



*"Protecting, enhancing and celebrating the Clinton River,  
its watershed and Lake St. Clair for over 45 years..."*

## **STORMWATER MONDAY - January 2019**

Monthly updates in Stormwater Education from  
CRWC



### **HAPPY NEW YEAR!**

You are receiving this newsletter as part of the Clinton River Watershed Council's Stormwater Education Program. Please read the following information for updates on upcoming events, public presentations, educational materials, and volunteer opportunities happening in our watershed.

If you have questions regarding CRWC's programs, your stormwater education contract with CRWC, your subscription to this listserve, or anything else please do not hesitate to contact me by phone or email at (248)-601-0606 or [kathleen@crwc.org](mailto:kathleen@crwc.org)

Best,  
Kathleen

## **2019 Stormwater Management Forums - Save the**

## Dates!

### CLINTON RIVER WATERSHED COUNCIL'S 2019 STORMWATER MANAGEMENT FORUMS

These forums bring decision makers and watershed stakeholders together to learn about and discuss relevant topics in stormwater management. Attendees will hear from a variety of speakers on topics like:

- Green infrastructure development, funding, and effective management
  - Environmental regulations and ordinances
  - IDEP/Stormwater Pollution Prevention
- Current projects in the Clinton River Watershed
- Updates from CRWC, MDEQ, and County representatives

CRWC'S Stormwater Management Forums are **FREE** and geared towards elected officials, municipal staff, city council members, engineers, consultants, planners, and NGOs within the Clinton River Watershed.

## SAVE THE DATES

April 4th, 2019 // 11:30am - 1:30pm  
Troy Community Center  
3179 Livernois Rd. Troy, MI 48083

June 13th, 2019 // 9:00am - 11:00 am  
Macomb Intermediate School District  
44001 Garfield Rd. Clinton Township, MI 48038

August 8th, 2019 // 9:00am - 11:00am  
Troy Community Center  
3179 Livernois Rd. Troy, MI 48083

October 10th, 2019 // 9:00am - 11:00am  
Macomb Intermediate School District  
44001 Garfield Rd. Clinton Township, MI 48038

Breakfast or Lunch is included! Registration is required.  
For more information or to register call (248)-601-0606  
or email [kathleen@crwc.org](mailto:kathleen@crwc.org)

Click [HERE](#) to download the flyer.

Email [kathleen@crwc.org](mailto:kathleen@crwc.org) with suggestions for topics, guest speakers, or if you would like to present.

## **YOU'RE INVITED! MICHIGAN WATER SCHOOL WORKSHOP**

The Clinton River Watershed Council is working with MSU to facilitate workshops through their Michigan Water School program. These workshops are marketed towards local decision makers, municipal staff, and elected officials within the Clinton River Watershed. The workshop is two days, and includes presentations as well as a field trip component. Our first workshop is scheduled for February 27-28, 2019. To register contact Kathleen Sexton - [kathleen@crwc.org](mailto:kathleen@crwc.org) or (248)-601-0606.

**[DOWNLOAD:Water Schools Flyer](#)**



Local, State and Tribal elected and appointed officials and staff wanting to gain access to resources and knowledge about water management are encouraged to attend this workshop!

**Coming to the  
Clinton River  
Watershed  
February 27-28, 2019**

Registration: \$175  
(Includes materials and lunch each day)  
Certificate upon completion  
of two-day session.

Partial scholarships available thanks to funding  
from the Erb Family Foundation.  
Contact Mary Bohling at [bohling@msu.edu](mailto:bohling@msu.edu)



For more information contact Kathleen Sexton (248) 601-0606 or email [kathleen@crwc.org](mailto:kathleen@crwc.org)  
or Mary Bohling (313) 410-9431 or email [bohling@msu.edu](mailto:bohling@msu.edu)

**MICHIGAN STATE  
UNIVERSITY**

**Extension**



Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities. Accommodations for persons with disabilities may be requested by contacting the event contact two weeks prior to the start of the event. Requests received after this date will be honored whenever possible. MSU Extension programs and materials are open to all without regard to race, color, national origin, gender identity, religion, age, height, weight, disability, political beliefs, sexual orientation, marital status, family status, or veteran status.

**CRWC's ANNUAL WINTER STONEFLY SEARCH**

**January 26th, 2019**

Data from this search is used to help determine water quality of local streams that are potentially impacted by polluted stormwater runoff. CRWC is also hosting a free bug ID training for this program on January 12th, 2019.

