

Infiltration and Inflow Control Program Question and Answer Session

February 2, 2016 February 4, 2016



History

1985 MWRD adopts Sewer Summit

Agreement, establishes ICAP

2012-2014 Planning for new I/I control program

July 2014 MWRD adopts IICP in WMO Article 8

March 1, 2016 First submittal under IICP due to

MWRD



Who needs to submit reports to the MWRD?

All Satellite Entities:

Parties who own a public sanitary sewer system that discharges directly or indirectly into the MWRD's system

- ICAP communities
- Systems added to MWRD through annexations
- New system owners



What needs to be submitted by March 1, 2016?

Forms

Sewer System Map

Supporting documentation (if applicable)



High Priority Deficiencies

Defects that have a low cost of removal to I/I flow ratio or that have high likelihood of causing sewer collapse or blockages if not rehabilitated.

Must be addressed as quickly as possible.

Examples:

- Direct and indirect cross connections
- Directly connected or poorly disconnected downspouts
- Missing or damaged cleanout covers
- Defects with NASSCO Grade of 4 or 5



Forms due March 1, 2016

- 1. Sanitary Sewer System Description & Inventory Form*
- 2. Short Term Requirements Annual Summary Report
- 3. Condition Assessment Prioritization Form
- 4. Status of High Priority Deficiencies Form, *only* if HPDs have been identified but not corrected in 2015
- 5. Capital Improvement Plan, *only* if HPDs have been identified but not corrected in 2015, *and* the means of correcting these HPDs is a capital improvement.



Sewer System Map

Show full extent of satellite system's service area.

Identify the high risk sewers.

Show the extent of areas served by high risk sewers.

Identify the sewers that have been inspected in reporting year.



Sewer System Map

Identify the sewers that have been inspected between July 10, 2009 and July 10, 2014, *if* you seek credit for such work.

Identify the sewers that have been CIPP lined for which an equivalent length of sewer will be inspected instead.*

Identify the equivalent length of non-high-risk sewer to be inspected in lieu of CIPP-lined high-risk sewer.*

^{*} If you pursue this option



MWRD Mapping Examples SEWER ATLAS EXHIBITS

Overview of Sewer Maps

Separate Sewer Systems

- Merrionette Park
 Small System (23,256')
- South Lyons Township Sanitary District Medium System (104,842')
- Alisp

Large System (345,457')

Combined Sewer Systems

Dolton

Sanitary Only (47,237')

Map Attributes

Five Map Set

- Tributary basins
- High priority area
- Pipe size distribution
- Pipe material distribution
- Pipe age distribution

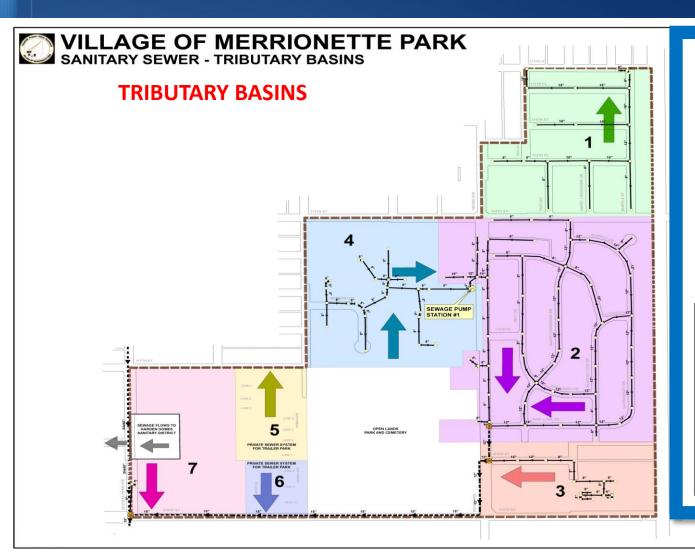
Map Elements

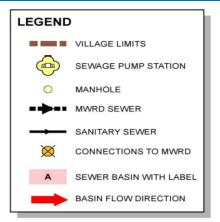
- Village Limits
- Manholes
- Lift Stations
- Flow arrows for basins and pipes
- Open land identified

