Lower Grand River Watershed Progress Report

Georgetown Charter Township

Reporting Period: August 1, 2013– July 31, 2014

Prepared by the:

GVMC

Grand Valley Metropolitan Council

Environmental Programs

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Lower Grand River Watershed Progress Report

PART 1 - CONTACT INFORMATION 1

PART 2 - MUNICIPAL STORMWATER POLLUTION PREVENTION INITIATIVES (SWPPI) COMMITMENTS ... 2
- Part 2A Lower Grand River Watershed Management Plan Prioritized Objectives: Regional Participation for August 1, 2013 - July 31, 2014 8
- Part 2B - Stormwater Controls Inspection, Maintenance and Effectiveness 13
- Part 2C - Procedures Status 14
- Part 2D - Staff and Contractors Training on Pollution Prevention and Good Housekeeping 15
- Part 2E - Post Construction Controls Activities 18

PART 3 - PEP 20
- A. Public Education Committee 20
- B. PEP Implementation in Year 11 21
- C. Evaluation Measures 29

PART 4 – IDEP 33

PART 5 - NEW POINT SOURCE DISCHARGES OF STORMWATER 37

PART 6 - NESTED DRAINAGE SYSTEM AGREEMENTS 38

PART 7 - OTHER ACTIONS 39

PART 8 - REVISIONS TO THE SWPPI 40

LIST OF TABLES

Table 1 Contact Information for Michigan Department of Environmental Quality (MDEQ)
Table 2 LGRW Committee Membership for the 2014 Progress Report as of July 31, 2014
Table 3 LGRW Part 91 Administration Authority as of July 31, 2014
Table 4 LGRW Communities with Nested Drainage System Agreements
Table 5 IDEP Dry Weather Screening Analysis

LIST OF ABBREVIATIONS/ACRONYMS

AWRI	Annis Water Resources Institute
BMP	Best Management Practice
CES	Center for Environmental Study
CoC	Certificate of Coverage
DIP	Data, Information, and Procedures
DPW	Department of Public Works
GVMC	Grand Valley Metropolitan Council
HD	Health Department
ICMA	International City/Country Management Association
IDEP	Illicit Discharge Elimination Plan
I&E	Information and Education
KCDC	Kent County Drain Commissioner
KCRC	Kent County Road Commission
LGROW	Lower Grand River Organization of Watersheds
LGRW	Lower Grand River Watershed
LID	Low Impact Development
MDEQ	Michigan Department of Environmental Quality
MS4	Municipal Separate Storm Sewer System
MSUE	Michigan State University Extension
NOAA	National Oceanic and Atmospheric Administration
NPS	Nonpoint Source
O&M	Operation and Maintenance
OCWRC	Ottawa County Water Resources Commissioner
PCC	Post-Construction Controls
PEP	Public Education Plan
POS	Point-of-Sale
SEMCOG	Southeast Michigan Council of Governments
SESC	Soil Erosion and Sedimentation Control
SWPPI	Stormwater Pollution Prevention Initiative
TSS	Total Suspended Solids
USEPA	U.S. Environmental Protection Agency
WMEAC	West Michigan Environmental Action Council
WMP	Watershed Management Plan
WQI	Water Quality Index

PART 1 - Contact Information

Table 1 - Contact Information for Michigan Department of Environmental Quality (MDEQ):	
Please provide current contact information for MDEQ to use regarding stormwater issues.	
Permit Application Contact	
Name	Mr. Mike Hatkowski
Title	Georgetown Ice Center General Manager
Address	8500 48th Ave
City, State, Zip	Hudsonville, MI 49426
Telephone (with area code)	(616) 662-2800
Fax (with area code)	
E-mail	mhatkowski@georgetown-mi.gov
Stormwater Program Manager	
Name	Mr. Mike Hatkowski
Title	Georgetown Ice Center General Manager
Address	8500 48th Ave
City, State, Zip	Hudsonville, MI 49426
Telephone (with area code)	(616) 662-2800
Fax (with area code)	
E-mail	mhatkowski@georgetown-mi.gov
Stormwater Permit Fee Billing Address	
Name	Jill Skelley
Title	Township Finance
Address	1515 Baldwin Street
City, State, Zip	Jenison, MI 49428
Telephone (with area code)	616-457-2340 x252
Fax (with area code)	
E-mail	jskelley@georgetown-mi.gov

PART 2 - Municipal Stormwater Pollution Prevention Initiatives (SWPPI) Commitments

SWPPI Implementation

Committees have been working to address different subject areas to make program implementation as efficient as possible. Every participating MS4 has a representative on at least one committee. Committee meetings have also been used to update everyone on the progress of the other committees and the program in general. The committees are as follows:

- Stormwater Education Committee (PAM/PEP)
- Stormwater Ordinance Committee
- Data, Information, and Procedures (DIP) Committee

The list of committee members who have served on the committees during this reporting period are indicated in Table 2 below.

Table 2 - LGRW Committee Membership List as of July 31, 2014

Community	Representative	PAM/PEP	Stormwater Ordinance	Data, Information & Procedures
Cascade Charter Township	Mr. Steve Peterson	X	X	
East Grand Rapids, City of	Mr. Joe Slonecki			X
Ferrysburg, City of	Mr. Craig Bessinger			X
Forest Hills Public Schools	Mrs. Lea Sevigny	X		
Georgetown Charter Township	Mr. Mike Hatkowski			
Nested: Jenison Public Schools	Ms. Kim Hansen	X		
Grand Haven, City of	Mr. Bill Hunter			
Grand Haven, City of	Ms. Cheryl Davidson	X		
Grand Rapids Charter Township	Mr. Bob Versluys		X	
Grand Rapids, City of	Mr. Chuck Schroeder			Alt
Grand Rapids, City of	Mr. Mike Lunn	Alt	X	Alt
Grand Rapids, City of	Ms. Carrie Rivette	X	X	
Grand Rapids, City of	Mr. Dan Taber			X

Permittee: Georgetown Township

Community	Representative	PAM / PEP	Stormwater Ordinance	Data, Information & Procedures
Grandville, City of	Mr. Ken Krombeen		X	
Grandville, City of	Mr. Ron Carr	X		
GVSU*	Mr. John Koches (Chair)			X
Hudsonville, City of	Ms. Amber Eckert-Howe	X		
KCDC	Mr. Bill Byl		X	
KCDC	Mr. Brad Boomstra		X	
KCDC	Mr. Doug Sporte		X	
KCDC	Ms. Angie Latvaitis			X
KCDC	Ms. Lani Brown	X		
KCRC	Mr. Dave Beck	X		
KCRC	Mr. Dave Bennett			
KCRC	Mr. Wayne Harral		X	
Kent County Health Department*	Ms. Sarah Simmonds			X
Kent Resource Recovery*	Ms. Kristen Wieland	X		
Kentwood, City of	Mr. Jim Beke		X	X
Kentwood, City of	Mr. John Gorney	X		
MDEQ*	Ms. Amanda St. Amour	X	X	X
MDEQ*	Ms. Dana Strouse	X		X
OCWRC**	Mr. Dennis Cole		X	
OCWRC**	Ms. Linda Brown	X		
OCWRC	Ms. Angela W...	X		
OCRC**	Mr. Jerry Olman		X	
Plainfield Charter Township	Mr. Rick Solle		X	
Plainfield Charter Township	Ms. Mary Trapp-Gunst	X		
Rockford, City of	Mr. Mike Bouwkamp	X		

Community	Representative	PAM/PEP	Stormwater Ordinance	Data, Information & Procedures
Sparta, Village of	Mr. Miles Ring			
Spring Lake, Village of	Ms. Chris Burns	X		
Spring Lake, Village of	Mr. Roger Belknap			X
Walker, City of	Mr. Scott Conners		X	
Wyoming, City of	Mr. Aaron Vis	X		X
Wyoming, City of	Mr. Myron Erickson		X	

PAM/PEP Committee

The PAM/PEP Committee met on August 14, 2013, January 8, 2014, March 12, 2014, May 14, 2014 and July 9, 2014 during the reporting period. Minutes and Agendas were posted to http://www.lgrow.org/MS4pampep. Throughout the reporting period, the group focused on implementation of the updated Public Education Plan (PEP) approved in February of 2013 which is available here: http://www.lgrow.org/MS4information#publiceducationplan.

