Metropolitan Water Reclamation District of Greater Chicago

Welcome to the April Edition of the 2024 M&R Seminar Series

NOTES FOR SEMINAR ATTENDEES

- Remote attendees' audio lines have been muted to minimize background noise. For attendees in the auditorium, please silence your phones.
- A question and answer session will follow the presentation.
- For remote attendees, please use the "**Chat**" feature to ask a question via text to "**Host.**" For attendees in the auditorium, please raise your hand and wait for the microphone to ask a verbal question.
- The presentation slides will be posted on the MWRD website after the seminar.
- This seminar is pending approval by the ISPE for one PDH and pending approval by the IEPA for one TCH. Certificates will only be issued to participants who attend the entire presentation.

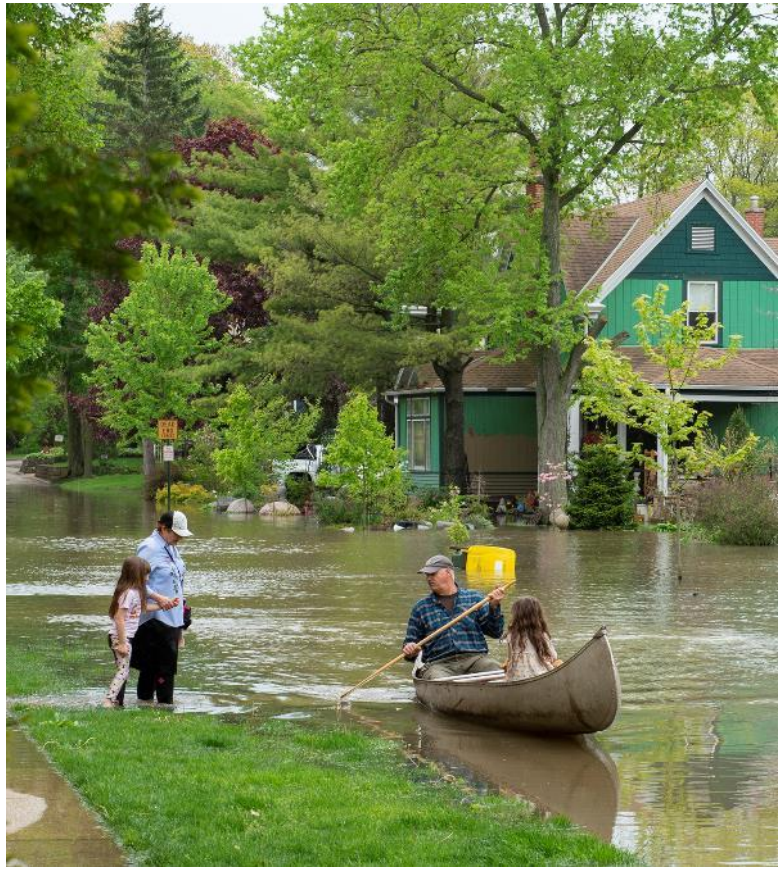
Joseph R. Kratzer, P.E., CFM

Managing Civil Engineer
Stormwater Management Section, Engineering Department
MWRDGC

Joe Kratzer has been with the Metropolitan Water Reclamation District of Greater Chicago since 2003, and is the Managing Civil Engineer for the Stormwater Management Section.

Joe has a Bachelor of Science in Civil Engineering from Purdue University in West Lafayette, Indiana. He is a Certified Floodplain Manager and a member of the Illinois Association of Floodplain and Stormwater Managers. Prior to joining the District in 2003, Joe worked as a consulting engineer for seven years.

20 Years of Stormwater Management



Metropolitan Water Reclamation District of Greater Chicago

20 Years of Stormwater Management

Monitoring and Research Department Seminar Series

April 26, 2024

Agenda - 20 Years of Stormwater Management

Overall Stormwater Program Timeline – Joe Kratzer

Regional Flood Control and Streambank Stabilization Projects – Justin Kirk

Green Infrastructure – Holly Sauter

Local Stormwater Partnerships – Dylan Cooney

Stormwater Master Planning – Rich Fisher

Phase I (Regional) DWP Projects

Identified from the DWPs to address overbank flooding “riverine flooding”

Phase II (Local) Projects and Green Infrastructure Plan

Partnering with local communities and agencies to address local drainage problems.

Stormwater Master Planning

Investigate “urban flooding” issues and evaluate potential green and gray infrastructure solutions.

The authority for general supervision of stormwater management in Cook County was conveyed to the District by the Illinois State legislature.

MWRD Adopted Cook County Stormwater Management Plan

Detail Watershed Plans (DWPs) completed for the 6 major watersheds of Cook County

District’s authority amended to allow for flood-prone property acquisition and to plan, implement, finance, and operate local stormwater management projects.

Initiated Five Master Plan Pilot Studies
Green Infrastructure Plan Adopted

Develop new Volumetric Approach to Stormwater Planning

Stormwater Program Statutory Background – Public Act 93-1049

PA 93-1049 Enacted By Illinois General Assembly in 2004

- Two key objectives of the Stormwater Program
  - **Capital Improvement Program to address existing flooding concerns**
  - **Comprehensive stormwater regulations to prevent future development and redevelopment projects do not exacerbate flood damages**
- The Act required the District to prepare and adopt by ordinance a countywide stormwater management plan (“CCSMP”)

CCSMP Adopted February 15, 2007

- Established program mission to **Plan, Implement and Finance Regional Stormwater Management Activities**
- Defined Stormwater program structure, regulatory concepts, Detailed Watershed Planning (DWP) methodology, and Maintenance

Public Act 093-1049

SB2196 Enrolled LRB093 15617 MKM 41224 b

“An Act concerning stormwater management”

Be it enacted by the People of the State of Illinois, represented in the General Assembly:

Section 5. The Property Tax Code is amended by changing Section 18-185 as follows:

(35 ILCS 200/18-185)

Sec. 18-185. Short title; definitions. This Division 5 may be cited as the Property Tax Extension Limitation Law. As used in this Division 5:

"Consumer Price Index" means the Consumer Price Index for All Urban Consumers for all items published by the United States Department of Labor.

"Extension limitation" means (a) the lesser of 5% or the percentage increase in the Consumer Price Index during the 12-month calendar year preceding the levy year or (b) the rate of increase approved by voters under Section 18-205.

"Affected county" means a county of 3,000,000 or more inhabitants or a county contiguous to a county of 3,000,000 or more inhabitants.

"Taxing district" has the same meaning provided in Section

Stormwater Program Background

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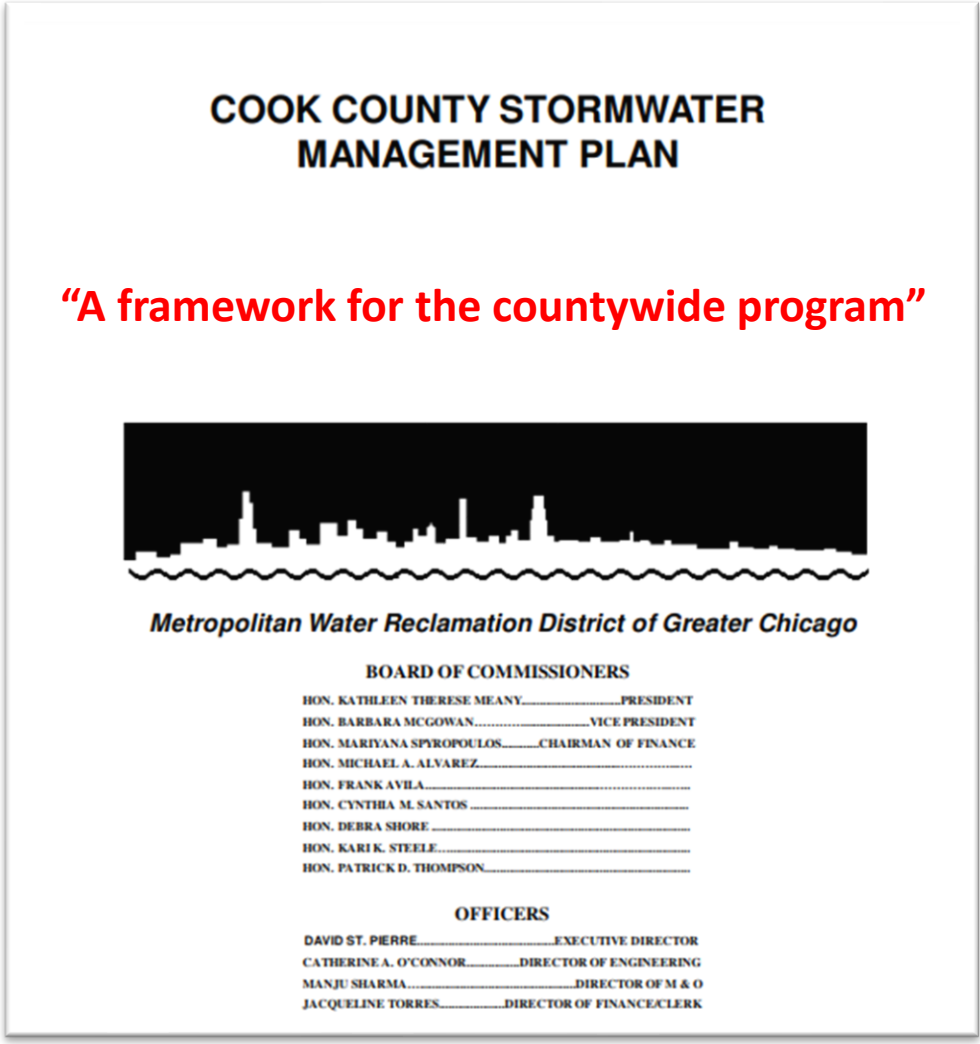

COOK COUNTY STORMWATER MANAGEMENT PLAN

“A framework for the countywide program”

