



## Phase II Municipalities PEP Reporting

On behalf of:

Burton  
Davison Twp.  
Flint Twp.  
Genesee County  
Mt. Morris  
Vienna Twp.

Clio  
Fenton  
Flushing  
Grand Blanc  
Mt Morris Twp.

Davison  
Fenton Twp.  
Genesee Twp.  
Linden  
Swartz Creek

***March 1, 2020 – March 1, 2021  
Reporting Period***

***Prepared by:***

***The Genesee County Drain Commissioner SWM  
On behalf of Genesee County and contracted Communities***

This report summarizes activities completed for the period from March 1, 2020 to March 1 2021, by the Genesee County Drain Commissioner's Office and the contracted Phase II Municipalities to meet the requirements of their National Pollutant Discharge Elimination System (NPDES) permit. This report is broken into sections to coincide with the MI Waters website.

- PPP
- **PEP- Public Education Activities**
- IDEP
- General Permit Requirements

## **Permit Requirements**

- **A. (topic 1 in progress report)**Promote public responsibility and stewardship in the applicant's watershed(s).
- **B. (topic 2 in progress report)**Inform and educate the public about the connection of the MS4 to area waterbodies and the potential impacts discharges could have on surface waters of the state.
- **C. (topic 3 in progress report)**Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.
- **D. (topic 4 in progress report)**Promote preferred cleaning materials and procedures for car, pavement, and power washing.
- **E. (topic 5 in progress report)**Inform and educate the public on proper application and disposal of pesticides, herbicides, and fertilizers.
- **F. (topic 6 in progress report)**Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter into the MS4.
- **G. (topic 7 in progress report)**Identify and promote the availability, location, and requirements of facilities for collection or disposal of household hazardous wastes, travel trailer sanitary wastes, chemicals, and motor vehicle fluids.
- **H. (topic 8 in progress report)**Inform and educate the public on proper septic system care and maintenance, and how to recognize system failure.
- **I. (topic 9 in progress report)** Educate the public on, and promote the benefits of, green infrastructure and Low Impact Development.
- **J.** Promote methods for managing riparian lands to protect water quality.
- **K. (topic 10 in progress report)**Identify and educate commercial, industrial, and institutional entities likely to contribute pollutants to stormwater runoff.

## **Partnerships**

**Flint River Watershed Coalition:** On behalf of the of the Phase II permittees, the Flint River Watershed Coalition (FRWC) was contracted by the GCDC to provide several services, including:

- *Speaker Materials and Presentations:* PowerPoint presentations on storm water education for adult audiences such as municipal officials, rotary clubs, neighborhood associations, lake associations, etc.
- Hosting *canoe trips* on the Flint River described in the Activities Update.
- *Global Rivers Environmental Education Network (GREEN):* described in the Activities Update. *NOTE although this program is part of Monitoring and Mapping, there are education components to it.*
- *Macroinvertebrate Monitoring Program:* described in the Activities Update. *NOTE although this program is part of Monitoring and Mapping, there are education components to it.*
- The FRWC was involved in the *Storm Drain Stenciling* program described in the Activities Update.

**Keeper of the Shiawassee:** On behalf of the of the Phase II permittees, the Keepers of the Shiawassee (Keepers) was contracted by the GCDC to provide Benthic monitoring:

- *Macroinvertebrate Monitoring Program:* described in the Activities Update. *NOTE although this program is part of Monitoring and Mapping, there are education components to it.*

**Genesee Conservation District:** On behalf of the of the Phase II permittees, the GCD was contracted by the GCDC to provide several services, including:

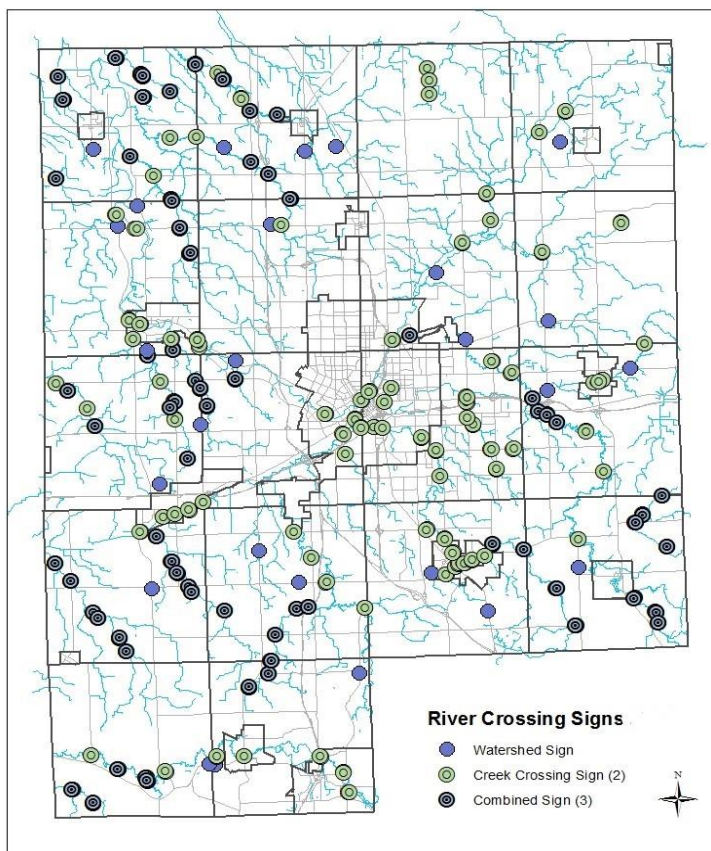
- The GCD was involved in the *Storm Drain Stenciling* program described in the Activities Update.

- Operate and staff the “Our Water” Information *Display booth* at the County Fair and other events described in the Activities Update.
- The GCD continues to *educate children* on storm water issues using the Enviroscape and craft projects that reinforce storm water messages as described in the Activities Update.
- *Facilitate and staff display booth at public events:* GCD schedules the display booth. Provide staff or training for volunteers.

## Reporting Period update of implementation of Table 2

### Road and Stream Crossings and Watershed Signs (Topics 1 & 2 in progress report)

- Signage installation target was 200 sites with more than 400 signs. There is 216 sites with 409 signs.
- In this reporting period, 2 additional signs were placed at 1 location at a lake in Flint Township (included in above numbers).
- Our water Program works with Road Commission to maintain signs. In this reporting period, 4 signs had maintenance.
- Signage increases public awareness.
- Private organizations have been placing adopt a river signs along the Shiawassee



## Watershed Maps: (Topics 1 thru 6 in progress report)

- Series of 8 posters
- For school education
- Distributed in previous reporting cycles
- Available electronically at <http://www.cleargeneseewater.org/teachers.html> or hard copy on request
- Below are examples of #1, #2 & #4

### Oceans, Lakes and Rivers Are Connected

A watershed is the area of land that drains water into a particular river, lake or even ocean. Everything we do on the land affects "Our Water." When rain falls to the ground, it travels over top of land or underground into lakes, rivers, streams and creeks.

This is the Saginaw Bay Watershed. The Saginaw Bay Watershed is made up of many smaller watersheds. Can you find the Flint River? The Flint River Watershed is one of the smaller watersheds that, together with other watersheds, like the Cass River or Shiawassee River Watersheds, help form the Saginaw Bay Watershed. The Flint River Watershed is part of the Saginaw Bay Watershed, which is part of the larger Lake Huron Watershed.

The Flint River Watershed covers most of Genesee County. There are two other major watersheds in Genesee County: the Shiawassee River Watershed and the Cass River Watershed. Can you find the Shiawassee River Watershed at the Southwest corner of Genesee County and the Cass River Watershed in the North?

