April 5, 2019

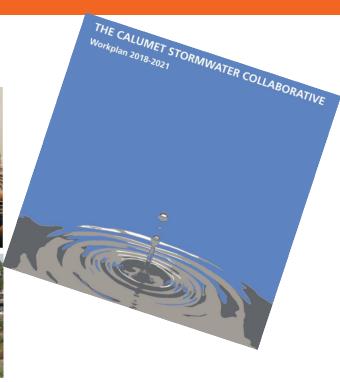
Municipal Outreach & Engagement Work Group Update

Calumet Stormwater Collaborative









Phase 1 Foundational Activities

Activity 1: Establish baseline of existing green infrastructure

Activity 2: Establish baseline of non-overbank flooding

Activity 3: Develop and begin to execute systems to provide relevant training and strengthen management systems to bolster green infrastructure implementation & maintenance

Activity 4: Establish baseline of municipal capacity in stormwater management

Baseline of municipal capacity in stormwater management?

- Document current baseline of Calumet municipalities' capacity to manage, plan and invest in stormwater solutions
 - In order for the CSC to strategically prioritize future activities, like sharedservices, where they have the greatest impact



Phase 1 Foundational Activities

Activity 1: Establish baseline of existing green infrastructure

Activity 2: **Establish** baseline of non-overbank flooding

Activity 3: Develop and begin to execute systems to provide relevant training and strengthen management systems to bolster green infrastructure implementation & maintenance

Activity 4: Establish baseline of municipal capacity in stormwater management

Baseline of non-overbank flooding?

- Document the extent of current urban flooding events and scale
 - In order for the CSC to strategically prioritize future activities, like green infrastructure investments & maintenance, where they are needed most





Leverage opportunity – collaborate with MWRD

- MWRD survey to Cook County municipalities
- Questions regarding urban flooding problems
- Questions regarding local capacity to respond



Metropolitan Water Reclamation District of Greater Chicago



Partnering for Resilient Communities





Introduction

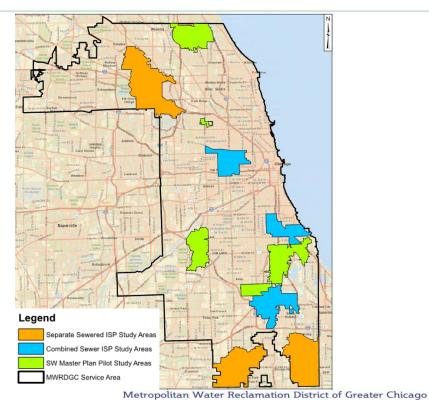
2019 Stormwater Master Planning

 Adds six new study areas, selected based on best available data.

2020 and 2021 Stormwater Master Plans

- Expected to add twelve new study areas.
- To be selected following prioritization of countywide questionnaire results (distributed March 2019).

Ultimately, complete picture of Riverine and Urban flooding problems and reduction opportunities, countywide.



ST RMWATER
MASTER PLANNING



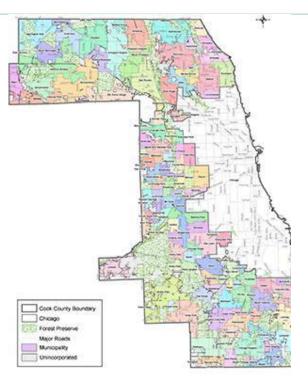
Questionnaire for Municipal Staff

Purpose:

- Collect data to inform the study area definition and prioritization process across Cook County.
- In our specific study area, results used to inform the Individual Study Profile and ultimately the SMP.

Distributed this March

- Questionnaires sent to Village / City Administrators and Township contacts
- Distribution via e-mail and U.S. Mail







Questionnaire for Municipal Staff

Data sought in the questionnaire includes:

- Location, frequency and severity of flood problems
- Whether flooding and flood solutions are an important need in the community
- Other top community needs
- If planning or engineering efforts have already been made to address stormwater issues





Questionnaire for Municipal Staff

Two-Part Questionnaire:

- Part 1: General Questions
 - Online www.surveymonkey.com/r/MWRD-1
 - Hard copy
- Part 2: Show flood locations on map
 - Online (interactive map tool) www.tinyurl.com/MWRD-map
 - Hard copy



Municipal Staff Survey on Urban Flooding
March 2019







Questionnaire for Municipal Staff Online Tutorial: Part 1

SurveyMonkey.com/r/MWRD-1



MWRD Urban Flooding Survey for Municipal Staff

Part 1, Page 3

3. Has your municipality been impacted by urban flooding?





No







tinyurl.com/MWRD-map redirects to AWS

Stormwater Master Planning Program: Partnerships for Resilient Communities

Part 2 of the Municipal Staff Questionnaire: Locations of Urban Flooding

Directions: For each location of urban flooding, please (1) answer the questions below, (2) draw a boundary around the corresponding area using the interactive map below, (3) click "Save", and (4) return to this form and repeat the process for each location that experiences urban flooding in your municipality.