In January of 2014, the Public Awareness and Marketing Committee of the Lower Grand River Organization of Watersheds (LGROW) and the MS4 Public Education Plan Committee merged to form one group. Since the goals of LGROW, the Lower Grand River Watershed Management Plan and the MS4 Public Education Plan align closely, this will serve to increase both the efficiency and effectiveness of both group's goals by combining their efforts. The end result will be a larger group of involved stakeholders, who are focusing on the common goal of raising awareness about the Lower Grand River Watershed and improving the stormwater quality within that watershed. During this reporting period, the group focused on selecting outreach events and activities which provided access to the target audiences identified in the PEP. A detailed list of these events and the outreach conducted is provided in Part 3.

Stormwater Ordinance Committee

The Stormwater Ordinance & Strategy Committee met on April 28, 2014; June 2, 2014; June 30, 2014 and July 28, 2014 during the reporting period. Meetings were focused on developing a new post-construction stormwater control model ordinance that meets requirements outlined in the 2016 NPDES

Permit Application. Minutes and agendas for the meetings are available at http://www.lgrow.org/MS4pccord.

The committee has begun working on the individual ordinance requirements outlined in the draft permit and technical guidance provided by MDEQ. Sub-committees are working on water quality treatment performance standard, channel protection performance standard, operation and maintenance requirements and linear projects. The committee is also working with agency staff to explore a proposed alternative approach for the channel protection performance standard in poorly drained soils.

DIP Committee

The DIP Committee met on September 18, 2013; November 20, 2013; January 15, 2014; March 19, 2014; April 16, 2014 and June 18, 2014 during this reporting period. Agendas and minutes from the meetings are available at the following site: http://www.lgrow.org/MS4dip.

This is a joint committee with LGROW. Mr. John Koches, Annis Water Resources Institute (AWRI), is chairman of the committee. Through the end of 2013, DIP Committee meetings focused on the Illicit Discharge Elimination Plan (IDEP) approval, implementation and follow-up. The revised IDEP, which was approved in August 2013, included the prioritization of discharge points, dry weather screening procedures, and measures of effectiveness. IDEP implementation is covered in detail in Part 4 of this report.

In January of 2014 the committee shifted its primary focus. Aaron Vis with the City of Wyoming is leading this effort through development of a new focus detail document titled "Watershed Monitoring to Evaluate Effectiveness of Nonpoint Source Pollution and Municipal Stormwater Runoff Controls and Practices." During 2014, the group worked to refine the new DIP Committee focus detail and began working through the objectives set forth in the document. As of the close of this reporting period, the committee is working on the development of data collection and screening procedures as well as looking ahead to secure partners and funding to conduct the actual sampling through a CMI grant application.

Training

GVMC staff distributed several new and revised training documents for permitee use during the reporting period and hosted several training events including:

- DVD from North Central Texas Council of Governments Municipal Employee Training Series: Preventing Stormwater Pollution: What We Can Do (includes the following videos)
    - Introduction: What We Can Do
    - Construction Activities and Land Disturbances
    - Fleet Maintenance and Material Handling
    - Streets and Drainage Maintenance

- Parks and Grounds Maintenance
- Solid Waste Management

- Stormwater Information for Landscapers (brochure)
- Green Infrastructure and Stormwater Retrofits (webinar)
- Reimagining Parking Lots and Roadways as a Stormwater Practice (webinar)
- Introduction to the DEQ's Soil Erosion & Sedimentation Control and Construction Storm Water NPDES permit Programs (webinar)

Training Library A lending library of training materials is housed at GVMC and is available to all watershed partners to assist with the Municipal Employee Training requirements of the discharge permit. The following materials are currently available:

DVD from Excal Visual, LLC
- IDDE – a grate concern: Illicit Discharge Detection & Elimination (14¼ Minutes)

DVD from Excal Visual, LLC
- Storm Watch - Municipal Stormwater Pollution Prevention (20 Minutes)

DVD from Excal Visual, LLC
- Stormwater Pollution Prevention - A Drop in the Bucket (16 Minutes)

DVD from Excal Visual, LLC
- Ground Control - Stormwater Pollution Prevention for Construction Sites (14.5 Minutes)

DVD from Excal Visual, LLC
- Spills & Skills - Non-Emergency HazMat Spill Response (18.5 Minutes)

DVD from Southeast Michigan Council of Governments (SEMCOG) and the Road Commission for Oakland County
- Keep An Eye On It! - Environmental Awareness for Gravel Road Maintenance (18.5 Minutes)

DVD from USEPA - Reduce Runoff: Slow It Down, Spread It Out, Soak It In (includes the following videos)
- Reduce Runoff: Slow It Down, Spread It Out, Soak It In 9 Minutes
- RiverSmart Homes: Getting Smart about Runoff 12 Minutes
- Building Green: A Success Story in Philadelphia 11 Minutes
- After the Storm 22 Minutes

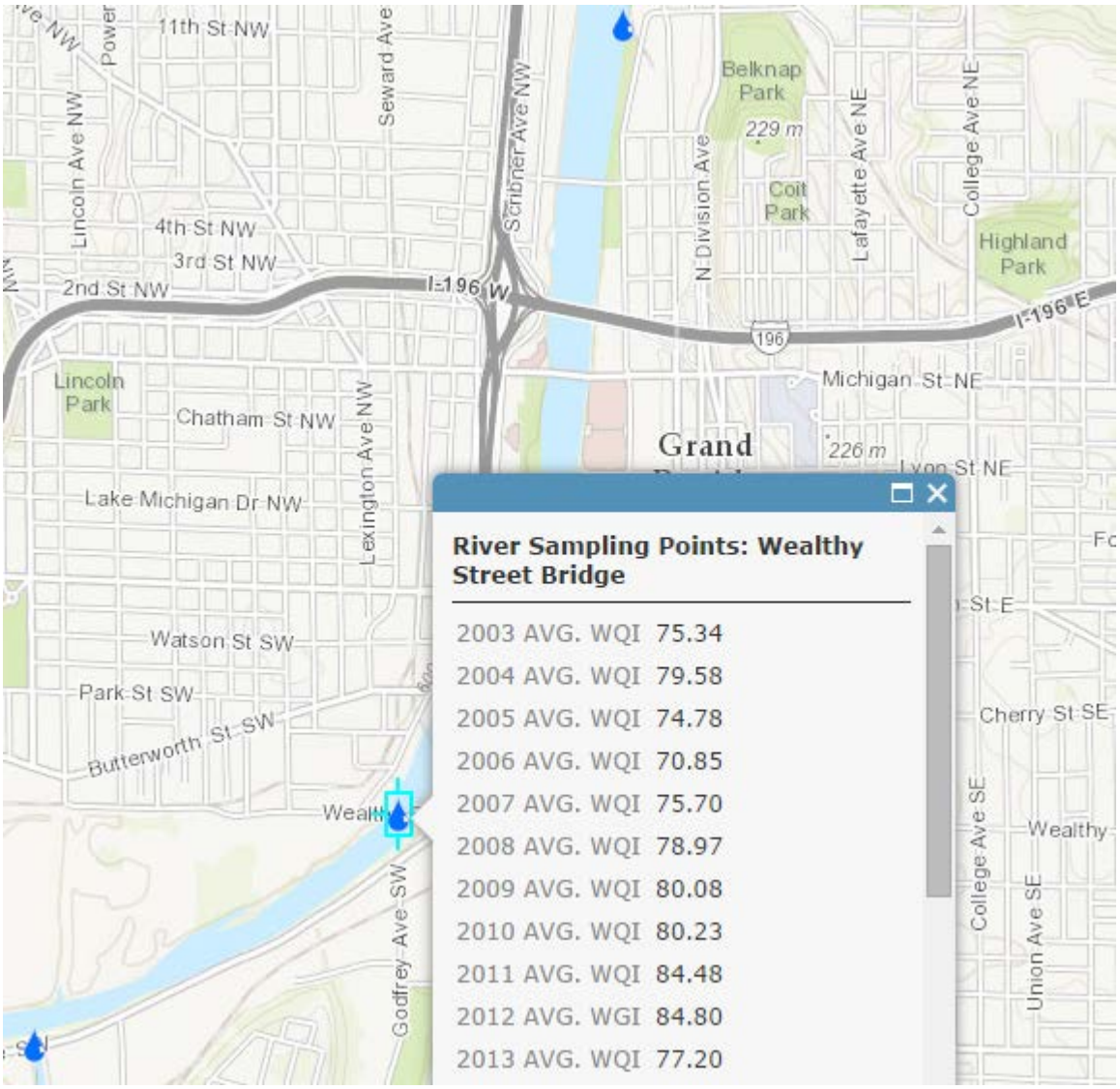
FILLING THE GAPS: Environmental Protection Options for Local Governments, 2nd Edition, revised December 2010 (including appendices on CD) (90 Pages)