Metropolitan Water Reclamation District of Greater Chicago

BOARD OF COMMISSIONERS

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HON. BARBARA MCGOWAN.....VICE PRESIDENT
HON. MARIYANA SPYROPOULOS.....CHAIRMAN OF FINANCE
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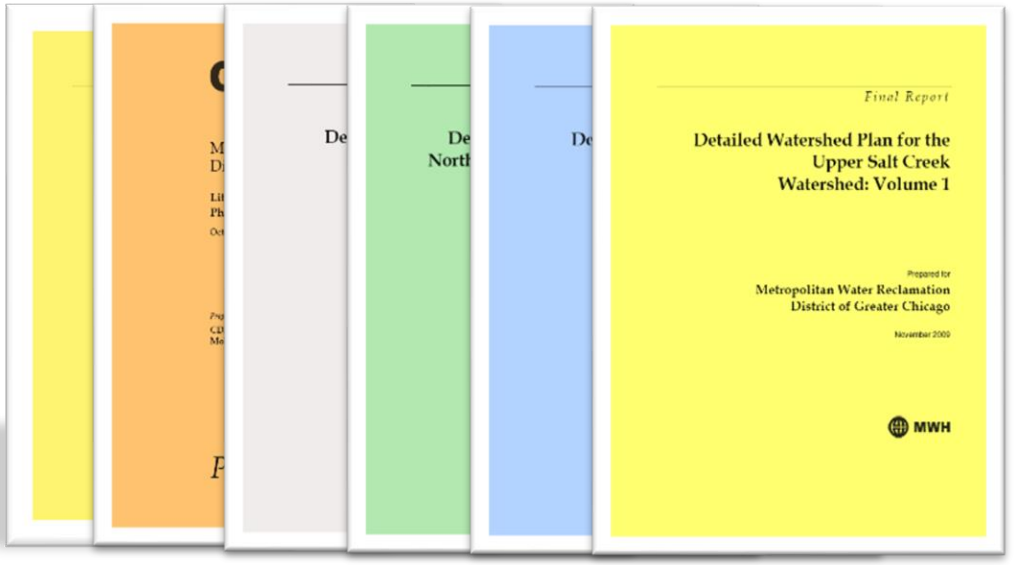
Detailed Watershed Plans (DWPs) and Early Projects

Development of DWPs for each of the 6 major watersheds

Purpose:

- Identify stormwater related problems in a watershed
- Develop alternative solutions to address regional flooding and erosion problems
- Evaluate the alternatives to determine those that are most effective in addressing the watershed's needs



Early projects included Streambank Stabilization and Regional Flood Control Projects

- Following completion of DWPs, over 30 regional projects recommended for implementation
- CCSMP also provided for implementation of projects previously identified by the US Army Corps, IL DNR, or similar agencies

Heritage Park Flood Control Facility

Stormwater Management Phase II Development – “and LOCAL”

After a devastating storm event on April 18, 2013, the District took action to expand its program

Stormwater Management Phase II Development – “and LOCAL”

Expansion of the Stormwater Program required amendment to the District’s Legislative Authority and the CCSMP

- Board of Commissioner’s authorized the implementation of Phase II of the Stormwater program to allow the District to assist local communities with flooding issues
- In 2013 and 2014, the District performed extensive outreach to communities, soliciting over 600 problem areas and/or requests for assistance with projects
- Projects prioritized and assistance provided in the form of funding, engineering, or both.
- CCSMP was amended July 10, 2014 to formally add authority to assist communities to address both region and “local” stormwater problems, and establish a flood-prone property acquisition program

On June 18, 2014, then Governor Pat Quinn signed HB 3912 into law, becoming Public Act 98-0652

Green Infrastructure Adoption

In 2014, the District entered a Consent Decree with the USEPA that required implementation of a Green Infrastructure Plan.

The District was required to implement GI projects that provided 10 million gallons in retention capacity by 2029.

In less than a decade over 100 green infrastructure projects have been completed throughout Cook County with the ability to capture more than 15 million gallons of stormwater per rain event.

MWRD is committed to promoting the benefits of Green Infrastructure to encourage its use.

GI can provide opportunities for community enhancements

MWRD has worked with numerous entities to share and gain knowledge on the design, installation, and maintenance of GI

Stormwater Call for Projects - Visit mwrd.org/stormwater/partnerships

Local governments and public agencies can apply to become partners on stormwater projects.

Green Infrastructure (GI) Partnership Program

MWRD provides funding to build GI projects.

Stormwater Partnership Program (SPP)

MWRD provides funding to build stormwater management projects that are in design or shovel-ready.

Flood-Prone Property Acquisition (FPPA) Program

MWRD provides funding to acquire flood-prone properties on a voluntary basis.

Conceptual Projects

MWRD provides technical assistance to study your flooding problem and design a solution.

Metropolitan Water Reclamation District of Greater Chicago

Regional Flood Control and Streambank Stabilization

Monitoring and Research Department Seminar Series

April 26, 2024

Regional Flood Control and Streambank Stabilization

Regional Flood Control Projects

- 24 projects to date
- 945 acre-feet of storage added
- >4,000 structures protected
- $353M in total construction cost

Streambank Stabilization Projects

- 13 projects completed to date
- 9.3 miles of streambank restored
- >150 structures protected
- $37M in total construction costs

Contract 13-370-3F, Buffalo Creek Reservoir Expansion

Location

Lake County, Illinois

Description

- Partnership with Lake County Forest Preserve District and the Village of Buffalo Grove to expand an existing flood control reservoir by 180 acre-feet.
- Project provides flood protection to 107 structures.
- Scope of work involved mass excavation, prairie and streambank restoration, over 2 miles of new trails and construction of 7 timber boardwalks.

Construction Cost

$9,678,900.00

Status

- Project substantially completed in 2020. Currently in year 5/5 of post-construction monitoring and management period.

Contract 11-186-3F, Addison Creek Reservoir

Location

Village of Bellwood

Description

- 600-acre-foot reservoir which includes a control structure, inlet structure, spillway, and pumping station.
- In conjunction with Addison Creek Channel Improvements, the project will reduce flooding to 2,200 properties.

Construction Cost

$81,304,221

Status

- Construction completed in April 2024.

Contract 11-187-3F, Addison Creek Channel Improvements

Location

Villages of Bellwood, Broadview, Melrose Park, Northlake, Stone Park, and Westchester

Description

- Project includes a mix of natural design, gabion baskets, soldier pile walls, concrete, riprap, articulated concrete blocks, vegetation clearing, and removal of three bridges.
- Project improvements will reduce flooding to 2,200 properties along Addison Creek.

Construction Cost

$77,307,780

Status

- Construction started in late 2023. Substantial completion is projected in August 2025.

Contract 12-056-5F, Flood Control Project on Prairie Creek

Location

City of Park Ridge and Maine Township

Description

- Project includes conveyance improvements including new bridges and culverts, expansion of an existing detention pond, construction of a new diversion sewer, and streambank stabilization along Prairie Creek.
- Project will reduce flooding to over 100 properties.

Estimated Construction Cost

$17,000,000.00

Status

- IGAs being negotiated with the City of Park Ridge and Maine Township. Coordination with Lutheran General Hospital ongoing.
- Construction expected to begin in early 2025

Contract 18-249-AF, Central Park Stormwater Detention Basin and Separate Storm Sewer Improvements in Harvey

Location
City of Harvey

Description
- Construction of a 23-acre-foot stormwater detention basin in the combined sewer area.
- New storm sewer discharging to Wood Street storm sewer with low-flow connection to the existing combined system.
- 209 structures benefitted during a 100-year storm event.

Estimated Construction Cost
$9,848,774

Status
- Project currently in final design
- FEMA's BRIC Program selected this project as having met the basic eligibility requirements for a $5M grant and the project will enter the next phase of the awards review process.
- Construction scheduled to begin in Summer 2025.

Green Infrastructure

Monitoring and Research Department Seminar Series

April 26, 2024

Green Infrastructure Call For Projects

Process

Pre-Applications: due on December 31 of every year

Full Applications: due 6 weeks after opening

Review period

Recommendations submitted to the Board

Kick-offs/IGA process

Design and IGA done by December 31

Construction window the following year

Post-Installation

Maintenance inspections are required

Staff inspections are completed

Typical life of a GI project is roughly 25 years

Tinley Park permeable street

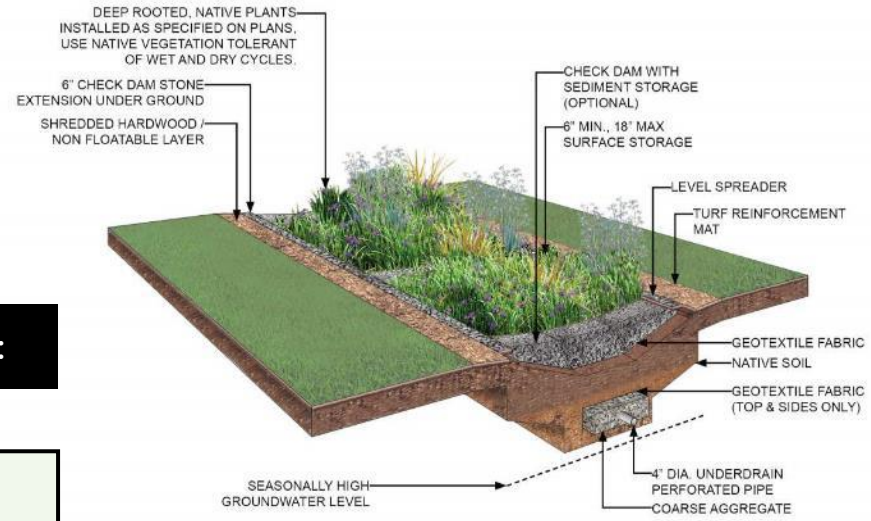
Green Alleys

Rain Gardens

Green Roof at Racine Avenue Pumping Station

Green Planner Guide at a Glance

EACH BMP SECTION WILL PROVIDE YOU WITH:



Application and Benefits

- Various land use scenarios
- Co-benefits
- Triple bottom line

Design Guidance

- Important considerations
- Opportunities
- Regulatory guidance
- Standard details

Construction & Maintenance

- Pre-construction meeting items
- Performance indicators

Cost Considerations

- Breakdown of variable and unit costs
- Cost benefits
- Potential cost offsets

This Guide Includes:

- ✓ Plant Lists
- ✓ Construction Checklists
- ✓ Inspection Checklists
- ✓ Cost breakdowns