SMALL SYSTEMS

Merrionette Park

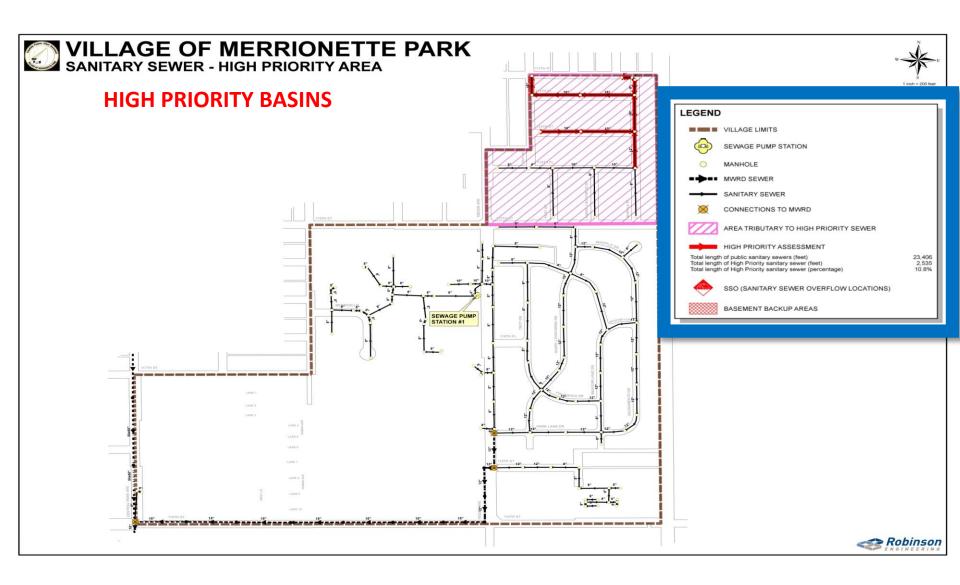
- 23,256' of sewer ranging in 4" to 15"
- Three MWRD connection points
 North tributary basin
 South tributary basin

