

# 2020 Municipal Inflow and Infiltration (I/I) Grant Program

**Matt Gsellmeier** | Manager, Budget & Analysis

**Jeannine Clancy** | Assistant General Manager, Wastewater Planning & Capital Project Delivery

**Marcus Bush, PE** | Principal Engineer, Wastewater Planning & Community Programs

**Information Session | January 27, 2021**



# Agenda

## Welcome

Jeannine Clancy

## About Metropolitan Council's I/I Program

Marcus Bush

## 2020 Municipal I/I Grant Program Overview

Matt Gsellmeier

## Discussion/Questions





# Welcome!



**Jeannine Clancy**

Assistant General Manager,  
Wastewater Planning &  
Capital Project Delivery



**Marcus Bush**

Principal Engineer,  
Wastewater Planning &  
Community Programs



**Matt Gsellmeier**

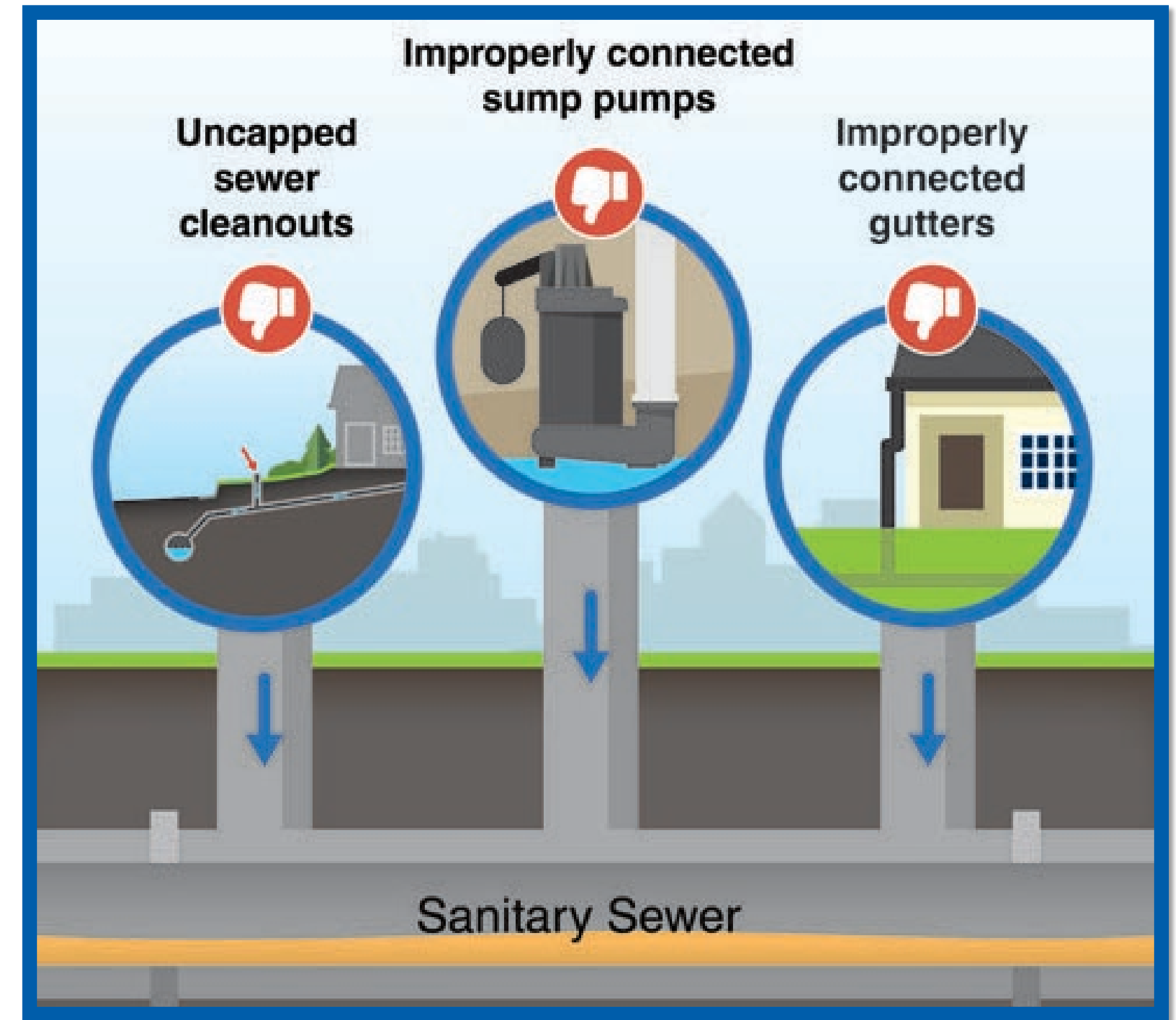
Manager,  
Budget & Analysis

# About Metropolitan Council's I/I Program



# A clear issue

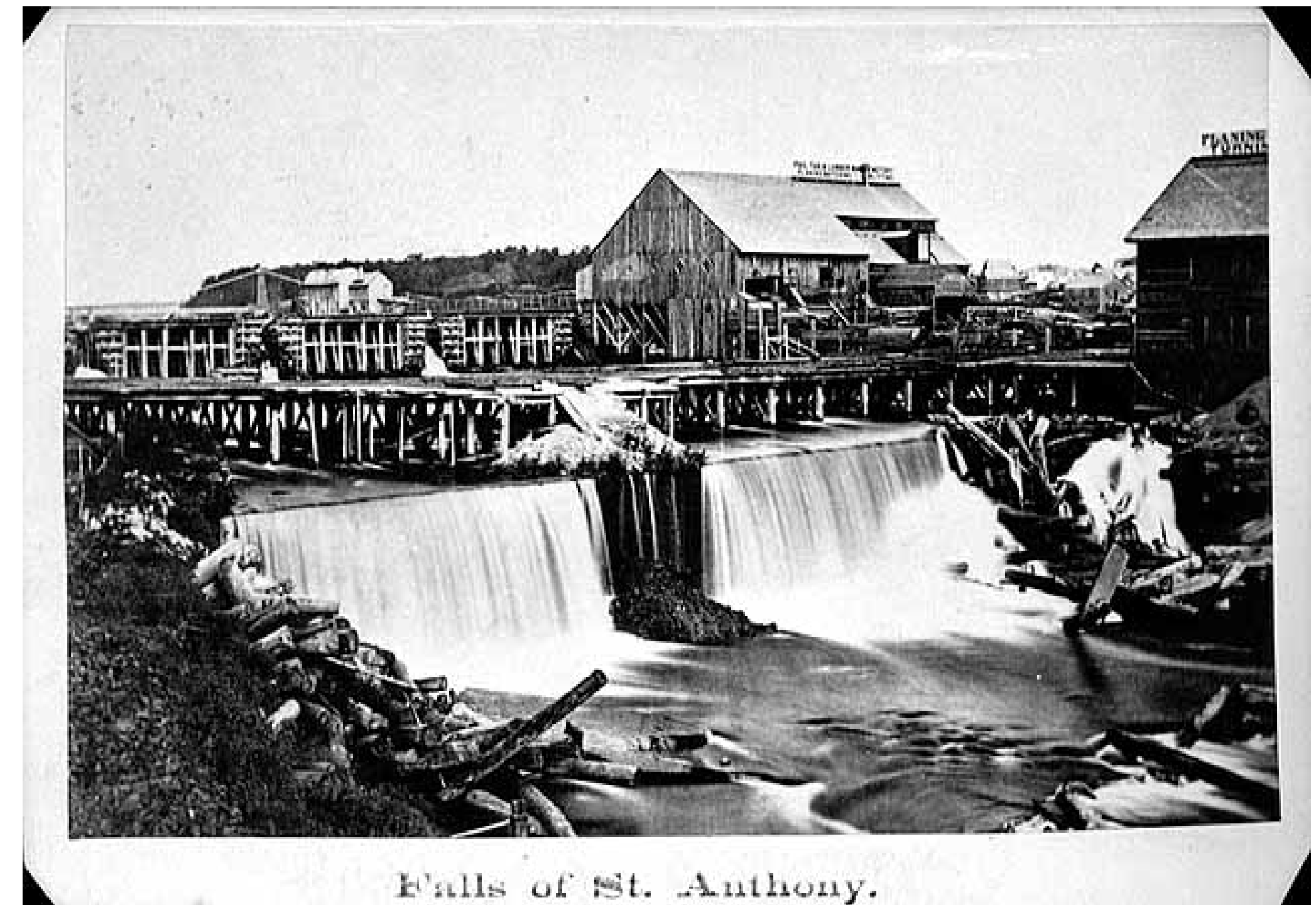
- **Backups** to homes and overflows to waterways
- Increased **costs** to convey and treat
- Reduced **capacity** for growth
- **Wasted** resource





# Metropolitan Disposal System

- 1870** Begin discharging all sewage to river
- 1938** Metro Plant begins treating combined sewage
- 1980s** Intensive separation of sewers by urban core communities and MCES
- 2010** Last recorded overflow to river (due to stormwater pipe failure)
- 2018** CSO Permit terminated by request of MCES and Minneapolis