Tentative Release Summer 2024

Green Guides

Green Neighbor Guide

Step-by-step instructions on how to manage stormwater on residential properties

Covers rain barrels, rain gardens, permeable pavement, and dry wells

Available for download at:
https://tinyurl.com/d9f8s4af

Space to Grow

Before

After

Wadsworth STEM

Woodlawn Community, Chicago

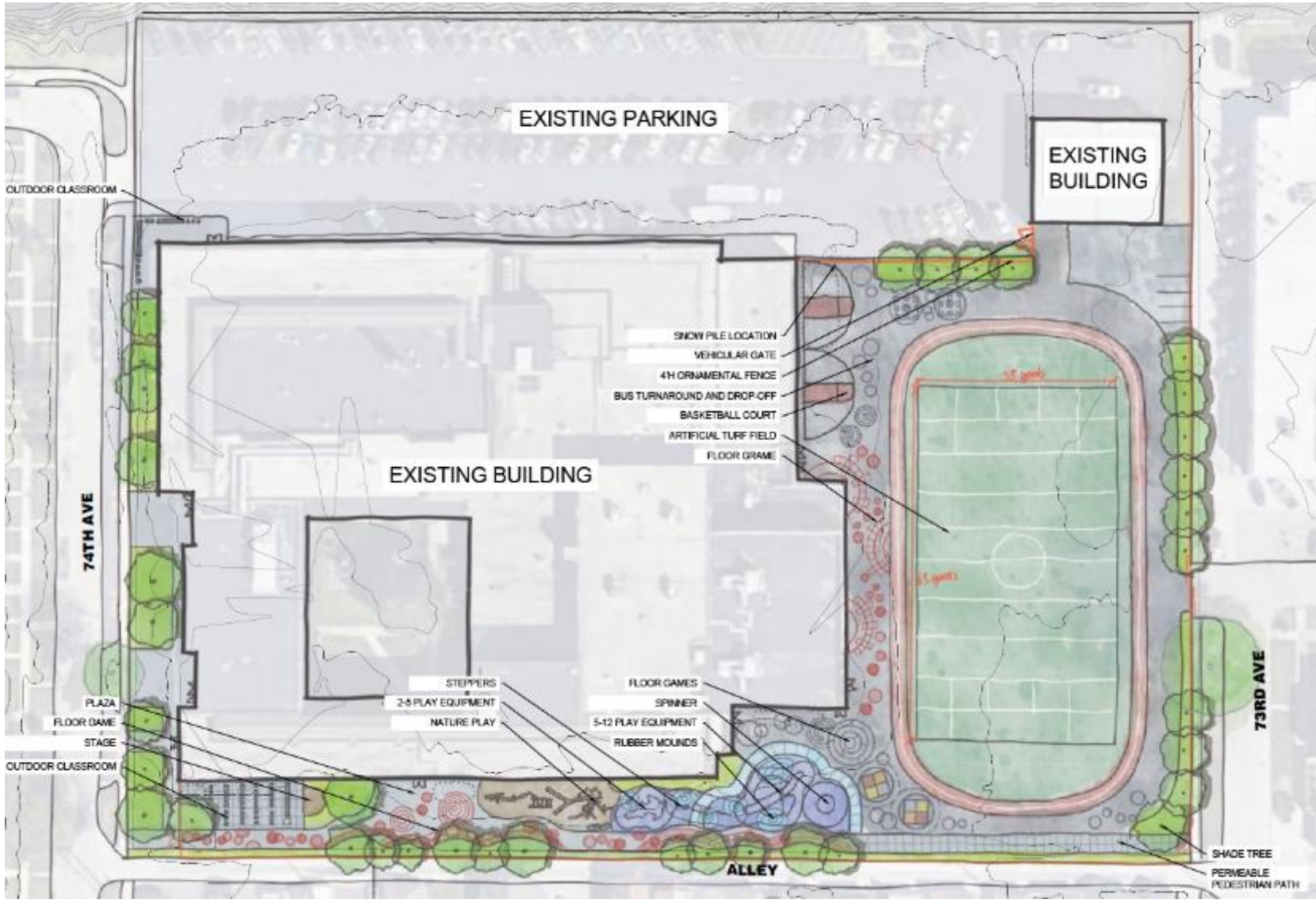
Suburban Green Schoolyards

Locations

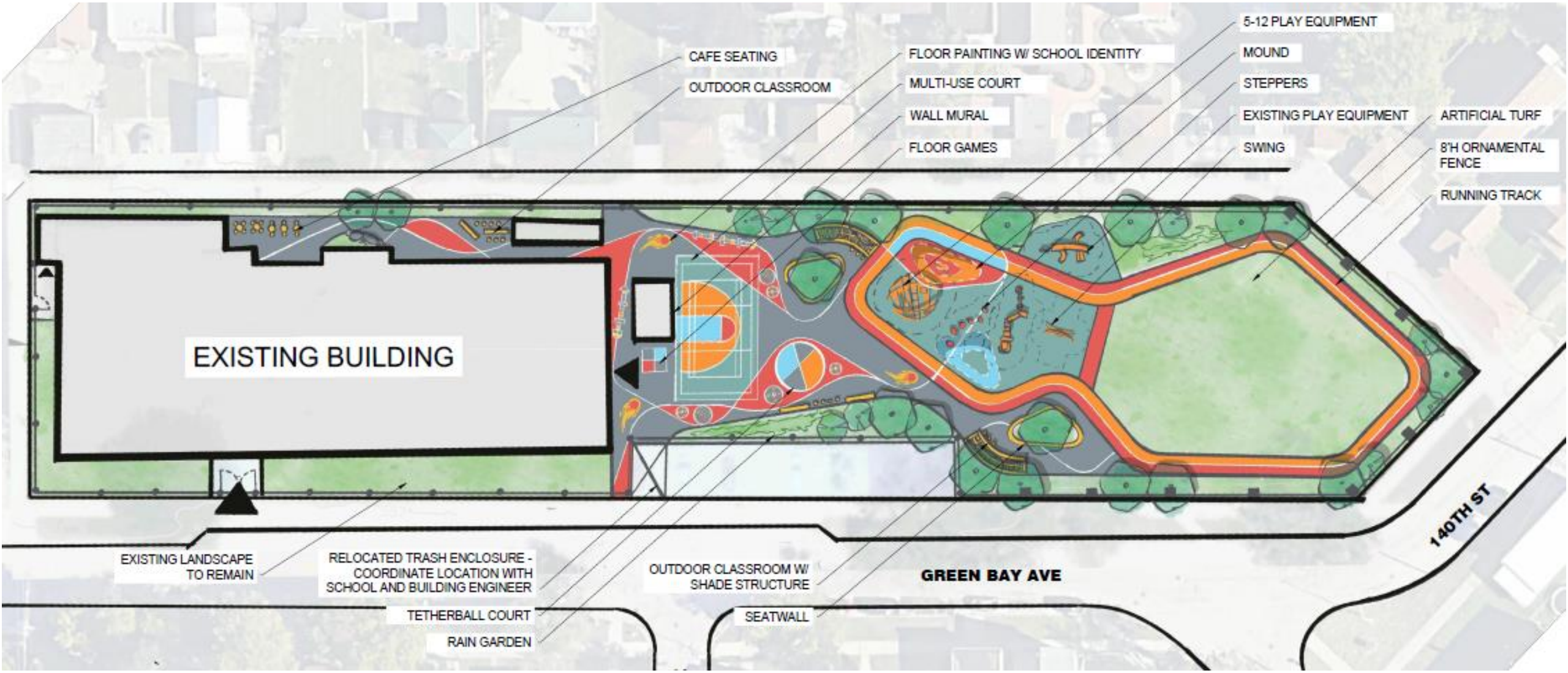
Franklin Park, Cicero, Summit, Burnham

Status

- Design for elementary schools beyond 30%.
- Design for high schools is underway, 30% expected early summer.
- Final Design for all are anticipated Fall 2024.
- Funding still being sought.
- Construction expected Spring/ Summer 2025.
- IGAs will be needed executed.