Watersheds fit together like little bowls inside of bigger ones. The Flint River drains into the Saginaw River and the Saginaw River drains into the Saginaw Bay. Therefore, the Flint River is part of the Saginaw Bay Watershed. Saginaw Bay is part of the Lake Huron. Lake Huron drains to Lake Erie, then to Lake Ontario, then through the St. Lawrence River and finally all the way to the Atlantic Ocean! Now that you know how water travels from Genesee County to the Atlantic Ocean, can you trace the path on this map?

Let's make one thing **Perfectly Clear**.  
our water  
Genesee County Water Quality Division  
www.cleargeneseewater.org

### How you can help keep our water clean

There are seven simple steps to clean water. How many of these seven simple steps did you do this week?

- 1. Practice good car care.**  
Have you ever noticed a rainbow colored puddle on a parking lot or the street? The rainbow colors that you see are caused by petroleum products like oil and gas. Car oil does not mix with water; it sits on top of water. Cars leak oil when they are broken. A single drop of oil can pollute many gallons of water! To keep our water clean, keep cars fixed.
- 2. Fertilize sparingly & carefully.**  
Storm drains found in streets and yards go into our lakes and streams. So, when we fertilize our lawn we could also be fertilizing our lakes and streams. Fertilizer is good for our lawn, but it is bad for our water.
- 3. Clean up after your pet.**  
Did you know that pet waste has bad bacteria in it that can make animals and humans sick? To keep our water clean, pick up the waste from your pets and put it in the trash.
- 4. Save water.**  
When we put too much water on our yards, the extra water carries pollution into storm drains that lead to our rivers and lakes.
- 5. Choose earth-friendly landscaping.**  
The chemicals we put on our lawns and gardens to kill weeds can pollute our lakes and rivers if washed into storm drains.
- 6. Carefully store & dispose of household cleaners, chemicals, & oil.**  
Did you know that many household cleaners and chemicals can be dangerous to us, our pets, and the environment if they are not thrown away properly? These materials pollute our waterways if washed or dumped into storm drains.
- 7. Keep pollution out of storm drains.**  
Storm drains and roadside ditches lead to our lakes and streams. So, any oil, pet waste, leaves or dirty water from washing your car that enters a storm drain will get into our lakes and streams.  
*The car oil I spill on the parking lot and the napkin I drop in the street are not a lot. When added to everyone else's spills and litter, it adds up to create a big problem!*

Let's make one thing **Perfectly Clear**.  
our water  
Genesee County Water Quality Division  
www.cleargeneseewater.org

Remember, storm drains lead to our lakes and rivers!

### In What Sub-Watershed Is Your School Located?

This map shows your school. Can you find it? Are there any nearby rivers, streams or creeks?

In what sub-watershed is your school located?

As townships, towns and cities grow, more roads and parking lots have to be built. However, when it rains or snows, pavement does not soak up water. Do you see any paved parking lots or roads outside your school?

Unfortunately, as clean rain or snow melt (also called storm water) flows over pavement or the ground, it picks up and carries with it pollution like dirt, litter, oil, leaves and animal waste into storm drains. Where does storm water go after it flows into a storm drain?

The storm water that enters storm drains flows directly to our lakes, rivers and streams, carrying all the pollution it has picked up along the way. Common pollutants that wash into our lakes, rivers and streams in storm water include:

- Car fluids such as motor oil or gas
- Chemicals used to kill weeds or fertilizers to grow lawns and gardens
- Pet wastes
- Litter
- Soil from bare ground where vegetation has been removed or killed

When polluted storm water enters our lakes and rivers, it can cause many problems:

- The plants and animals that live nearby may become sick.
- The humans who drink the water or use it for swimming may become sick.
- The humans who live next to water may notice a bad odor or excessive growth of algae.
- The humans or animals that eat the fish from that polluted water might get sick.

Let's make one thing **Perfectly Clear**.  
our water  
Genesee County Water Quality Division  
www.cleargeneseewater.org

This is why we need to work together and follow the seven simple steps to keep our water clean!

## Benthic Monitoring Program (Topics 1 & 2 in progress report)

- Bi-annual testing is performed by volunteers
- FRWC provides coordination and training
- Testing is done at 30 sites throughout the Flint Watershed (16 within Genesee County)
- 2 sites were added for the Shiawassee River located within Genesee County and are done by Keepers of the Shiawassee. Data collected will be used with other information to provide an assessment of water quality
- Project GREEN also introduces Benthic monitoring to the students.
- Detailed information on sites tested and survey are in attachment named 2020-2021 Effect

 **Flint River Watershed Coalition**  
February 22 at 11:14 AM · 🌐

The FRWC Monitoring Committee had the opportunity Sunday to try a Winter Stonefly Catch at Swartz Creek Headwaters. While we did not find any, we did find a lot of other critters who were thriving under the very frozen surface of the water. This trial run allows us to work out any bugs in the process with the intent to introduce Winter Stonefly Catch programming in the future.

Winter stoneflies emerge in the winter to mate. They don't fly, rather they crawl along surfaces and attract mates by drumming their abdomens on the surface of rocks.



👍 11      4 Shares

👍 Like      💬 Comment      ➦ Share

## Project GREEN Water Quality Monitoring Program (topic 1 thru 7 in progress report)

- Annual testing of the Flint and Shiawassee Rivers by students
- Mentors go into the classrooms and talk about water health, watersheds, how we impact water
- Teachers and mentors take students out to river to do chemical testing on water
- Testing results are compiled and analyzed
- Students get together at a symposium and share results in presentations drawing conclusions to why the results show good or bad results.
- Additional education on [www.flintriverGREEN.org](http://www.flintriverGREEN.org) See Below for screen shots

### Teachers and Students:

Head to the links below to find many educational resources that support distance learning:

- [Bridges 9-Week Flint River Watershed Distance Learning Unit Progression](#) – Each week contains a video, a student reader, an informational slideshow, a family challenge, and an assignment plus extension activities. Built in the Google Suite for easy integration with Google Classroom.
- [Multimedia and Printable Water Quality Activities](#) – selected for instructors wishing to use distance learning to teach about water quality
- [Weblinks for Water Quality](#) – Flint River Green Bridges extension activities and information

### Other Student Stewardship at Home (*External Links*)

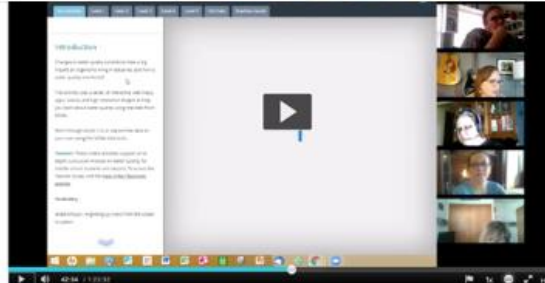
- [Volunteer Water Quality Benthic Monitoring – Flint River Watershed Coalition](#) – adaptations currently underway to train volunteers remotely
- [Genesee County Community Water Quality Consortium Stewardship Resources](#)
- [Michigan Sea Grant: H.O.M.E.S. at Home Series](#)
- [Michigan Water Stewardship Program](#)
- [Neighborhood Litter Clean Up](#)