**St. Anthony Falls, 1860**

# Roots of the I/I program

## July 1987 Superstorm

- **16” of rainfall** over one week in region
- Agreement to study I/I

## 1990 System Evaluation

- **~20% of annual flow** from I/I
- Grants & loans to communities

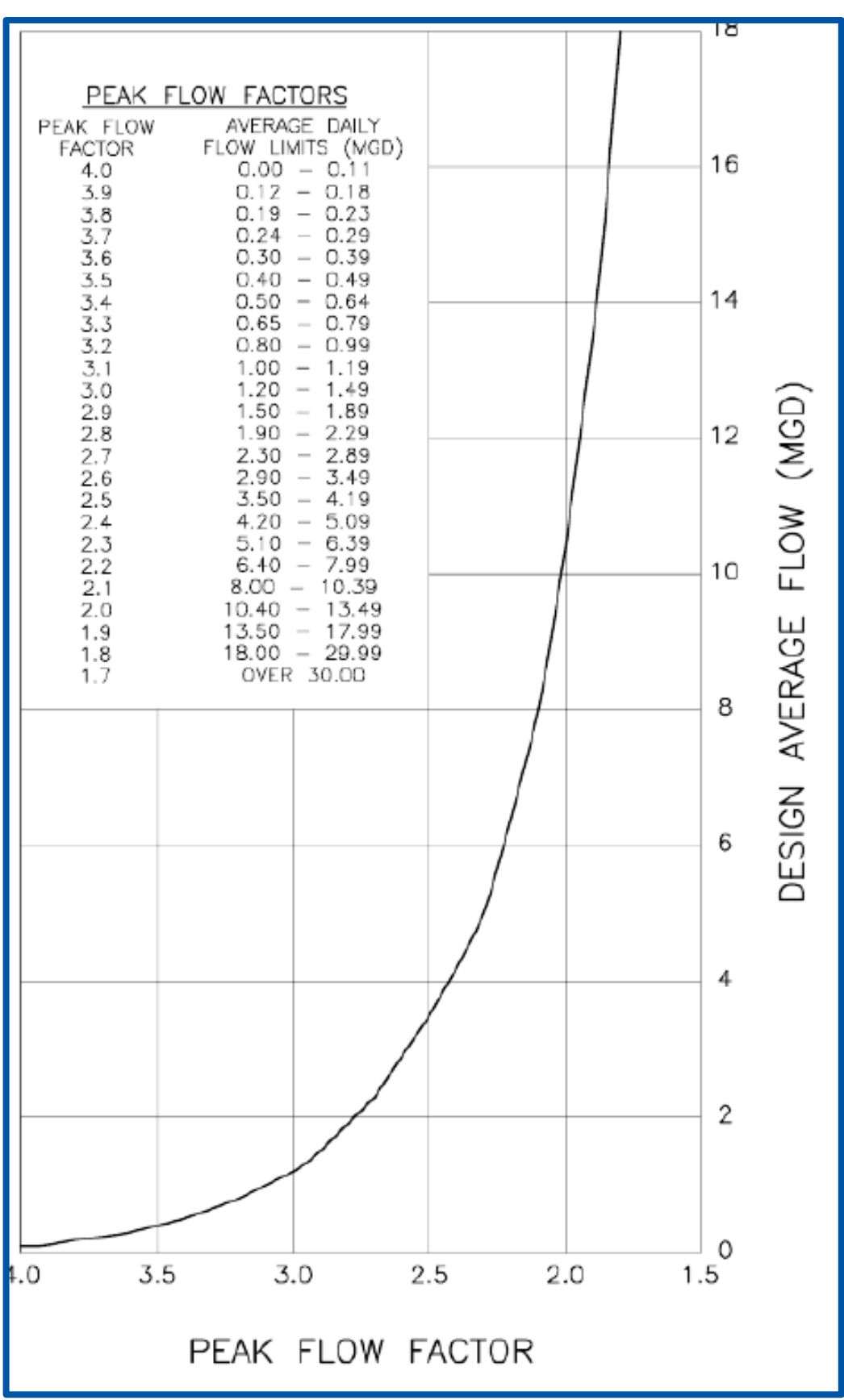
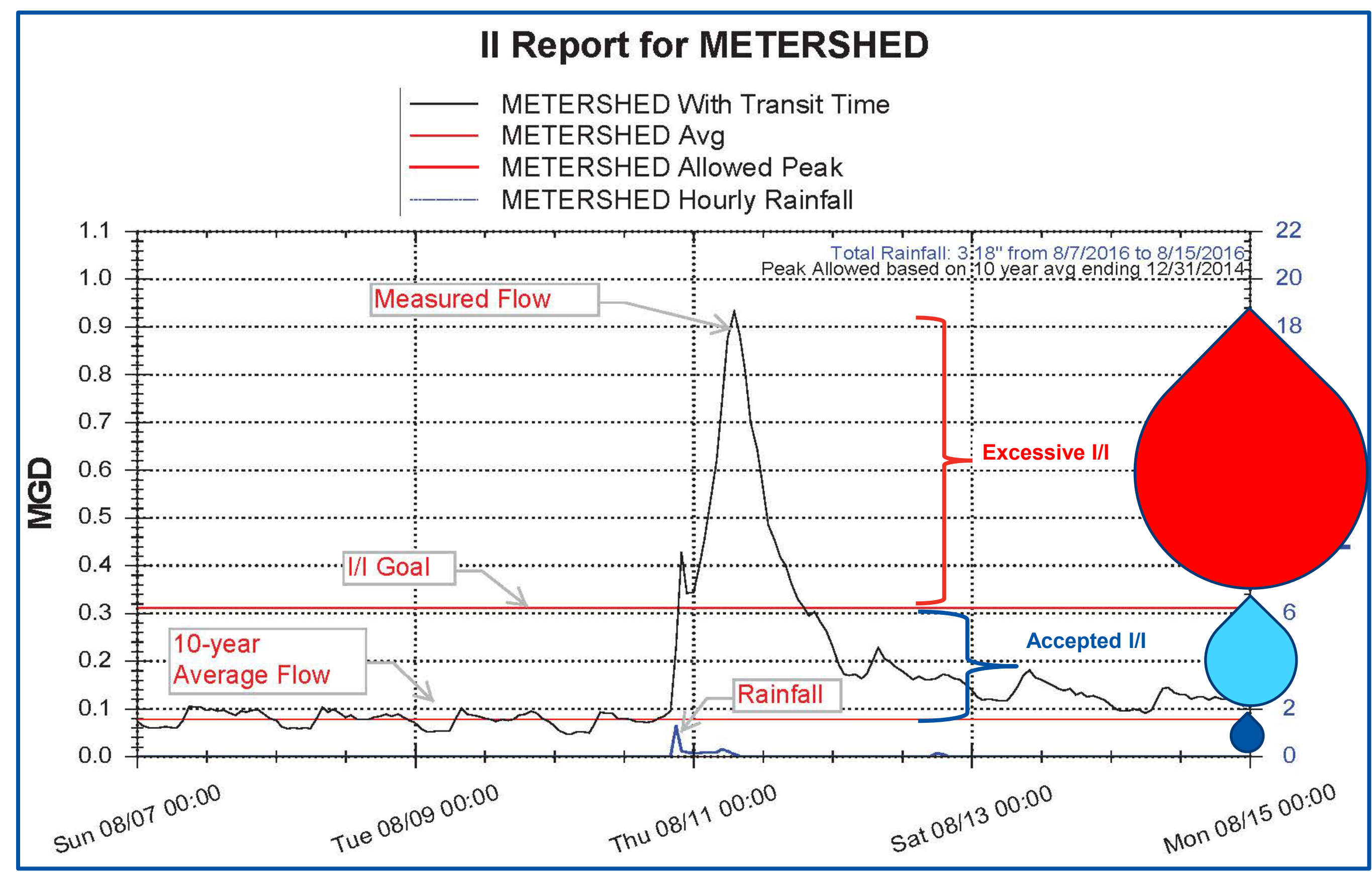
## 2002 Interceptor Master Plan

- Projected peak flow **exceeds capacity; not sustainable**
- More **cost effective to address sources**