Suburban Green Schoolyards

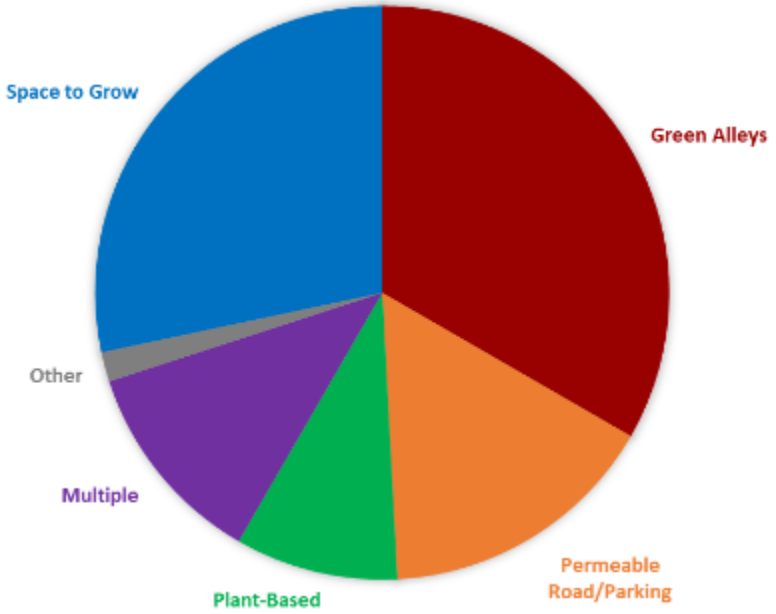


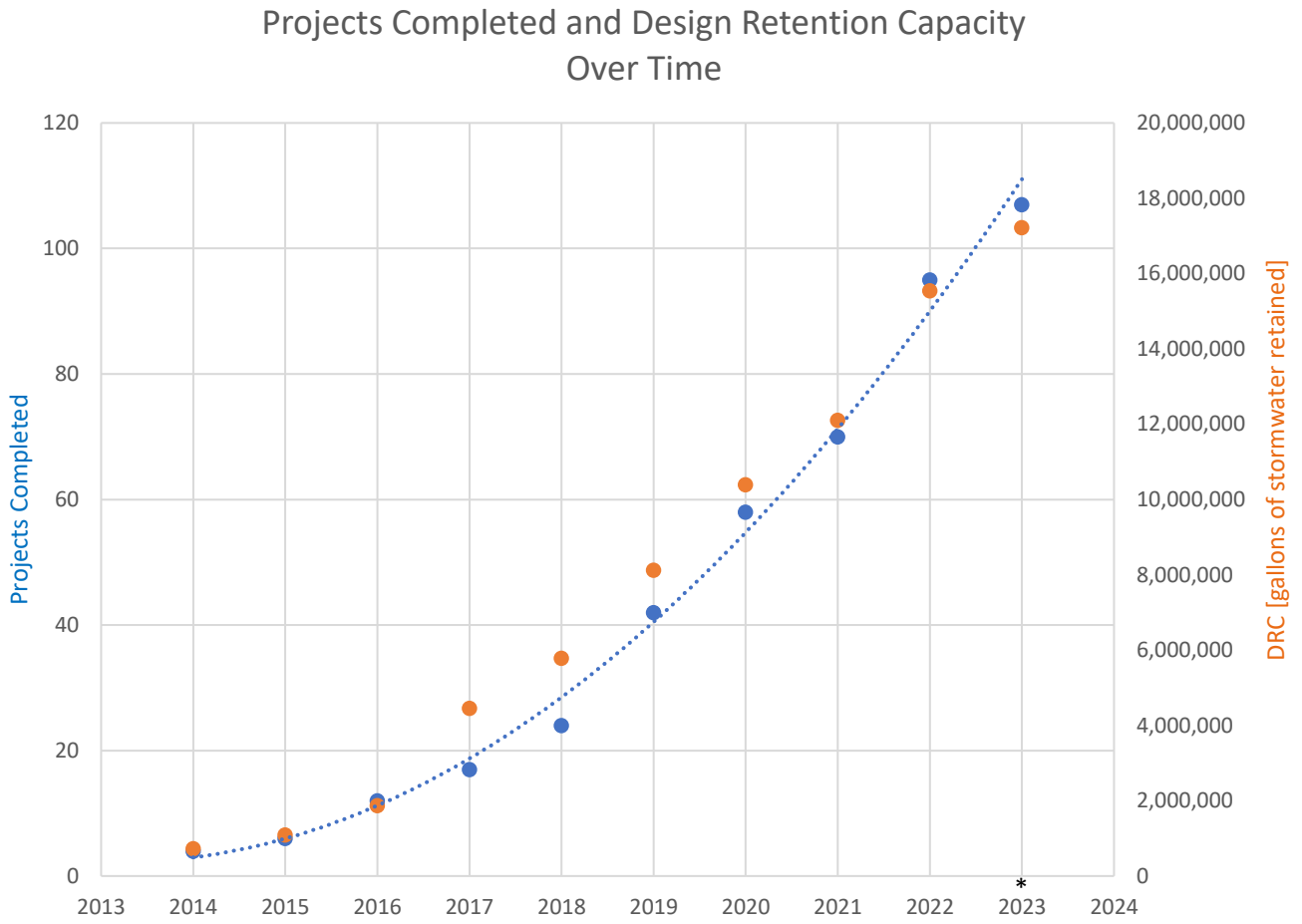
GI by the Numbers

Number of Projects

- Completed: 107
- Ongoing (to be completed in 2024): 15

Types of Projects





Metropolitan Water Reclamation District of Greater Chicago

Local Stormwater Partnerships

Monitoring and Research Department Seminar Series

April 26, 2024

Local Stormwater Partnership

The Local Stormwater Partnership Program encompasses:

Conceptual Projects

Stormwater Partnership

Voluntary Flood-Prone Property Acquisition

Conceptual Projects

About the program

Municipalities apply to MWRD for possible technical assistance in the form of preliminary engineering to investigate Stormwater problems and identify potential alternatives.

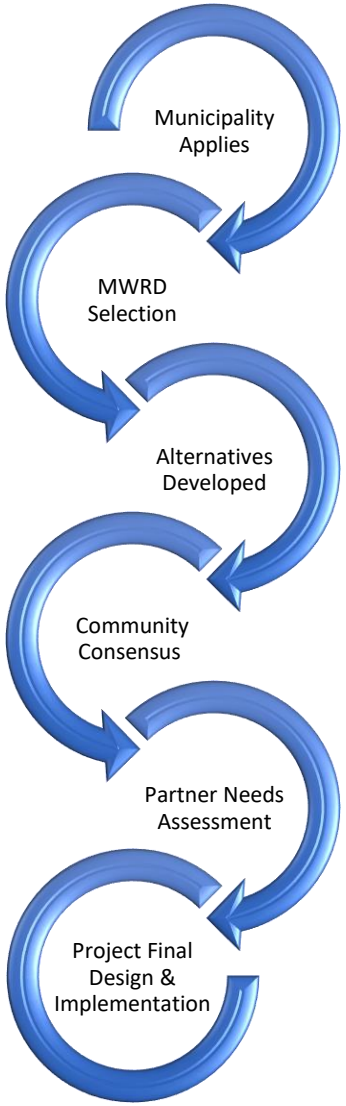
How Does MWRD Provide Assistance?

Selected conceptual project partners work with the MWRD to develop up to 30 percent design plans on an agreed-upon solution.

After finalizing the 30 percent design plans, the partner and MWRD assess the best path to move the project into final design.

Future IGA Partnership

Depending on the outlook of project implementation at the 30 percent design milestone, partners may enter into an intergovernmental agreement (IGA) with the MWRD in order to complete the project.



14-253-5F, Robbins
Flood Control Project on Midlothian Creek

Location:

Village of Robbins

Lead Agency:

MWRDGC

Description:

To address flooding along Midlothian Creek in Robbins:

- Naturalized detention facility along the creek and a diversion channel to Cal-Sag Channel
- Channel improvements in the existing creek
- To reduce flood damages for over 92 structures

Project Status:

- Phase 1: Under construction, scheduled completion in Spring 2024
- Phase 2: Construction to begin Summer 2024

14-253-5F, Robbins
Flood Control Project on Midlothian Creek

Partnership Assistance Included:

- Land Acquisition
- Utility Coordination
- Permits and Easements
- Preliminary and Final Design
- Intergovernmental Agreements
  - CCLBA and Robbins
- Construction and Post Award
- Grant Applications

Project Costs:

- Phase 1: currently $11.1M
- Phase 2: estimated $20.0M

Conceptual to Partnership Project: Stony Creek, Oak Lawn

Conceptual Project: 18-250-5F, Stony Creek Flood Control Improvements

- Background: Multiple rainfall events caused damages to over 140 homes in a 1-square mile area tributary to Stony Creek, and the Village incurred significant expenses in flood responses.

- District performed preliminary engineering to evaluate flooding problems in Oak Lawn tributary to Stony Creek, evaluated a number of alternatives, and recommended a project to the Village for consideration

- 7 alternatives developed and reviewed by the Village for:
  - Number of benefiting structures
  - Project Cost
  - Volume of storage provided

Conceptual to Partnership Project: Stony Creek, Oak Lawn

Partnership Project: 23-IGA-11, Stormwater Storage at Community High School District 218 Administration Sports Field and Storm Sewer Improvements in Oak Lawn

- After preliminary engineering identified a feasible project to advance, the Village of Oak Lawn is now advancing it into final design and will manage construction.
- Through an Intergovernmental Agreement, the District will contribute towards the construction cost
- Project stormwater improvements which include:
  - 27.5 acre-foot surface detention facility within the local high school district's ball fields and
  - upsizing approximately 6,600 linear feet of storm sewers that discharge to Stony Creek

Local Stormwater Partnership Program

About the program

- The District help local government organizations fund construction of stormwater infrastructure.
- Eligible projects include those that address flooding through a variety of traditional engineering solutions including localized detention, upsizing critical storm sewers and culverts, pumping stations, and establishing drainage ways.
- The District solicits applications and selects projects for partnerships. The selected partner is responsible for the project's design, contract advertisement and award, construction, and long-term maintenance.

More Info at: https://mwrd.org/stormwater/spp

Burning Bush (18-IGA-25) & Aspen Trails (20-IGA-31)

Location
Mount Prospect

Description
The Village of Mount Prospect constructed two stormwater storage areas to relieve flooding in a low-lying residential area located in the interior of the Levee 37 drainage area. (13.4 acre-feet)

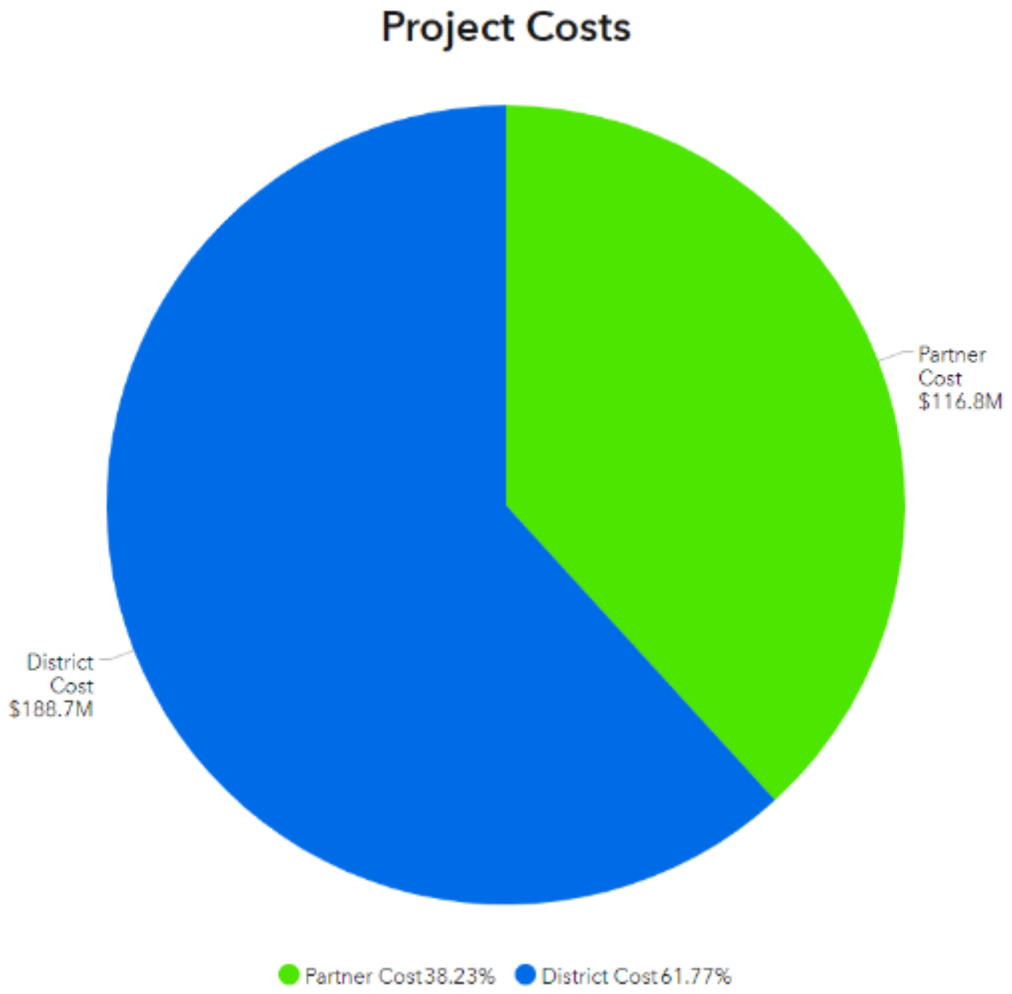
The Village of Mt. Prospect constructed approximately 17 acre-feet of underground flood storage and associated relief sewers at Aspen Trails Park.

Project Benefits
These projects removed 42 at-risk structures from the 10-year inundation area and provide flood reduction benefits to approximately 120 structures.

