

# GOOD MORNING....

## Welcome to the Asset Management Program Informational Meeting #2

The presentation will begin shortly.



# Agenda

- Introductions
- Review of 1st public meeting
- St. Joseph's asset management progress
- Project Priority List (PPL)
- Next Steps

# Introductions

## Engineering Personnel

- Tim Zebell, City Engineer
- Alex Austin, Assistant City Engineer

## Public Services Personnel

- Greg Grothous, Director of Public Works
- David Linderman, Deputy Director of Public Works
- Liam Cormier, Superintendent, Streets and Sanitation

## Asset Management Consultants

- Shawn Keough, Wade Trim
- David Delia, Wade Trim
- Tim Drews, Abonmarche

## Sustainability Committee Members

- Mayor Laura Goos
- Kim Jorgensen Gane
- Paul Gillespie
- Larry O'Brian
- Lisa VanBladeren
- Chris Lannert
- Jill Plescher



# Purpose of Public Meetings

## Meeting #1

### What we are planning

- SAW Grant Overview
- Introduction to Asset Management
- Draft AM Policy

02-24-2022

## Meeting #2

### What we are doing

- Communicate Progress
- Risk Register
- Draft PPL

## Meeting #3

### What we have done

- Review
- Progress/Deliverables
- **Final Policy**
- CIP Discussion
- Long Term Planning
- What's next

# What is Asset Management?

“Asset management is the practice of managing infrastructure capital assets to minimize the total cost of owning and operating these assets while delivering the desired service levels”

- USEPA

- Risk Management
- Good Stewardship
- Continuous Improvement Process

# Asset Management Program Currently Includes

AMP currently focuses on infrastructure in the right-of-way

- Streets & storm sewers
- Water distribution system
- Sanitary sewer collection system including Lift Stations
- The goal is to expand program to other City assets over time.



# Progress

- MIC Assessment Management Readiness Scale
- AM Policy
- Strategic AM Plan (Draft)
- AM Plan Update (Draft)
- Risk Register
- Draft Project Priority List

Sample MIC Assessment Output



# Asset Management Policy

- Sustainability Committee recommended approval July 12, 2022
- City Commission adopted on July 25, 2022
- Establishes principles that guide decisions
  - 6 Objectives
  - 4 Principles
  - 6 Policy Statements

City of St. Joseph  
Asset Management Policy

Revision No. 04

Draft

Prepared For



May 13, 2022





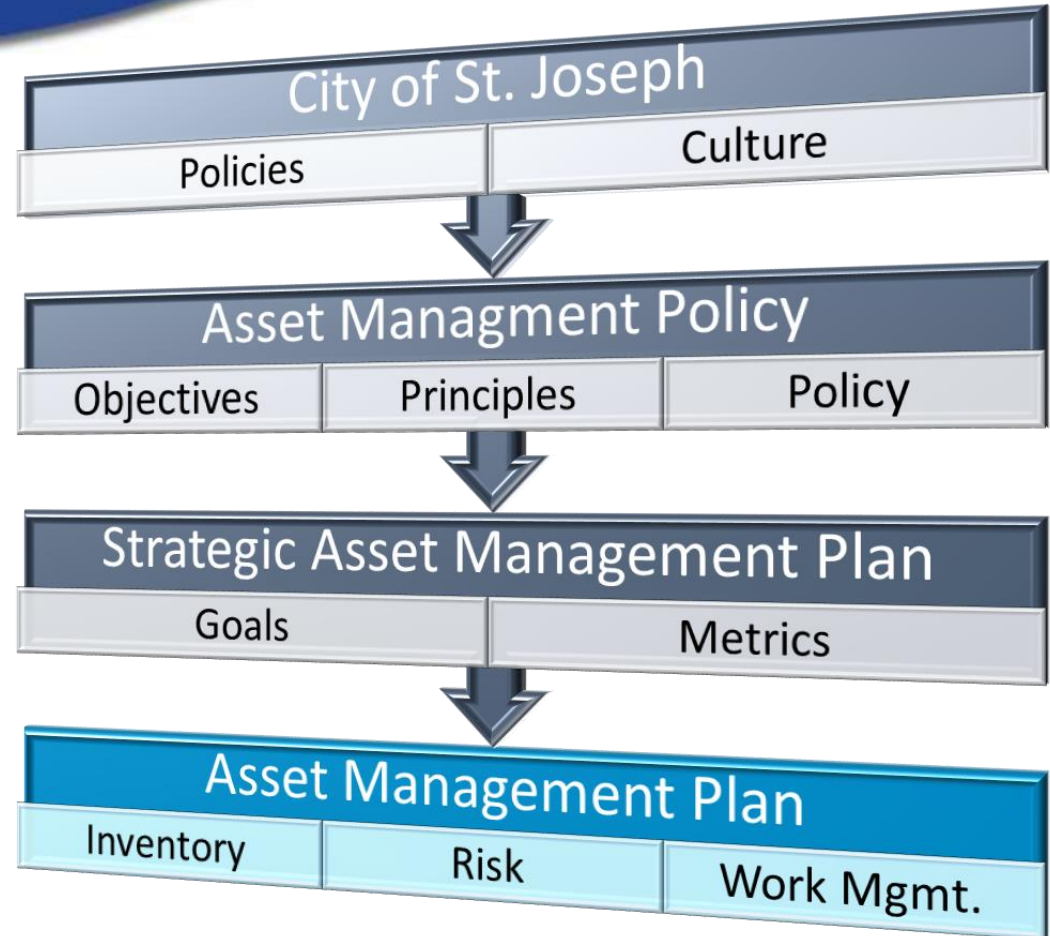
# Draft Strategic AM Plan (SAMP)

- Describes the AM Program
- How St. Joseph will meet the objectives in the AM Policy