## Social Distancing Stewardship in the Watershed

### Facebook page related to GREEN



**Flint River GREEN**  
Published by Autumn Mitchell [?] · April 1 ·

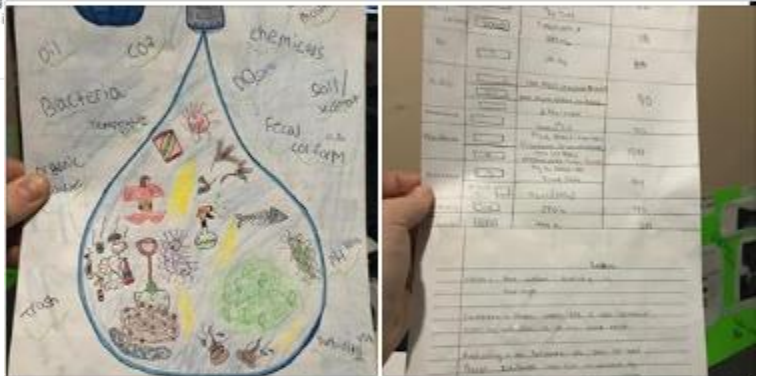


**Great Lakes B-WET**  
April 1 ·

Even though we can't meet in person, our NOAA B-WET grantees are still busy educating! Last week, Flint River Watershed Coalition held a virtual professional development session for their Flint River GREEN project to share some online resources that teachers could use to teach about water quality. They suggested using NOAA's Data in the Classroom water quality module to replicate some of the content in their program. Check it out here: <https://dataintheclassroom.noaa.gov/content/water-quality>

**Flint River Watershed Coalition**  
Published by Autumn Mitchell [?] · April 8 at 5:35 PM ·

We love our place-based education partnership with Discovering PLACE in University Outreach at the University of Michigan-Flint! They were instrumental in securing our second federal grant from NOAA to further expand our education programs. Full press release below.



**Flint River GREEN**  
Published by Autumn Mitchell [?] · April 8 at 5:10 PM ·

Bridges teachers are still hard at work giving their students the best possible watershed education despite the current atmosphere. Yesterday, we met to discuss ways to best adapt Bridges for remote learning. Today, we are excited to announce a second round of funding from NOAA B-WET Great Lakes B-WET that will allow us to continue to bridge classrooms, curriculum, communities and careers!

Full press release: <http://www.flintrivergreen.org/.../2020-NOAA-Award-Press-Rele...>

244 People Reached      16 Engagements      Boost Unavailable

4

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Comment as Flint River Watershed Coalition

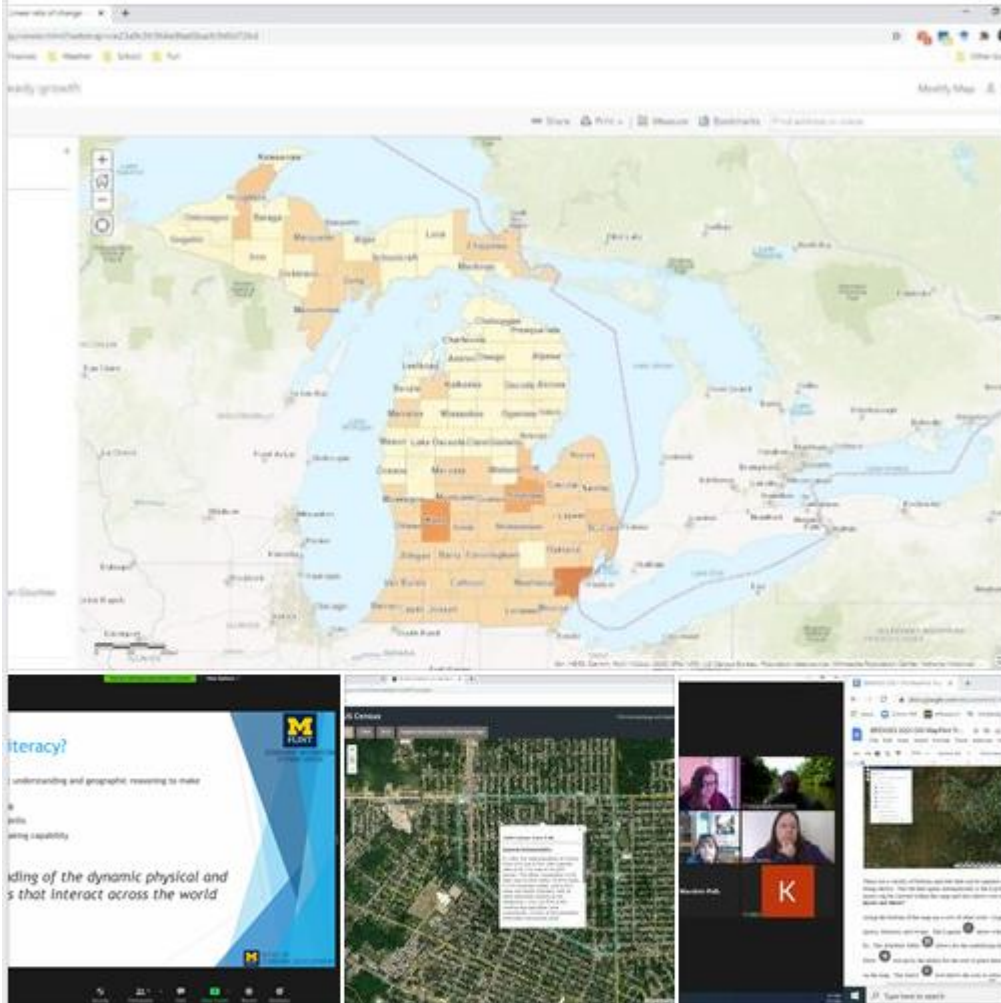


## Flint River Watershed Coalition

February 25 at 8:33 AM · 🌐

Educator professional development season is in full swing with our Flint River GREEN program. We recently partnered with UM-Flint to offer this geoliteracy workshop for our teachers. GREEN program training launches March 5th!

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



### UM-Flint Office of Economic Development

February 25 at 5:21 AM

Our GIS Center Manager, Troy Rosencrants, partnered with UM-Flint Center for Global Engagement's Leyla Sanker and the Flint River Watershed Coalition to provide...  
[See More](#)



Due to Covid- most of the 29 teachers that were involved, did not complete program in spring of 2020. Below are the classes that partially or through online completed classroom portion.

### Breakdown of Project Green Schools in Fiscal Year 2020-2021

School	Number students	Students located within:
Swartz Creek HS (in class before March)	150	Swartz Creek, Gaines Twp, Clayton Twp
Powers Catholic HS (in class before March)	84	All over Genesee County
Atherton Jr., Sr, HS (online Bridges)	78	City Burton
Goodrich Middle Sch (online adapt)	160	Atlas, Goodrich
Grand Blanc west Middle School (in class before March)	192	Grand Blanc City & Grand Blanc Twp
Montrose Middle Sch (online Bridges)	93	Montrose City and Twp
Westwood Heights (online Bridges)	150	Genesee Twp, Mt. Morris Twp, City Mt. Morris

**NOTE: some teachers had multiple classes participating**

- In January 2019 FRWC received a NOAA BWET Grant Award and expanded the GREEN program to respond to teacher requests for more resources.
- FRWC received a SECOND NOAA BWET Grant Award in Feb 2020 and has been expanding the GREEN program during this reporting period to include more schools and more teachers and improve upon the existing program. 2/2020 to 8/2021 called BRIDGES
- include a 10-week teacher curriculum, 13 student reader worksheets, and a resource bank for teachers

Information on first grant.