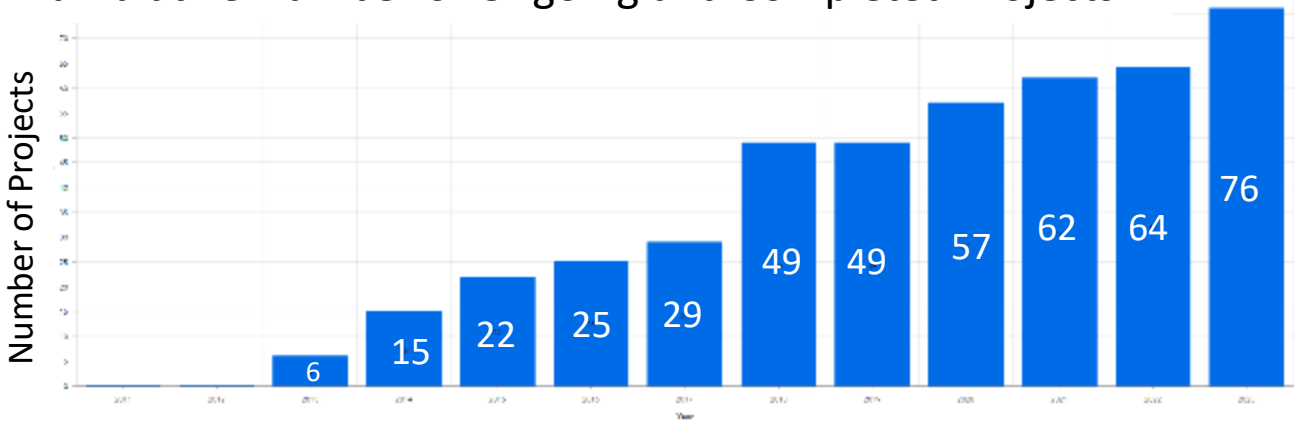
Burning Bush $1.30M/$4.30M
Aspen Trails $2.85M/$5.93M

Burning Bush (above), Aspen Trails (right)

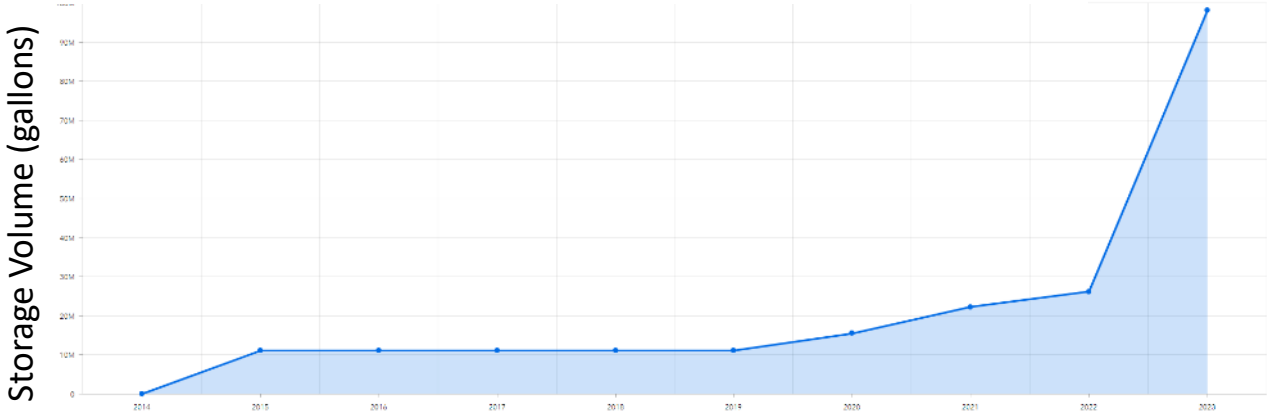
Local Stormwater Program's Cumulative Statistics



Cumulative Number of Ongoing and Completed Projects



Cumulative Storage Volume Created in Gallons



Year (2011 thru 2023)

Flood-Prone Property Acquisition (FPPA) Program

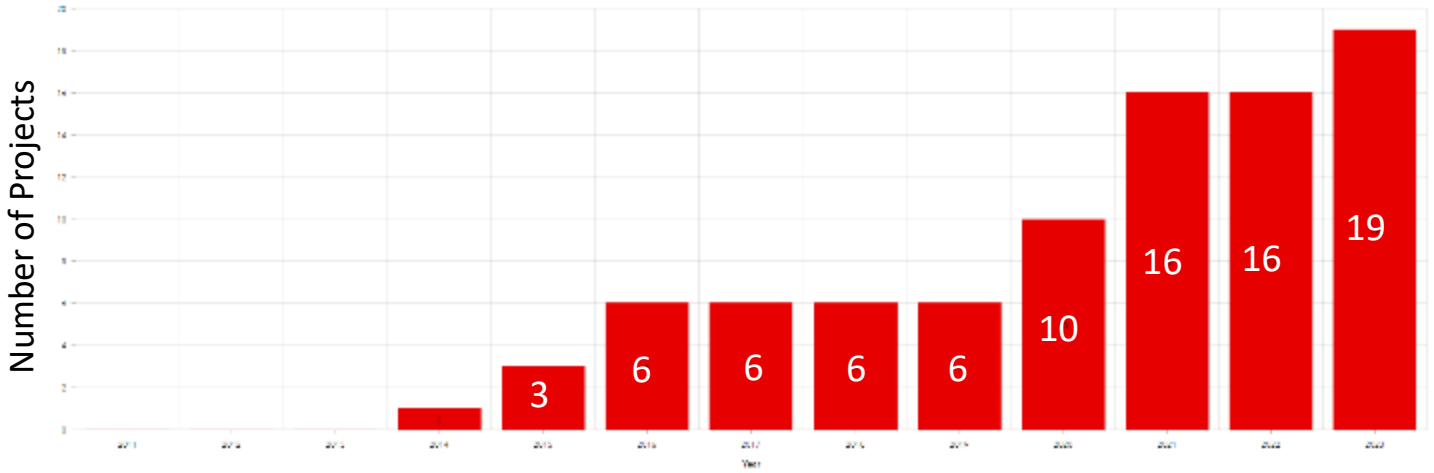
About the program

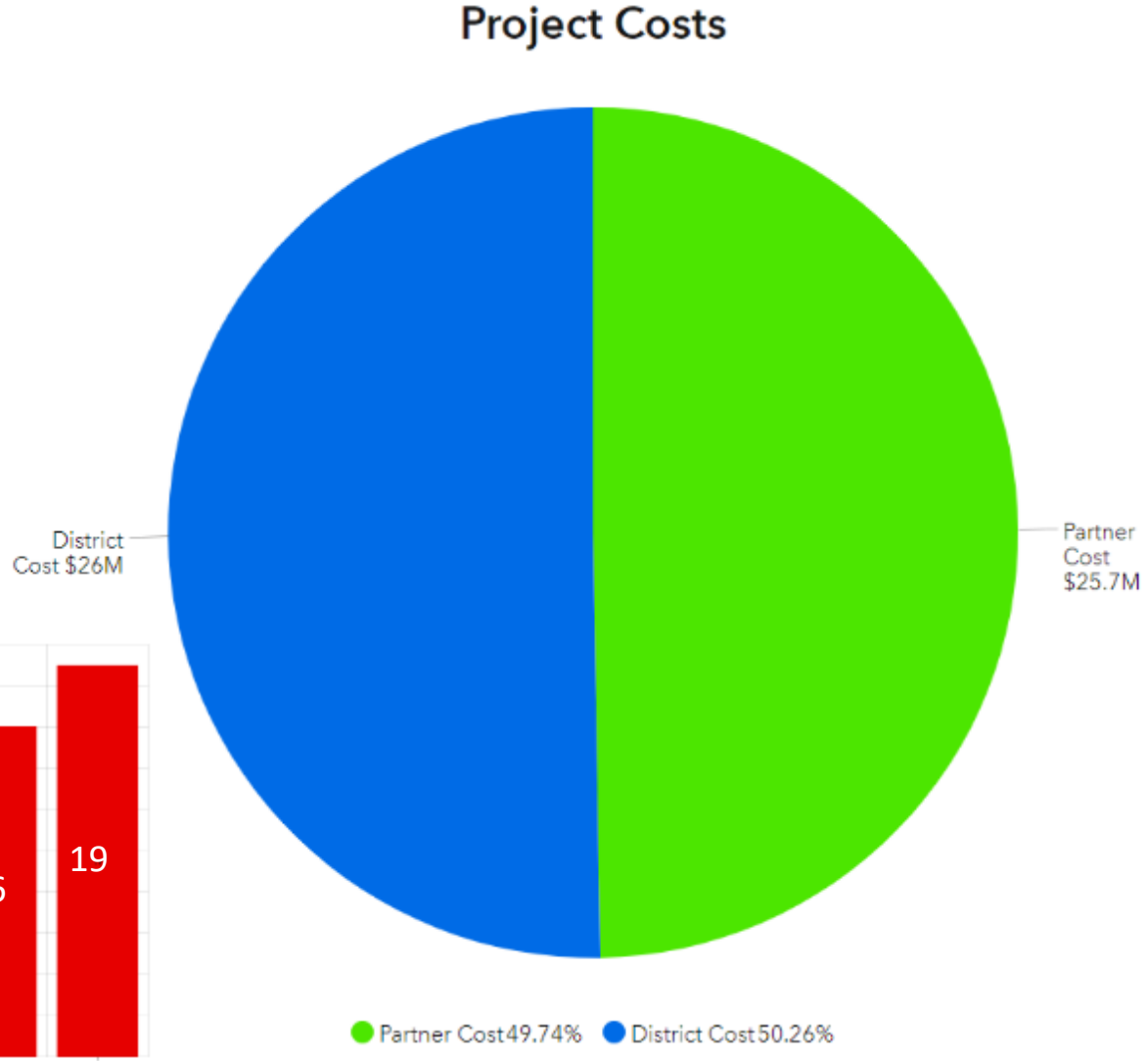
- The District helps local government organizations with funding for the voluntary acquisition of flood-prone properties.
- The FPPA program helps local municipalities acquire properties that sustain repetitive damage in flood-prone areas from willing sellers and restore the property to green space that can better manage stormwater.
- Selected partners are responsible for the overall acquisition and demolition of the flood-prone property, converting the parcel to permanent open space for public use, and long-term maintenance of the parcels.