# Draft AM Plan

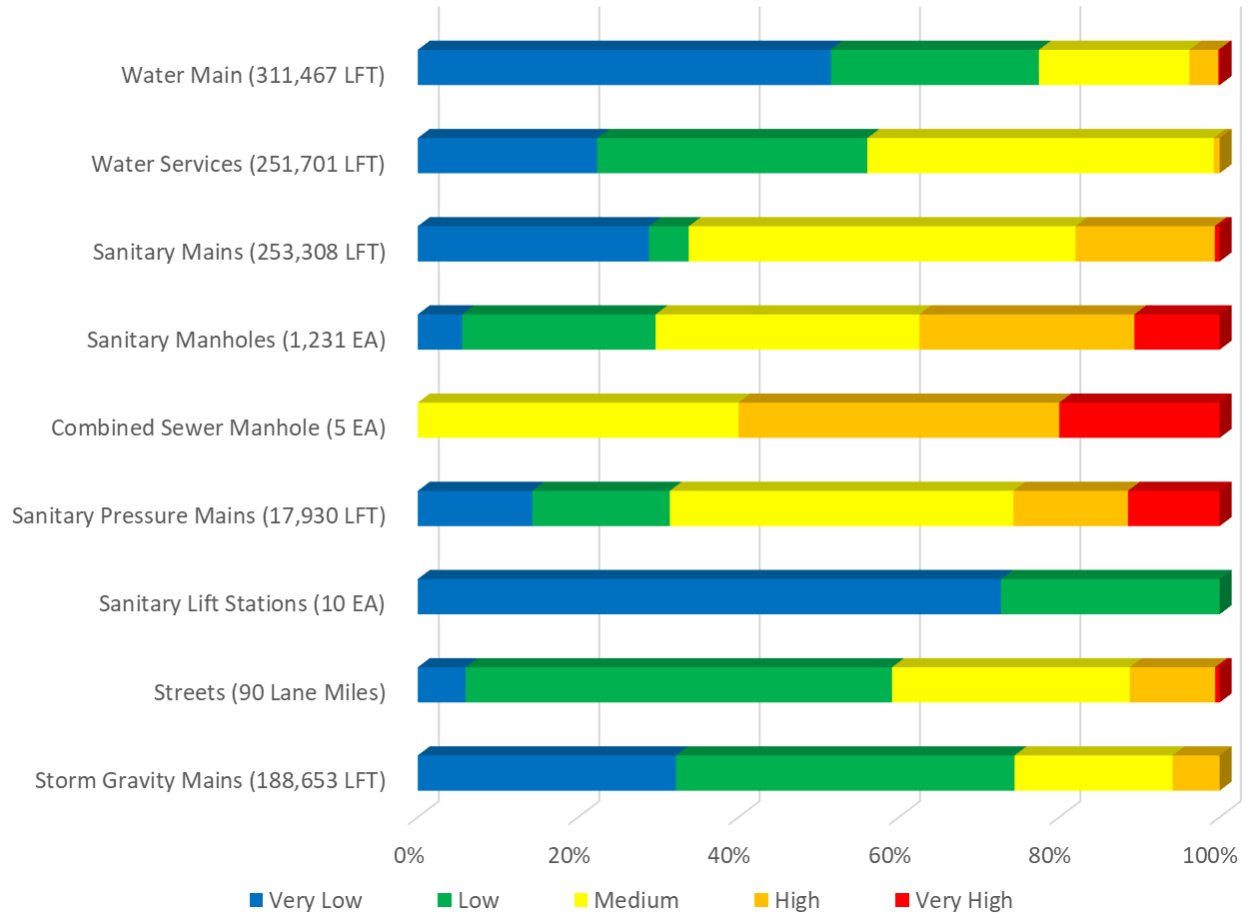
- Documents the risk-based methodology for achieving AM objectives
- Documents the current risk and future plans