**Click the link below to download the article to share regarding the annual Stonefly Search as well as a flyer to distribute in your community.**

Click here for the: [Stonefly Search Article](#)

Click here for the: [Stonefly Search Flyer 2019](#)

# 2019 WINTER STONEFLY SEARCH

WITH THE CLINTON RIVER WATERSHED COUNCIL

## STONEFLY BUG ID WORKSHOP:

*Saturday, January 12, 2019*  
9:00am-11:00am at CRWC Office:  
1115 W. Avon Road, Rochester Hills MI 48309

## WINTER STONEFLY SEARCH:

*Saturday, January 26, 2019*  
9:00am-12:30pm at CRWC Office:  
1115 W. Avon Road, Rochester Hills MI 48309



### REGISTRATION FOR BOTH EVENTS IS REQUIRED!

To register call (248)-601-0606 or email [registration@crwc.org](mailto:registration@crwc.org)



## **Cold Weather Best Management Practices**

Winter brings with it lots of fun activities, like sledding, ice skating and skiing. Winter also means mounds of snow to shovel and layers of ice to remove from our roads, sidewalks and driveways. We often make the job easier by applying deicers like salt. Besides sodium chloride, many deicers also contain chemicals like cyanide. When ice melts, the salts and chemicals dissolve and flow into storm drains that lead directly to the river, which negatively impacts water quality and aquatic life. Here are a few tips to reduce salt use and prevent pollution year-round. Click on the image to download the

flyer.

# A CITIZEN'S GUIDE TO COLD WEATHER PRACTICE



Winter brings with it lots of fun activities, like sledding, ice skating and skiing. But winter also means mounds of snow to shovel and layers of ice to remove from our sidewalks and driveways. We often make the job easier by applying deicers like salt. Besides sodium chloride, many deicers also contain chemicals like cyanide. When ice melts, the salts and chemicals dissolve and flow into street drains that lead directly to the river, endangering aquatic life. Here are a few tips to reduce salt use and prevent pollution year-round.

## Help prevent stormwater pollution this winter!

*Below are some approaches to reducing stormwater pollution from household salt:*

### 1. Try an Alternative

Calcium magnesium acetate (CMA) was developed as a deicing alternative because it has fewer adverse environmental impacts than salt and doesn't cause erosion.

### 2. Reduce your salt use.

By limiting the amount of salt we use on sidewalks and driveways, we can reduce the amount of polluted stormwater washing into our waterways.

### 3. Use De-icing Products Based On Winter Conditions

Before applying a deicer to your sidewalk, think about the air temperature, potential for sun exposure, and how much product you'll need. Remember to follow label directions carefully and use products sparingly. It's easy to over apply deicers, but applying more than you need won't melt your ice any faster.

- For Dry, Powdery Snow: Shovel or sweep snow immediately to avoid using deicer.
- For Wet, Heavy Snow: Apply deicer product as soon as snow begins falling in order to prevent it from bonding.
- For Sleet & Freezing Rain: Apply deicer product early on during these conditions to prevent ice from building up.
- For Significant Snowfall: When more than 2 inches of snow falls, plow or shovel first and then use a deicing product to melt any underlying layers of ice that have built up due to packed down snow.



## Help keep our rivers healthy year-round!

### WINTER

Besides limiting the amount of salt you use to melt ice, start thinking about adding native plants to your yard this spring. Plants native to Michigan have deeper roots than turf grass, so they help absorb stormwater and filter out pollutants.

### SPRING

Along with adding natives to your landscape, take care of the lawn you already have by keeping your grass about three inches tall. Taller grass cools the soil, needs less water and shades out weed growth. It is also more insect and disease resistant!

### SUMMER

Conserve water by using only what your lawn needs. By watering late in the afternoon, water will reach roots more easily and won't evaporate as quickly in the hot summer sun. Also make sure your sprinkler is watering your lawn — not your driveway or sidewalk!

### FALL

Rather than bagging all of your leaves for disposal, try composting. Compost piles are easy to make, and you'll end up with rich, earthy fertilizer for your lawn and garden!



## **WEEKLY CLEAN**

**Join CRWC at Weekly Clean every Wednesday from 10 am - 12 pm**

Weekly Clean is held at a different location within the watershed each Wednesday from 10am-12pm. All community members are welcome to join in our cleanup efforts.