Permittee: Georgetown Township

Monitoring

The Grand River Water Quality Index (WQI) is used to show the trend of Grand River water quality downstream of Grand Rapids. A WQI of 71-90 indicates good water quality with high diversity of aquatic life and very few limits for recreational use. Grand Rapids has been monitoring the Grand River for forty years and all of the data is available upon request. A record of the WQI for Wealthy Street Bridge is provided as an example of improving water quality in the Grand River. An interactive map and data from recent sampling events can be viewed as follows:

http://grcity.us/enterprise-services/Environment-Services/Pages/Water-Quality-Index2.aspx



MDEQ Program Audits

MDEQ is expecting to perform Municipal Separate Storm Sewer System (MS4) Program Audits in all MS4 communities within 5 years. During this reporting period, MDEQ performed audits on the following LGRW communities:

August 2, 2013	Forest Hills Public Schools
August 21, 2013	Kentwood/ Kentwood Public Schools
September 19, 2013	City of Grand Haven
March 12, 2014	Plainfield Charter Township
March 14, 2014	Cascade Charter Township
May 5, 2014	City of Walker
June 3, 2014	Kent County Administration & Drain Commissioner

GVMC assisted the communities in preparing for the audits, participating in the audits, and in addressing any deficiencies identified by MDEQ.

PART 2A LOWER GRAND RIVER WATERSHED MANAGEMENT PLAN PRIORITIZED OBJECTIVES: REGIONAL PARTICIPATION FOR AUGUST 1, 2013 - JULY 31, 2014

Encouraging proper septic tank maintenance

Each year a portion of the public education materials distributed address proper septic tank maintenance, detailed information regarding the nature of these materials is included in Part 3 - PEP of the progress report. Additionally, communities in both Kent and Ottawa counties work collaboratively with their respective health departments to report and ensure correction of failing or failed septic fields. Individual communities track this data in the Part 4 – IDEP of the progress report.

Encouraging septage ordinance

The Ottawa County Health Department presently has an ordinance in place requiring point of sale inspections. The permitted communities located within Ottawa County collaborate with and rely on the Ottawa County Health Department for ongoing enforcement of the ordinance.

Kent County has not passed an ordinance requiring point of sale septic system inspections. The permitted entities within Kent County rely on implementation of the illicit discharge elimination plan (IDEP) and reporting/enforcement through their stormwater ordinances and the Kent County Health Department to follow up on failing or failed septic systems. In the case of failed septic system, if a sanitary sewer connection is available within 200 feet, a connection to sanitary is required.

Implement vegetative buffering practices and restore and protect the stream buffer and canopy

Several communities including the City of East Grand Rapids and the City of Grand Rapids have instituted or evaluated the potential for buffer ordinances during the reporting period. The Cities of Hudsonville and Rockford have included buffer provisions within their zoning ordinances. Many other communities have adopted mowing buffer procedures on the properties they own and maintain. These procedures are identified in Appendix 2C.

Implement MDNR wildlife population management practices

Three communities are working with the MDNR on supervised programs to control populations of Canada Geese. These programs include egg destruction (East Grand Rapids) Goose Relocation (Kent County Drain Commissioner) and Targeted Goose hunts for population reduction (Plainfield Charter Township). Communities throughout the watershed are utilizing signage to discourage the feeding of waterfowl and are either actively installing goose deterrents or instituting procedures for a no-mow buffer adjacent to streams and ponds to function as a natural deterrent. The City of Hudsonville has provided a portal on their website for residents to report nuisance wildlife.

Implement sanitary sewer maintenance practices

Sanitary Sewer service is provided by several communities to residents in expanded service areas. Through these partnerships, many communities are able to utilize sanitary sewer infrastructure instead of relying on septic fields. The City of Grand Rapids collaborates with the Cascade Charter Township, the City of East Grand Rapids, Forest Hills Public Schools, Grand Rapids Charter Township, Kent County, Kentwood, and the City of Walker. The City of Wyoming collaborates with the City of Kentwood. The City of Grandville collaborates with the City of Hudsonville and portions of Georgetown Charter Township. The City of Grand Haven collaborates with the City of Ferrysburg and the Village of Spring Lake. The North Kent Sewer Authority collaborates with Plainfield Charter Township and the City of Rockford. The City of Grand Rapids has included information related to the maintenance and upgrades of sewer infrastructure in Appendix 2B of the report.

Implement Low Impact Development Practices

Low Impact Development (LID) and green infrastructure are critical components in both the SWPPI and the PEP. Detailed information on the training related to LID practices and implementation is detailed in Appendix 2D, tracking of the installation and consideration of LID practices by permitees is tracked in Appendix 2E. The PEP incorporates messages on the implementation of LID practices such as rain gardens, buffer strips and native plantings for their direct benefits to water quality. The PEP focuses on LID practices that are feasible for individual homeowners to implement, rather than large scale development. LGROW staff has given several presentations on Low Impact Development and Green infrastructure throughout the year.

Implement watershed focused land-use planning

Throughout the watershed, construction in FEMA mapped floodplains is regulated by the Michigan Building Code to ensure that construction below the base flood elevation does not occur. Through the use of the model stormwater ordinance which has been adopted across the Watershed, the three zoned approach has been implemented to ensure that development in sensitive headwater areas (Zone A) provides the most stringent stormwater protection through post contraction controls. This is accomplished by providing prescribed release rates for Bank Erosion Control as well as Flood Control. Water Quality control is addressed with detention and infiltration where possible or delayed and restricted release where it is not.

Implement proper soil erosion and sedimentation control techniques

Part 91, Soil Erosion and Sedimentation Control (SESC), of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended regulates the activity of earth work and mandates that projects disturbing an area greater than one acre in size or an area less than 500 feet from a lake or stream obtain a soil erosion permit from the regulatory agency with jurisdiction over the area in which they are working. The table below details which permitees work collaboratively with the county enforcing agent (CEA), which permitees administer their own program as a municipal enforcing agent (MEA) and which permitees have the authority to oversee their own projects as authorized public agencies (APA). MEA, CEA and APA programs implement thorough soil erosion and sediment control plan review and regular site inspections in their programs for permitted sites. Plan review and site inspections are conducted by staff with either a comprehensive or inspector construction site stormwater operator certification respectively.

The SWPPI includes training (Appendix 2D) on topics related to construction site stormwater runoff. This training ensures that even if a community does not oversee their own program, field staff will be

informed regarding what to look for on a construction site and who to report to if there is an offsite discharge or poorly maintained SESC measures.

Table 3 - LGRW Part 91 Administration Authority as of July 31, 2014

Community	MEA	Utilizes CEA		APA
		Kent	Ottawa	
Cascade Charter Township		X		
East Grand Rapids, City of		X		
Ferrysburg, City of			X	
Forest Hills Public Schools		X		
Georgetown Charter Township			X	
Grand Haven, City of			X	
Grand Rapids Charter Township		X		
Grand Rapids, City of	X			x
Grandville, City of		X		
Hudsonville, City of			X	
Kent County Drain Commissioner & Administration		X		X
Kent County Road Commission		X		X
Kentwood, City of	X			X
Ottawa County Water Resources Commissioner and Administration			X	X
Ottawa County Road Commission			X	X
Plainfield Charter Township		X		
Rockford, City of				
Sparta, Village of				
Spring Lake, Village of				
Walker, City of	X			
Wyoming, City of		X		

Implement channel and stream bank stabilization, bio-engineering and erosion control techniques

The MDEQ requires a joint permit from the state of Michigan for all work performed in channels that are designated as waters of the state. Any work that occurs within 500 feet of a lake or stream is required to obtain a soil erosion control permit but the authorized Part 91 agency as referenced above. These permitting procedures work in tandem to prevent negative impacts during and after construction as well as to ensure adequate restoration. Permitted communities in the Lower Grand River Watershed have policies in place to ensure protection of drainage systems from construction-site runoff as detailed in Appendix 2C and perform regular training as referenced in Appendix 2D related to construction site stormwater runoff and water quality protection.