FPPA Program Statistics

- Partnered with 13 different communities on 19 acquisition project
- Total Acquisition Cost $52 Million
- MWRD Contribution $26 Million

Cumulative Number of Ongoing and Completed Projects





Acquisition of Flood-Prone Properties in Lyons

Location

Southview Ave and Circle Dr
Village of Lyons

Description

Voluntary purchase of 26 flood-prone properties along Salt Creek

Estimated Acquisition Cost

$5,771,119

Status

- Multiple properties acquired
- Lyons continuing acquisition of remaining properties

Metropolitan Water Reclamation District of Greater Chicago

Stormwater Master Planning

Monitoring and Research Department Seminar Series

April 26, 2024

Empowering Municipalities

A regional authority providing guidance and county-wide (volumetric) planning

MWRD

Technical Expertise

Technical Resources

Funding

Requests for Assistance

Municipalities

Champion and manage stormwater projects

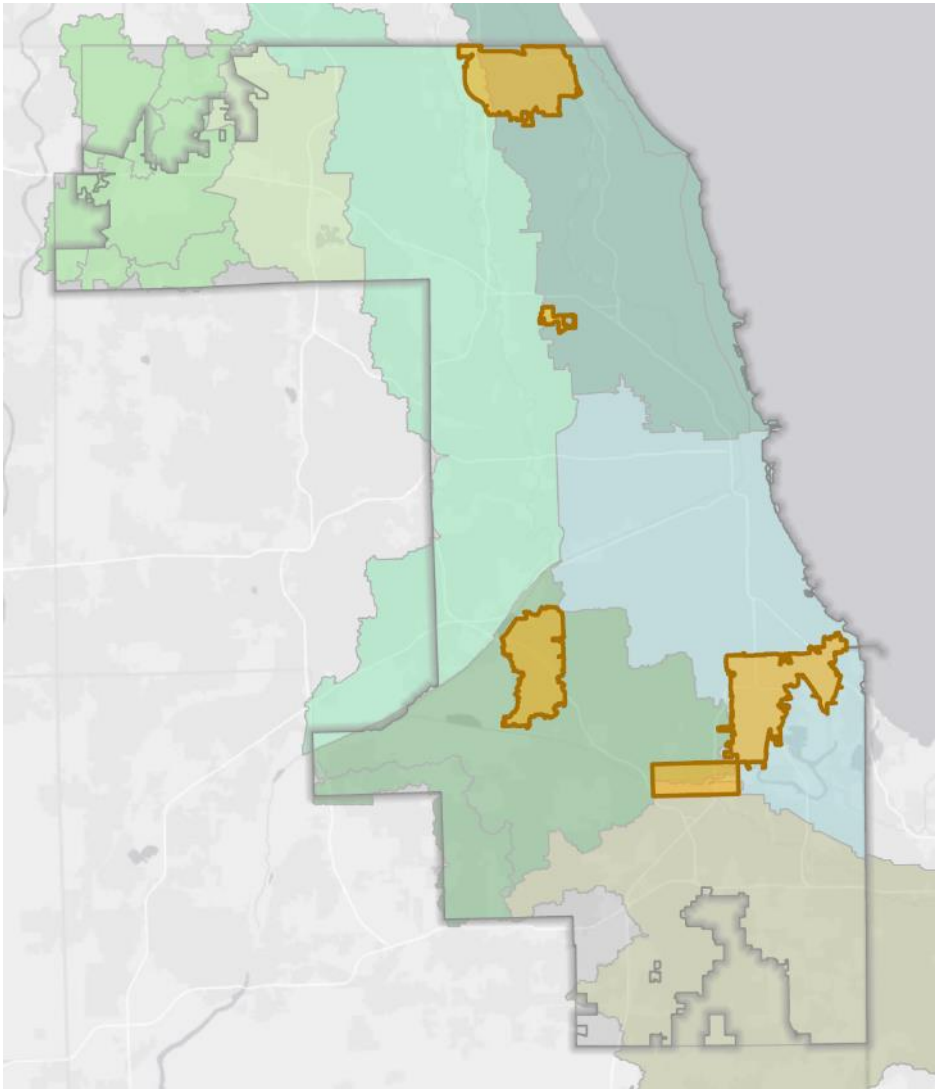
Responsible for prioritizing and developing strategies to address local flooding issues and problems.

District Stormwater Master Planning Evolution

Stormwater Master Planning
Investigate “urban flooding” issues and evaluate potential green and gray infrastructure solutions.

2015 2016 2017 2018 2019 2020 2021 2022 2023

Five Master Plan Pilot Studies



Magnitude of the Problem

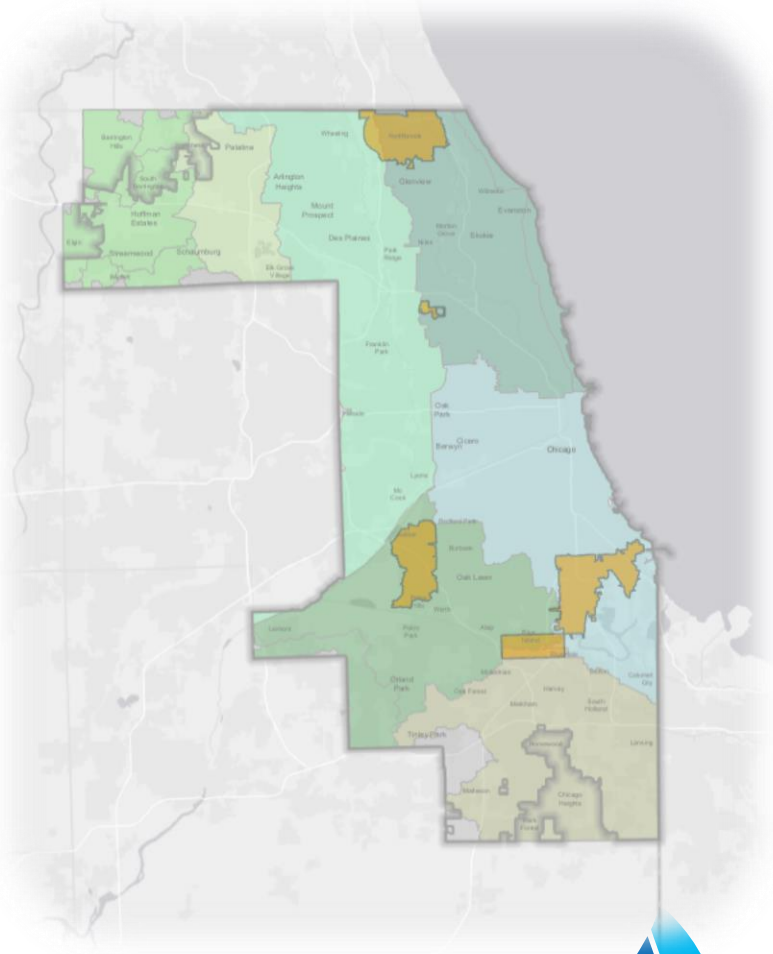
From Initial 5 Pilot Studies, projected Countywide to address Urban Flooding = $70 Billion

Panama Canal $9.4 Billion

Chunnel $36 Billion

International Space Station $60 Billion

Moon Landing $144 Billion



District Stormwater Master Planning Evolution

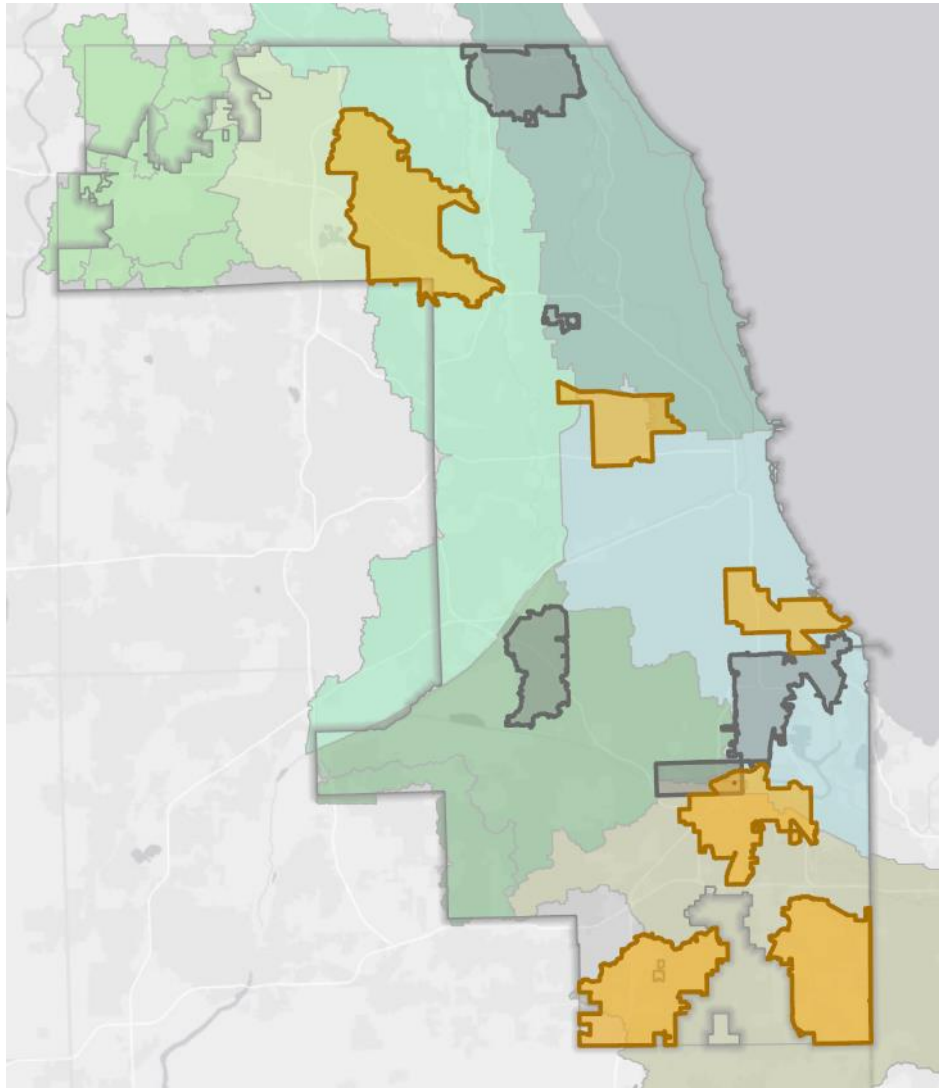
Stormwater Master Planning
Investigate “urban flooding” issues and evaluate potential green and gray infrastructure solutions.

