

Lower Grand River Watershed

City of East Grand Rapids Kent County, Michigan Progress Report

**Reporting Period
August 1, 2012, through July 31, 2013**

**Progress Report Due Date:
October 1, 2013**

Project No. G120878

Lower Grand River Watershed Progress Report

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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 |
| FTC&H | Fishbeck, Thompson, Carr & Huber, Inc. |
| 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 |
| MDNRE | Michigan Department of Natural Resources and Environment |
| MS4 | Municipal Separate Storm Sewer System |

Lower Grand River Watershed Progress Report

| | |
|--------|-------------------------------------------------|
| MSUE | Michigan State University Extension |
| NOAA | National Oceanic and Atmospheric Administration |
| NPS | Nonpoint Source |
| O&M | Operation and Maintenance |
| OCDC | Ottawa County Drain 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 | Ken Feldt |
| Title | Director of Public Works |
| Address | 950 Lakeside Drive, SE |
| City, State, Zip | East Grand Rapids, Michigan 49506 |
| Telephone (with area code) | (616) 940-4817 |
| Fax (with area code) | (616) 940-4884 |
| E-mail | kfeldt@eastgr.org |
| Stormwater Program Manager | |
| Name | Same as above |
| Title | |
| Address | |
| City, State, Zip | |
| Telephone (with area code) | |
| Fax (with area code) | |
| E-mail | |
| Stormwater Permit Fee Billing Address | |
| Name | Same as above |
| Title | |
| Address | |
| City, State, Zip | |
| Telephone (with area code) | |
| Fax (with area code) | |
| E-mail | |

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
- Ordinance & Strategy Committee
- Municipal Training Committee
- Data, Information, and Procedures (DIP) Committee

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

Table 2 - LGRW Committee Membership List as of July 31, 2013

| Community | Representative | Storm Water Education | Ordinance & Strategy | Municipal Training | Data, Information & Procedures |
|---------------------------------------|---------------------|-----------------------|----------------------|--------------------|--------------------------------|
| Allendale Charter Township | Mr. Jerry Alkema | X | | | |
| Cascade Charter Township | Mr. Ben | | X | | |
| Cascade Charter Township | Mr. Steve Peterson | X | | | |
| East Grand Rapids, City of | Mr. Brian Donovan | | X | | |
| East Grand Rapids, City of | Mr. Ken Feldt | | | | X |
| Ferrysburg, City of | Mr. Craig Bessinger | | | | X |
| Forest Hills Public Schools | Mr. Ron Boezwinkle | X | | | |
| Georgetown Charter Township | Mr. Mike Hatkowski | | | X | |
| Nested: Jenison Public Schools | Ms. Kim Hansen | X | | | |
| Grand Haven, City of | Mr. Bill Hunter | | | X | |
| Grand Haven, City of | Ms. Cheryl Davidson | X | | | |
| Grand Rapids Charter Township | Mr. Bob Versluys | | X | | |

| Community | Representative | Storm Water Education | Ordinance & Strategy | Municipal Training | Data, Information & Procedures |
|--------------------------------|-------------------------|------------------------------|---------------------------------|---------------------------|-------------------------------------------|
| Grand Rapids, City of | Mr. Chuck Schroeder | | | | Alt |
| Grand Rapids, City of | Mr. Mike Lunn | Alt | X | Alt | Alt |
| Grand Rapids, City of | Ms. Carrie Rivette | X | X | X | X |
| | | | | | |
| Grandville, City of | Mr. Ken Krombeen | | X | | |
| Grandville, City of | Mr. Ron Carr | X | | 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 | X | |
| KCDC | Ms. Angie Latvaitis | | | | X |
| KCDC | Ms. Lani Brown | X | | | |
| | | | | | |
| KCRC | Mr. Dave Beck | X | | | |
| KCRC | Mr. Dave Bennett | | | X | |
| KCRC | Mr. Wayne Harrell | | | | |
| | | | | | |
| Kent County Health Department* | Mr. Adam London | | | | 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 | | | |
| | | | | | |
| OCDC** | Mr. Joe Bush | | | | |
| OCDC** | Ms. Linda Brown | X | | | |
| | | | | | |
| OCRC** | Mr. Steve Van Hoven | | | | |
| | | | | | |
| Plainfield Charter Township | Mr. Rick Solle | | | X | |
| Plainfield Charter Township | Ms. Mary Trapp | X | | | |

| Community | Representative | Storm Water Education | Ordinance & Strategy | Municipal Training | Data, Information & Procedures |
|-------------------------|-----------------------|-----------------------|----------------------|--------------------|--------------------------------|
| | | | | | |
| Rockford, City of | Mr. Dennis Brinks | | | | |
| Rockford, City of | Mr. Mike Bouwkamp | X | | X | |
| Rockford, City of | Mr. Phil Vincent | | | | |
| | | | | | |
| Sparta, Village of | Mr. Martin Super | | | | |
| Sparta, Village of | Mr. Miles Ring | | | X | |
| | | | | | |
| Spring Lake, Village of | Ms. Chris Burns | X | | | |
| Spring Lake, Village of | Mr. Roger Belknap | | | X | |
| | | | | | |
| Walker, City of | Mr. Scott Conners | | | | |
| Walker, City of | Ms. Bonnie Broadwater | X | X | X | X |
| | | | | | |
| Wyoming, City of | Mr. Aaron Vis | X | X | | X |
| Wyoming, City of | Mr. Bill Dooley | | X | | |
| Wyoming, City of | Mr. Myron Erickson | | X | | |