Implement turf management and proper fertilizer application practices

Permitted communities within the Lower Grand River Watershed have developed procedures for managing vegetation and using fertilizers on permitee owned Properties as outlined in Appendix 2C. All staff at the communities and their subcontractors adhere to these procedures. Training is also provided in the form of the brochure “What Every Landscaper Must Know”. This brochure, is distributed as part of the comprehensive training plan on controls to reduce the discharge of pesticides, herbicides and fertilizers as described in Appendix 2D.

PART 2B - STORMWATER CONTROLS INSPECTION, MAINTENANCE AND EFFECTIVENESS

BMPs on Multiple Municipal Properties **Administration Building and Library Parking Lot, Senior Building Parking Lot, Ice Arena Parking Lot, Church Street Fire Station, Maplewood Park, Parks Director Office**				
Structural Storm Water Control	**Inspection Frequency**	**Maintenance Schedule**	**Inspection and Maintenance Conducted and Location of Log (if applicable)**	**Effectiveness of Control and Support Documentation**
Catch basin sumps	Annual	As needed	August 2014	Very Effective
Storm sewer system	As needed based on catch basin inspections	As needed	Ice Arena Not Needed	Very Effective No maintenance required
Detention basin	Annual – June	As needed	August 2014	Very Effective

BMPs on Jenison Public School Properties				
Structural Storm Water Control	**Inspection Frequency**	**Maintenance Schedule**	**Inspection and Maintenance Conducted and Location of Log (if applicable)**	**Effectiveness of Control and Support Documentation**
Catch basin sumps	Annual	As needed	Vactored out 10 basins on 7/9/2014	Very Effective 204 cubic feet removed

PART 2C - PROCEDURES STATUS

Procedure	Date Adopted	Date Revised (if needed)
Procedure to Dispose of Storm Sewer System Operation and Maintenance Waste	August 9, 2010	N/A
Procedures to Construct, Operate, and Maintain Streets, Roads, Highways and Parking Lots	August 9, 2010	N/A
Procedure to Reduce Runoff of Total Suspended Solids (TSS)	August 9, 2010	N/A
Procedure to Prevent Salt and Sand from Entering Receiving Streams	August 9, 2010	N/A
Procedure to Control Dust and Suspended Solids in Runoff	August 9, 2010	N/A
Procedure for Managing Vegetation on Municipal Property	August 9, 2010	N/A
Procedure for Using Fertilizers on Municipal Property	August 9, 2010	N/A
		No Changes

PART 2D - STAFF AND CONTRACTORS TRAINING ON POLLUTION PREVENTION AND GOOD HOUSEKEEPING

Records were not maintained related to training activities.

Logs will be maintained in the future for training (sign in sheets listing the training topic, date of the training, number of attendees, handouts distributed)

Training Topic Area	**Employee Group to Receive Training**	**Training Frequency**	**Potential Training Type**
Required Topics			
Maintenance activities, maintenance schedules, and inspection procedures	Parks and Cemetery Supervisor	Continuous, as necessary	**Written O&M Procedures** **Storm Water Pollution Prevention - A Drop in the Bucket - DVD from Excal Visual, LLC** **"Best Management Practices for Municipal Operations" Training Session – Live Presentation**
Training completed:	No training completed during the reporting period		
Controls on streets, parking lots, maintenance garages, and storage yards	DPW Director and Supervisor	Ongoing and as necessary	**Storm Watch - Municipal Storm Water Pollution Prevention - DVD from Excal Visual, LLC** **Spills & Skills - Non-Emergency HazMat Spill Response - DVD from Excal Visual, LLC** **MDEQ <u>Storm Water Employee Training</u>** This session explains the importance of preventing contamination from storm water runoff and ways employees can be involved at your facility. This session is designed to meet the permit requirements for employee training. (Approx 17 minutes)

Training Topic Area	Employee Group to Receive Training	Training Frequency	Potential Training Type
Training completed:	No training completed during the reporting period		
Disposal of O&M waste	DPW, Parks & Cemetery Employees	As necessary	**Regulatory Requirements for Waste Disposal – Live Presentation** **On the job training and education as need arises**
Training completed:	No training completed during the reporting period		
Water quality protection in flood control projects (detention basins, dams)	DPW Director	As available	**Retrofitting Detention Ponds for Water Quality – Live Presentation**
Training completed:	No training completed during the reporting period		
Controls to reduce discharge of pesticides, herbicides, and fertilizers	Awarded contractors are obligated to file training certificates to begin applications	Annual	**LGRW_LandscapingContractorTrainingBrochure_2011-08-01.pub**
Training completed:	Training certificates for awarded contractors are on file with the township.		
Other Topics			
Construction site stormwater runoff	DPW Employees	Ongoing	**Ground Control - Storm Water Pollution Prevention for Construction Sites - DVD from Excal Visual, LLC** **LGRW_ContractorTrainingBrochure_2011-09-16.pub** **Encouragements – challenges and assignments**
Training completed:	Spoke with various contractors as well as working with Ottawa County Water Resources Commissioner		
Gravel Road Maintenance	N/A – no gravel roads in Township		**Keep An Eye On It! - Environmental Awareness for Gravel Road Maintenance - DVD from SEMCOG & Road Commission for Oakland County**

Permittee: Georgetown Township

Training Topic Area	Employee Group to Receive Training	Training Frequency	Potential Training Type
Training completed:	No training completed during the reporting period		
LID	Building Department	Annual	**Reduce Runoff: Slow It Down, Spread It Out, Soak It In - DVD from USEPA** **RiverSmart Homes: Getting Smart about Runoff - DVD from USEPA** **Building Green: A Success Story in Philadelphia - DVD from USEPA** **After the Storm - DVD from USEPA** **BMP Tour of GVSU Campuses – Walking Tour**
Training completed:	No training completed during the reporting period		
IDEP	DPW Employees	Continuous	**WaterPollutionReportForm.doc** **Article_City_Employees.doc** **Pass out pamphlets as challenges – create pride of community**
Training completed:	No training completed during the reporting period		
General Storm Water Education	Municipal officials	As hired in	**"Back to Basics" Storm Water Training – Live Presentations**
Training completed:	No training completed during the reporting period		

Permittee: Georgetown Township

PART 2E - POST CONSTRUCTION CONTROLS ACTIVITIES

Georgetown Township has a Storm Water Ordinance, Ord. No. 2002-01, §§ 1.01--9.01, Chapter 48 as amended, revised 3-1-06, that controls stormwater in areas of new development and significant redevelopment. It includes various levels of control depending on zones established based on the sensitivity of the receiving waters. The ordinance also ensures that the owners of facilities constructed to meet the stormwater requirements properly operate and maintain the facilities.

The Township requires specific practices for water quality and stream protection as follows:

Sec. 48-43. Stormwater discharge rates and volumes.

The township and/or OCDC is authorized to establish minimum design standards for stormwater discharge release rates and to require dischargers to implement on-site retention, detention or other methods necessary to control the rate and volume of surface water runoff discharged into the stormwater drainage system, in the following circumstances:

(1) A parcel of land is being developed in a manner that increases the impervious surface area of the parcel; or

(2) The discharge exceeds the OCDC and/or township's calculated predevelopment discharge characteristics for the subject property, and the OCDC and/or township determines that the discharge is a violation of the drainage, flooding or soil erosion regulations of this chapter.

(Ord. No. 2002-01, § 3.03, 2-11-02)

As described in Article VIII of the Ordinance, the Township requires Low Impact Development practices through its storm water management standards at sites of new development and significant redevelopment if located in Zone A of the Township.

The Storm Water Ordinance includes regulations that adhere to the Floodplain Ordinance and the Soil Erosion and Sedimentation Control program of the Township.

Storm water retention/detention issues and all inspection maintenance issues are complaint driven. When issues are brought to our attention they are referred to the Public Works Department. At that time they are visited and categorized depending on who has possession or jurisdiction over the said area.