Six Stormwater Master Planning projects: Butterfield, North Creek/Deer, Willow/Weller, South Suburban, Chicago West and Chicago South

2015 2016 2017 2018 2019 2020 2021 2022 2023

Five Master Plan Pilot Studies

- Patchwork approach
- Plans become dated quickly and not adaptive/responsive to changing conditions

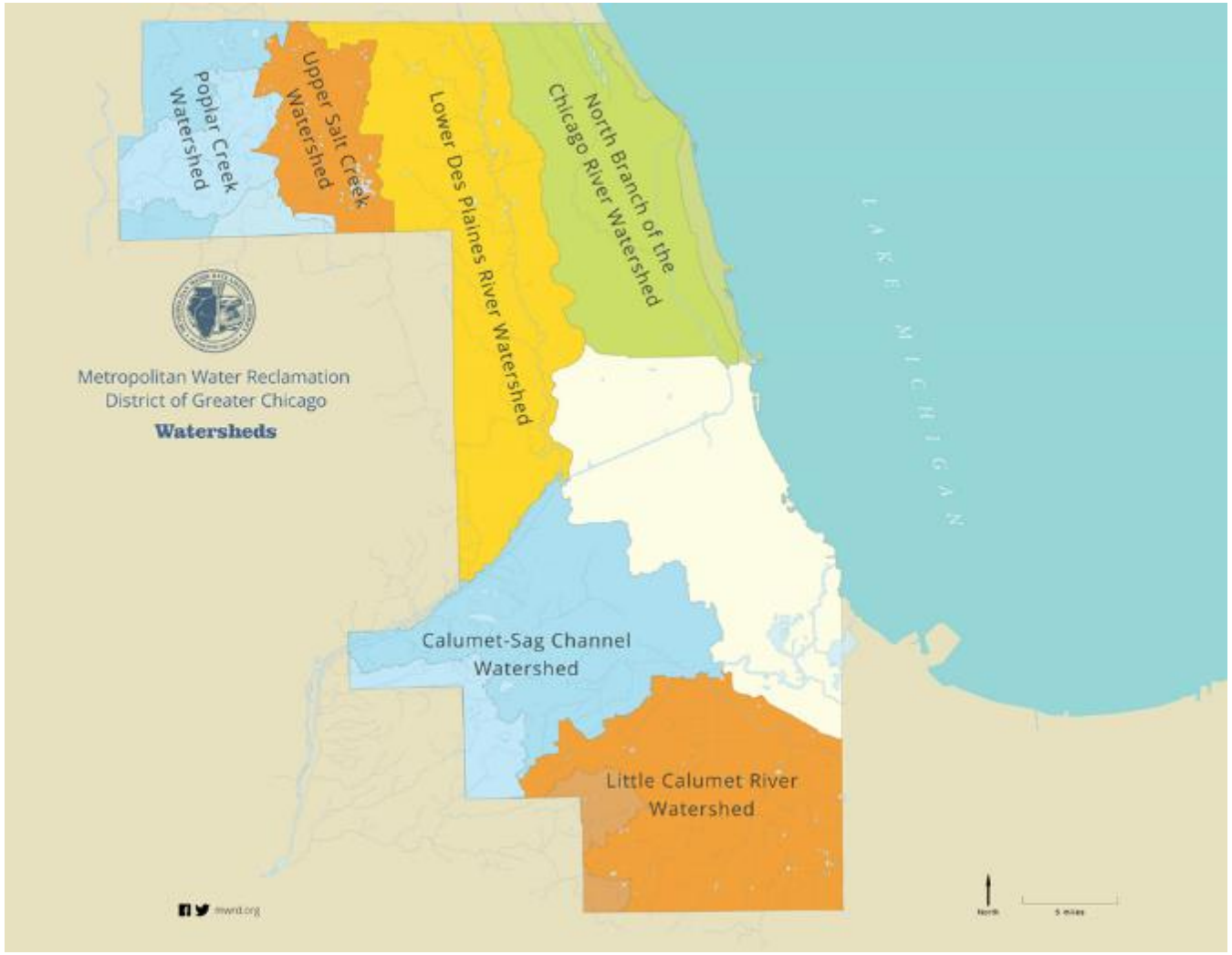


How are flooding issues solved?

Conveyance

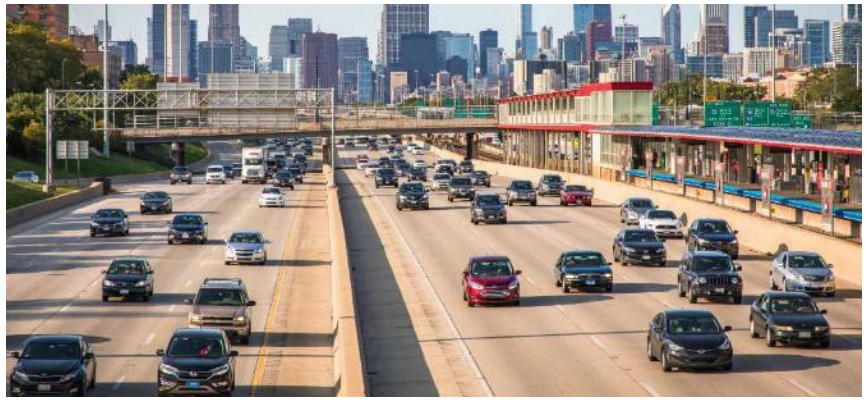
Storage

Adaptability



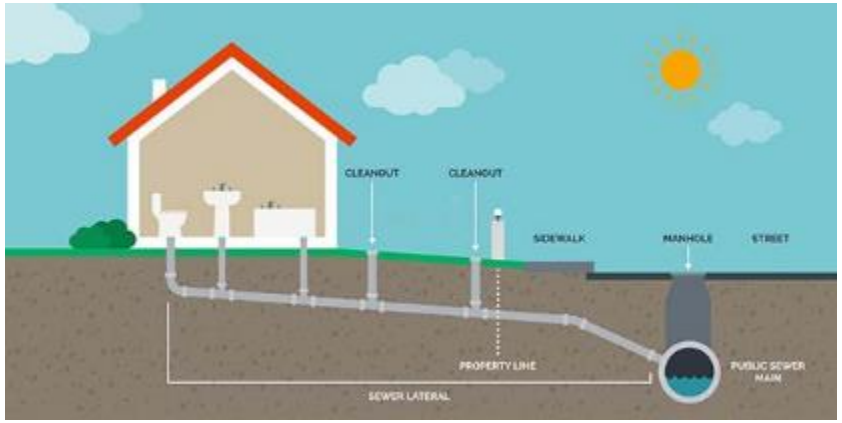
Competing Priorities

Roads



Potable Water

Sanitary Sewer



Guidelines for a County Wide Plan

- Intuitive
- Timely
  - Time to develop
  - Up-to-date and relevant at point in time of need
  - A tool to quickly provide decision makers necessary guidance
- Able to track progress
- Cost Effective
- Adaptable-easily accepts more/new information to improve clarity

District Stormwater Master Planning Evolution

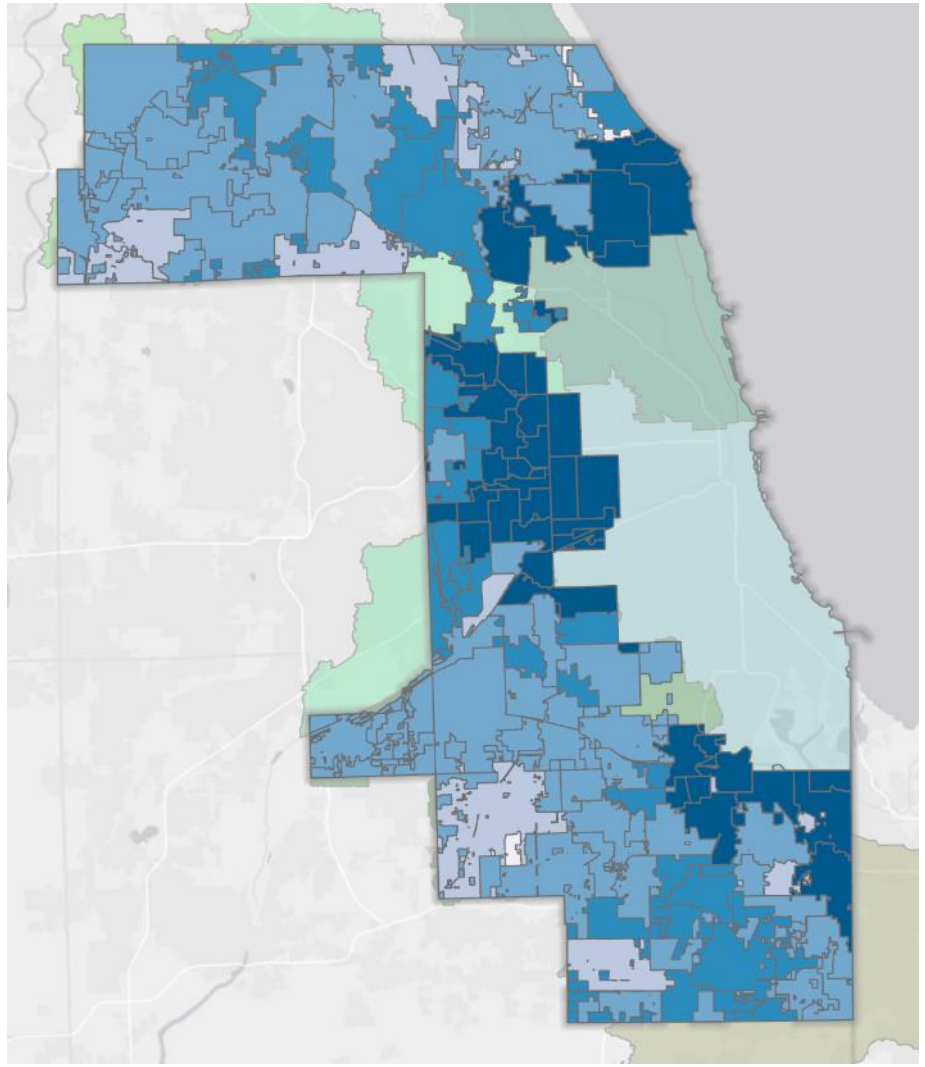
Stormwater Master Planning
Investigate “urban flooding” issues and evaluate potential green and gray infrastructure solutions.