## 2004 I/I Task Force

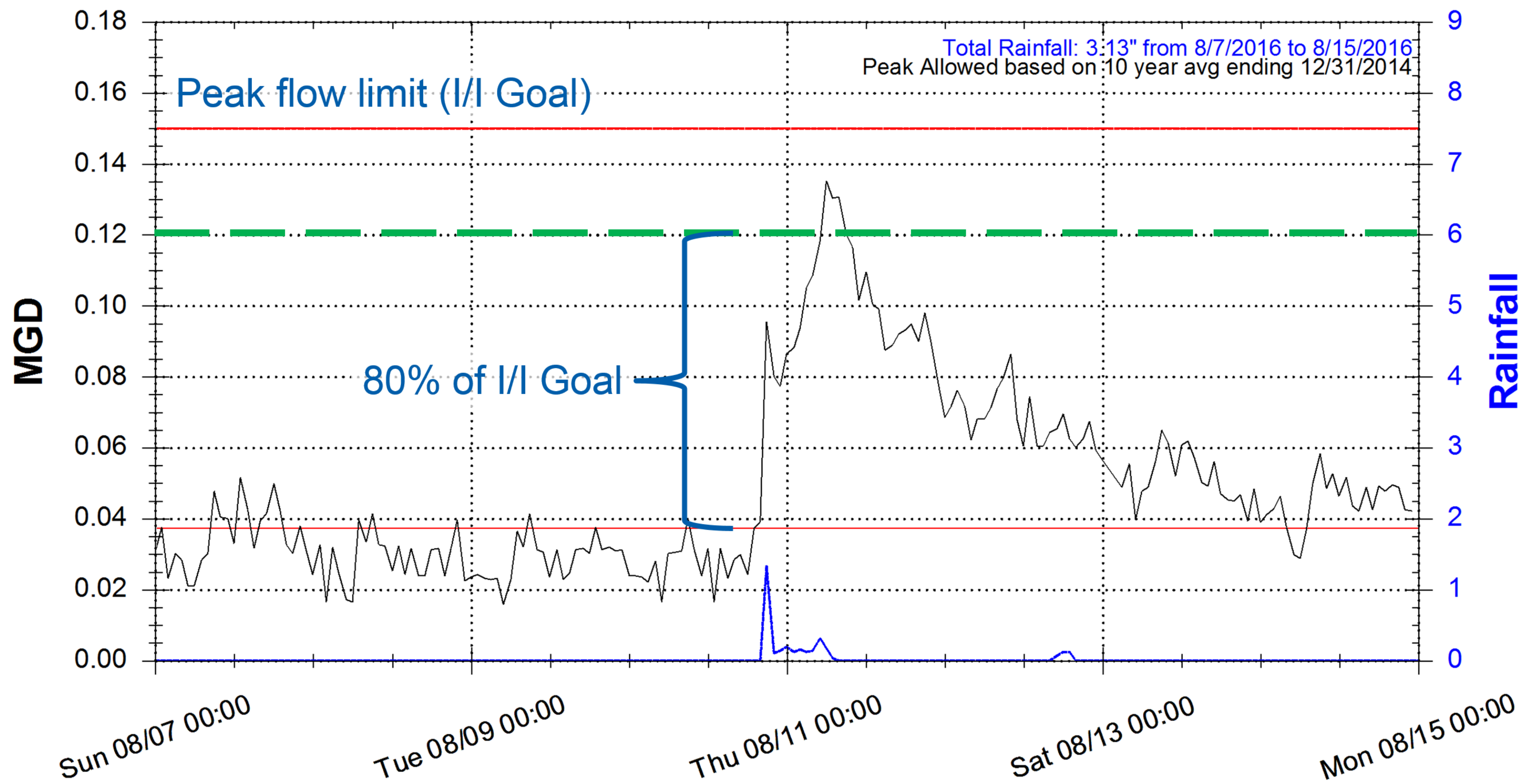
- **Incentives & resources** to invest in wastewater infrastructure
- Investment based on exceedance, City chooses methods

# Excessive I/I





# State bond grant eligibility



# Major storm comparison

	Oct. 4, 2005	June 19, 2014	Difference
Regional Precipitation (in) <sup>1</sup>	6.6	10.8	<b>+62%</b>
Annual Precipitation (in) <sup>2</sup>	32.2	37.7	<b>+17%</b>
I/I Goals Exceeded	50	49	
		<b>Peak Daily Flow<sup>3</sup></b>	
Metropolitan Plant (St Paul)	449.6	420.9	<b>-6%</b>
Blue Lake (Shakopee)	92.8	70.9	<b>-24%</b>
		<b>Peak Hourly Flow<sup>3,4</sup></b>	
Metropolitan Plant (St Paul)	633.4	559.9	<b>-12%</b>