- Ottawa County Drain Commission - Call Drain Commission with issue
- Ottawa County Road Commission - Call Road commission with issue
- Private Ownership - Call owner with issue and corrective measures to pursue. If not completed in timely manner Township will make corrections and charge to owner or place on tax rolls. Issues are almost always corrected under Code Enforcement if not under storm water ordinance.
- Georgetown Charter Township property - Corrective measures taken

Explain the enforcement activities of your comprehensive storm water management program for post-construction controls completed during this reporting period:

How many developments were approved with storm water controls according to PCC? **14**

Have any long-term operation and maintenance agreements been signed? **0**

How many inspections or enforcement/compliance of O&M agreements were conducted?
All inspections or enforcement of O&M agreements is deferred to Ottawa County Water Resources Commissioner.

Explain how the Post Construction Controls have addressed other issues, such as protecting sensitive areas, directing growth to identified areas, encouraging infill development in higher density urban areas and areas with existing infrastructure, and/or maintaining or increase open spaces.
The Township's general ordinances cover this.

Permittee: Georgetown Township

PART 3 - PEP

REGIONAL PEP

The updated PEP was approved by MDEQ in February 2013. The purpose of the PEP is to promote, publicize, and facilitate education for the purpose of encouraging the public to reduce the discharge of pollutants in stormwater to the maximum extent practicable. This section provides a report of public education activities implemented between August 1, 2013, and July 31, 2014.

A. PUBLIC EDUCATION COMMITTEE

A LGRW Stormwater Education Committee was formed in 1999 to begin development and implementation of the PEP. Since that time, the committee has met on a regular basis to discuss and plan activities scheduled for implementation in the PEP. The 2013/2014 PAM/PEP Committee consists of the following participants:

- Steve Peterson - Cascade Charter Township
- Lea Sevigny – Forest Hills Public Schools
- Kim Hansen - Jenison Public Schools
- Cheryl Davidson - City of Grand Haven
- Carrie Rivette - City of Grand Rapids
- Ron Carr – City of Grandville
- Amber Eckert-Howe – City of Hudsonville
- Lani Brown - Kent County Drain Commissioner's Office (KCDC)
- Dave Beck - Kent County Road Commission (KCRC)
- Kristen Wieland - Kent County Resource Recovery
- John Gorney - City of Kentwood
- Amanda St. Amour - MDEQ
- Andrea Walachovic - Ottawa County Water Resource Commissioner's Office (OCWRC)
- Mary Trapp - Plainfield Township
- Mike Bouwkamp - City of Rockford
- Chris Burns - Village of Spring Lake
- Nichol DeMol – Trout Unlimited
- Ms. Becky Brown - WMEAC
- Ms. Becky Huttenga - Ottawa Conservation District
- Mr. Aaron Vis - City of Wyoming
- Ms. E. Wendy Ogilvie – GVMC
- Ms. Bonnie Broadwater –GVMC

Permittee: Georgetown Township

- Mr. Brian Zuber – GVMC

B. PEP IMPLEMENTATION IN YEAR 11

This section describes the public education activities implemented by the Permittees in the eleventh year of PEP implementation, August 1, 2013, and July 31, 2014. The following report is according to the updated PEP, which meets the requirements of the 2013 approved PEP. Target audiences, messages, and delivery mechanisms are described for each Public Education Topic.

Public Education Topic 1 - Personal Watershed Stewardship

PEP Objective 1: Educate the public about their responsibility and stewardship in their watershed.

Target Audience: Watershed residents, community groups, business associations, and city and township officials.

Content of Message: You live in the Grand River Watershed, which flows into Lake Michigan. Water quality in lakes and streams is greatly affected by our everyday activities. By taking water quality protection personally, you will help improve our community's water resources.

Delivery Method:

- A link from the Permittees' websites to the LGROW's website, www.lgrow.org, was maintained or was established. The watershed website provides information on nonpoint source (NPS) pollution, local watershed issues, water science education, and watershed management.

- LGROW established a Facebook page and a regular posting schedule including, Watershed Wednesdays, upcoming events, and volunteer opportunities. As of the end of the reporting period, the page has reached over 100 likes.

- Permittees distributed the following LGROW and watershed education materials to residents in the LGRW at multiple events and venues:

  - 1000 Troutie Coloring Books
  - 1992 Color Your Own Fish Hat
  - 500 Packages of Crayons with LGROW logo
  - 1000 Stress Ball Fish with LGROW logo
  - 1000 Tote bags with LGROW logo
  - 788 Dew Drop Rain gauges with LGROW logo

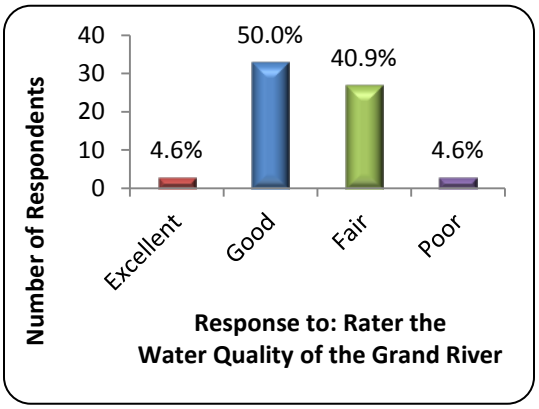
Permittee: Georgetown Township

- 1023 Fish magnets
- 1044 Fish Post-its
- 300 Flash Drives, with the LGROW logo, pre-loaded with PEP Materials and watershed information.

- Through cooperation of staff at permitted MS4 communities, PEP committee participants, GVMC staff and other members of LGROW, the following events were either hosted or included a watershed education component for personal watershed stewardship:

  - The Annual Science, Technology, Engineering and Mathematics (STEM) student evening was hosted at the Grand Rapids Public Museum this year on February 19, 2014. LGROW provided a 10 minute demonstration for small groups throughout the day utilizing the Kent County Drain Commissioner's Enviroscape model. The demonstration focused on non-point source water pollution and its impacts on stormwater. Each group of approximately 6-10 students watched the demonstration and then engaged in a discussion about what actions can be taken to reduce the impacts of non-point source pollution on stormwater and what they, as individuals, could do. Approximately 150 students attended the event from several Grand Rapids Public Schools and cycled through the LGROW station during the course of the event.

  - LGROW hosted the 11th Annual Grand River Forum on May 2, 2014. The half-day event had 72 attendees and featured speakers on Michigan's Water Strategy, the Blue Economy, the Restore the Rapids Project, the Hubbardston Dam removal and a tour of the Grand Rapids Museum Grand River Exhibit Renovation which is in progress. Forum participants were asked to complete a survey after both registering and attending the event these questions will be reused in subsequent



years to see if there is a measurable change in people's attitude toward and perception of the river.

- The Party for the Planet was held at the John Ball Zoo on Saturday, May 3, 2014. The event brought the public together with environmentally conscious groups. A total of 2,143 people visited the event with at least 707 interacting with our tables. LGROW, the City of Grand Rapids, Kent County Drain Commissioner's Office, and WMEAC coordinated for the event with a theme of stormwater education. Public feedback was overwhelmingly positive with many children expressing that they learned something valuable. Interaction was largely required for the public to receive give-away items. The following items were distributed: 112 rain gauges, 240 fish post-its, 325 fish magnets, 325 squishy fish, and 95 bags.

- LGROW hosted a booth at the Rockford Farmer's Market on June 21, 2014 during the Rogue River Expedition which ran from June 19, 2014 through June 21, 2014. The booth featured a newly created map which asked "Where do you live in the Watershed?" Visitors who stopped by the booth were given a push pin to add to the map. Over 50 visitors added pins to the map and more than half of the visitors to the booth already understood the concept of a watershed. LGROW brochures and giveaways were provided to those who participated in the map activity. GVMC staff represented LGROW and also spoke with booth visitors about the ongoing Rogue River expedition. The expedition visited the farmer's market during the event while portaging the Rockford Dam.