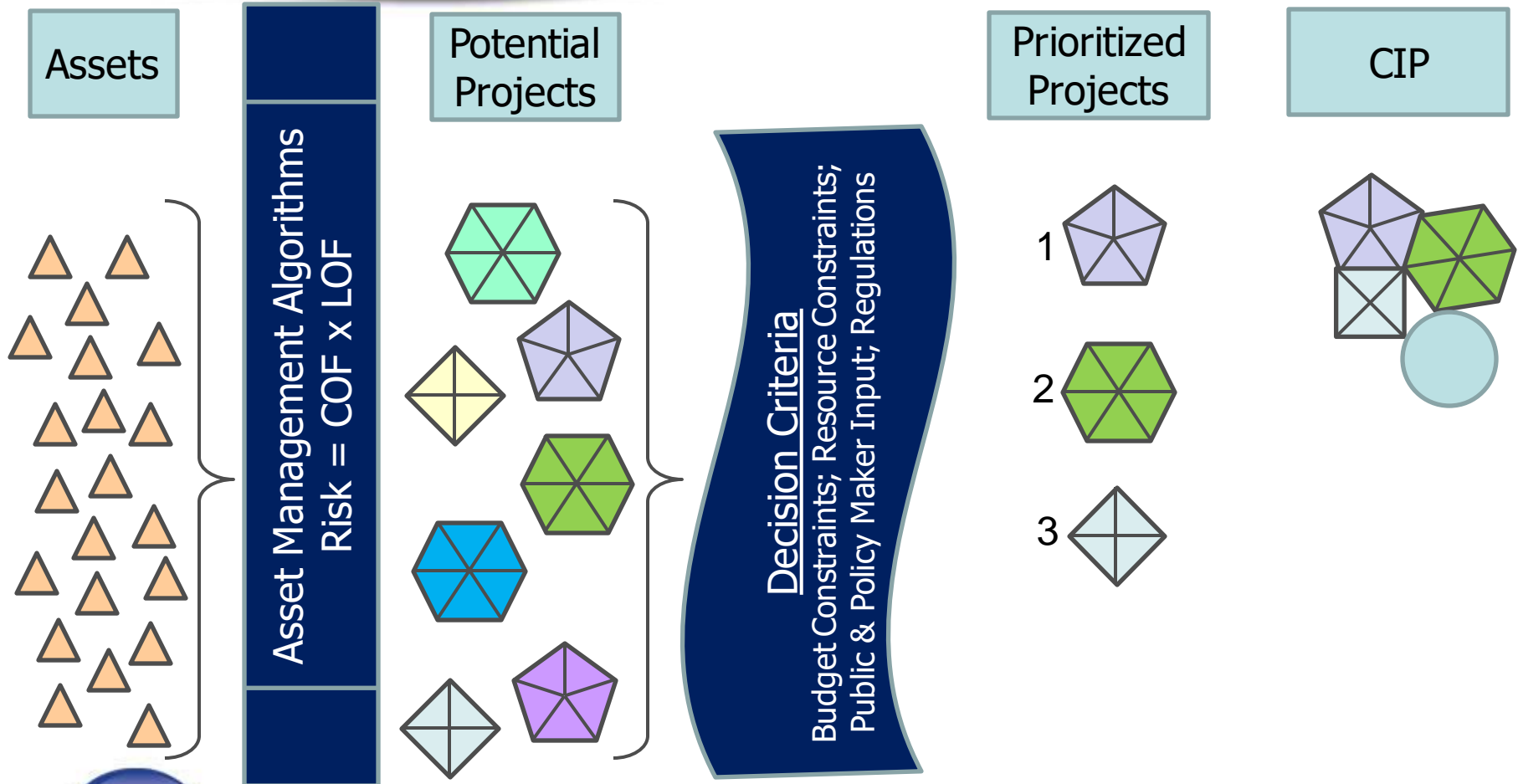
Risk = Consequence of Failure X Likelihood of Failure

# Asset Management Plan Results

## Distribution of Risk by Asset Type



# Asset Management and the CIP



# Data Driven Decisions

## (the Risk Register)

### Asset Types Included Now

- Sanitary Gravity Mains
- Sanitary Manholes
- Combined Manholes
- Sanitary Pressurized Mains
- Sanitary Lift Stations
- Paved Streets
- Storm Gravity Main
- Water Mains
- Water Laterals\*

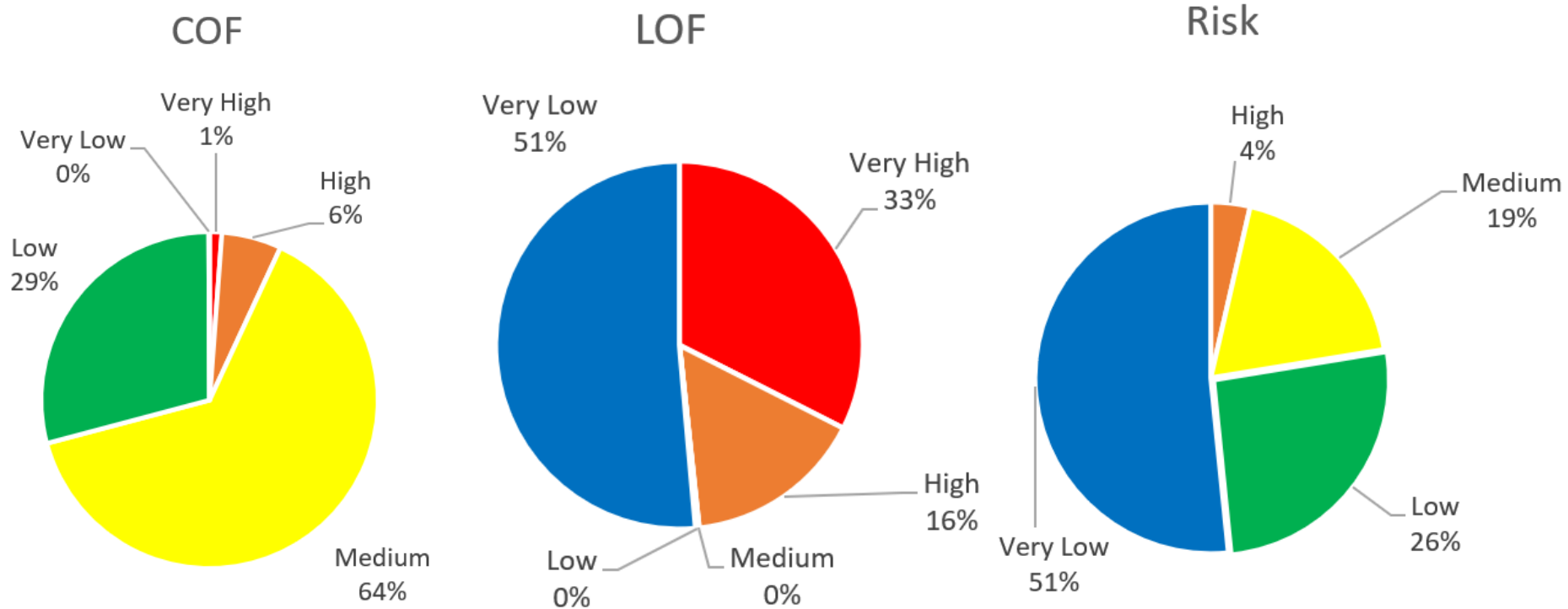
*\* Included independently from risk registers*

