the GLRC met with Scoops Co, a dog waste pick-up service, to discuss collaboration to educate residents on the importance of picking up pet waste. 500 pet waste tri-fold brochures were given for inclusion in their marketing materials. This assisted the GLRC in spreading our message, and helps the businesses promote a new angle – water quality – as a benefit of their services. Scoops Co and two competing companies are listed as resources on the GLRC website to make residents aware of these services which are particularly beneficial to pet owners that are elderly and or with limited mobility.
- In 2018, the GLRC provided 500 “MyWatersheds.org” stickers to Rivertown Adventures to distribute to their paddle-craft rental customers. These stickers feature paddles over an image of the State of Michigan, with text promoting the MyWatersheds.org website.
- In 2018, the GLRC Coordinator distributed GLRC stickers and MGROW membership brochures to Moosejaw, a local outdoor outfitter, to make available at the counter

for their customers. This encourages awareness of the GLRC and encourages residents joining local watershed organizations, one of the “top ten tips” the GLRC promotes for stormwater stewardship.

- In summer of 2018, the GLRC Coordinator outreached to multiple commercial car wash operations in the Lansing area and shared digital copies of the GLRC car washing brochure. The intent is to help them sell their services with a new, untapped angle; that they are the environmentally friendly alternative to at home driveway washing.

3.2 IDEP Committee/Post-Construction Committee

*Beginning in 2020, the GLRC reconvened the Post-Construction subcommittee and combined it with the IDEP subcommittee. The Committee met multiple times to focus on the challenges facing Post-Construction implementation.

All GLRC members are well into implementation of their individual IDEP programs. The GLRC Coordinator continues to work with regional partners on watershed protection efforts focused on pollution prevention and Illicit Discharge Elimination.

As referenced above, the GLRC developed a reporting page on MyWatersheds.org to more easily advertise the contact information for reporting illicit discharges to member communities. MyWatersheds.org/REPORT is easy to remember and promote. A Septic Smart webpage was also developed to educate residents on reducing illicit connections to the storm sewer. But the primary focus of this committee has been staff training.

Committee Activities:

IDEP Training Video –

Group Training: The GLRC hosts training video viewings for members and their staff. During the reporting period, two training dates were held: May 8th 2018 and May 10th 2018. Sign-in sheets from these events are located in Appendix B and at the link here.



Appendix B.pdf

*A group viewing was planned for 2020 but was cancelled due to Covid-19 restrictions. To make videos available, the GLRC recorded a viewing on Zoom and shared the link with members for virtual trainings. Some members notified the GLRC Coordinator of when they viewed. That information follows:

- East Lansing, Steven Roach, August 4th.

- Eaton County, Ruthann Clarke, August 25th

Individual Member Training: GLRC Members borrow the video to conduct their own training as described below:

Name	Community	Date Provided	Date Returned
Kyle Scriptor	Waverly	3/16/2017	4/27/2018
Phil Hanses	Clinton County Drain Comm.	6/8/2017	9/14/2017
Alec Malvetis	City of Lansing	2/29/2018	4/12/2018
Dave Gutches	City of Grand Ledge	8/20/2018	9/13/2018
Jeff Rewerts	City of Mason	9/28/2018	10/19/2018
Dan Armentrout	Clinton County Road Comm.	10/23/2018	11/6/2018
Brad Beck	Lansing Township	4/11/2019	8/9/2019
Kattie White	Lansing Schools	8/9/2019	8/13/2019
Kyle Scriptor	Waverly	8/13/2019	9/5/2019
Phil Hanses/Dan Armentrout	Clinton County Drain/Road	9/5/2019	12/3/2019

The GLRC has also hosted field trainings for outfall screening. Sign-in sheets for the event during this reporting period are located in Appendix C or the link here.



Appendix C.pdf

3.3 TMDL Committee

The TMDL Committee provides a forum for discussing TMDL implementation. In summer of 2020, the committee developed a Quality Assurance Project Plan (QAPP) to standardize sample collection and guide field operations related to wet weather monitoring. Members have individual TMDL implementation plans but utilize the QAPP to inform project managers and field staff of laboratory requirements and options for analysis.

4.0 Other GLRC Activities

Good Housekeeping Training -

Group Training: The GLRC hosts training video viewings for members and their staff. During the reporting period, two training dates were held: May 8th 2018 and May 10th 2018. Sign-in sheets from these events are located in Appendix B or the link here:



Appendix B.pdf

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Kyle Scriptor	Waverly	8/13/2019	9/5/2019
Phil Hanses/Dan Armentrout	Clinton County Drain/Road	9/5/2019	12/3/2019

GLRC Stormwater Seminar – In June 2018, the GLRC held an educational seminar for members to learn about a variety of topics, including stormwater utilities, impervious surface mapping, GSI site plan reviews, and NJDEP performance standards. Thirty five people attended. A second GLRC Seminar was planned for 2020 but was postponed due to Covid-19. The event flyer and attendance is located in Appendix D and at the link here:



Appendix D.pdf

EGLE Industrial Stormwater Operator Training – The GLRC planned to host EGLE for an Industrial Stormwater Operator Training in 2020. It was postponed due to Covid-19 restrictions. EGLE offered options for license applications and renewals online.

Ingham County Surface Water Program -- The Ingham County Health Department regularly tests sites for *E.coli* and have done so through this program for 15 years. Several Ingham County based GLRC members support this effort and in 2021 applied for a grant to expand the program to different sites and explore feasibility of similar programs throughout the Middle Grand River watershed. If funded this grant would also support the development of a water quality database to house current and historical sampling results and educate the public about the *E. coli* TMDL.

Recreation Efforts

The GLRC promotes partner efforts and recreational events through the website and social media, like paddling expeditions and races and other opportunities for residents to connect to our watershed and water resources. The GLRC understands that residents will be more likely to adopt pollution prevention strategies if they use and love the resources those actions would protect.

Green Infrastructure Code Audit – The GLRC Coordinator worked with Meridian Township to audit their codes and ordinances for barriers to green infrastructure implementation. In 2020, the Committee agreed to reconvene the GLRC Ordinance Committee to develop a GSI Ordinance Manual for area communities interested in similar audit exercises. The document will provide model ordinances and language to standardize and improve the region’s landscape and surfacing requirements in a way that promotes the use of green infrastructure. This effort will develop in 2021. GSI Code Audits at other GLRC members will resume after the manual is complete.

Coal Tar Seal Coat – The GLRC also tasked the Ordinance Committee with assisting area communities in the development of coal tar seal coat bans. The Committee will work to develop a resource guide and model ordinances/programs in an effort to standardize the region’s approach to these contaminants.