Permittee: Georgetown Township

- LGROW also attended the following professional events on behalf of the MS4 permitees during the reporting period and staffed an outreach booth with stormwater and watershed information:
    - MWEA Watershed Seminar December 5, 2013 (55 attendees)
    - 19th Annual Quiet Water Symposium March 1, 2014
    - MWEA Watershed Summit March 26, 2014 (120 attendees)
    - Green Roofs for Healthy Cities March 27, 2014
    - Michigan Green Infrastructure Conference May 8-9, 2014

- Permittees displayed their lamppost banners purchased in 2012 to advertise the presence of the Grand River, Rogue River and Plaster Creek Watersheds. The banners featured the LGRW logo and the message "Yours to Protect."

Public Education Topic 2 - Ultimate Stormwater Discharge Location and Potential Impacts

Target Audience: Residents, Visitors, Riparian Landowners, Local Units of Government, Teachers, Schools, Businesses, and Girl/Boy Scouts.

Content of Message: 1) Storm drains connect to your local lakes and streams, not a water treatment plant. 2) Prevent pollution from entering your storm drains and protect the health of your family, your community, and the Grand River.

Delivery Method:

- Eleven permitees ordered a total of 1500 storm drain markers; 500 cast metal markers from Almatek and 1,000 plastic makers from Das Manufacturing. Markers advertise the message "No Dumping. Drains to Waterway", "No Dumping. Drains to Lake." And "No Dumping. Drains to River." Permittees installed these markers near catch basins to discourage illicit dumping.

- Door hangers were also distributed with the drain markers to alert residents in neighborhoods where drain marking had occurred. A total of 500 door hangers were distributed with the drain markers for storm drain marking events. The hangers included information on pollution prevention, reporting illicit discharges and LGROW.

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- Five interior ad panels on Harbor Transit busses and trolleys were posted from July 1, 2013-September 30, 2013. These banners shared the message that anything entering a storm drain goes directly into the Grand River as shown here:

<u>Public Education Topic 3 - Public Reporting of Illicit Discharges</u>

Target Audience: Residents, Visitors, Riparian Landowners, Local Units of Government, and Businesses.

Content of Message: Report illicit discharges to your city or township to prevent pollution from entering your storm drains and protect the health of your family, your community, and the Grand River.

Delivery Method:

- Permittees distributed copies of the *"Citizen Report Form"* to their residents. This form included information on how to report illicit discharges and connections to one's community. Permittees individually customized these brochures for their residents.

- A public service message discussing what an illicit discharge is why it is harmful to stormwater and receiving waters aired on WYCE.

- Door hangers distributed during storm drain marking events included information in reporting illicit discharges.

- Permittees distributed the article *"How you as an Employee Can Help Reduce Pollution Entering the Grand River"* to their employees. This article encourages employees to report stormwater discharges to their community's stormwater coordinator.

Permittee: Georgetown Township

Public Education Topic 4 - Personal Actions that can Impact the Watershed

Target Audience: Residents, Visitors, Riparian Landowners, Local Units of Government, Teachers, Students, Landscaping/Lawn Care Companies, Commercial Power Washers, Carpet Cleaning Companies, and Golf Courses.

Content of Message: 1) Avoid scorching your lawn. Use slow-release fertilizers only 2 to 3 times per year. Non-phosphorus types are best for the environment. 2) Lower your water bill. Install a rain barrel to capture and reuse your stormwater. 3) Wash your car at a commercial car wash or on your lawn. Otherwise, dirty, oily water on your driveway will flow to your storm drain and eventually your local lake or stream. 4) Pick up your pet waste and dispose of it properly; otherwise, it could end up in the Grand River and on your favorite Lake Michigan beach.

Delivery Method:

- Permittees distributed the newsletter article "*New Michigan Law Restricts Phosphorus Fertilizers*" to their residents via their webpage or community newsletter. This article describes the new Michigan fertilizer law and encourages homeowners to use phosphorus-free fertilizer. This article was made available to permitees via the USB drives distributed with PEP materials.

- Permittees sent eco-friendly car wash letters containing tips on ways to protect our local lakes and streams, the Grand River, and Lake Michigan, during car wash fundraisers.

- Permittees electronically distributed the newsletter article *"How You Can Help Reduce Pollution Entering the Grand River"* to their residents via their webpage or community newsletter. This article encourages residents to dispose of pet waste, paints, motor oil, etc., in the appropriate locations, not in the storm drains.

- Permittees electronically distributed the USEPA article *"The Solution To Stormwater Pollution"* which details healthy household habits for clean water, topics include; vehicle and garage care, lawn and garden care, home repair and improvement, pet care, swimming pool/spa care, and septic system use and maintenance.

- Permittees electronically distributed the article *"Are Your Ready for Spring?"* with tips to help residents prepare for the spring thaw, reduce flooding impacts and keep harmful materials out of rivers and streams.

- Several communities hosted rain barrel events as detailed in their PEP Questionnaires.

Permittee: Georgetown Township

Public Education Topic 5 - Waste Management Assistance

Target Audience: Residents, Visitors, Riparian Landowners, Local Units of Government, and Auto Repair Shops.

Content of Message: 1) Protect your family's health, dispose of unwanted paints, solvents, and cleaners at your county collection center. 2) Recycle used oil and automotive fluids. Just one gallon of used motor oil dumped down a catch basin can contaminate one million gallons of your drinking water.

Delivery Method:

- WYCE aired a "*Water Spot"* on the topic of property disposing of household hazardous waste to keep it out of the storm drains.
- Permittees distributed the newsletter article *"How You Can Help Reduce Pollution Entering The Grand River"* to their residents via their webpage or community newsletter. This article encourages residents to dispose of pet waste, paints, motor oil, etc., in the appropriate locations, not in the storm drains.
- Permittees electronically distributed "*West Michigan, Take Back Meds*," to their residents. The pamphlet encourages the proper disposal of unused/unwanted/expired medications and lists locations for disposal.
- Permitees distributed their county's household hazardous waste guide or flyer in both Kent and Ottawa counties

Public Education Topic 6 - Septic System Maintenance

Target Audience: Septic System Owners and Local Units of Government.

Content of Message: 1) If you have a septic system, have it pumped out every 3 to 5 years to avoid a costly septic system failure. Failing septic systems can leak bacteria into your local stream, the Grand River, and eventually Lake Michigan, causing beach closures.

Delivery Method:

- Permittees distributed 500 copies of USEPA's *A Homeowner's Guide to Septic System* brochure to their residents. This brochure describes what a septic system is, how it works, and how to maintain it.

Permittee: Georgetown Township

- Permittees distributed the newsletter article *"Do You Know Where Your Septic System Is?"* to their residents via their webpage or community newsletter. This article encourages residents to regularly pump their septic tanks, warning signs of a failing drain field and the environmental consequences of a failed or improperly maintained septic system.

Public Education Topics 7 and 8 - Benefits of Native Vegetation and Management of Riparian Lands

Target Audience: Residents, Visitors, Riparian Landowners, Local Units of Government (e.g. Parks Departments), Teachers, Students, and Faith-based Organizations.

Content of Message: Plant native plants in your yard or garden. Natives naturally need less water, fertilizers, and pesticides saving you time and money.

Delivery Method:

- Permittees distributed the brochure "*What Every Landscaper Should Know*, to their subcontractors and facilities staff. These brochure details BMPs for fertilizer and pesticide application, lawn care, and native plantings.

Public Education Topic 9 - Entity of Specific Pollutants

Target Audience: Local Units of Government (e.g. County Road Commissions, Department of Public Works [DPW]), and Restaurants.

Content of Message: Prevent pollution from entering your storm drains and protect the health of your family, your community, and the Grand River.

Delivery Method:

- Permittees distributed the newsletter article *"How You Can Help Reduce Pollution Entering the Grand River,"* to their employees at department meetings. This article encourages residents to dispose of pet waste, paints, motor oil, etc., in the appropriate locations, not in the storm drains.

- Permittees electronically distributed the pamphlet "West Michigan, Take Back Meds," to their residents. The pamphlet encourages the proper disposal of unused/unwanted/expired medications and lists locations for disposal.

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C. EVALUATION MEASURES

This section includes a description of the quantitative and qualitative evaluation measures of PEP effectiveness implemented between August 1, 2012, and July 31, 2013.

Community Quantitative and Qualitative Evaluation Measures of Effectiveness

Permittees completed PEP Questionnaires to provide a quantitative and qualitative evaluation of their individual stormwater education efforts. Based on the input provided by the Permittees, the most popular brochure topics were those household hazardous waste and septic system care.