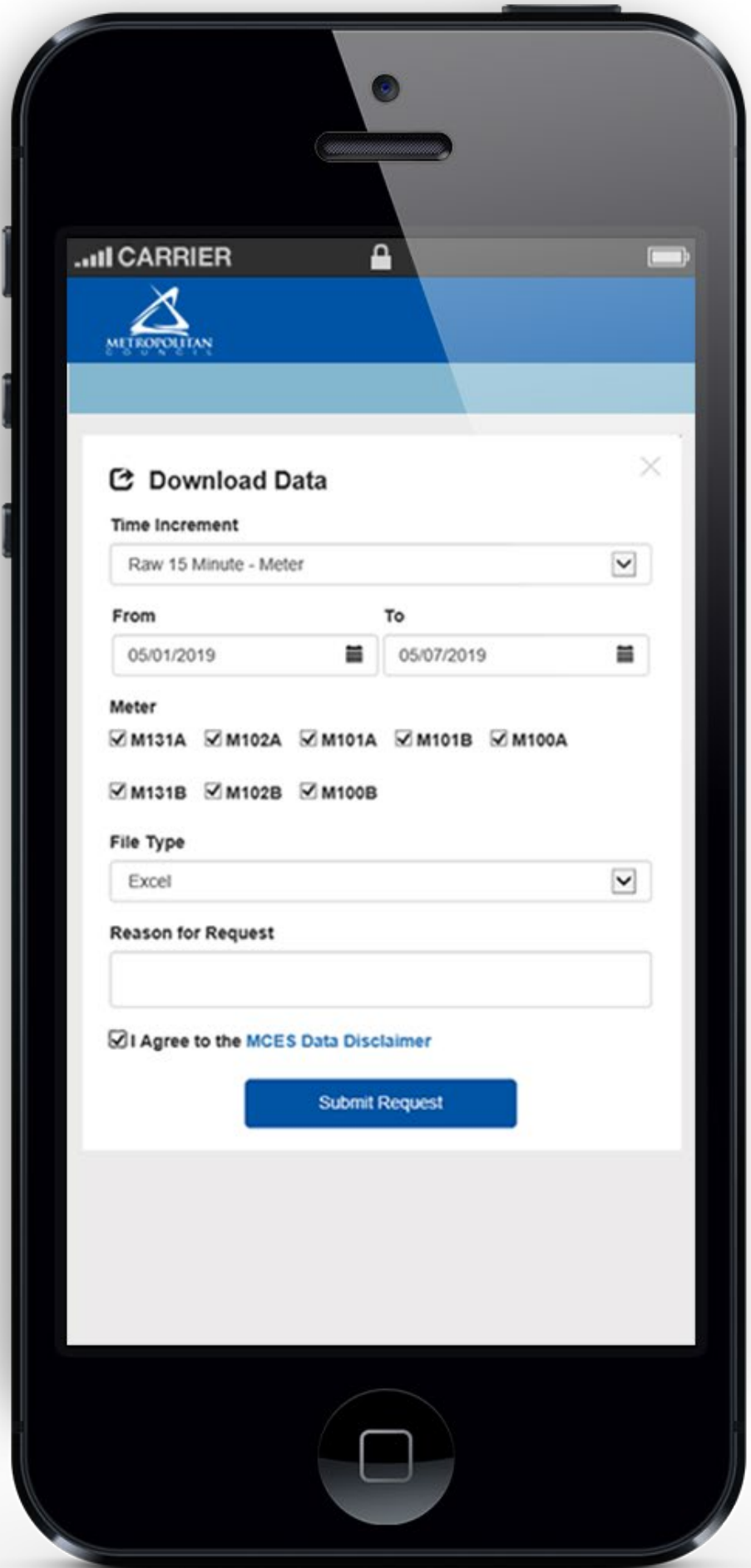
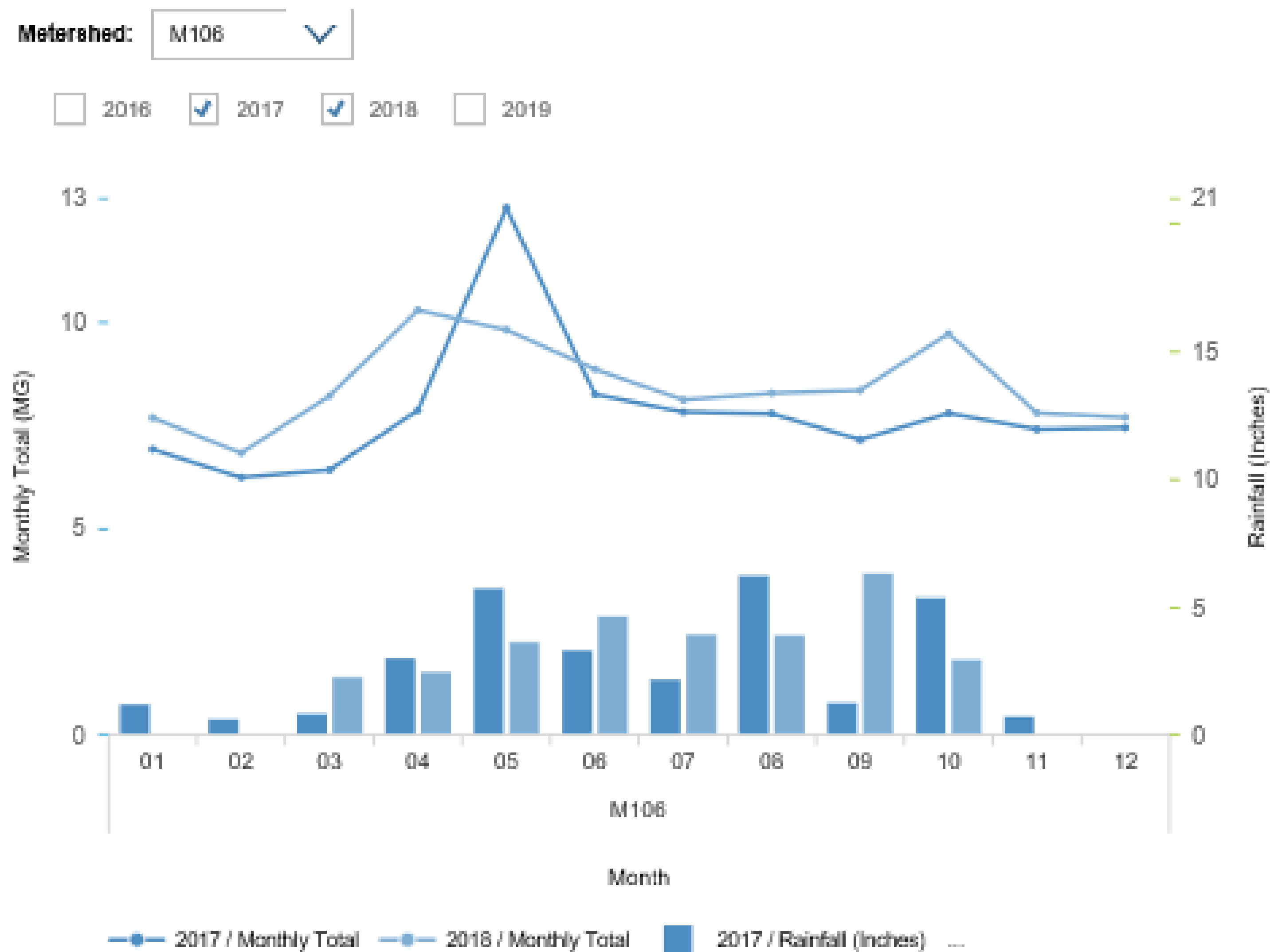
1. Average total rainfall over the region that occurred September 19-October 4, 2005 and June 1-June 19, 2014.