Six Stormwater Master Planning projects: Butterfield, North Creek/Deer, Willow/Weller, South Suburban, Chicago West and Chicago South

2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

Five Master Plan Pilot Studies

Stormwater Master Planning GIS Portal



- A GIS Portal to host all master planning data
- Continually updated, current and relevant
- Provide tools (web apps, storymaps, desktop references)
- Data will be used for Stormwater Partnership Program

Use a volume-based approach to increase the city's capacity to manage stormwater

- **Strategy 1** Establish stormwater storage goals

	Level of Service (Storm Recurrence Interval)				
	5-year	**10-year**	**25-year**	**50-year**	**100-year**
Rainfall Total (in)[a]	2.49	2.99	3.74	4.35	4.97
Stormwater Storage Targets (ac-ft)[b]	7.5	15.2	27.9	39.0	50.7
Estimated Cost (in 2023 dollars)	$2,997,000	$6,083,000	$11,163,000	$15,581,000	$20,263,000
Timeline	To achieve within 5 years	To achieve within 10 years			

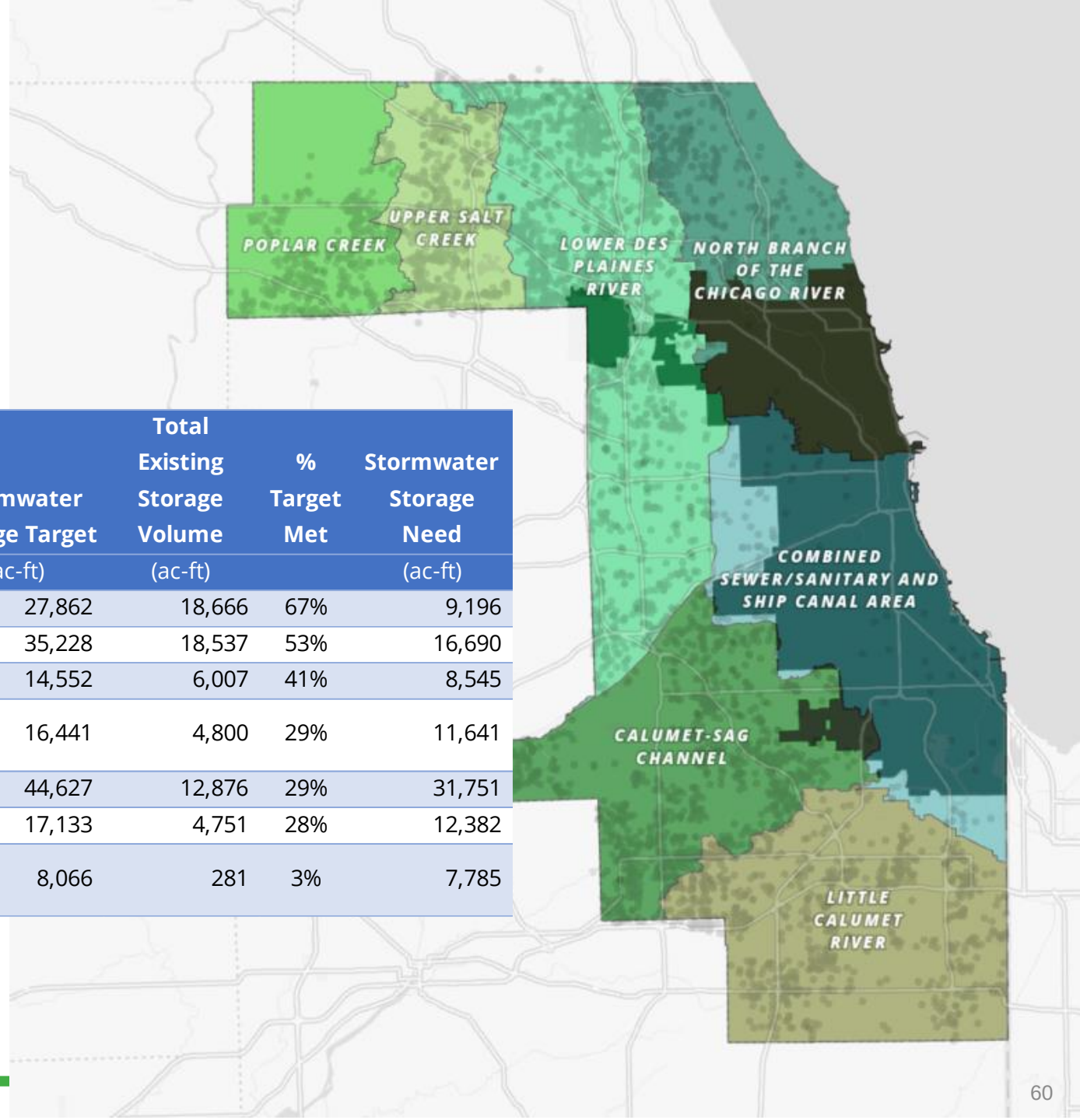
a. Rainfall total for a 2-hour duration storms (Illinois State Water Survey Bulletin 75).
b. Storage targets are calculated for a 2-hour duration storm with a given recurrence interval.

Stormwater Project Opportunity Areas

- Green Alley
- Vacant Parcel Basin
- ROW Rain Garden
- ROW Permeable Parking Lane
- Permeable Parking Lot
- Memorial Park Basin
- Future Development
- Study Area

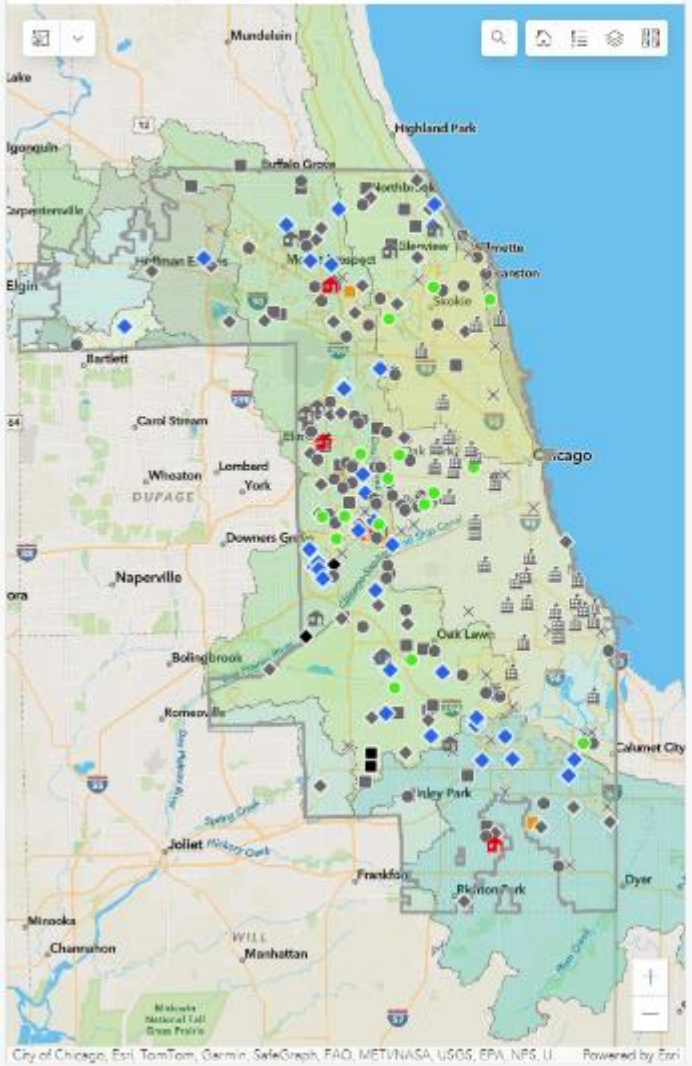
Volumetric Analysis by Watershed

Planning Watershed	Watershed Area (sq mi)	Volumetric Analysis Area (sq mi)		Impervious Area	Stormwater Storage Target (ac-ft)	Total Existing Storage Volume (ac-ft)	% Target Met	Stormwater Storage Need (ac-ft)
Calumet-Sag Channel	151.2	143.0	95%	37%	27,862	18,666	67%	9,196
Little Calumet River	159.5	159.5	100%	37%	35,228	18,537	53%	16,690
Upper Salt Creek	58.4	58.4	100%	40%	14,552	6,007	41%	8,545
North Branch of the Chicago River	141.3	76.5	54%	42%	16,441	4,800	29%	11,641
Lower Des Plaines River	189.5	174.4	92%	49%	44,627	12,876	29%	31,751
Poplar Creek	85.3	85.3	100%	27%	17,133	4,751	28%	12,382
Combined Sewer/Sanitary and Ship Canal Area	172.6	31.5	18%	57%	8,066	281	3%	7,785



Add a filter: | Program: select one or multiple | Municipality: select one or multiple | Watershed: select one or multiple | Township: select one or multiple | Completion Date: select a range | Status: select one or multiple

Stormwater Project Map



1 of 50

09-365-5F – Heritage Park Flood Control Facility

Status: Complete — Link to e-Builder

Regional Stormwater The project includes construction of stormwater storage facilities to provide compensatory storage for Levee 37, a U.S. Army Corps of Engineers project, and various recreational amenities. The stormwater facility components include reservoir excavation and installation of necessary appurtenances for operation of the facility, such as spillways, piping, and a pump station. This is a MWRD-led project.

Partner(s): Wheeling, Wheeling Park Dist

Benefits:

Storage in gal (ac-ft)	Benefiting Structures
49,200,000 (150.99)	600

Location:

Municipality	Political Township	Watershed
Wheeling	WHEELING	Lower Des Plaines River

State House District	State Senate District	Congressional District	Chicago Ward
59	30	10	

Personnel:

Project Manager	Resident Engineer
Joseph Kratzer	Ryan Davis
Consultant	**Prime Contractor**
	FH Paschen/Lake County Grading JV

Costs:

Construction/Acquisition	District Contribution
$28,681,537.91	$28,681,537.91

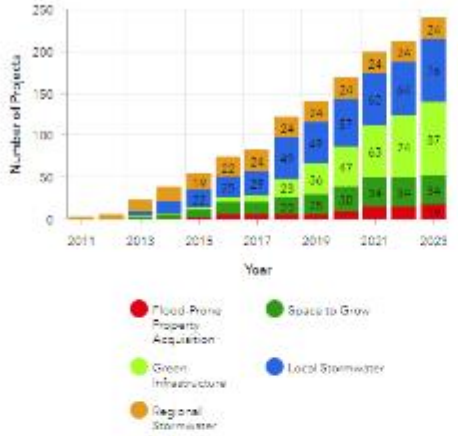
Phase:

Under Development	Design Contract Negotiation	Design Contract Awarded
Preliminary Design	Final Design	Construction Contract Awarded
Construction	Substantially Complete	Contract Closeout

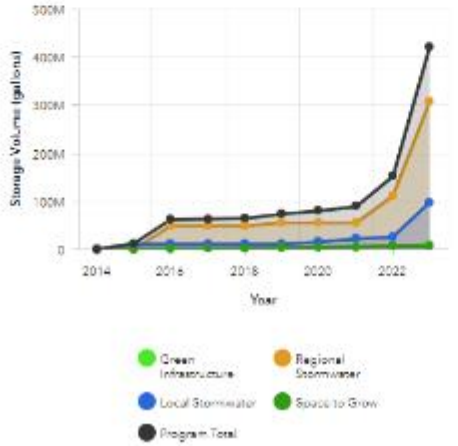
Milestone Dates:

Project Start	4/18/2012
Preliminary Design	
Final Design	
Advertise	

Cumulative Number of Ongoing and Completed Projects



Cumulative Storage Volume Created in Gallons



Number of Projects

240

Storage Created

480M

gallons

Structures Benefited

19k

Project Costs

Stormwater Program to-date (nearly 500mGal of storage created)

Program Component	Current Number of Projects	Structures Protected / Removed	Construction / Acquisition Cost ($Millions)	MWRD Cost ($Millions)
Regional Stormwater Projects	24	4,142	$353	$272
Local Stormwater Partnerships	76	>11,000	$306	$189
Green Infrastructure Projects	121*	3,583	$124	$46
Flood Prone Property Acquisitions	19	177	$52	$26
Totals	240	>18,000	$835	$533

*Includes all 34 Space to Grow projects completed through 2022.