Stormwater Education Committee

The Stormwater Education Committee met on September 20, 2012; November 28, 2012; February 27, 2013; and May 23, 2013 during the reporting period. The September and November 2012 meetings focused on an updated version of the Public Education Plan (PEP), a new slogan/logo, and brochure/give-a-way selections for distribution during this reporting period. The February and May meetings focused on development of activities and materials to implement the PEP.

The “Be Stormwater Savvy” slogan was changed to “Keep it Pure.” A new logo was chosen to be used on all of the brochures, articles, give-aways etc., used by permittees. The new logo is as shown.



The updated PEP, dated September 19, 2012, was submitted to MDEQ for review. Minor changes were recommended by MDEQ. The final PEP was submitted to MDEQ in December 2012. The MDEQ sent letters of approval to all communities in February 2013. A copy of the final PEP document and agendas and minutes from the meetings are available at the following site:

<http://www.ftch.com/lowergrandriverwatersheddocuments#PublicEducationPlan>

Ordinance & Strategy Committee

The Ordinance & Strategy Committee did not meet during the reporting period. Meetings will continue when new post-construction stormwater control requirements become established.

DIP Committee

The DIP Committee met on August 22, 2012; September 19, 2012; November 14, 2012; January 16, 2013; March 13, 2013; May 15, 2013 and July 17, 2013 during this reporting period. This is a joint committee with LGROW. Mr. John Koches, Annis Water Resources Institute (AWRI), is chairman of the committee. The meetings have focused on the Illicit Discharge Elimination Plan (IDEP) revisions prior to distribution to all watershed partners, including the prioritization of discharge points, dry weather screening procedures, and measures of effectiveness. Agendas and minutes from the meetings are available at the following site:

<http://www.ftch.com/lowergrandriverwatersheddocuments#IllicitDischargeEliminationPlanIDEP>

Municipal Training Committee

The Municipal Training Committee is planning to meet in the fall of 2013.

Training

Training Library

A lending library of training materials is housed at FTC&H 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 |

Book published by the Michigan Department of Natural Resources and Environment (MDNRE) and the National Oceanic and Atmospheric Administration (NOAA)

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

Campaign Tool Kit from the Center for Environmental Study (CES)

- Stormwater Savvy Resources (including resource CD) (67 Pages)
- A Guide to the Media Process (23 Pages)
- Getting In Step - A Guide for Conducting Watershed Outreach Campaigns (CD) (100 Pages)

Three [educational primer modules](#) on nonpoint source (NPS) pollution developed by the Great Lakes Commission and the U.S. Army Corps of Engineers.

- | | |
|------------------------------------------------------------------------|-----------|
| ● Nonpoint Source Pollution Issues in Urban/Suburban Communities (PPT) | 27 Slides |
| ● Nonpoint Source Pollution Issues in Rural Land Management (PPT) | 26 Slides |
| ● Nonpoint Source Pollution Issues in Forest and Inland Lakes (PPT) | 31 Slides |

“Tools for Tracking Human Fecal Pollution in Urban Storm Drains, Creeks, and Beaches” Brochure by City of Santa Barbara, 2012, 16 Pages, and “Source Tracking Protocol Development Project” Technical Report by City of Santa Barbara, 2011, 235 Pages. Also available in PDF.

“Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act” by EPA, 2009, 63 Pages. Also available in PDF.

“Nonpoint Source Pollution Issues in Urban/Suburban Communities” PowerPoint by Great Lakes Commission, 2012, 27 Pages. Also available in PDF.

“Nonpoint Source Pollution Issues in Forests and Inland Lakes” PowerPoint by Great Lakes Commission, 2012, 31 Pages. Also available in PDF.

“Nonpoint Source Pollution Issues in Rural Land Management” PowerPoint by Great Lakes Commission, 2012, 26 Pages. Also available in PDF.

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 8, 2012 | Georgetown Township |
| September 11, 2012 | City of Rockford |
| November 19, 2012 | City of Walker |
| May 29, 2013 | Allendale Charter Township |
| July 24, 2013 | City of Hudsonville |

FTC&H assisted the communities in preparing for the audits and in addressing any deficiencies identified by MDEQ.