# Expanding the AM Program

## Asset Types to be included in the Future

- Valves
- Hydrants
- Storm Sewers
- Catch Basins
- Drains
- Detention Structures
- Clean Outs
- Signage
- Bridges
- Water Tower
- Parks
- Trees
- Parking
- Streetlights
- Signage
- Non-motorized Paths
- Sidewalks

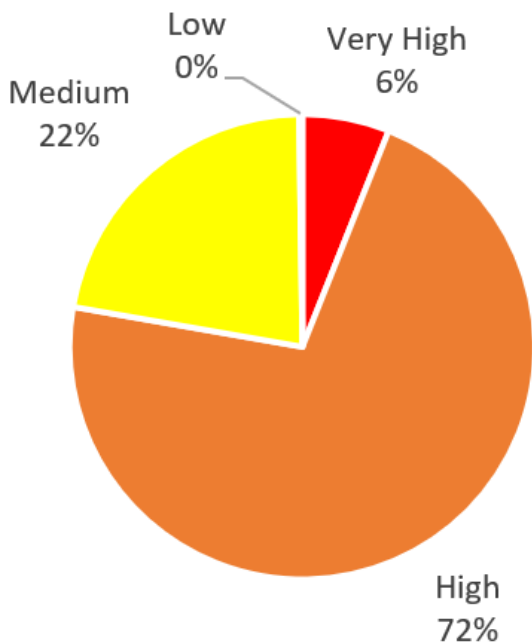
# Watermain Risk Summary



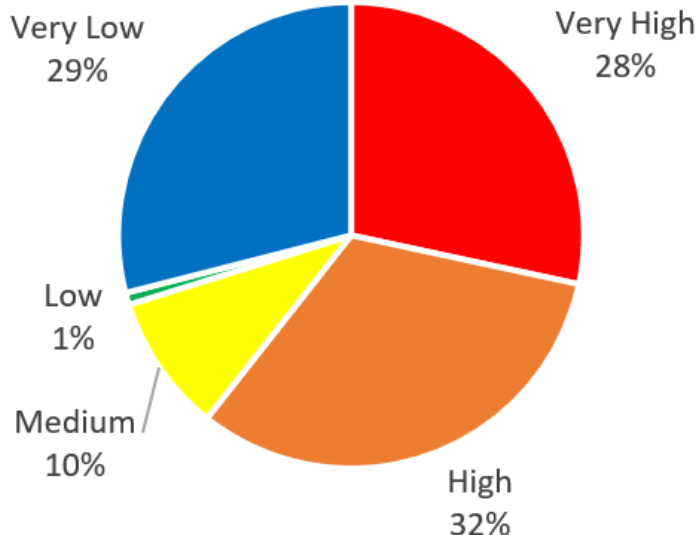
Approximately:  
59 miles of watermain  
64% of the system is  $\geq$  60 years old  
37% over 100 years old or age is unknown

# Sanitary Risk Summary

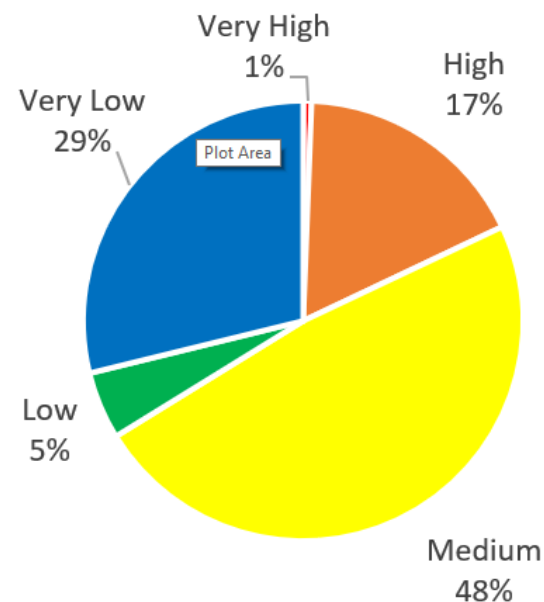
COF



LOF



Risk

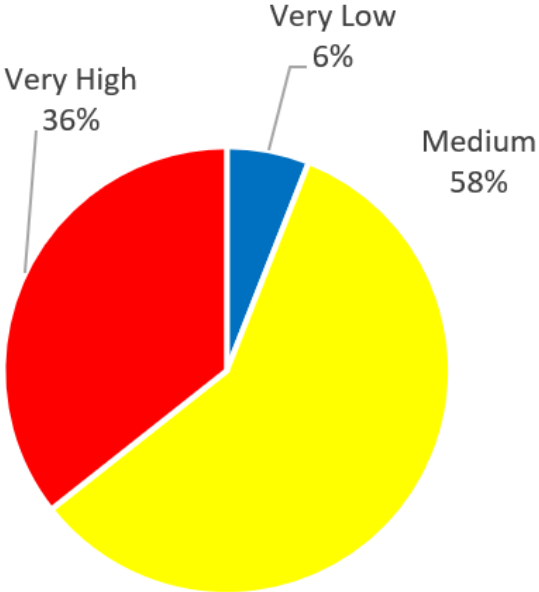


Approximately:  
48 miles of gravity sanitary sewer  
66% of the system is  $\geq 60$  years old  
32% over 100 years old or age is unknown