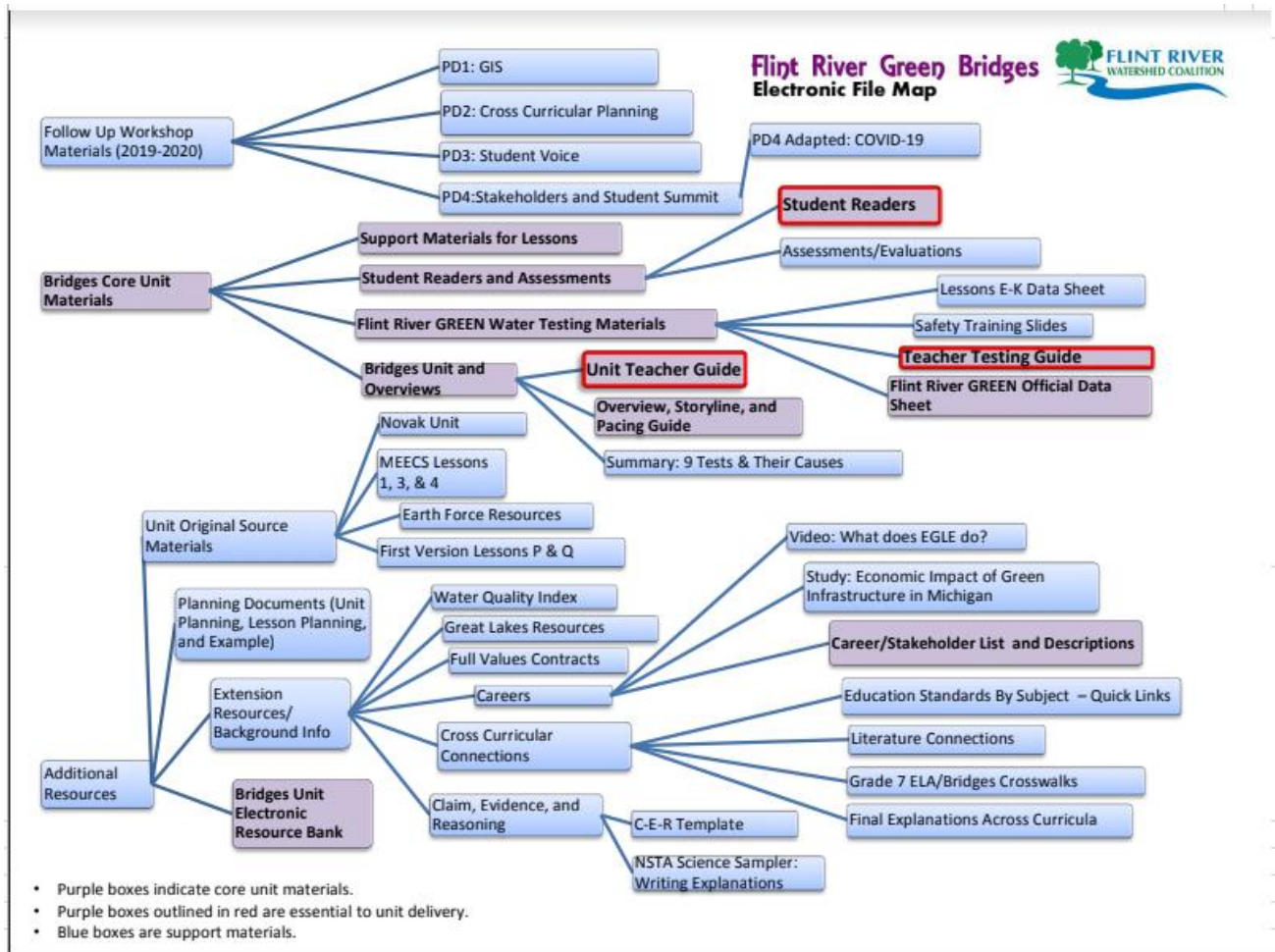
#### Bridges Teacher Cohort: 2019 - 2020

**7 Schools** (4 in Genesee County: Atherton Jr. High, Grand Blanc West MS, Kuehn-Haven, and Hamady)

**13 Teachers attended the 5-day summer training.** (8 being from Genesee County)

**3 other teachers will be participating in the pilot in addition to these.** (1 being from Genesee County)

1 Genessee Co School (Hamady) and 1 Saginaw Co School were able to implement the full curriculum in fall 2019. Two (Montrose and Grand Blanc West began implementing, but were detoured due to the EEE mosquito virus and school policy canceling all outdoor field trips. Covid-19 further complicated implementation - see COVID Response tab for more info.



## 2020 Symposium Breakout sessions

The Symposium where the students get together and compare results was cancelled due to Covid. Symposium was to be in the beginning of May when everything was shut down.

## 2021 GREEN Program

Oct 2020 Swartz Creek HS and Powers HS had samples taken and the classes occurred in full. All results, education and training on [www.flintrivergreen.org](http://www.flintrivergreen.org)

The plan is that teacher training is occurring online. The GREEN classes' execution will depend on the teacher and the covid and School rules in April when testing is done. Teachers are doing one of 3 things:

- Mentors taking samples and bringing to school to be tested.
- Mentors taking samples and testing students doing study work online with results.
- Teachers and students along with Mentors doing program as designed, pre-covid.

The Symposium will be virtual for 2021. This will occur in May and will be reported on in the next progress report.



# Flint River GREEN

## 2021 Teacher Virtual Professional Development Series

**Spring 2021 GREEN Testing Window: April 26th — May 14th**  
**Virtual Student Summit: May 17th—May 27th**

**History of the Flint River:** [Self-paced Online Module](#)  
**Asynchronous workshop beginning January 15th**  
 A virtual adventure that begins with the geological formation of the watershed and propels the learner through time to modern day. Work at your own pace through an interactive slide show notebook built as a resource for teachers to later use to engage students in the river’s history through multiple modes of learning. [REGISTER HERE](#)

**Bridges: Backwards Mapping and Team Planning:** **Guest Presenter:**  
**Monday, February 8th @ 4:00—6:30 pm**  
 This workshop is designed for Bridges teachers only. Teacher teams will continue to work through their planning documents alongside coaches to map their path to student stewardship projects in response to the current education climate. Explore new content area resources and a take a fresh glimpse at backward design. Becca Neilson,  
Education Specialist  
and Program Advisor,  
SEMIS  
[REGISTER HERE](#)

**GIS & Geospatial Literacy for Use Across Content Areas (2 part):** **Guest Presenter:**  
**Part 1 GIS & MapFlint: Wednesday, February 17th @ 4:00—6:30 pm**  
**Part 2 Geoliteracy Resources: Saturday, February 20th @ 9:00—11:30 am**  
 This workshop series will introduce geographic information system (GIS) technology and cartographic and geographic representation, explore geoliteracy principles, and offer lessons to use across content areas. Attend one or both. Troy Rosencrants,  
GIS Center Manager,  
UM—Flint GIS Center  
[Part 1 REGISTER HERE](#)  
[Part 2 REGISTER HERE](#)

**GREEN Program Training and Virtual Resources** **Guest Presenters:**  
**REQUIRED for new GREEN teachers. All teachers welcome.**  
**Asynchronous workshop: March 5th—26th.**  
**Optional Live Mentor Meetup and Program Q & A: April 7th @4 pm**  
 GREEN program logistics and pandemic adaptations will be communicated via a series of videos. Discuss your needs with mentors and the program committee on April 7th. Darren Bagley, MSU-  
Extension  
Tom Hutchings, City of Flint  
Tom Jones, Genesee County  
Drain Commission  
Lee Ann Slosar, GM  
[REGISTER HERE](#)

**SCECHs pending for all events. All workshops and materials are free to teachers who also [register](#) for the 2020—2021 Flint River GREEN program thanks to our generous program sponsors:**