PART 2A - SUMMARY OF MUNICIPAL COMMITMENTS

| LGRW Prioritized Objectives for Permittees from 2011 WMP | Commitment | Timeline | Measures of Effectiveness |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Encourage proper septic tank management. Encourage septage ordinance. | No commitment is necessary as the City does not have any septic tank systems within the corporate boundaries of the City. Also, the community is fully built out with only infill lots available for new home construction. These infill lots have city sewer service available. City Ordinance, Section 2.88(5), requires use of city sewer service for new home construction when within 100 feet of a city sewer. | N/A | N/A |
| Actions completed: | NA | | |
| Implement vegetative buffering practices and restore and protect the stream buffer and canopy. | Evaluate and/or adopt a riparian buffer ordinance. Enlarge and maintain riparian buffer zones along surface waters and sensitive areas within municipal owned properties. | January 1, 2014. Ongoing. | Results of evaluation or adoption of buffer ordinance Miles or feet of buffer assessed, and quantity of rain gardens or buffer strips established. |
| Actions completed: | An ordinance has been drafted and open to public comment at a hearing held on July 9, 2013. | January 1, 2014 | Results of comment period will be reported next year. |

| LGRW Prioritized Objectives for Permittees from 2011 WMP | Commitment | Timeline | Measures of Effectiveness |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Implement MDEQ wildlife population management practices. | Continue goose population controls pursuant to MDEQ permits. Install and maintain Signage – “Do Not Feed Waterfowl” at all public parks with stream and or water frontage. | Annually. Ongoing. | Number of goose eggs destroyed. Number of signs installed or inspected. |
| Actions completed: | Controlling goose populations | April 28, 2013 and May 8, 2013. | Destroyed 40 goose eggs. No signs installed during reporting period. |
| Implement sanitary sewer maintenance practices. | Televising all sanitary sewers within City’s sanitary service area. Prioritize repairs as needed based on available funding and potential for ex-filtration. | Jan. 1, 2014 As funds become available. | Feet of sewer televised and number of repairs identified and completed. |
| Actions completed: | Determined the need to replace 300 feet of sanitary sewer (Bellclaire Ave.), under contract for replacement. | Fall of 2013. | Televised 8,868 feet of sewer. Cleaned 59,338 feet of sewer. Replaced 360 feet of sanitary sewer (Bonnell Ave.) fall of 2012. |

| LGRW Prioritized Objectives for Permittees from 2011 WMP | Commitment | Timeline | Measures of Effectiveness |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Implement Low Impact Development practices | <p>Evaluate and or amend the City's storm water ordinance to require or encourage LID practices for single and two family residential developments, currently exempted from the ordinance.</p> <p>Continue low impact development practices for Municipal owned properties.</p> <p>Develop "How to" brochure for LID practices for publication available to homeowners.</p> | <p>Jan. 1, 2014.</p> <p>Ongoing</p> <p>Jan. 1, 2013</p> | <p>Number of LID practices installed.</p> <p>Number of LID practices installed.</p> <p>Number of brochures issued.</p> |
| Actions completed: | <p>Zoning regulations are being evaluated and have been reviewed by the City Planning Commission.</p> <p>No further action taken during the reporting period.</p> | January 1, 2014 | No practices installed this reporting period. |
| Implement watershed focused land-use planning. | Review and update City Master Plan to re-emphasize and focus the importance of Storm Water Management. | Jan. 1, 2014. | Status of review and actions taken. |
| Actions completed: | No action taken during reporting period. | n/a | n/a |
| Implement proper soil erosion and sedimentation control techniques. | <p>Facilitate and assist County SESC permitting agency with implementation and oversight of SESC requirements within City.</p> <p>Provide notice to permitting agency of all SESC program code violations.</p> | <p>Ongoing</p> <p>Ongoing</p> | <p>Number of sites reviewed and any actions taken.</p> <p>Number of violations reported.</p> |

| LGRW Prioritized Objectives for Permittees from 2011 WMP | Commitment | Timeline | Measures of Effectiveness |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actions completed: | Facilitating County is SESC enforcement. | Ongoing | Three permits were issued by the KCRC for the reporting year. No violations were noted or reported. |
| Implement channel and streambank stabilization, bio-engineering, and erosion control techniques. | Compliance with DEQ permit conditions for any work that occurs within a stream or along a lake frontage. | Ongoing. | Number of projects with permits. |
| Actions completed: | No permits issued within reporting period. | n/a | n/a |
| Implement turf management and proper fertilizer application practices. | <p>Continue turf management procedures for Municipal controlled properties.</p> <p>Continue publication of BMP(s) for turf management and the application of fertilizers, pesticides and herbicides pursuant to state law via the City's Lawn Care Provider Licensing Ordinance.</p> <p>Continue curb side collection and disposal of yard waste materials as a city services to residents.</p> | <p>Ongoing.</p> <p>Annually.</p> <p>Seasonally.</p> | <p>Inspect properties randomly to verify proper turf management techniques are being followed.</p> <p>Number of licenses issued with publications provided.</p> <p>Number of residents utilizing the service and volume of waste collected and disposed of.</p> |

| LGRW Prioritized Objectives for Permittees from 2011 WMP | Commitment | Timeline | Measures of Effectiveness |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actions completed: | Provided training and direction to lawn care services contractor for Municipal properties. | <p>Ongoing</p> <p>Spring</p> <p>Ongoing</p> | <p>Inspection of city owned properties is routine but not recorded.</p> <p>30 lawn care contractor licenses issued for the reporting year. All were provided “What Every Landscaper Must Know About Storm Water” and “Help Protect and Preserve Water Quality-USE- Phosphorus Free Fertilizer” brochures.</p> <p>Approximately 3900 households in the City received yard waste collection services during the reporting year. 9,480 cu.yds. of yard waste was collected and disposed of during the reporting period.</p> |