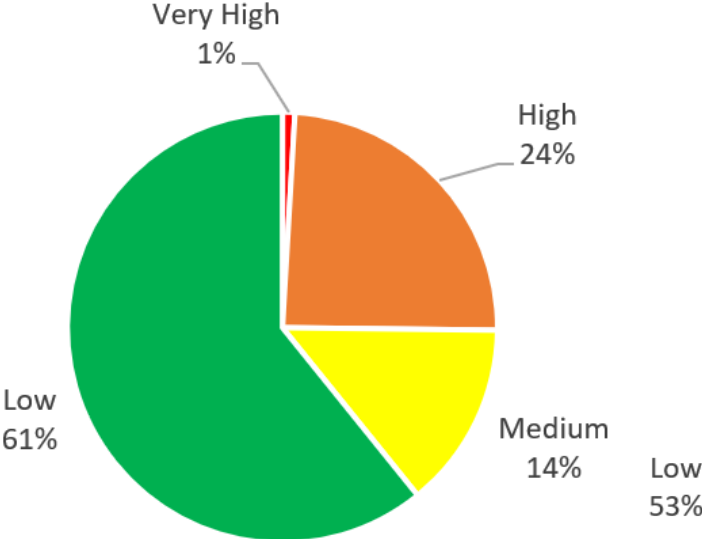


# Streets Risk Summary

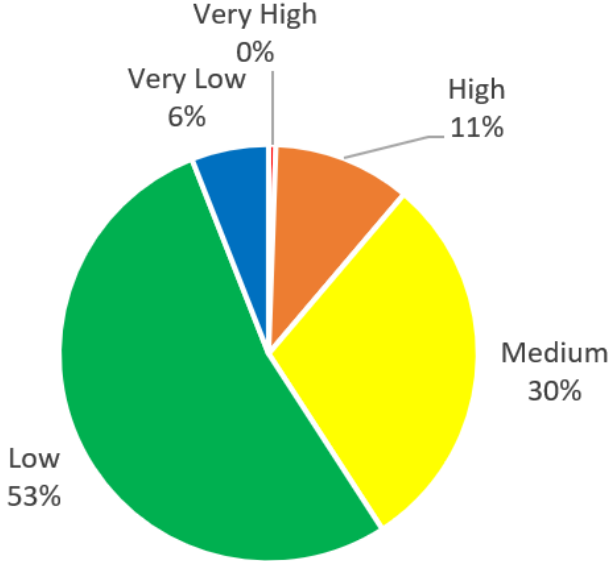
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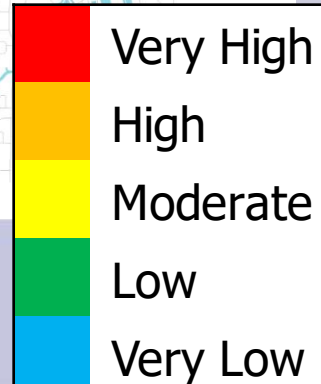
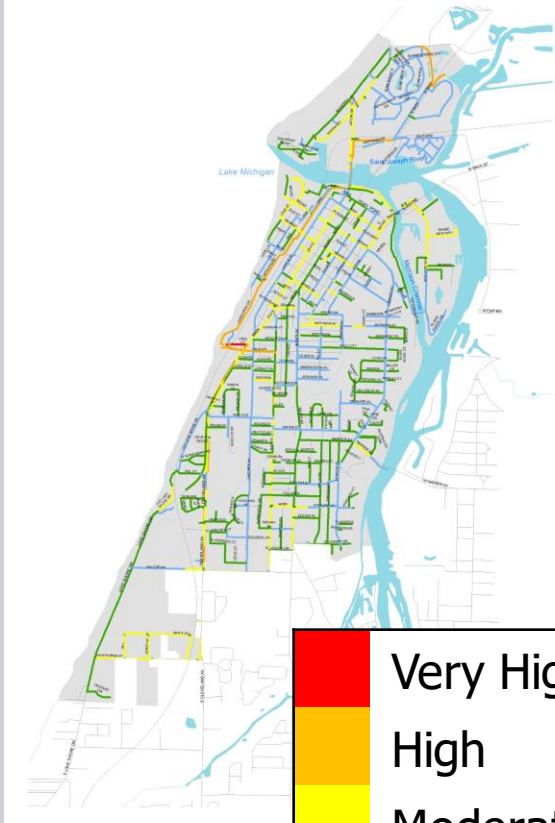
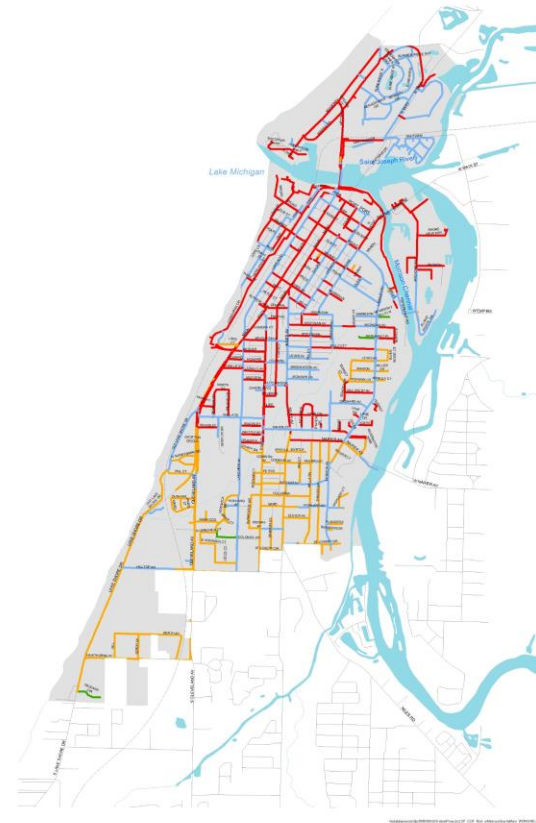
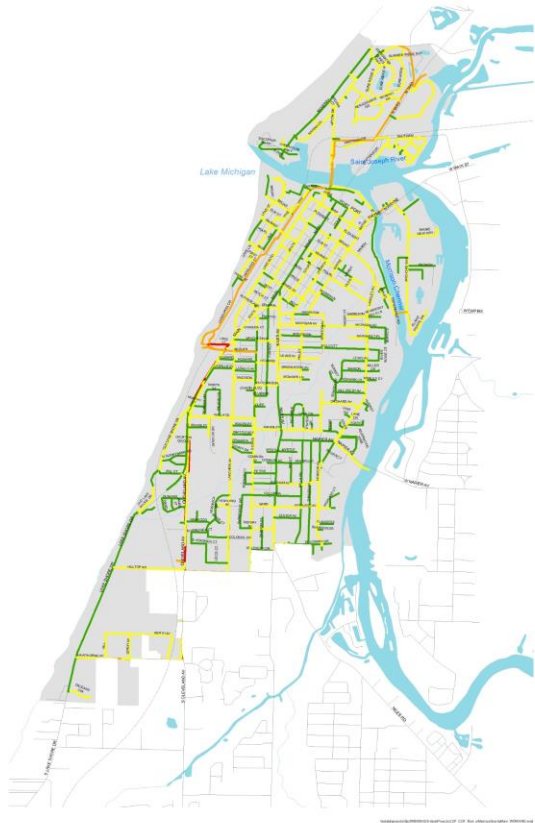