2. Average total rainfall over the region that occurred in the 12 months preceding the event.

3. Flow in million gallons per day (mgd).

4. Peak Hourly Flow during events exceeded the capacity of Blue Lake Plant meters.

# Data on Demand



Intuitive, easy to use  
process provides  
timely, accurate data





# I/I program information

Work Plan 2022

Start Investigative Public Infrastructure Private Infrastructure Submit

Eligible Credit Total  
\$ 25000.00

Please describe the planned mitigation activities and the expected costs.

	Cost	Credit
System analysis and work prioritization	\$ * 25000.00	\$ 25000.00

+ Add Another

**Submit I/I program information, including work plans and credits, to track I/I work and keep a record of past expenses**

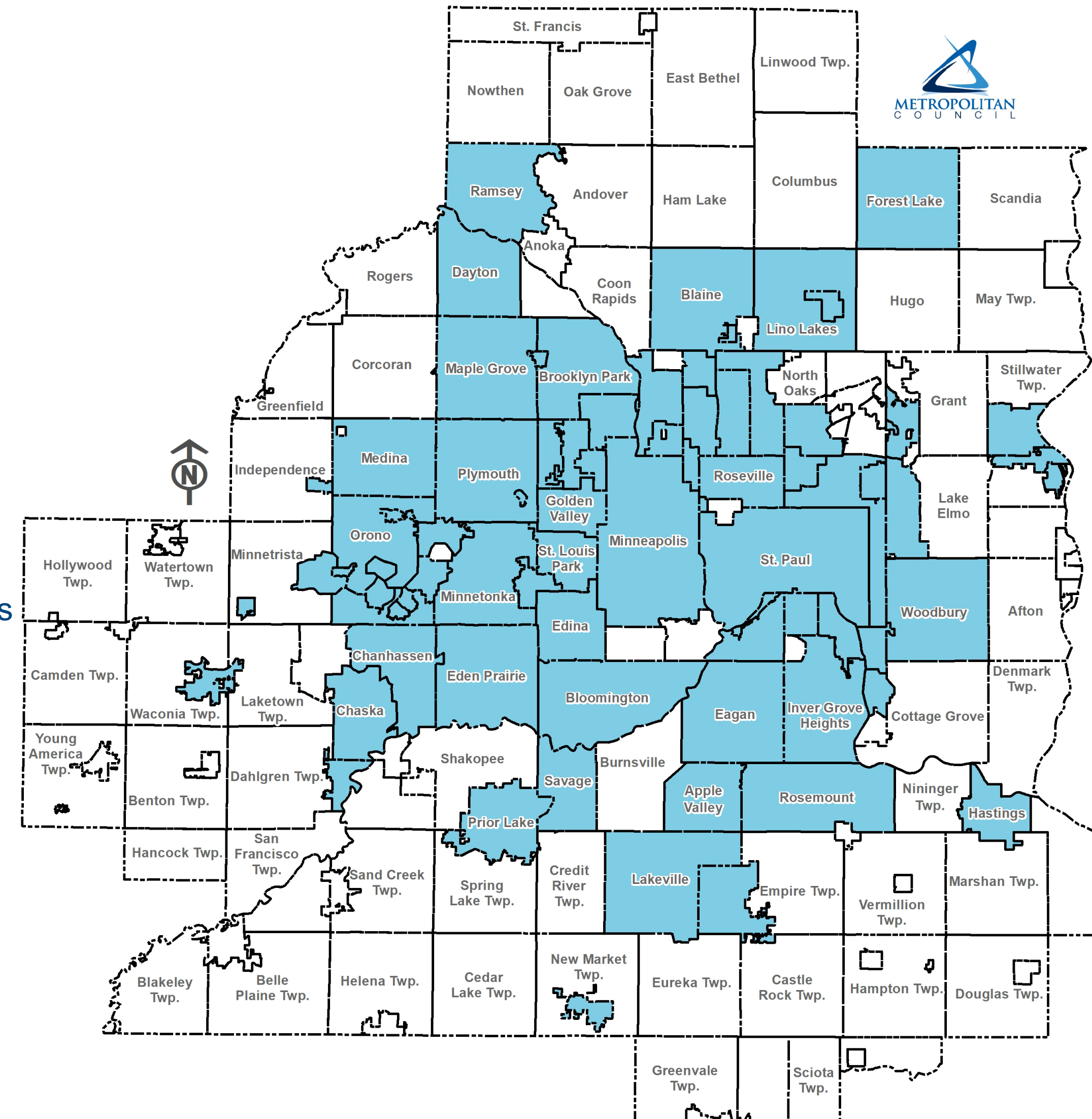


# 2020 Municipal I/I Grant Program



# 2020 I/I Grant Program: Eligible Cities

- Apple Valley
- Arden Hills
- Bayport
- Birchwood
- Blaine
- Bloomington
- Brooklyn Center
- Brooklyn Park
- Carver
- Centerville
- Chanhassen
- Chaska
- Columbia Heights
- Crystal
- Dayton
- Deephaven
- Eagan
- Eden Prairie
- Edina
- Elko-New Market
- Excelsior
- Farmington
- Forest Lake
- Fridley
- Golden Valley
- Greenwood
- Hastings
- Hopkins
- Inver Grove Heights
- Lakeville
- Lauderdale
- Lexington
- Lilydale
- Lino Lakes
- Little Canada
- Long Lake
- Mahtomedi
- Maple Grove
- Maple Plain
- Maplewood
- Medicine Lake
- Medina
- Mendota
- Mendota Heights
- Minneapolis
- Minnetonka
- Minnetonka Beach
- Mound
- Mounds View
- New Brighton
- New Hope
- Newport
- North St. Paul
- Oak Park Heights
- Oakdale
- Orono
- Osseo
- Plymouth
- Prior Lake
- Ramsey
- Robbinsdale
- Rosemount
- Roseville
- Savage
- Shoreview
- Shorewood
- South St. Paul
- St. Anthony
- St. Bonifacius
- St. Louis Park
- St. Paul
- St. Paul Park
- Stillwater
- Spring Park
- Tonka Bay
- Vadnais Heights
- Waconia
- West St. Paul
- Woodbury
- Wayzata