PART 2B - STORMWATER CONTROLS INSPECTION, MAINTENANCE AND EFFECTIVENESS

| Property Name: Municipal Parking Lot @ 659 Croswell Ave. | | | | |
|-----------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | Annually | 5 year cycle Clean sumps (Public Works Complex) | CB sumps were not cleaned during the reporting period. | |
| | | | | |
| Property Name: EGR Community Center @ 750 Lakeside Drive | | | | |
| 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 | Annually | 5 year cycle. Clean sumps (Public Works Complex) | CB sumps were not cleaned during the reporting period. | |
| Storm Sewer Separator | Annually | Annually or as needed. Clean chamber (Public Works Complex) | Separator was not cleaned during the reporting period. | |
| | | | | |
| Property Name: Water Tower Property @1745 Woodlawn Ave. | | | | |
| Structural Storm Water Control | Inspection Frequency | Maintenance Schedule | Inspection and Maintenance Conducted and Location of Log (if applicable) | Effectiveness of Control and Support Documentation |
| Grassy swale | Annually | Annually or as needed. Clean swale of debris and maintain turf. (Public Works Complex G.M.) | Swale was mowed regularly during the reporting period. | The grassy swale filters storm water and prevents silts and debris from the entering the storm water sewer system. This provides an effective means of storm water treatment for the site. |
| | | | | |
| Property Name: Manhattan Park @ 430 Manhattan Rd. | | | | |
| Structural | Inspection | Maintenance | Inspection and | Effectiveness of Control |

| Storm Water Control | Frequency | Schedule | Maintenance Conducted and Location of Log (if applicable) | and Support Documentation |
|----------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catch Basin sumps | Annually | 5 year cycle. Clean sumps (Public Works Complex) | CB sumps were not cleaned during the reporting period. | |
| Grassy swales | Annually | Annually or as needed. Clean swale of debris and maintain turf. (Public Works Complex-G.M.) | Swales are cleaned annually of all debris. Most remain un-mowed and left in a natural state providing excellent runoff filtration. | The grassy swales filters storm water and prevent silts and debris from the site from entering the storm sewer system. This provides an effective means of storm water treatment for the site. |
| | | | | |
| Property Name: John Collins Park @650 Lakeside Dr. | | | | |
| Structural Storm Water Control | Inspection Frequency | Maintenance Schedule | Inspection and Maintenance Conducted and Location of Log (if applicable) | Effectiveness of Control and Support Documentation |
| Rain Garden | Annually | Annually or as needed. Clean garden of debris and maintain garden plants (Public Works Complex-G.M.) | Rain garden is cleaned of debris on a routine basis. | The rain garden filters park land runoff and helps protect the shore line from erosion. Both provide an effective means of maintaining water quality along the lakeshore of the park. |
| | | | | |
| Property Name: Waterfront Park@2206 Reeds Lake Blvd. | | | | |
| Structural Storm Water Control | Inspection Frequency | Maintenance Schedule | Inspection and Maintenance Conducted and Location of Log (if applicable) | Effectiveness of Control and Support Documentation |
| Vegetative Buffer Strips along shore line. | Annually | Annually or as needed. Clean Buffer and maintain vegetation (Public Works Complex-G.M.) | Vegetative buffer strips are cleaned of debris routinely. | The vegetative buffer strips filter storm water and prevents silts and debris from the Park from entering the Lake. Located along the shoreline, they also help prevent shoreline erosion. |
| | | | | |
| Property Name: Public Works Complex/Remington Park @2310 Reeds Lake Blvd. | | | | |

| 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 | Annually | Annually or as needed. Clean sumps (Public Works Complex) | CB sumps were not cleaned during the reporting period. | |
| Grassy swale and vegetative buffer strip | Annually | Annually or as needed. Clean and maintain turf, vegetation (Public Works Complex-G.M.) | The natural vegetative buffer strips are cleaned of debris routinely. | The vegetative buffer strips filter runoff from the Public works facility parking area providing filtering/treatment of storm water runoff. |
| | | | | |
| Property Name: City Streets | | | | |
| 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 | 5 year cycle | 5 year cycle or as needed. Clean sumps (Public Works Complex) | All CB in the Friday route were cleaned during the reporting period. | 247 catch basins were cleaned during the reporting period. 16 of these were found full of sediment or approximately 6%. This low percentage reveals the effectiveness of this cleaning operation and frequency. Routine cleaning of storm sewer catch basin sumps prevent sediments from continuing into the storm sewer system and ultimately into the natural waters of the State. This provides a high degree of storm water treatment for the public roadway system. |
| Storm Sewer Separator | Annually | Annually or as needed. Clean Chamber (Public Works Complex) | Separator was not cleaned during the reporting period. | |