Risk



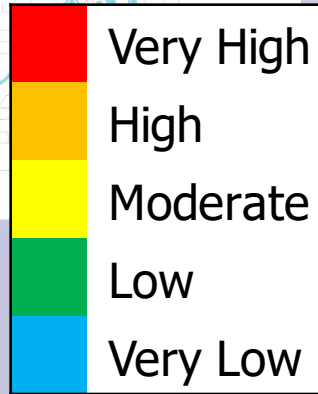
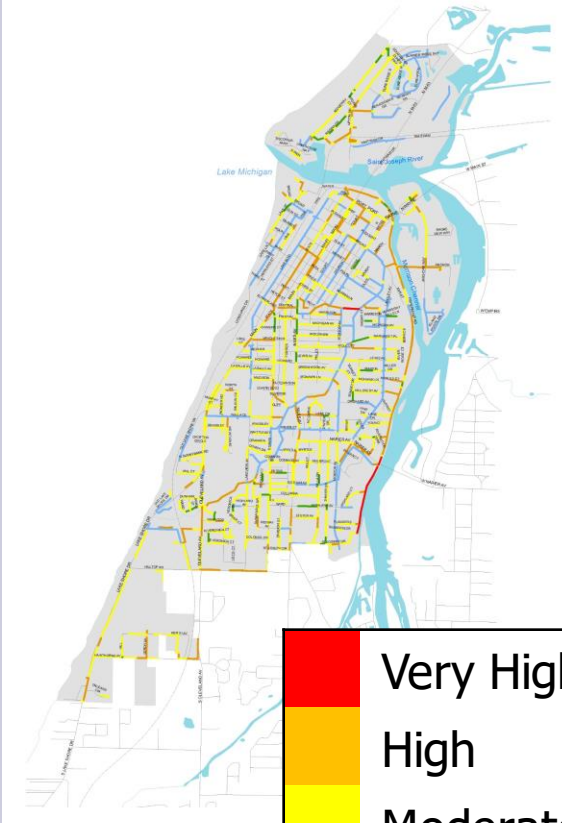
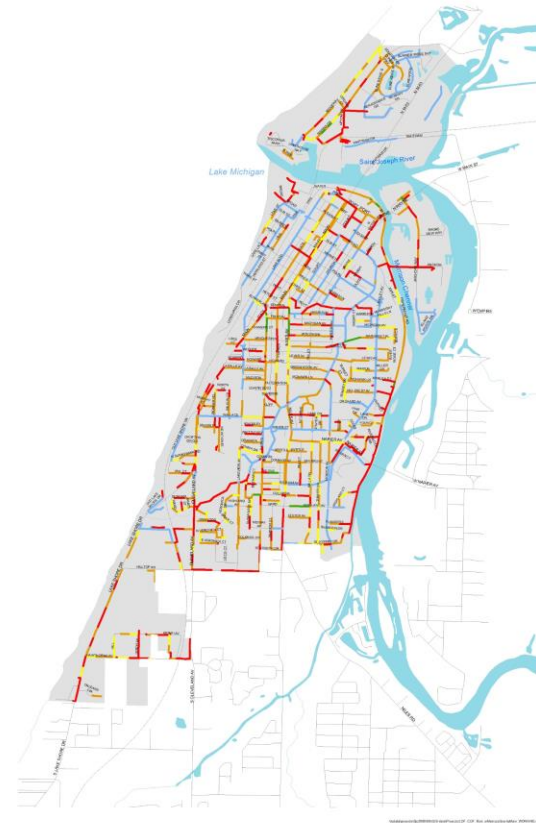
# Initial Results of the Data Driven AM Program - Watermain