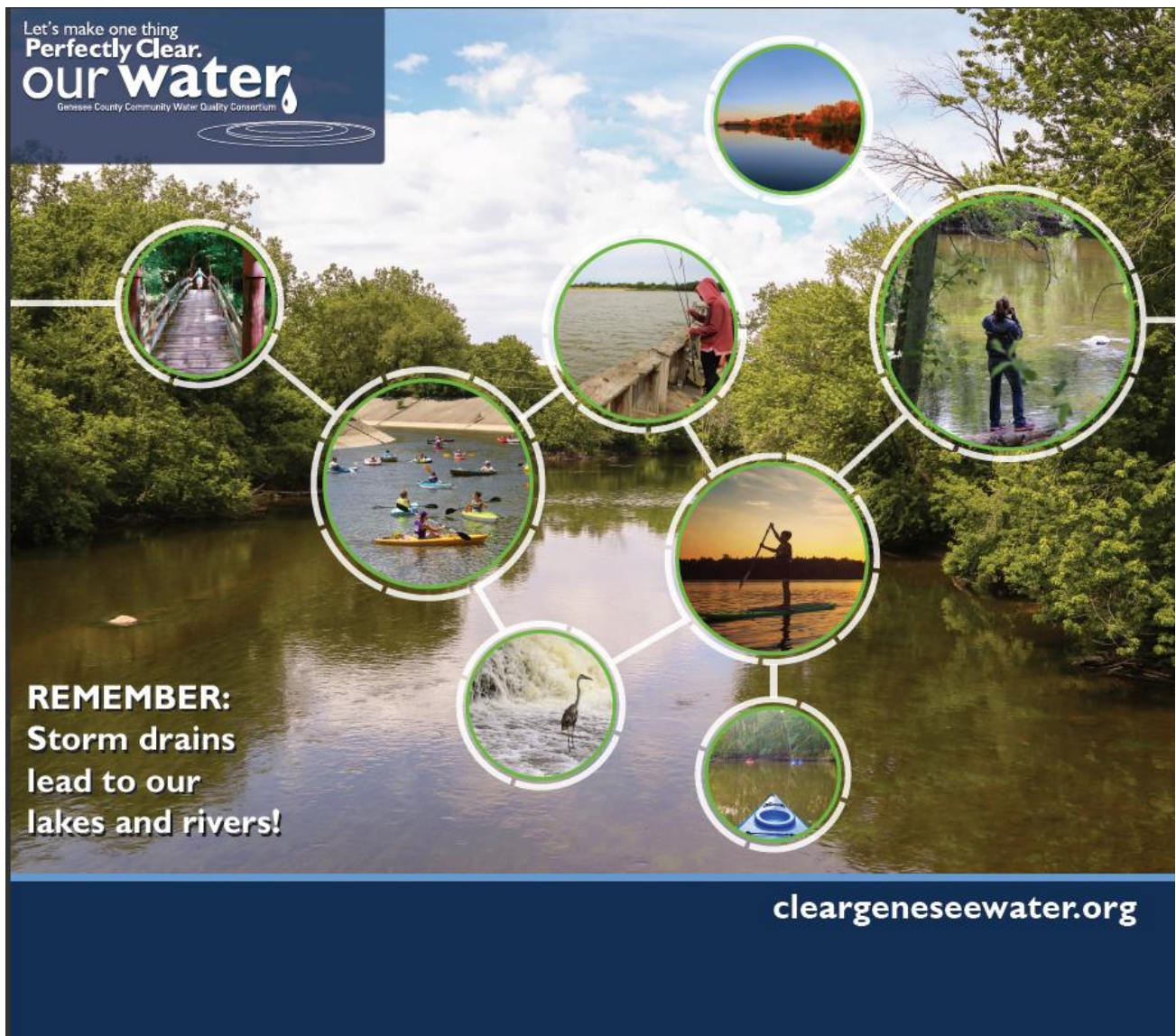


**Place-Based Water Quality Education in the Flint River Watershed**  
 Learn more or register: [www.flintriverGREEN.org](http://www.flintriverGREEN.org)  
 Contact: Autumn Mitchell, Education Programs Manager | [amitchell@flinriver.org](mailto:amitchell@flinriver.org) | 810-767-9491

## Display Booth for Events (Topics 1 thru 8 in progress report)

- Conservation district takes an education booth to events throughout the County and year
- Staff/ volunteer engage the public by offering them a giveaway if they answer a question
- It does not matter if the answer is right or wrong, it allows the Staff a chance to impart water education and a pamphlet

The Display Booth for events was completely shut down for 2020 All the events lined up for 2020-2021 had been canceled by the event coordinators due to covid. None of the event coordinators have an online or virtual equivalent. In 2020 the booth went through an update by Tetra Tech and delivered in Dec 2020. We are excited to be doing events so we can present the new look. Image of background below. Note all images are taken within Genesee County. Thanks to Genesee County Parks for their assistance.



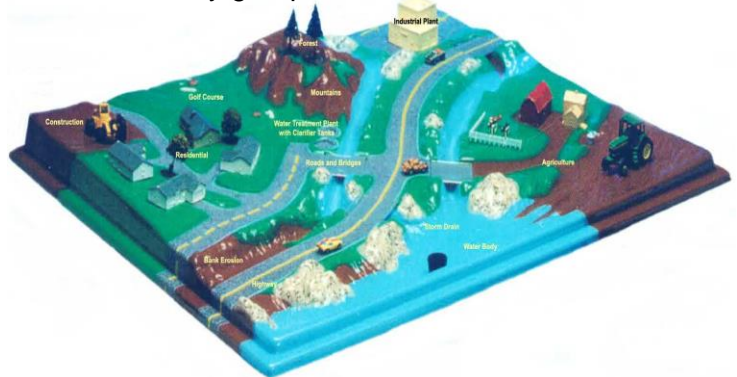
## Our Water Webpage (Topics 1 thru 10 in progress report)

- [www.ClearGeneseeWater.org](http://www.ClearGeneseeWater.org)
- Hosted & updated at GCDC-SWM Office
- Content is set around the “Seven Storm Water elements”
- Additional content on [www.GCDCSWM.com](http://www.GCDCSWM.com) the Drain Commissioner’s website for permittees
- [www.cleargeneseewater.org](http://www.cleargeneseewater.org) website is being redesigned for content. One of the changes that will happen is a password protected area for permittees will be added so each permittee will have immediate access to past data and this section will be expanded.

NOTE: website is on a platform that does not allow us to track traffic to website. This is being corrected. The website is being modified so it can be moved to a server platform by the end of April 2021 to provide us the ability to track traffic for the next reporting cycle. We are also taking the opportunity to update the content and look of the website that will evolve through 2021 -2022. Make sure to visit and check out the changes.

## Conservation District Youth Education (Topics 1 thru 7 & 9 in progress report)

- Conservation District Staff goes into Schools to do youth education
- Programs can include Enviroscapes or other games:
  - Online Games (DiscoverWater.org)
  - Water cycle relay race
  - Filter the Pollution
  - A-maze-ing water
  - Hands on activities- build your own watershed.
  - Water trivia games (who wants to be a millionaire, a watershed game, the environmental council, conservation Style, and environmental jeopardy)
- GCDC-SWM has four “Enviroscope” interactive models that demonstrate how pollutants can reach bodies of water. These can be checked out by groups or teachers.