| | | | | |
|--------------------|--------------|--------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storm sewer system | 5 year cycle | 5 year cycle. Clean sewer lines (Public Works Complex) | Cleansed 27,147 feet of storm sewer during the reporting period (Friday route). | Cleaning storm sewers removes any residual of debris and sediment from the system before ultimately entering the public waters of the state. This cleaning is an effective means of storm water treatment as it further catches sediments and debris for the public street system after entering the storm sewer system. |
| | | | | |

PART 2C - PROCEDURES STATUS

The following Pollution Prevention and Good Housekeeping procedures were adopted by City of East Grand Rapids. Dates of revised procedures are listed and revisions attached.

| Procedure | Date Adopted | Date Revised (if needed) |
|-------------------------------------------------------------------------------------------|---------------------|-------------------------------------|
| Procedure to Ensure Protection of Drainage Systems from Construction-Site Runoff | August 16, 2010 | N/A |
| Procedure to Dispose of Storm Sewer System Operation and Maintenance Waste | August 16, 2010 | N/A |
| Procedures to Construct, Operate, and Maintain Streets, Roads, Highways, and Parking Lots | August 16, 2010 | N/A |
| Procedure to Reduce Runoff of Total Suspended Solids (TSS) | August 16, 2010 | N/A |
| Procedure to Prevent Salt and Sand from Entering Receiving Streams | August 16, 2010 | N/A |
| Procedure to Control Dust and TSS in Runoff | August 16, 2010 | N/A |
| Procedure for Managing Vegetation on Municipal Properties | August 16, 2010 | N/A |
| Procedure for Using Fertilizers on Municipal Properties | August 16, 2010 | N/A |
| | | |

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

| Training Topic Area | Employee Group to Receive Training | Training Frequency | Potential Training Type |
|---------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required Topics | | | |
| Maintenance activities, maintenance schedules, and inspection procedures | Public Works Staff Ground Maintenance Staff | Once every two years and for all new hires. | 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: | | | None completed during reporting period. |
| Controls on streets, parking lots, maintenance garages, and storage yards | Public Works Staff | Once every two years and for all new hires. | Storm Watch - Municipal Storm Water Pollution Prevention - DVD from Excal Visual, LLC Spills & Skills - Non-Emergency HazMat Spill Response - DVD from Excal Visual, LLC Keep An Eye On It! - Environmental Awareness for Gravel Road Maintenance - DVD from SEMCOG & Road Commission for Oakland County |
| Training completed: | Public Works Staff | September 12, 2012. | Attended half day seminar on stormwater management and Forestry implications. |
| Disposal of O&M waste | Public Works Staff Building and Grounds Staff | Once every two years and for all new hires. | Regulatory Requirements for Waste Disposal – Live Presentation |
| Training completed: | | | None completed during reporting period. |

| Training Topic Area | Employee Group to Receive Training | Training Frequency | Potential Training Type |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water quality protection in flood control projects (detention basins, dams) | Public Works Engineering staff | Once every two years and for all new hires. | |
| Training completed: | | | None completed during reporting period. |
| Controls to reduce discharge of pesticides, herbicides, and fertilizers | Grounds Maintenance Staff Licensed Yard Maintenance Contractors | Annually | LGRW_LandscapingContractorTrainingBrochure_2011-08-01.pub |
| Training completed: | Contractors, Licensees. | Spring 2013 | "Landscaping Contractor Brochure" issued to all licensees. |
| Other Topics | | | |
| Construction site stormwater runoff | Public Works Engineering Staff Contractors utilized for City Projects. | Annually | Ground Control - Storm Water Pollution Prevention for Construction Sites - DVD from Excal Visual, LLC LGRW_ContractorTrainingBrochure_2011-09-16.pub |
| Training completed: | | | None completed during reporting period. |
| LID | Public Works Engineering Staff | Once every two years and all new hires. | 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: | Public Works Engineering Staff | December 18, 2012. | Attended afternoon seminar on "Green Infrastructure and Stormwater Retrofits. |

| Training Topic Area | Employee Group to Receive Training | Training Frequency | Potential Training Type |
|-------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|
| IDEP | Public Works Staff Building and Grounds Staff. | Once every two years and all new hires. | WaterPollutionReportForm.doc Article_City_Employees.doc |
| Training completed: | Engineering staff | May 16, 2013 | Attended IDEP training at FTCH. |
| General Storm Water Education | Municipal officials Public Works Staff Building and Grounds Staff | Once every two years and all new hires and elected officials. | “Back to Basics” Storm Water Training – Live Presentations |
| Training completed: | Public Works Staff | June 27, 2013. | Attended General MS4 meeting in Walker. |

PART 2E - POST CONSTRUCTION CONTROLS ACTIVITIES

The City of East Grand Rapids has a Storm Water Ordinance, Chapter 28 of the City Code, adopted on January 7, 2002 and amendments on September 30, 2005, that controls storm water 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 City of East Grand has adopted a Master Plan for long term re-development guidance that establishes and preserves the City's natural features as well as endorses the City's Storm Water Pollution Prevention Initiative. As a fully build out community, the Master Plan provides the guidance necessary for re-development activities.