Consequence of Failure X Likelihood of Failure = Risk



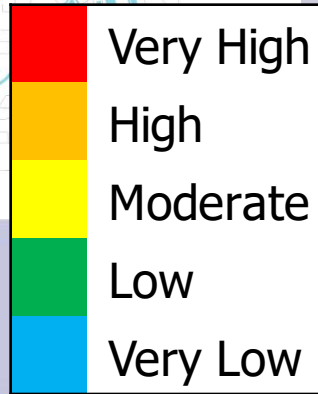
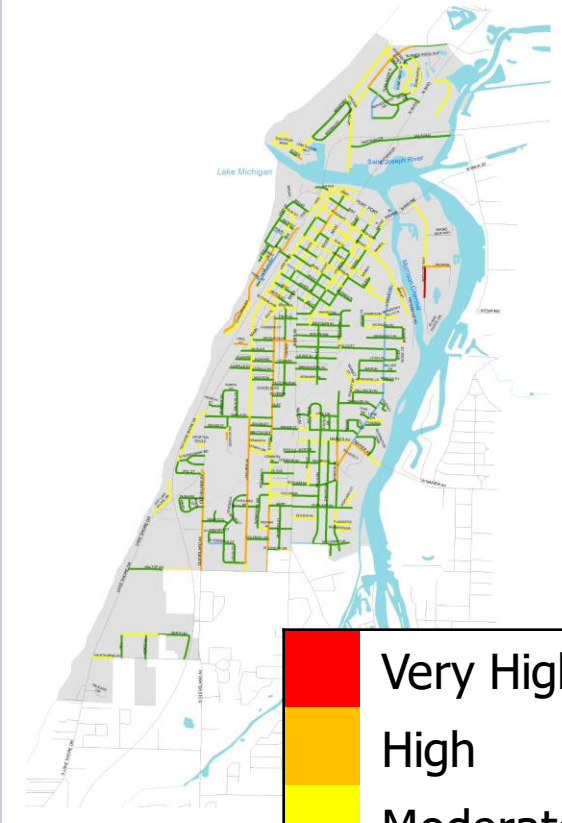
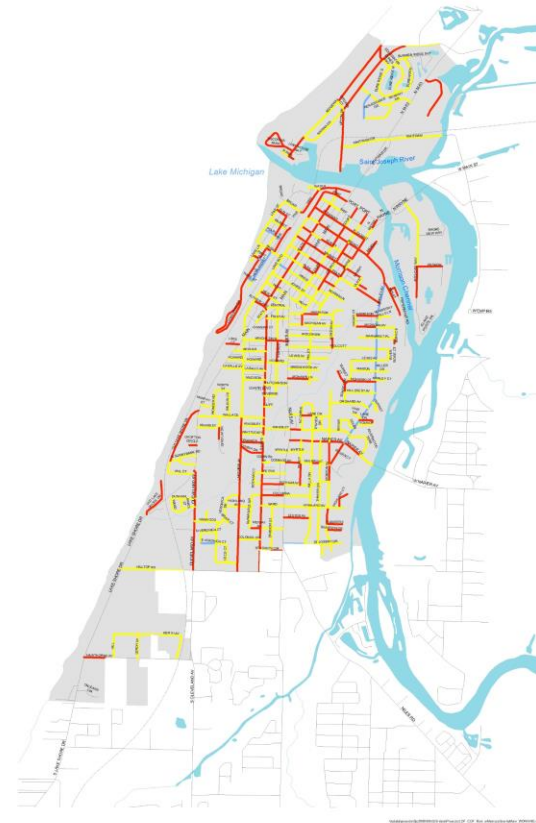
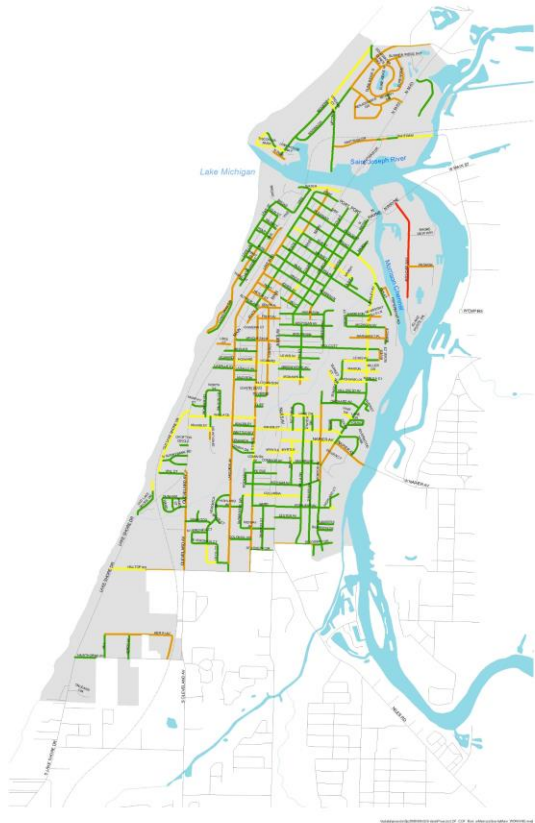
# Initial Results of the Data Driven AM Program - Sanitary