This survey is for municipal staff use only and not for the general public.

For tech help, contact developer

Important!Once you click "save" you will not see the data that you submitted or have access to edit the data. Please keep track of your submissions so you don't duplicate or omit any locations of flooring.

If you have questions about the data you submitted need to edit the data, or if you have technical difficulties with this application, please contact Urban GIS:

Shaun Langley, GIS Developer, 312-666-7581 ext.5624, sl@urbangis.com or Brad Lindgren, GIS Developer, 312-666-7581 ext.5613, bl@urbangis.com

If you have questions about the MWRD's program for Stormwater Master Planning or need other assistance, please contact MWRD: Richard Fisher, Senior Civil Engineer, 312-751-5479, FisherR@mwrd.org or Brian Wawczak, Senior Civil Engineer, 312-751-5836, WawczakB@mwrd.org.

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t of Greater Chicago



		_
Name:		
Title:		
Municipality/Gov Entity:		
Email:		
Phone (10 digit number):		\neg \Box

Enter your information as respondent, in case we have questions about the data





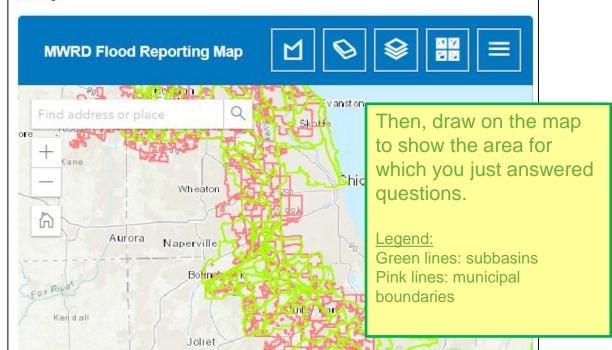
1. Enter New Urban Flood Location Information

2. What type of flooding occurs at this location? Check all tha Basement flooding of homes or businesses First floor/main floor flooding of homes or businesses Roadway flooding that prevents access by emergency vehicles (i.e. hospitals, fire stations, police departments, pump houses, etc) Other:	community.	
3. How often does this area flood?		T
4. How would you classify the severity of flooding in this area 5. If known, how many buildings suffer interior flood damage a Single Family Homes 0	rict of Greater Chi	



2. Draw Location of Urban Flooding

Select the Draw tool (icon furthest to the left). Click once to start drawing, and continue clicking to draw a polygon (shape) on the map that defines the approximate limits of the urban flood problem area. Double click to conclude drawing. If you make a mistake while drawing, click the Draw tool again to re-start your drawing..

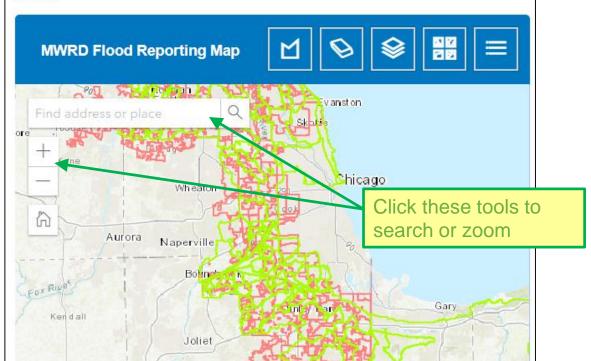


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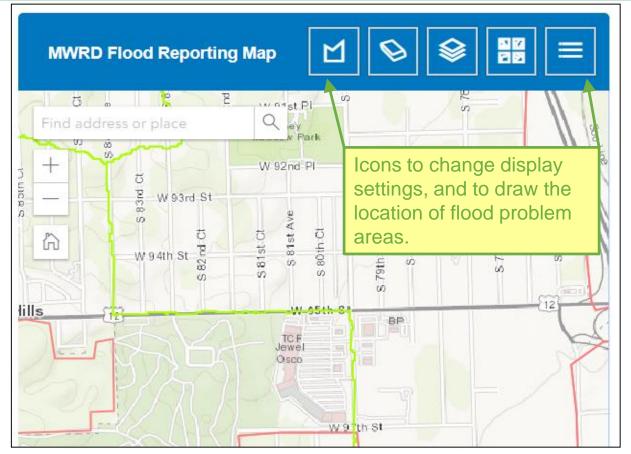
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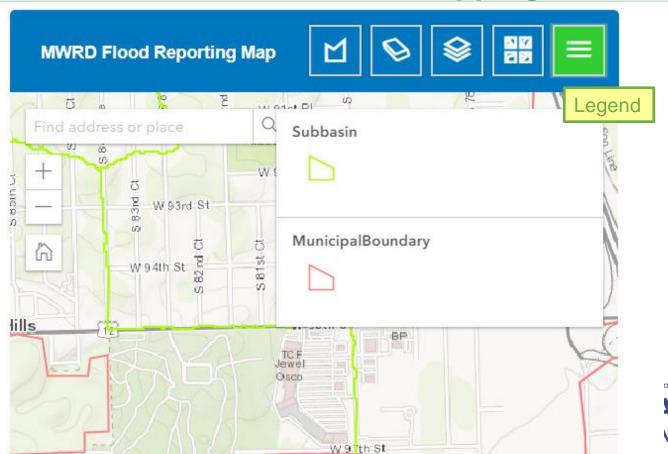