The City of East Grand Rapids has a Zoning Ordinance which requires all new development or redevelopments to be reviewed to insure compliance with state and federal regulations, the City's Storm water regulations and may include an approval of an acceptable environmental impact assessment. The City is also underway to rewrite and update the City's Zoning Ordinances which will include consideration of Low Impact Development practices and riparian buffer zone protection requirements. The City currently promotes these activities through demonstration projects and public facility improvement projects. As a fully built out community, existing open spaces, including environmentally sensitive areas are currently preserved through ownership by the City pursuant to the City's Master Plan.

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

No developments or redevelopments have been completed during the reporting period. One project previously approved (Bagley Townhomes) development is nearing completion and will be inspected during the fall of 2013. One proposed development submitted for review was abandoned after storm water management requirements were considered (Lovett townhome project). Existing storm water controls in place from previous developments/redevelopments have not been inspected during the reporting period.

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

No developments or redevelopments have been approved during the reporting period. Previously approved developments/redevelopments include 10 locations encompassing 3 public school expansion projects, 4 residential developments, a hospital expansion, a commercial redevelopment and a community center redevelopment since the adoption of the City's Storm Water Regulations.

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

Operation and Maintenance responsibilities have been established in recorded easement agreements, Planned Unit Development ordinances and Site Condominium Master Deeds.

How many inspections or enforcement/compliance of O&M agreements were conducted?

No inspections or enforcement/compliance of established private property storm water controls have been performed during the reporting year.

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 Post Construction Controls in place for the fully built out community of the City of East Grand Rapids is providing storm water detention and structural controls to reduce sedimentation from reaching the receiving waters of the Community.

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, 2011, and July 31, 2013.

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 2012/2013 committee consists of the following participants:

- Mr. Jerry Alkema - Allendale Charter Township
- Mr. Steve Peterson - Cascade Charter Township
- Mr. Ron Boezwinkle – Forest Hills Public Schools
- Ms. Kim Hansen - Jenison Public Schools
- Ms. Cheryl Davidson - City of Grand Haven
- Ms. Carrie Rivette - City of Grand Rapids
- Mr. Ron Carr – City of Grandville
- Ms. Amber Eckert-Howe – City of Hudsonville
- Ms. Lani Brown - Kent County Drain Commissioner's Office (KCDC)
- Mr. Dave Beck - Kent County Road Commission (KCRC)
- Ms. Kristen Wieland - Kent County Resource Recovery
- Mr. John Gorney - City of Kentwood
- Ms. Amanda St. Amour - MDEQ
- Ms. Dana Strouse – MDEQ
- Ms. Linda Brown - Ottawa County Drain Commissioner's Office (OCDC)
- Ms. Mary Trapp - Plainfield Township
- Mr. Mike Bouwkamp - City of Rockford
- Ms. Chris Burns - Village of Spring Lake
- Ms. Bonnie Broadwater - City of Walker
- Ms. Angie Latvaitis - KCDC
- Ms. Elaine Sterrett-Isely - WMEAC
- Ms. Becky Huttenga - Ottawa Conservation District
- Mr. Aaron Vis - City of Wyoming
- Ms. E. Wendy Ogilvie - FTC&H

- Ms. Laurie Beth Nederveld - FTC&H
- Mr. Kevin Lignell - Grand Valley Metropolitan Council (GVMC)

B. PEP IMPLEMENTATION IN YEAR 10

This section describes the public education activities implemented by the Permittees in the tenth year of PEP implementation, August 1, 2012, and July 31, 2013. 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 LGRW's website, www.lowergrandriver.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.
- Permittees distributed 1075 *Water Cycle* coloring books to residents in the LGRW.
- Permittees displayed their lamppost banners purchased in 2012 to advertise the presence of the Grand 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:

- Fourteen Permittees ordered a total of 268 storm drain markers from East Jordan Iron Works. Markers advertise the message “Dump No Waste. Drains to Waterway” or “Dump No Waste. Drains to Lake.” Permittees installed these markers near catch basins to discourage illicit dumping.

Public Education Topic 3 - Public Reporting of Illicit Discharges

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 reporting sheet, developed in 2005, was used by the Permittees to track resident calls concerning illicit discharges and connections.
- 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.