***Remember: What we do on the land effects water quality. Picking up trash is one thing we can do to help make sure our local freshwaters are healthy and clean!***

**Upcoming Cleanups:**

**Weekly Clean is on Winter Break**

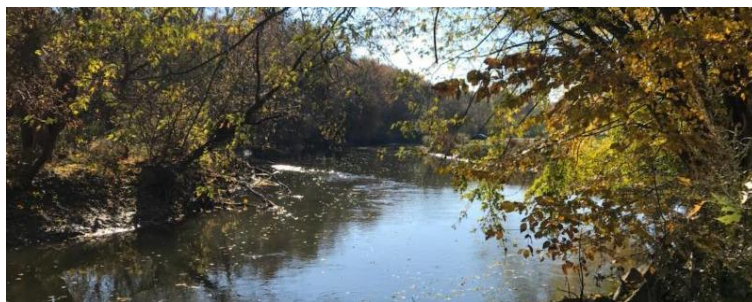
**We will return to our regular weekly clean program in April. Stay tuned for future dates!**

To learn more about these events and see upcoming locations, please visit our website: <http://www.crowc.org/weekly-clean/>

[Click HERE to download a shareable Weekly Clean flyer](#)



## ONGOING OPPORTUNITIES



### Stormwater Education Program

#### Services and Reporting

As part of your Stormwater Education contract with CRWC, we provide services outlined in the collaborative Public Education Plan between Macomb County, Oakland County, and CRWC. This includes community education programs (public presentations, Stream

Leaders, RiverSafe LakeSafe certification, Adopt-A-Stream, River Day, water festivals), stewardship (Weekly Clean, Clinton Cleanup), watershed management (Watertowns, GI installment, grant writing and reporting) informational resources (development and distribution of educational materials, tip cards, flyers, dog waste bags), as well as consultation, evaluation, and reporting.

If you have not already received and starting using the following document, I highly recommend you download this file and use it to track all of your community specific actions outlined in the Public Education Plan.

- [MS4 PEP Community Specific Actions Checklist and Tracking Sheet](#)

## **BRING A CRWC STORMWATER EDUCATION PRESENTATION TO YOUR COMMUNITY!**

As part of your stormwater education contract with CRWC, we provide free public education opportunities to you and your residents in your community.

To schedule a stormwater education presentation or for more information, contact Kathleen Sexton at [kathleen@crwc.org](mailto:kathleen@crwc.org) or (248)-601-0606.

## **STORMWATER DISPLAY - RESERVE YOUR TIME SLOT TODAY**

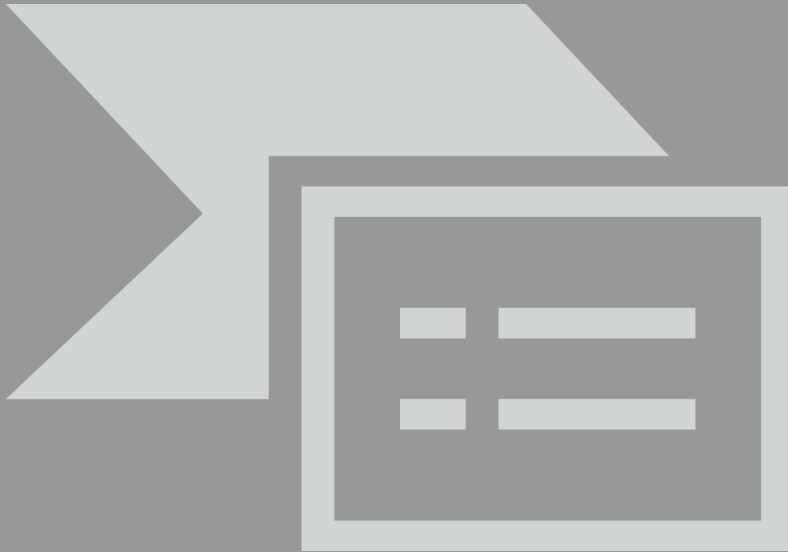
CRWC's Stormwater Education Display is available for registration. The display features multiple interchangeable velcro displays covering different topics such as:

- Green Infrastructure
- What is a Watershed
- Stormwater 101
- Household Hazardous Waste
- and many more...!

[Click HERE to book the display in your community](#)

You can also contact Michael Eovaldi directly by phone or email at 248-601-0606 or [michael@crwc.org](mailto:michael@crwc.org).





## TIP CARDS & DOG WASTE BAGS - REFILLS AVAILABLE!

CRWC provides educational materials for our communities to distribute to their residents. These include the SEMCOG tip card series as well as the 7 simple steps to clean water "bio-plastic" dog waste bags.

Do you need refills?  
[Click here to order more!](#)

**Clinton River Watershed Council**  
1115 W. Avon Rd. Rochester Hills, MI 48309

Contact Us  
Phone: 248.601.0606  
Email: [contact@crwc.org](mailto:contact@crwc.org)



STAY CONNECTED