## Breakdown of Conservation District Water Quality Presentations in Fiscal Years 2020-2021

Month	Event	School aged children reached:	Community Children are from:
3/3/20-3/10/20	Moore Elementary	20-30 per class 17 classes	Mt. Morris, Mt. Morris Twp., Genesee Twp.
3/11/20-3/12/20	Genesee Stem Academy	20-30 per class 11 classes	County Wide
<b>Below classes were virtual and pdf + hard copies of handouts were provided</b>			
4/1/20-6/15/20	Syring Elementary	20-30 per class 6 class X 8 weeks	Flint Twp., Swartz Creek, Gaines Twp, Clayton Twp.
4/1/20-6/15/20	Moore Elementary	20-30 per class 11 class X 8 weeks	Mt. Morris, Mt. Morris Twp., Genesee Twp.
4/1/20-6/15/20	Genesee Stem Academy	20-30 per class 11 class X 8 weeks	County Wide
12/3/20	Southwestern Academy	20-30 per class 3 classes	Flint
10/29/20	McKenzie Patrice Croom Water Lab	20-30 per class 1 classes	Flint

Genesee County Nests the above Schools within Genesee County although they are not listed in above table.

Reporting is quarterly, Jan through March 2021 have not been complied yet. They will be included in the next reporting cycle.

### Catch basin Stenciling / Markers Program (Topics 1 & 2 in progress report)

- 2 programs
  - FRWC and Conservation District coordinate groups, train on how and why they do stenciling. Document the where and how many.
    - Volunteers do the actual stenciling on neighborhood streets and parking lots.
    - Volunteers also distribute door to door hangers with storm water information.
  - GCDC-SWM staff places permanent markers on drainage inlets (rear yard and road ditches)
    - Also stencil road inlets where staff had cleaned sumps of sediment and debris



Dates	Markers	Running Total	Community
4/13/11 to 9/30/2013	200	200	County Wide
9/30/13 to 1/19/2016	1200	1400	County Wide
1/19/16 to 3/13/2018	1200	2600	County Wide
3/13/18 to 2/26/2020	650	3250	County Wide
2/26/20 to 3/1/2021	400	4250	County Wide



**Breakdown of Conservation District Stencil Program in Fiscal Years 2020-2021**

Date	Location	Participants	Stencils/ Door hangers
8/19/20	Flint Township	3	24/45
8/19/20	Flint Township	3	11/39
9/22/20	Flint Township	2	22/42
9/22/20	Flint Township	2	11/40
9/24/20	Grand Blanc	2	24/55
9/24/20	Grand Blanc	2	11/26
9/25/20	Swartz Creek	2	19/42
9/25/20	Swartz Creek	2	21/57

**Breakdown of FRWC Stencil Program in Fiscal Years 2020-2021**

Date	Location	Participants	Stencils/ Door hangers
*10/14/19	Davison	16	33/133
*11/3/19*	Swartz Creek	39	56/193
4/24/20	Facebook video- County Wide	133 views	
9/3/20	Grand Blanc	3	6/27
9/4/20	Grand Blanc	9	23/65
9/6/20	Burton	3	10/45
9/6/20	Davison	4	33/70
9/9/20	Davison	5	15/68
9/10/20	Burton	3	13/71
9/10/20	Grand Blanc	3	22/66
9/11/20	Burton	3	6/44
9/12/20	Grand Blanc	3	26/77
9/13/20	Instagram post- County Wide	20 likes	
9/14/20	Grand Blanc	3	18/56
9/29/20	Grand Blanc	1	25/56

\*Includes unreported from previous reporting period

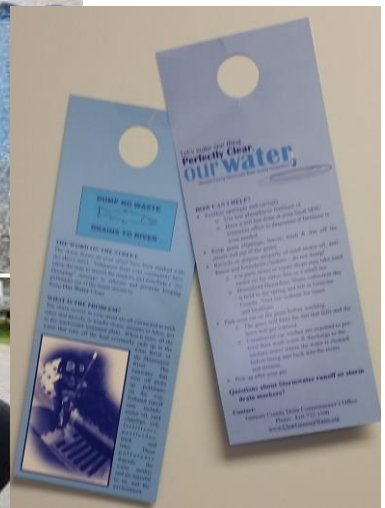


# Flint River Watershed Coalition

September 6, 2020 · 🌐

We had a fun morning Storm Drain Stenciling with some awesome volunteers!

Email [adarzi@flintriver.org](mailto:adarzi@flintriver.org) to join us!



👍❤️👤 21

4 Shares

👍 Like

💬 Comment

➦ Share



### **Distribute Brochures Promoting the 7 Simple Steps: (Topics 1 thru 7 in progress report)**

- An educational brochure was developed to provide information about EPA's seven mandated elements of storm water education
- 5,000 brochures were printed in November 2006, and 10,000 reprints were made in 2009 and 2013.
- Brochures are handed out at events. 2020-2021 has had few brochure handouts due to covid and public event being canceled. We are reevaluating the pros and cons of having mailers to residents.
- Brochures are available to public at municipal buildings (reported on by each permittee)

### **Speaker Bureau (Topics 1 thru 9 in progress report)**

- Modular Power Point presentation was developed and used by FRWC and GDC-SWM on a multitude of storm water topics
- Water topics can be mixed and matched to customize talk both in content and length
- This program is targeted to talk to residents, groups, associations and businesses

**Breakdown of FRWC Speaker Program in Fiscal Years 2020-2021**

Date	Location	Participants
*11/19/19	Kettering University	35
*12/12/19	Mott Middle College	200
*1/16/20	Flint College Cultural Neighborhood Assoc	30
*2/12/20	Sierra Club Nepessing Group	25
*2/18/20	Flint Twp Board meeting	10
*2/29/20	Quiet Water Semposium	250+
9/8/20	Kettering University	40

\*Includes unreported from previous reporting period

### **Advertise Household Hazardous Waste Events (Topics 7 in progress report)**

- The Household Hazardous Waste Events is financially supported by Genesee County and various Communities (reported on by each permittee)
- PEP program helps distribute information to make public aware of availability and proper disposal of household hazardous waste to keep it out of the environment and landfills.
- Genesee County distributes flyers to all users, over 2000 individuals. Most departments post notice where it can be seen by public. Many communities also post flyers where it can be seen. (reported on by each permittee)
- Genesee County Planning keeps track of programs and has recycling education.
- 2020-2021 Permit cycle: the Household hazardous waste events were canceled due to covid, except for a tire collection on September.
- Promoted on [www.cleargeneseeewater.org](http://www.cleargeneseeewater.org)
- Also promoted drug takeback day on Oct 24, 2020. Keeping medications out of the sanitary.

**GENESEE COUNTY**  
**FREE TIRE RECYCLING**

**Saturday, September 12, 2020 | 9AM - 1PM**  
**6515 N Dort Hwy, Flint, MI 48505**

- Free to all Genesee County residents
- Only up to 10 passenger tires accepted per vehicle
- Tires off the rim only
- No commercial tires
- No commercial vehicles may enter (e.g. box trucks, tractor trailers, etc.)

**Questions? Call (810) 762-7744**





### National Take Back Initiative Collection(s) Site Search Result

**Saturday, October 24, 2020**  
10:00 am - 2:00 pm

[Search Again](#)

**Take Back Day: Saturday, October 24, 2020**  
**10:00 am - 2:00 pm**

COLLECTION SITE	~DISTANCE	
If you do not find a collection site near you, please check back frequently, sites are added every day.		
OFFICE OF GENESEE COUNTY SHERIFF OFFICE OF GENESEE COUNTY SHERIFF	5miles.	<a href="#">Map</a>
MOTT COMMUNITY COLLEGE PUBLIC SAFETY MOTT COMMUNITY COLLEGE PUBLIC SAFETY BLDG 247 DROP BOX	5miles.	<a href="#">Map</a>
FLUSHING POLICE DEPARTMENT FLUSHING POLICE DEPARTMENT PERMANENT DROP BOX	6miles.	<a href="#">Map</a>



**GENESEE COUNTY**  
METROPOLITAN PLANNING COMMISSION

Improving Communities/Housing ▾

Environmental ▾

Transportation ▾

Documents & Public Notices ▾

**SITE MAP**

- ▾ Recycling Education
- Recycle Day
- Drop-Off Center Directory
- Curbside Programs
- Solid Waste

**CONTACT OUR STAFF**

**OUR STAFF**

**QUICK LINKS**

**CURBSIDE PROGRAMS**

**DROP OFF CENTER DIRECTORY**

**SOLID WASTE MANAGEMENT**

**RECYCLE DAY**

## RECYCLE DAY

Looking for a way to properly dispose of your Hazardous Waste, Electronics, Paint or other materials? Attend Genesee County's Recycle Day!