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.
- Permittees distributed the newsletter article “*What is a Rain Garden?*” to their residents via their webpage or community newsletter. This article discusses the benefits of rain gardens and how you can plant one.
- Permittees distributed 1,075 copies of *Go Green Lawn Care Tips* card, developed by Michigan State University Extension (MSUE), to their residents. These cards provide tips on weed and insect control and give recommendations on when to fertilize and the types of fertilizers to use on your lawn.
- 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 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 distributed 1,075 copies of *Landscaping for Water Quality: Garden Designs for Homeowners*, 3rd Edition, developed by The Center for Environmental Study, brochure to their residents. This brochure encourages residents to landscape their yards to improve water quality, along with instructions on how to do layout/plan for a rain garden and what native plantings to use.

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:

- Permittees distributed 1,155 copies of their county's household hazardous waste guide or flyer.
- Permittees distributed the newsletter article "*Guide To Household Hazardous Waste Disposal*" to their residents via their webpage or community newsletter. This article defines household hazardous water and lists common wastes, along with providing information on where to dispose of these wastes.
- 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 distributed 1,075 copies of 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.

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 916 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.
- Permittees distributed 916 copies of *Do Your Part - Be Septic Smart* brochure, developed by EPA, to their residents. The brochure gives tips on how to determine if you have a septic system, how to

maintain a septic system, and how to tell if it is working properly. It strongly encourages residents to protect their home and family by properly caring for, and maintaining, their septic system.

- Permittees distributed the newsletter article *“Maintaining Your Septic System”* to their residents via their webpage or community newsletter. This article encourages residents to regularly pump their septic tanks and to stay away from additives.

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 1,075 copies of *Go Green Lawn Care Tips* card, developed by Michigan State University Extension (MSUE), to their residents. These cards provide tips on weed and insect control and give recommendations on when to fertilize and the types of fertilizers to use on your lawn.
- Permittees distributed 1,075 copies of *Landscaping for Water Quality: Garden Designs for Homeowners*, 3rd Edition, developed by The Center for Environmental Study, brochure to their residents. This brochure encourages residents to landscape their yards to improve water quality, along with instructions on how to do layout/plan for a rain garden and what native plantings to use.
- Permittees distributed the newsletter article *“What is a Rain Garden?”* to their residents via their webpage or community newsletter. This article tells about the benefits of rain gardens and how to plan them.

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 1,075 copies of 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.
- 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.

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 covering native vegetation/rain garden/riparian buffers, proper use of pesticides/fertilizers/herbicides and household hazardous waste management.

2013 Stormwater Public Education Plan (PEP) Questionnaire

Reporting Period of August 1, 2012, to July 31, 2013

Please complete this questionnaire to provide an evaluation of the stormwater education activities you have implemented between **August 1, 2012, and July 31, 2013**. FTC&H will include this information, along with watershed-wide measures of effectiveness, in your 2013 Progress Report.

Please return this form to FTC&H by August 16, 2013.

Community Name: City of East Grand Rapids

Brochures, Flyers, and Give-a-ways (distributed to Permittees in March 2013)

1. What percentage of brochures, flyers, and give-a-ways have been distributed?

- "West Michigan Take Back Meds" brochure 0% 25% 50% 75% 100% distributed
- Household Hazardous Waste guidebook/flyer 0% 25% 50% 75% 100% distributed
- "A Homeowner's Guide to Septic System" brochure 0% 25% 50% 75% 100% distributed
- "Do Your Part – Be Septic Smart" brochure 0% 25% 50% 75% 100% distributed
- "The Solution to Stormwater Pollution" brochure 0% 25% 50% 75% 100% distributed
- "Catch A Ride On The Water Cycle" coloring book 0% 25% 50% 75% 100% distributed
- "Go Green Lawn Care Tips" flyer 0% 25% 50% 75% 100% distributed
- Fish Post-it Note give-a-ways 0% 25% 50% 75% 100% distributed
- Window decal give-a-ways 0% 25% 50% 75% 100% distributed
- CES's "Landscaping for Water Quality: Garden Designs for Homeowners" brochure 0% 25% 50% 75% 100% distributed

"Information was not placed out for distribution until after August 1, 2013. Included with display at Public Facility beginning August 23, 2013. Will be reported on next year."

2. Where did you distribute your brochures, flyers, and give-a-ways?

- Government office Library Community event Other Not Applicable

3. Describe any interest, comments, or discussion generated from the brochures, flyers, and give-a-ways Not Applicable.

4. 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.ftch.com/lowergrandriverwatersheddocuments)

5. How many "Citizens Reporting Brochures" were customized and distributed to your residents? 30

Please describe any interest, comments, or discussion generated from the brochure None

How many complaints were received from the general public regarding illicit discharges? None

Lamppost Banners

6. Did you display your lamppost banners provided to you in 2009, 2011, 2012, or 2013?

- Yes, at Lakeside Drive during Summer and Fall 2012 . Please describe any public feedback generated None
- No, but we will display our banners at _____ (streets) on _____ (dates)
- We did not order lamppost banners in 2009, 2011, 2012, or 2013

Newsletter Articles (available at www.ftch.com/lowergrandriverwatersheddocuments)