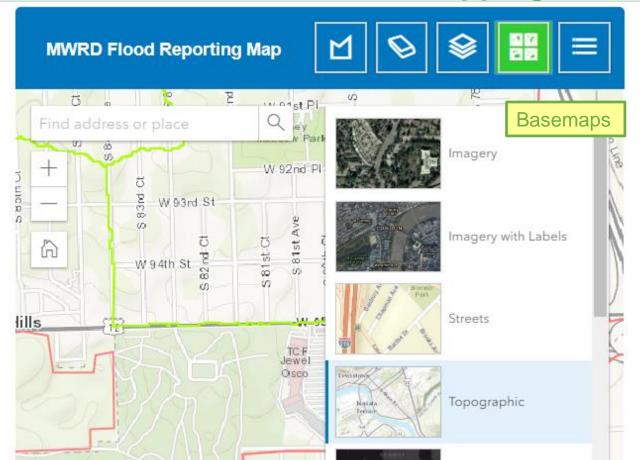






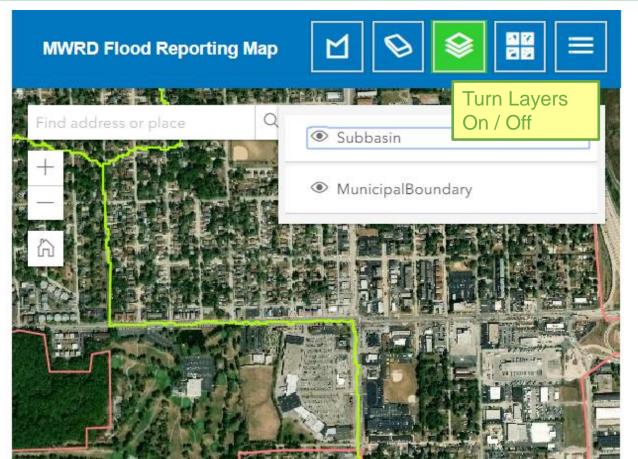






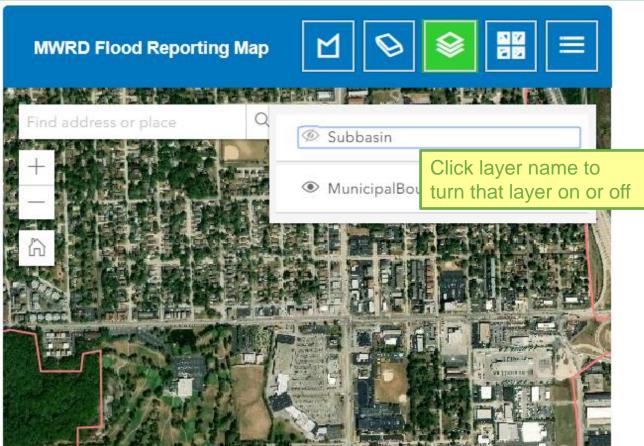






















MWRD Flood Reporting Map











Using the mouse, single click for each vertex of the polygon.

Double click to close (finish) the shape.

If you make a mistake, click the eraser (right of the polygon icon) or re-click the polygon icon to start over.









3. Complete Form

Add this information to the map.



When finished drawing the problem area, scroll to the bottom of the page.

Click "Save" to submit the problem area.







Success

Thank you for successfully submitting an urban flood problem area. To enter another location of flooding: click "Close," wait for the application to re-load, and enter your next area. If you are finished, click "Close" 3. Com and exit the web browser. Thank you for participating!

Add this inform

Save

After receiving the "Success" message, click "close" and the page will automatically reload.

To enter another location of urban flooding problems, repeat this process.

Close





Questions?

Richard Fisher, P.E., CFM
Senior Civil Engineer

MWRD

111 E. Erie Street

Chicago, IL 60643

FisherR@mwrd.org

(312) 751-5479

Brian Wawczak, P.E.
Senior Civil Engineer
MWRD
111 E. Erie Street
Chicago, IL 60643
WawczakB@mwrd.org
(312) 751-5836



Ways CSC Member Agencies can drive survey responses from Calumet communities

- 1. Reach to your contacts in the Calumet
 - 1. Heads-up about MWRD survey dropping
 - 2. Do they need help completing?
- 2. Volunteer to help once we hear from MWRD which communities have not responded to the survey (or request help completing)
- 3. Attend an upcoming Watershed Planning Council meeting
- 4. Other???