**RECYCLE DAY EVENT DETAILS**

Thank you to all who participated in our 2020 Recycle Day Events – over 1,000 residents dropped off over 160,000 pounds of hard-to-recycle materials! Please stay tuned for the announcement of 2021 events.

Items Accepted at Recycle Day

- Aerosols
- Automotive Fluids
- Batteries (household/auto)
- Biomedical Sharps (in rigid/sealed container)
- Corrosives (acids/bases)
- Electronics (all kinds)
- Fire Extinguishers
- Fluorescent Bulbs & Tubes
- Mercury
- Oil Based & Latex Paints/Solvents
- Pesticides & Herbicides
- Prescription Medication
- Propane Cylinders (up to 30 lbs. each)
- Reactives & Oxidizers
- Smoke Detectors

Items Not Accepted at Recycle Day

- 55 Gallon Drums of Waste
- Agricultural Tires & Waste
- Ammunition
- Appliances
- Commercial Tires & Waste
- Compressed Gas Cylinders (other than propane)
- Construction Materials
- Explosives & Fireworks
- Garbage & Yard Waste
- Industrial Tires & Waste
- Paper for Shredding
- Radioactive Materials
- Tires
- Weapons

### Educational Material- Septic Booklet (Topics 3, 7 & 8 in progress report)

- Information to help educate septic system owners on proper maintenance and practices
- Copies have been provided for distribution to:
  - Genesee County Health Department
  - Interested communities (Not all communities have residents with septic systems.)
  - Realtors association
  - Available at events for interested residents
- The number of parcels County wide that are not vacant/farmland nor have access to sanitary are small. This makes it hard to evaluate the program.
- IDEP program has more issues with cross connections that no one know exist rather than failed septic.
- 2020-2021: 2000 were distributed to real estate agents to give out to buyers and sellers of houses with septic. There is no good way to determine how many were handed out. Brochures are also available at the county and local communities to hand out, or be picked up by residents. Each community reports.

### Canoe Trips- Paddles (Topics 1 & 2in progress report)

- The Flint River has suffered historically from a bad reputation. Through our partnership, the FRWC has several paddles are held on various locations of the Flint River.
- Before the paddle FRWC has water quality education as well as safety on the water education.
- Provides easy access to residents that would not normally get on the water or would drive hours to Canoe/Kayak on a “clean river” up north.
- Most new paddlers are surprised how beautiful and divers the river is.
- Increased use and access observed. = increased stewardship
- Participants locations show that people are willing to travel to come to the Flint River
- 11 planned Paddles were pushed back or cancelled. The May and June 2020 Paddles were due to Covid.

**Breakdown of FRWC Paddle Program in Fiscal Years 2017-2020**

Date	Location	Participants	Participants From (zip code)
*10/4/2019	Irish Rd to Mott Lake	16	Fenton, Genesee, Flint, Flushing, Burton & Davison
*10/19/2019	Grand traverse to Mitson Landing	8	Fenton, Flint and Grand Blanc
7/14/2020	Grand traverse to Mitson Landing	6	Burton, Flint, Fenton & Mt Morris
7/25/2020	Mott Lake	10	Fenton, Flint, Flushing, Swartz Creek & Lapeer
7/27/2020	Grand traverse to Mitson Landing	13	Fenton & Grand Blanc
8/1/2020	Virtual Flotilla at various locations through the watershed	82	Across Watershed
8/12/2020	Irish Rd to Mott Lake	13	Burton, Fenton, Flint, Flushing, Swartz Creek
8/15/2020	Irish Rd to Mott Lake	10	Clio, Davison, Genesee& Mt. Morris

Date	Location	Participants	Participants From (zip code)
9/2/2020	Grand Travers to Mott Park Landing	9	Fenton & Flint
9/6/2020	Mott Lake	4	Lapeer
9/7/2020	Grand Travers to Mott Park Landing	6	Fenton, Howell & Saginaw
9/11/2020	Grand Travers to Mott Park Landing	11	Burton, Fenton, flint, Flushing, Grand Blanc & Swartz Creek

\*Includes unreported from previous reporting period



**Flint River Watershed Coalition**  
 October 10, 2020 · 🌐

We had a fantastic day kayaking on Thread Lake with our Flint River GREEN 21st Century afterschool program youth and their families! Big thanks to our Paddle Program And Kayak Flint staff for teaming up for a great day! Sunday is the last day of the season to get on the water at Kayak Flint!

U.S. Department of Education , North American Association for Environmental Education - NAAEE, NOAA B-WET, Genesee County Parks and Recreation Commission #21stCenturySTEM

👍❤️ 33      8 Comments 9 Shares



### Present Information on Proper Disposal of Medications and Personal Care Products on Website

- This information used to be available on Water and Waste website, but the site has been changed during this reporting period.
- GDCSWM is in the process of having this information provided on [www.ClearGeneseeWater.org](http://www.ClearGeneseeWater.org)
- The promoted Household Hazardous Waste events specifically list that they accept aerosols, biomedical sharps and prescription medication as some of the items accepted
- This year [www.cleargeneseewater.org](http://www.cleargeneseewater.org) promoted the National Takeback Initiative Collections that occurred in Oct of 2020. This tells residents where to take back their unused or expired drugs so they do not end up in the water (either sanitary or surface). Shown above on Page 18.

### **Pamphlet for Riparian Landowners(Topics 5 thru 7 & 9 in progress report)**

- Most of the pamphlets were distributed in past reporting periods.
- Pamphlets are handed out at events
- Pamphlets are available to public at municipal buildings (reported on by each permittee)
- 5000 Pamphlets have been distributed since start of program

### **Education Workshop Targeted to Restaurant Waste (Topics 7 & 10 in progress report)**

- Restaurants have been identified in many IDEP enforcement
- Workshop would target restaurants to educate staff on proper disposal of waste fluids to prevent future illicit discharges
- Program is still in development stage, no workshop has been performed during reporting period.

### **Education Workshop Targeted To Green Infrastructure Design (Topics 9 in progress report)**

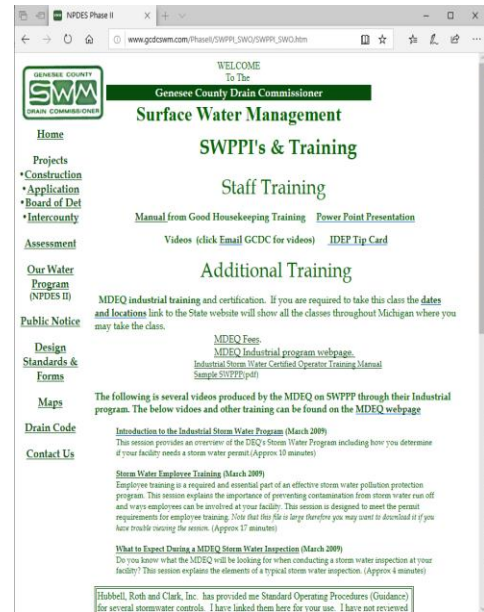
- Engineers and developers have been targeted to help them understand how green infrastructure can be effective in their design
- No workshop has been performed during reporting period. Scheduled for next reporting period