The four WYCE radio spots aired a total of 40 times during the reporting period. With an estimated audience of 1,500-2,000 during each airing, these ads were heard by up to 60,000 people within the broadcast range. In 2010 WYCE expanded their broadcast range with system upgrades. The map to the left shows the expanded coverage area in blue, which encompasses the entire regulated watershed area.

The Harbor Transit bus & trolley advertising was posted for two months of the reporting period August 1, 2013-September 30-2013. This time period was selected to correspond with the increased ridership during the summer tourist season, and specifically during the Coast Guard Festival which was July 26 - August 4, 2013. During the two month display period five interior panels located on three busses and two trolleys were displayed. With ridership estimated at 7,545 for the trolleys and 9,207 for the busses. In total, approximately 16,752 people viewed the message.

Permittee: Georgetown Township

2014 Stormwater Public Education Plan (PEP) Questionnaire

Reporting Period of August 1, 2013, to July 31, 2014

Please complete this questionnaire to provide an evaluation of the stormwater education activities you have implemented between **August 1, 2013, and July 31, 2014**. GVMC will include this information, along with watershed-wide measures of effectiveness, in your 2014 Progress Report.
Please return this form to GVMC by August 15, 2014.

Community Name: _____Georgetown Township/ Jenison Public Schools_____

Brochures, Flyers, and Give-a-ways (distributed to Permittees in May 2014)

1. Have brochures, flyers, and give-a-ways been distributed?
   ☒Yes: ☒all ☐in progress
   ☐No

2. Where did you distribute your brochures, flyers, and give-a-ways?
   ☒Government office ☒Library ☐Community event ☐Other _____

3. Describe any interest, comments, or discussion generated from the brochures, flyers, and give-a-ways. No comments to this office.

4. What was the most popular give-a-way from the materials distributed in your community? Coloring books and bags

5. What brochure topics have historically been in the highest demand in your community?
   ☐How to report stormwater pollution
   ☐Stormwater discharge locations/impacts
   ☐Native vegetation/rain gardens/riparian buffers
   ☐Proper vehicle care/motor oil disposal
   ☐Proper use of pesticides/fertilizers/herbicides
   ☒Proper yard waste disposal
   ☒Proper pet waste disposal
   ☐Proper septic system maintenance
   ☐Household hazardous waste management

Illicit Discharge Reporting (brochure available at: www.lgrow.org/uploads/files/Citizens_Reporting_Brochure_withnote.pdf

6. How many "Citizens Reporting Brochures" were customized and distributed to your residents? Info sheets were on info tab
   Was the "Citizens Reporting Brochure" posted to your city website? ☐Yes, at _____ (url) ☒No
   Please describe any interest, comments, or discussion generated from the brochure: _____0_____
How many complaints were received from the general public regarding illicit discharges?_____0_____

Lamppost Banners: YES

7. Did you display your lamppost banners provided to you in 2009- 2013?

   ☒Yes, at _Baldwin_____(streets) on _year round_____ (dates). Please describe any public feedback generated__0_____
   ☐No, but we will display our banners at _____ (streets) on _____ (dates)

☐We did not order lamppost banners

Newsletter Articles (available at: http://www.lgrow.org/MS4information#brochuresandfliers and distributed on flash drives)

8. Did you distribute these newsletter articles to your residents?
☐Yes, on _____ (date); Via: ☐print ☐web ☐other
☒No

9. Please describe any interest, comments, or discussion generated from the articles _____0_____

10. If applicable, list the newsletter name or webpage address used to distribute the articles ____n/a_____

11. If applicable, how many residents received your community newsletter? _____n/a_____

12. If applicable, how many total website hits did you receive for your online newsletter articles? _____n/a_____

Hold Messages

13. Did your community utilize the hold messages distributed with the public education materials? ☐Yes ☒No

14. Please describe any interest, comments, or discussion generated from the messages: _____no comments_____

Website

15. Is there a web link to www.lgrow.org on your community's website?
☒Yes, please describe any interest, comments, or discussion generated from the website _____0_____
☐No, but we have a web link to _____
☐No

16. If you have developed your own stormwater webpage, please list the web address: _____n/a_____(url)

Stormwater Poster Board and EnviroScape

17. Did you set up your stormwater poster board display?
☒Yes, on Year-round (dates) at _____ (location). Please describe any feedback generated
☐No, but we will set up our display on _____ (dates) at _____ (location)
☐No

18. Did you use an EnviroScape interactive stormwater model to educate the public on stormwater pollution?
☐Yes, on _____ (dates) at _____ (location); ☒No

Storm Drain Awareness Activities

19. Did you implement a storm drain awareness activity between August 1, 2013, and July 31, 2014?
☐Yes_____ (streets) on _____ (dates)
☒Yes, we held a storm drain stenciling event on 7/9/2014 (dates) and stenciled 35 basins at 6 schools
☐Yes, we have approximately _____ (no.) pre-marked catch basin backs/grates with the message "No dumping, drains to waterway"
☐Yes, we hung door knob flyers on _____ (streets) on _____ (dates)
☒No

20. Please describe any interest, comments, or discussion generated from the activities above ___no comments____

21. Have you noticed a reduction in storm drain dumping?
☐Yes, if so, please describe _____; ☒No, if so, please describe _____

Additional Efforts

22. Did you participate in any community stormwater events? (check all that apply)

☐Rain Barrel Workshop Date: __/__/____ Number of Attendees: __
☐Rain Garden Installation Date: __/__/____ Number of Attendees: __
☐STEM (at Grand Rapids Public Museum) 2/19/2014
☐Grand River Clean up 9/14/2013
☐Grand River Green up 4/26/2014
☐Rogue River Expedition 6/21/2014
☐Michigan Green Infrastructure Conference 5/8/2014
☐John Ball Park Party for the Planet 5/3/2014
☐MWEA Watershed Summit 3/26/2014
☐MWEA Watershed Seminar 12/5/2014
☐11th Annual Grand River Spring Forum 5/2/2014
☐Green Roofs for Healthy Cities Symposium 3/27/2014
☐Other: _____ Date: __/__/____ Number of Attendees: __

Describe any materials distributed, number of attendees, messages distributed : _____
_____
_____

23. If applicable, please describe any other stormwater public education activities your community implemented beyond the requirements described above. (Submit any relevant documentation.) _____

PART 4 – IDEP

Regional IDEP Activities

During the previous reporting period, the DIP Committee worked with MDEQ on IDEP revisions. The Illicit Discharge Elimination Plan (IDEP) for the Lower Grand River Watershed was approved in July of 2013 as meeting requirements of the General Permit Application for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4). The IDEP is intended to prohibit and effectively eliminate illicit discharges to the MS4.

The IDEP is being implemented under a cooperative program administered by the Grand Valley Metropolitan Council (GVMC) and involving the county agencies and municipal units participating in the Watershed Approach. The approved IDEP utilizes an alternative approach which includes the sampling of all storm sewer outfalls to Waters of the State within the urbanized area for the following parameters: Surfactants, temperature, ammonia and pH. Cooperative agreements were signed by participating communities to ensure that any illicit discharges detected would be traced upstream to their point of origin within the approved timeline whether or not they crossed jurisdictional boundaries.

Outfall sampling was conducted during the summers of 2013 and 2014 for regulated communities in Kent and Ottawa County respectively. On May 15, 2013 a training event was held for staff who would be conducting outfall sampling. This event ensured that the methodology would be consistent for all Lower Grand River Watershed Permitee outfall sampling. The sampling crews were a combination permitted community staff, and interns that worked in multiple communities. These interns conducted outfall sampling through cooperative agreements with the Kent County Road Commission and the Ottawa County Water Resource Commissioner's offices. Additional interns were utilized by the City of Grand Rapids. All field crews adhered to the sampling procedures as outlined in the approved IDEP. The training also covered field recognition of illicit discharges and reporting. Table 5 details the findings of the outfall sampling. In total, over 2000 outfalls were sampled in the urbanized area of the Lower Grand River Watershed. Of those outfalls, only 13, or 0.5% required high priority or immediate follow-up. By comparison, 41 illicit discharges not associated with outfall testing were identified either by public reporting or staff identification during the reporting period. This shows that training the public and the staff of permitted communities to identify and report is a far more effective method of eliminating illicit discharges than outfall sampling. A detailed description of the IDEP activities undertaken on an individual basis is included below. The IDEP activities include dry-weather screening of discharge points, locating possible sources of contamination, responding to reported incidents, correcting the problems, and preventing new illicit connections.