Consequence of Failure X Likelihood of Failure = Risk



# Initial Results of the Data Driven AM Program - Streets

Consequence of Failure X Likelihood of Failure = Risk



# Balancing Priorities

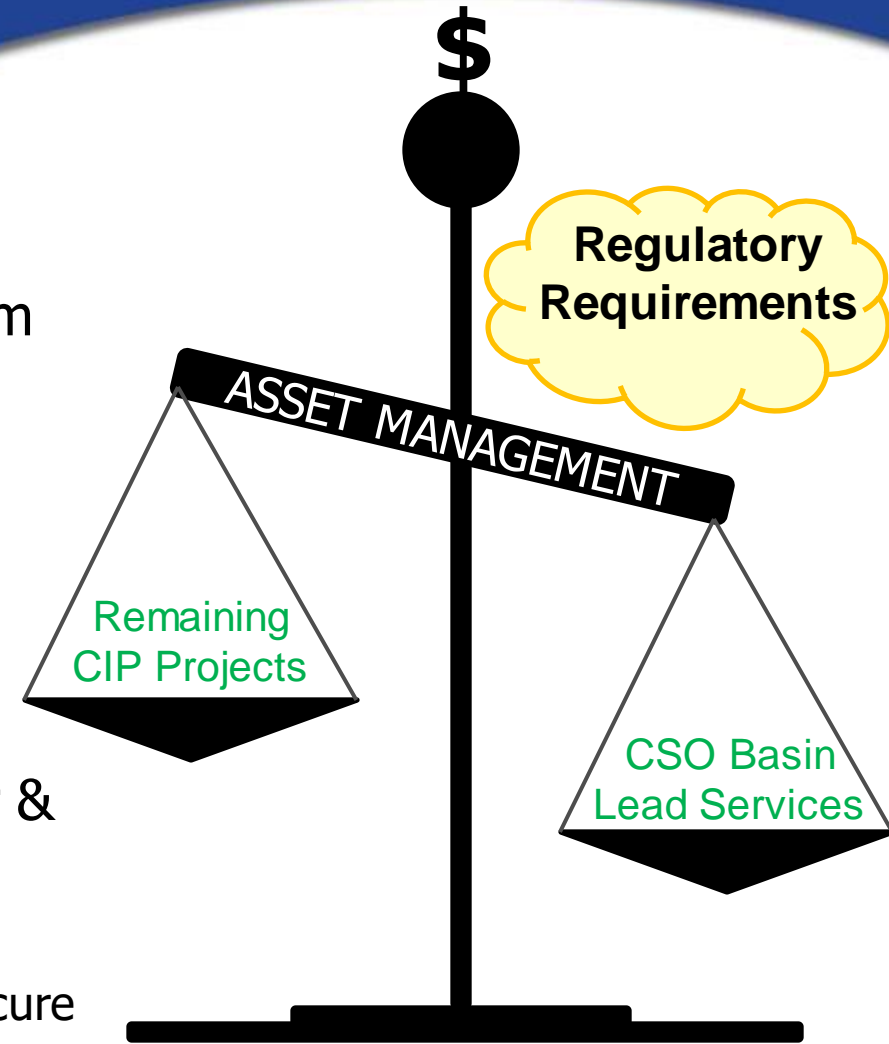
Asset management ongoing process

## Regulatory Requirements

- Lead service line replacement program
- CSO basin construction

## Remaining CIP Projects

- Preventive Maintenance/Recurring
- Reconstruction
- Rehabilitation
- Significant upward pressure on water & sewer rates
  - Construction INFLATION
  - Grant funding may be more difficult to secure



# Projects Completed Since 2017 CIP

				Year	2017 CIP?	Project Description
		X		2018	Yes	Telemetry at Lift Stations
X	X	X	X	2018	Yes	Wallace Avenue Reconstruction
			X	2018	Yes	2018 Sidewalk & Spot Concrete Replacement
		X		2019	No	Central Ravine Interceptor I & I Removal (2017-20 HLL)
		X		2019	Yes	Slip Lining
			X	2019	Yes	Cape Seal
			X	2019	Yes	Crack Seal
			X	2019	Yes	Fog Seal
X				2020	No	2020 High Sample LSLR (2018 LCR)
X				2020	Yes	Cut & Cap 10-inch Marina Island to Benton Harbor

HLL = High Lake Level

LCR = Lead Copper Rule

# Projects Completed Since 2017 CIP

(continued)

				Year	2017 CIP?	Project Description
X	X	X	X	2020	Yes	Orchard Ave Reconstruction
X	X	X	X	2020	Yes	Kingsley Ave Reconstruction
X	X	X	X	2020	Yes	Morton Ave Reconstruction
			X	2020	Yes	2020 Sidewalk Replacement Project
X				2021	No	Broad Street LSLR (2018 LCR)
			X	2021	Yes	Concrete Pavement Prevetive Maintenance
X	X	X	X	2021	Yes	Langley Ave Reconstruction
X				2022	No	Botham Ave LSLR (2018 LCR)
X				2022	No	2022 High Sample LSLR (2018 LCR)
			X	2022	Yes	2022 Sidewalk Replacement

LCR = Lead Copper Rule

# Projects Underway or Ongoing

				Year	2017 CIP?	Project Description
X				2022	No	2022 LSLR – Future Project Areas (2018 LCR)
		X		2022	No	Inflow & Infiltration Removal Pilot
X	X	X	X	2022	Yes	Lester Ave Reconstruction
X	X	X	X	2022	Yes	Willa Drive Reconstruction
X	X	X	X	2022	Yes	Donna Drive Project
			X	2022	Yes	Broad Street/Langley Avenue Resurfacing (TIP)
		X		2025	Yes	CSO Project - CSO storage (Schedule Δ)
		X		N/A	Yes	CSO Compliance

TIP = Transportation Improvement Plan

LCR = Lead Copper Rule





# Progress has been very good

- 20 Projects Completed
- 8 More Underway or Ongoing

Regulatory requirements given high priority

# Upcoming Projects

## Regulatory/Recurring

- Lead Service Line Replacement Project – next 20 years
- CSO Compliance Program – 2025 to 2027 CSO Storage
- Preventive Maintenance

## Funded\* Reconstruction/Rehabilitation Projects

- 2023/2024 Upton Drive Reconstruction (multiple funding sources\*)
- 2024 Lake Blvd Resurfacing (TIP – STUL)
- 2025 Botham Avenue Reconstruction (TIP – STUL)
- 2027 Main Street/Ship Street/Port Street Reconstruction (MDOT\*)



# Upcoming Projects

## Unscheduled Projects at the top of the priority list

- Anchors Way & Anchors Court Pavement Rehabilitation
- Anchors Way Drainage Improvements
- State Street Sanitary Sewer Retirement
- Harrison Avenue Area Sewer Replacement (Wayne & Jones)
- S State Street Resurfacing – Main to Winchester
- Alco & North Pier Lift Station Rehabilitation/Replacement

Funding sources come into play  
in the timing of these future projects.



# Next Steps

- Update the CIP - project priority list (PPL) with public input by October 31st
- Finalize the PPL after input, project costs, and rate study
- Future: Public Meeting #3 to present finalized CIP with rate impacts
- Utilize the CIP in the budget process; first study session in December



# Asset Management Program Informational Meeting #2

Thank you for attending today!