### **Education Workshop targeted to good housekeeping practices for municipalities (Topics 2 thru 6 & 10 in progress report)**

- Provide training information for municipal staff and their contractors
- Topics to be covered:
  - Spill prevention / Spill Control and Response
  - Vehicle and Equipment Maintenance / Washing
  - Material Storage
  - Waste Management
  - Facility Maintenance
  - Landscape and Grounds Maintenance
  - Illicit Discharge Detection
  - Contracts
- No workshop has been performed during reporting period. Scheduled for next reporting period
- Online self-training and video are available on demand, so permittees may do training on their schedule (reported on by each permittee)

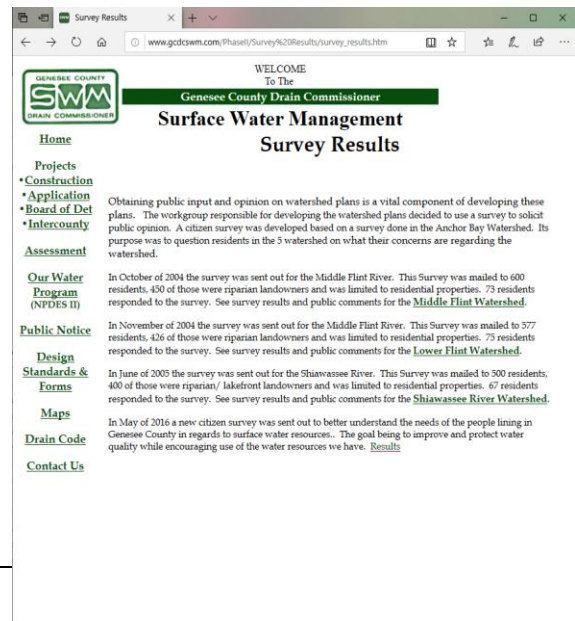
## Good Housekeeping Training Video (Topics 2 thru 6 & 10 in progress report)

- Training materials are made available to permittees through [www.GCDCSWM.com](http://www.GCDCSWM.com) website
- permittees may do training on their schedule (reported on by each permittee)
- Information provided: Power Point Presentation, Good housekeeping Video, IDEP Tip Card
- Information can be accessed by receiving an email link from GCDC-SWM staff
- Additional training available on website with links to
  - State Industrial Storm Water Program
  - Standard Operating procedures
- Following permittees have requested link
  - Flint Township – Jan 2019
  - Vienna Township- Feb 2019
  - Genesee County Parks and Rec
  - Flushing Schools



## Other individual commitments by permittees are reported separately by permittee

Social Survey: Genesee County performed a Social survey in 2005 to see the public's base line level of knowledge in regards to storm water and the behaviors that lead to pollutants getting into surface water. In 2016 GCDC-SWM received a SAW grant to perform a new social survey and see where we can cross reference information from the original 2005 survey. The Survey was completed in 2016 and results compiled in 2017. Results are available on [www.GCDCSWM.com](http://www.GCDCSWM.com) website.



## Other Water Education Efforts throughout the County That Are Not In Table 2

- Audits: GCDC-SWM offers each year one on one site visits between the permittee(s) /agencies and Tetra tech, our consultant to go over their facility, identify any potential issues, prepare and identify a report to the permittee as a means of helping them improve their adherence to the permit requirements.
- For-Mar on the Road: GC Parks and Rec provides free science and nature based programs for k-8 education that meets MI science standards. 5<sup>th</sup> grade covers water and ecosystems. They have other programs throughout the County and year that touch on surface water and or stewardship.
- Community walking path along river has free standing watershed signage, between Genesee county parks and City of Flushing Park.
- Park provides education on proper disposal of pet waste at the City of Flushing Park walkway.
- There is an Annual River cleanup on the first week of June along the Shiawassee River, organized by a Fenton council members.
- The FRWC coordinates an annual stewardship day that includes cleaning up trash along the river within Genesee and Lapeer counties. Staff from the County and local municipalities including the Drain Office, Parks and Rec, City of Flushing, City of Flint and others assisted with the cleanup by provided staff or garbage removal. This event was promoted to have volunteers do it on their own instead of in groups due to Covid
- Flint River Corridor Alliance is a community based organization of Government, non-profit and private sector stakeholders, focusing on the Flint River as it goes through the City of Flint. They have completed the securing of grant money to remove the Hamilton and Fabri dams located within and owned by City of Flint. They have partnered with Genesee County Parks and Rec to facilitate the dam removals. They also sponsor an annual Floatilla on the Flint River and other events promoting the Flint River.
- Genesee County Parks provides education on many subjects including storm water. (**H2 knOw!**). Genesee County, specifically the Parks and rec owns many acres along the Flint River providing defined access for the public. They also provide support for many water programs.
- Household Hazardous Waste: The Our Water program supports this program by promoting it but this program is developed and managed by Genesee County Planning Commission, General Motors, UAW Local 599, Goodwill Industries, 5R Processors and Keep Genesee County Beautiful & several communities participate and/or support this program both financially and with staff or letting program use their property. In the spring and fall there are HHW and electronic waste collections. City of Flint hosts a permanent site at their Water





service center (centrally located within Genesee County). A second site moves to a new location around the County. This is either hosted at a school or municipal property. These events did not occur in 2020 due to covid and the concern about volunteers being in proximity to that many people.

- Genesee County Water and Waste [www.gcdcwws.com](http://www.gcdcwws.com) has education and oil/ grease drop off for residents. This prevents sanitary sewer overflows.



**Welcome to the Residential Cooking Fats, Oils & Grease Recycling Program**



The goal of the program is to protect the environment by keeping cooking fats, oil and grease out of the Genesee County sewer system and landfills. Genesee County Water and Waste Services wants to remind residences that fats, oils and grease from cooking should not be poured down their sinks or drains. When cooking Oils is discarded into your sinks or drains it accumulates inside the sewer pipes making it difficult for wastewater to flow freely to the wastewater treatment plant. When wastewater cannot make its way through the sewer pipes, it overflows into homes, streets, lawns and storm drains eventually making its way into the water shed.



The program is free to residence through the support of Darling Inc. who collects and recycles the cooking oil, fats and grease into any number of products such as biofuels, make-up, crayons...etc. Genesee County residents and churches may deliver up to 5 gallons of waste cooking oil and grease to the following locations:



**Anthony Ragnone Wastewater Treatment Plant** – 9290 Farrand Rd. Montrose, MI 48457.

**Genesee County Division of Water & Waste Operations & Maintenance** – G-4612 Beecher Rd. Flint, MI 48532.

**Linden Wastewater Treatment Plant** – 14412 Hogan Rd. Linden, MI 48451.

Persons utilizing the program must check in at the front office at these locations. Drop off times will be 8am to 3pm Mon.-Fri. excluding holidays. No commercial kitchens please. No petroleum based oils will be accepted. Please contact David Thibeault with questions at 810-732-7870 ext.4154.

**Grease Myths**

It's okay to pour grease down the drain as long as...



... I use the garbage disposal.

**MYTH!** The garbage disposal only grinds up items before passing them into your sewer pipes.

... I run hot water.

**MYTH!** Hot water only gives the illusion of dissolving grease. The grease will eventually cool and build up in the pipes.

... I chase it down with a dose of dish soap.

**MYTH!** Dish soap temporarily breaks up grease as you wash your dishes, but the soap will eventually lose its effectiveness causing the grease to solidify in the pipes.



... it is a liquid oil at room temperature.

**MYTH!** Liquid cooking oils, like canola oil and olive oil, float on wastewater and easily adhere to sewer pipes.