# I/I Grant – Bonding bill language

\$5M appropriated to Metropolitan Council to administer grants for **capital improvements that reduce I/I** into municipal wastewater collection systems

## **Cities are eligible if:**

- they have been identified as an excessive I/I contributor, or
- they have a measurable flow rate within 20% of the allowable flow limit

Grant funding up to **50% of the I/I portion of project cost**, pursuant to guidelines approved by Metropolitan Council



# Key state requirements

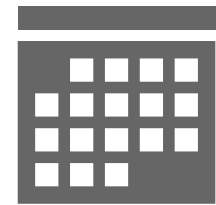
- Funding must be used to finance publicly owned and publicly operated projects
- Must extend useful life or substantially increase value of fixed asset
- Cannot be operating or overhead expense
- [M.S.16C.285](#) responsible contractor requirements
- [M.S.16A.695](#) restricts sale, lease and management contracts
  - Included MMB Commissioner's Order

## Other Information Sources

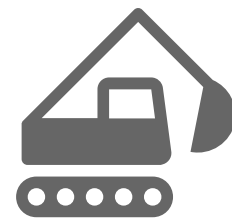
- [MN Capital Investment and State Bonding Guide](#)
- [MMB's End Grant Agreement](#)



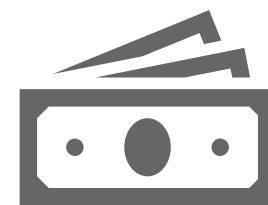
# Key Metropolitan Council guidelines



Qualified spending between 1/1/21 and 12/31/22



Only construction costs qualify



Each participating city is eligible to receive:

- Part 1: Lesser of \$50,000 or half of eligible expenses submitted, plus
- Part 2: Allocation proportional to cities' remaining eligible expenses

# Eligible and non-eligible I/I work

## Eligible

Type of Work	% of Costs Eligible for Reimbursement
1. Pipe Lining and Replacement	50%
2. Pipe Joint Sealing and Chimney Seals	100%
3. Manholes - Lining, Replacement	50%
4. Manhole Sealing Joints, Castings, Covers	100%
5. Flood Mitigation	10%
6. Cross Connection Elimination	100%

## Not Eligible

- Studies, investigations or inspections
- Engineering costs
- Any improvements to privately owned infrastructure, or private service lines

# Funding Example

## Step 1: Determine the Amount Eligible for Funding

### MCES 2020 I/I Grant Funding Example

Determining the Amount Eligible for Funding

City	Type of Work	Total Project Costs:	% Covered	Covered Amount:	% Eligible	Amt Eligible for Funding
City 1	1. Pipe Lining and Replacement	\$10,000,000	50%	\$ 5,000,000	50%	\$ 2,500,000
City 1	2. Pipe Joint Sealing and chimney Seals	\$ 5,000,000	50%	\$ 2,500,000	100%	\$ 2,500,000
City 1	3. Manholes - Lining, replacement	\$ 3,000,000	50%	\$ 1,500,000	50%	\$ 750,000
<b>City 1 Total</b>		<b>\$18,000,000</b>		<b>\$ 9,000,000</b>		<b>\$ 5,750,000</b>
City 2	1. Pipe Lining and Replacement	\$ 5,000,000	50%	\$ 2,500,000	50%	\$ 1,250,000
City 2	3. Manholes - Lining, replacement	\$ 1,000,000	50%	\$ 500,000	50%	\$ 250,000
<b>City 2 Total</b>		<b>\$ 6,000,000</b>		<b>\$ 3,000,000</b>		<b>\$ 1,500,000</b>
City 3	4. Manhole Sealing joints, castings, covers	\$ 3,000,000	50%	\$ 1,500,000	100%	\$ 1,500,000
City 3	5. Flood Mitigation	\$ 500,000	50%	\$ 250,000	10%	\$ 25,000
City 3	6. Cross Connection Elimination	\$ 1,000,000	50%	\$ 500,000	100%	\$ 500,000
<b>City 3 Total</b>		<b>\$ 4,500,000</b>		<b>\$ 2,250,000</b>		<b>\$ 2,025,000</b>
City 4	2. Pipe Joint Sealing and chimney Seals	\$ 100,000	50%	\$ 50,000	100%	\$ 50,000
City 4	3. Manholes - Lining, replacement	\$ 500,000	50%	\$ 250,000	50%	\$ 125,000
City 4	6. Cross Connection Elimination	\$ 1,000,000	50%	\$ 500,000	100%	\$ 500,000
<b>City 4 Total</b>		<b>\$ 1,600,000</b>		<b>\$ 800,000</b>		<b>\$ 675,000</b>
City 5	1. Pipe Lining and Replacement	\$ 150,000	50%	\$ 75,000	50%	\$ 37,500
<b>City 5 Total</b>		<b>\$ 150,000</b>		<b>\$ 75,000</b>		<b>\$ 37,500</b>
<b>Grant Total</b>		<b>\$28,650,000</b>		<b>\$ 14,325,000</b>		<b>\$ 9,312,500</b>