Table 5 - IDEP Dry Weather Screening Analysis:											
Location:	Outfalls Expected	Outfalls Surveyed	Total Couldn't Locate	Priority Level:				Outfalls With Flow	High Ammonia Levels	Very High/Low pH Levels	Total New Outfalls
				Immediate	High	Low	None				
Cascade	7	7	2	0	0	3	4	1	0	0	0
East Grand Rapids	64	64	4	2	0	10	52	4	1	0	0
Ferrysburg, City of	28	28	0	0	2	2	26	8	0	2	0
Forest Hills Public Schools	10	10	0	0	0	0	10	0	0	0	0
Georgetown Charter Township	2	2	0	0	0	0	2	0	0	0	0
Grand Haven, City of	20	20	0	0	2	10	8	8	0	6	0
Grand Rapids Charter Township	1	1	0	0	0	0	1	0	0	0	0
Grand Rapids, City of	364	364	0	0	3	4	355	97	2	3	0
Grandville, City of	87	40	10	0	0	11	25	1	0	0	0
Hudsonville, City of	62	50	12	0	0	12	50	16	0	0	0
Kent County Drain Commissioner	522	519	3	1	0	113	410	123	3	0	5
Kent County Road Commission	373	333	40	0	2	89	282	10	4	0	2
Kentwood	345	345	0	0	0	27	318	108	0	1	0
Plainfield	4	4	3	0	0	3	1	0	0	0	0
Rockford	53	54	3	0	0	8	49	15	0	0	4
Sparta	29	26	2	0	0	7	19	3	0	0	0
Spring Lake, Village of	16	16	0	0	0	1	15	2	1	1	0
Walker	139	140	5	0	1	25	113	22	1	0	6
Wyoming	159	148	11	0	0	5	143	27	1	2	0
Totals:	2285	2171	95	3	10	330	1883	445	13	15	17
			4%	0.14%	0.46%	15%	87%	20%	1%	1%	

Please describe any dry-weather screening conducted during the reporting period and the findings of that screening.
Ottawa Co Drain Commission performed 2 out fall inspections with no negative results.
Please list any other known and/or resolved illicit discharges identified during the reporting period and status of elimination. For significant discharges, also list the pollutants involved with an estimate of the volume and loading. Examples of illicit discharges include: malfunctioning septic systems; sanitary sewer leaks, overflows, or cross-connections; laundry water discharges; leaking fluids from vehicles, barrels, dumpsters, or tanks; concrete truck wash water; polluted runoff from temporary or permanent storage areas; improper fire hydrant flushing; spills from auto accidents; power washing wastewater; industrial/commercial wastewater, dumping; and any other violation of the IDEP ordinance.
6 septic to public inspections performed.
Please list the status and schedule for elimination for any illicit discharges identified but not eliminated during this reporting period. Also, report the status of any illicit discharges identified but not eliminated during previous reporting periods.
None
Please describe actions taken when indications of illicit discharges have been identified, if any.
When discharges are found home owner is informed to correct-public sewer hook up.

Permittee: Georgetown Township

Please provide: ● An estimated quantification of the number of discharges eliminated, and ● An estimated quantification of the volume of illicit flow eliminated (*For large spills or, where the amount discharged is possible to estimate)*.
6 public sewer hook ups.
Identify any specific coordination with the health department in response to illicit discharge elimination for failed or failing septic fields.
See previous.
Describe the effectiveness of the program to prevent illicit discharges and the method used to assess effectiveness.
Works very well.

Permittee: Georgetown Township

PART 5 - New Point Source Discharges of Stormwater

Do you own or operate any NEW or previously unidentified stormwater discharges? ☐Yes ☒No If "yes," please indicate which discharge points are new on your outfall map or list.
Is your stormwater discharge point map attached or provided electronically? ☐ Map is attached ☐ Map is provided electronically ☒ Other. Please explain in comments section.
Is your stormwater discharge point list attached or provided electronically? ☐ List is attached ☐ List is provided electronically ☒ Other. Please explain in comments section.
Comments: Map and list were submitted to MDEQ as Appendix 2 in Illicit Discharge Elimination Plan revision, July 30, 2013.

Permittee: Georgetown Township

PART 6 - Nested Drainage System Agreements

Table 4 - LGRW Communities with Nested Drainage System Agreements

MS4 Permitted Community	Nested Drainage System
Georgetown Charter Township	Jenison Public Schools
Grandville, City of	Grandville Public Schools
Kentwood, City of	Kentwood Public Schools
Walker, City of	Kenowa Hills Public Schools

Please list all nested jurisdictions with whom you have a cooperative agreement:		
Name of Nested Jurisdiction	**Agreement previously provided to MDEQ**	**Agreement attached**
Jension Public Schools	☒Yes ☐No	☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No
	☐Yes ☐No	☐Yes ☐No
Comments:		

Permittee: Georgetown Township

PART 7 - Other Actions

Please list all nested jurisdictions with whom you have a cooperative agreement:		
Name of Nested Jurisdiction	**Agreement previously provided to MDEQ**	**Agreement attached**
Jension Public Schools	☒ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
Comments:		

Permittee: Georgetown Township

PART 8 - Revisions to the SWPPI

Based on your evaluation of the effectiveness of your stormwater BMPs, are there any commitments that should be added to or removed from the SWPPI?

☒ No, the SWPPI does not need any revisions

☐ The following revisions to the SWPPI could be considered:

Original SWPPI Section / Subsection	Revision

Additional Documentation

GVMC

GRAND VALLEY METROPOLITAN COUNCIL

ADA TOWNSHIP • ALGOMA TOWNSHIP • ALLENDALE TOWNSHIP • ALPINE TOWNSHIP • BELDING • BYRON TOWNSHIP • CALEDONIA TOWNSHIP • CANNON TOWNSHIP • CASCADE TOWNSHIP • CEDAR SPRINGS
COOPERSVILLE • COURTLAND TOWNSHIP • EAST GRAND RAPIDS • GAINES TOWNSHIP • GEORGETOWN TOWNSHIP • GRAND RAPIDS • GRAND RAPIDS TOWNSHIP • GRANDVILLE • GREENVILLE • HASTINGS
HUDSONVILLE • IONIA • JAMESTOWN TOWNSHIP • KENT COUNTY • KENTWOOD • LOWELL • LOWELL TOWNSHIP • MIDDLEVILLE • OTTAWA COUNTY • PLAINFIELD TOWNSHIP • ROCKFORD
SAND LAKE • TALLMADGE TOWNSHIP • WALKER • WAYLAND • WYOMING

July 11, 2014

Mr. Mike Hatkowski
Ice Center General Manager
Georgetown Charter Township
8500 48th Ave
P.O. Box 769
Hudsonville, MI 49426

Re: GVMC Authorization for NPDES Stormwater Regulation Submittals

Dear Mike:

Grand Valley Metropolitan Council is in the process of preparing progress reports for each of the NPDES Municipal Separate Storm Sewer System (MS4) permitted communities in the Lower Grand River Watershed. We look forward to continuing to work with Georgetown Charter Township as we begin the application process for individual permits this fall under Michigan Department of Environmental Quality (MDEQ)'s new requirements for the MS4 program. In order for GVMC to submit reports, applications and other relevant permit documentation on behalf of your community, MDEQ requires authorization from you to do so. Please sign in the space designated below to indicate your authorization.

If you have any questions regarding your progress report, the upcoming permit application or any other component of the MS4 program for the Lower Grand River Watershed, please do not hesitate to ask. My contact information is listed below. Thank you, in advance, for your prompt response and I look forward to working with you.

Sincerely,

B. Broadwater

Bonnie Broadwater
Stormwater Program Coordinator
Grand Valley Metropolitan Council
bonnie.broadwater@gvmc.org
(616) 776-7611

Authorized Community Representative:

Signature

Mike Hatkowski
Name (Please Print)

08-21-2014
Date