7. Did you distribute these newsletter articles to your residents?

- “How You Can Help Reduce Pollution Entering the Grand River?” article Yes, on _____ (date);
 No, but we will on October 4, 2013; No
- “How You as an Employee Can Help Reduce Pollution Entering the Grand River?” article Yes, on _____ (date);
 No, but we will on September 20, 2013 ; No
- “Maintaining Your Septic System” article Yes, on _____ (date);
 No, but we will on _____ (date); No
- “New Michigan Law Restricts Phosphorus Fertilizers” article Yes, on _____ (date);
 No, but we will on September 6, 2013; No
- “What is a Rain Garden?” article Yes, on _____ (date);
 No, but we will on October 18, 2013; No
- “Guide to Household Waste Disposal” article Yes, on _____ (date);
 No, but we will on November 1, 2013; No

Additional articles published include:

- Proper disposal of prescription drugs March 15, 2013
- Proper disposal of pet waste June 7, 2013

8. Please describe any interest, comments, or discussion generated from the articles Not Applicable.

9. If applicable, list the newsletter name or webpage address used to distribute the articles East Express E-Newsletter@ www.eastgr.org.

10. If applicable, how many residents received your community newsletter? 450

11. If applicable, how many total website hits did you receive for your online newsletter articles? Not Available

Website

12. Is there a web link to www.lowergrandriver.org on your community’s website?

- Yes, please describe any interest, comments, or discussion generated from the website _____
- No, but we have a web link to Grand Valley Metro Council
- No

13. If you have developed your own stormwater webpage, please list the web address _____

Stormwater Poster Board and EnviroScope

14. Did you set up your stormwater poster board display?

- Yes, throughout the year at the East Grand Rapids Community Center.
Please describe any feedback generated None

- No, but we will set up our display on _____ (dates) at _____ (location)
 No

15. 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

16. Did you implement a storm drain awareness activity between August 1, 2012, and July 31, 2013?
 Yes, we installed _____ (no.) storm drain markers on _____ (streets) on _____ (dates)
 Yes, we held a storm drain stenciling event on _____ (dates) and stenciled _____ (streets)
 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, but we plan to install storm drain markers on or before Sept 1, 2013 as well as inventory all markers currently in place.

17. Please describe any interest, comments, or discussion generated from the activities above None

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

Car Wash Letters (A letter template is available at www.ftch.com/lowergrandriverwatersheddocuments)

19. Did you mail any letters on environmentally-friendly car wash fundraisers to schools/charities?
 Yes, we sent letters to _____ (schools/charities). Please describe any feedback generated _____
 No, but we will send letters to _____ (schools/charities) on _____ (date)
 No

Additional Efforts

20. Did you participate in a community stormwater workshop?
 Yes, workshop held on following date _____. Please insert name of workshop _____. Number of people that attended _____. Please describe any feedback generated or follow-up needed _____
 No, but we would like to next year.
 No

21. If applicable, please describe any other stormwater public education activities your community implemented beyond the requirements described above. (Submit any relevant documentation.) Conducted a public open house for lake and water front owners to discuss pending regulations for a water front buffer ordinance. Included was a landscape expert who explained how to reestablish natural shorelines and associated plantings. The "Natural Shorelines for Inland Lakes" publication available from the MDEQ was mailed to all water front property owners in the City.

PART 4 - IDEP

Regional IDEP Activities

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.

The DIP Committee worked with MDEQ on IDEP revisions throughout the reporting period and submitted the final draft for review and approval on July 31, 2013.

Please describe any dry-weather screening conducted during the reporting period and the findings of that screening.

Screening is currently being conducted. Results will be submitted to MDEQ when completed.

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.

No illicit discharges were reported during the reporting period.

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.

None

Please provide:

- An estimated quantification of the number of discharges eliminated, and
- An estimated quantification of the volume of illicit flow eliminated.

None.

Describe the effectiveness of the program to prevent illicit discharges and the method used to assess effectiveness.

Since no reported illicit discharges were reported during the reporting period, measures of effectiveness cannot be assessed.

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.

PART 6 - Nested Drainage System Agreements

| Please list all nested jurisdictions with whom you have a cooperative agreement: | | |
|----------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Name of Nested Jurisdiction | Agreement previously provided to MDEQ | Agreement attached |
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: None | | |

PART 7 - Other Actions

Please list any extra efforts your community has conducted above and beyond your commitments recorded above (e.g., stream buffer ordinance adoption, new management techniques, invasive species control, habitat enhancement/protection, logjam removal, stream/beach clean-ups, etc.) that have helped implement the **Lower Grand River Watershed Management Plan**:

The City completed a water quality and monitoring analysis of Reeds Lake during 2012. This analysis is completed approximately every two years. The city is currently reviewing this data to determine any trends in the lake quality which will provide measures of effectiveness of the City's SWPPI, PEP and IDEP. This will be reported on next year.

Please list any other actions your community has conducted to reduce stormwater pollution

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 |
|--------------------------------------|----------|
| | |