# Funding Example

## Step 2: Determine Part 1 and Part 2 Allocation

### MCES 2020 I/I Grant Part 1 & Part 2 Funding Example

Determining part 1 and part 2 allocation amounts

City	Amt Eligible for Funding:	Part 1 Funding	Remaining Eligible Balance:	Part 2 Allocation %	Part 2 Funding	Final Reimbursement
City 1	\$ 5,750,000	\$ 50,000	\$ 5,700,000	48.8%	\$ 2,784,231	\$ 2,834,231
City 2	\$ 1,500,000	\$ 50,000	\$ 1,450,000	48.8%	\$ 708,269	\$ 758,269
City 3	\$ 2,025,000	\$ 50,000	\$ 1,975,000	48.8%	\$ 964,712	\$ 1,014,712
City 4	\$ 675,000	\$ 50,000	\$ 625,000	48.8%	\$ 305,288	\$ 355,288
City 5	\$ 37,500	\$ 37,500	\$ -	48.8%	\$ -	\$ 37,500
<b>Total:</b>	<b>\$ 9,987,500</b>	<b>\$ 237,500</b>	<b>\$ 9,750,000</b>		<b>\$ 4,762,500</b>	<b>\$ 5,000,000</b>

#### Part 2 Allocation %:

Total Grant Funding	\$ 5,000,000
- Part 1 Funding:	\$ 237,500
<b>Remaining Funds for Part 2:</b>	<b>\$ 4,762,500</b>
<b>÷ Remaining Eligible Balance:</b>	<b>\$ 9,750,000</b>
<b>% Allocation for Part 2</b>	<b>48.8%</b>

- 2014 % Allocation for Part 2 was 35.1% (\$4.2M in Grant Funding)
- 2017 % Allocation for Part 2 was 68.5% (\$8.7M in Grant Funding)

# Tentative 2020 I/I Grant Calendar

- Start Date for Eligible I/I Grant Project Work January 1, 2021
- 2020 I/I Grant Information Session January 27, 2021
- MCES presents Council with guidelines for approval February 24, 2021
- MCES submits RFP to cities Early March, 2021
- **Grant Application due from cities (soft deadline) April 16, 2021**
- MCES sends LOI notifying cities of their assigned PMA By April 30, 2021
- End Date for Eligible I/I Grant Project Work December 31, 2022
- **End Grant Materials due from cities\* March 31, 2023**
- MCES sends grant agreements, including FRA May 1, 2023
- MCES processes reimbursement upon receipt of signed agreement.

**MCES** – Metropolitan Council  
Environmental Services  
**RFP** – Request for Participation

**LOI** – Letter of Intent  
**PMA** – Preliminary Minimum Allocation  
**FRA** – Final Reimbursement Amount

\*I/I Program documentation is also due on March 31



# Required End Grant Materials


1. Cost Verification form *[MCES provides]*
2. A Declaration Form or Certification Form *[MCES provides]*
3. A city resolution
4. A detailed breakdown of expenditures
5. Invoices that substantiate the cost of work completed

## Link to End Grant Agreement



<https://mn.gov/mmb-stat/debt-management/Capital%20Projects/Grant-Agreements/General%20Obligation/ProgramGeneralObligationBondsProgramGrant%20AgreementEndGrant2020.pdf>

# Grant Application – Customer Portal



Sign In

Sign In

Create Account

Please Sign In Here

Forgot Password?

SIGN IN


In late **February**, communities will be able to log-in to the ES Customer Portal to apply for the 2020 I/I Grant Program

I&I Resources

FAQs

John Smith

Logout



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## Grants

Year	Grant Program Name	Application Deadline	Status	
2020	2020 I/I Grant Program	3/31/2021	Accepting Applications	APPLY





# Grant Application – Customer Portal



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## Grant Application

<b>Grant Program Name</b>	<b>Year</b>	<b>Amount</b>
2020 I/I Grant Program	2020	0
<b>Eligible Work Start Date</b>	<b>Eligible Work End Date</b>	
01/01/2020	12/31/2020	
<b>Estimated Project Work Description</b>		
<div></div>		



# Grant Application – Customer Portal

Enter Your Estimated I&I Costs

Non-Eligible I&I Work includes studies, investigations, inspections, engineering costs, or any improvements to privately owned infrastructure.

	Project Costs		Project Costs Covered		Grant Eligible
Pipe Lining and Replacement ⓘ	\$ <input type="text"/>	x 50% Covered	\$0	x 50% Grant Eligible	\$0
Pipe Joint Sealing and Chimney Seals ⓘ	\$ <input type="text"/>	x 50% Covered	\$0	x 100% Grant Eligible	\$0
Manholes - Lining, replacement ⓘ	\$ <input type="text"/>	x 50% Covered	\$0	x 50% Grant Eligible	\$0
Manhole Sealing joints, castings, covers ⓘ	\$ <input type="text"/>	x 50% Covered	\$0	x 100% Grant Eligible	\$0
Flood Mitigation ⓘ	\$ <input type="text"/>	x 50% Covered	\$0	x 10% Grant Eligible	\$0
Cross Connection Elimination ⓘ	\$ <input type="text"/>	x 50% Covered	\$0	x 100% Grant Eligible	\$0
	\$0		\$0		\$0

For any questions regarding your grant application please contact [email@metc.state.mn.us](mailto:email@metc.state.mn.us).

APPLY



# Available Resources


## MCES Website with Grant Information

 <https://metro council.org/Wastewater-Water/Funding-Finance/Available-Funding-Grants.aspx>

## I/I Grant Program: *Matt Gsellmeier*

 Matt Gsellmeier, 390 Robert St. N, St. Paul, MN 55101


 [Matthew.Gsellmeier@metc.state.mn.us](mailto:Matthew.Gsellmeier@metc.state.mn.us)

 763-367-0264

## I/I Program: Walter Atkins\*

 Walter Atkins, 390 Robert St. N, St. Paul, MN 55101

 [Walter.Atkins@metc.state.mn.us](mailto:Walter.Atkins@metc.state.mn.us)

 651-602-1173

*\*replaced Marcus Bush in Fall of 2021*