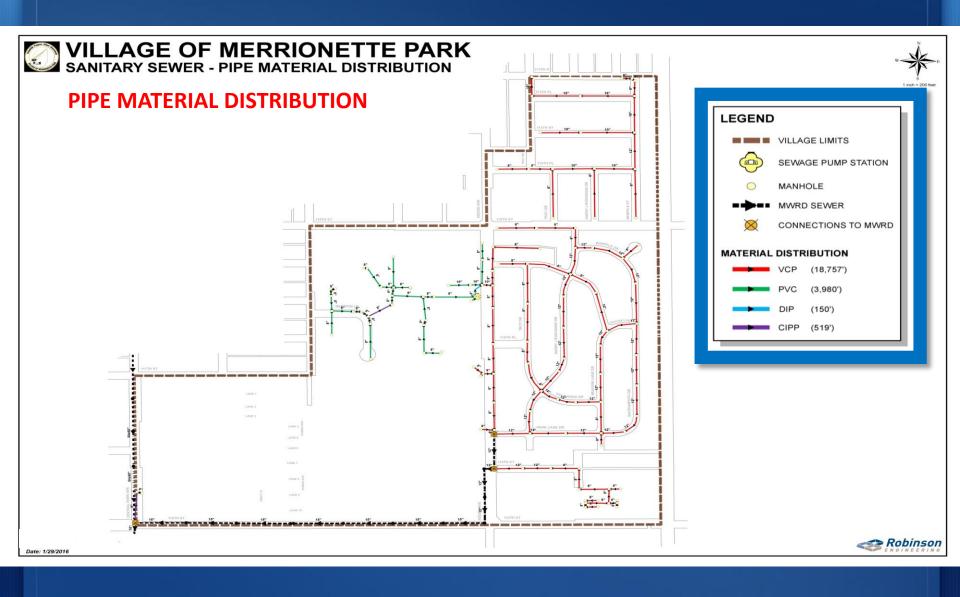


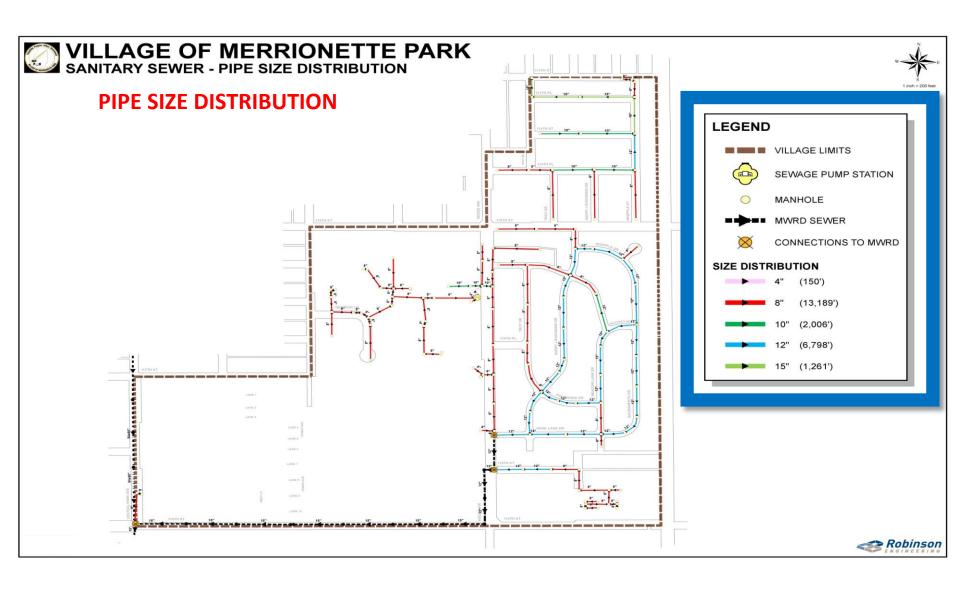


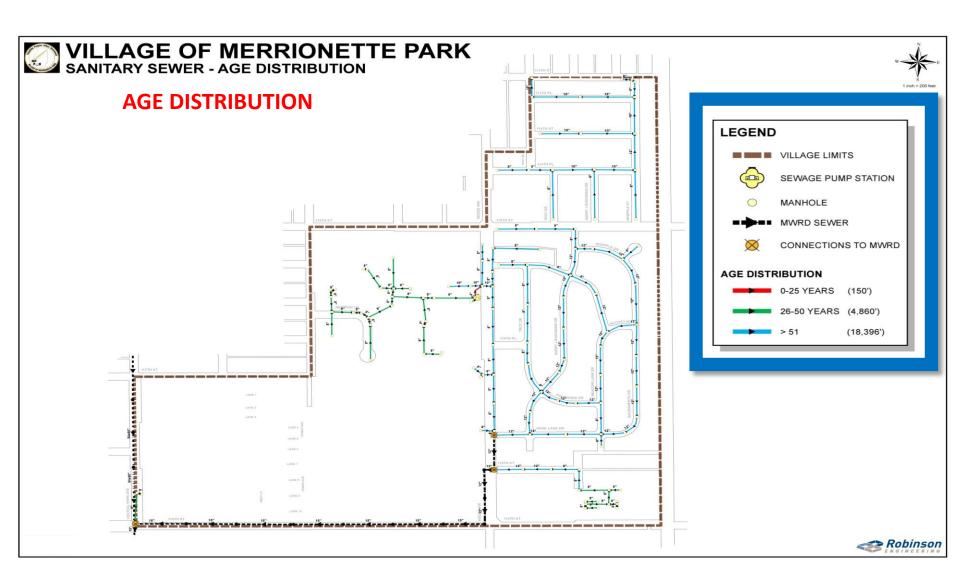
BASIN	ACRES
1	34
2	67
3	20
4	36
5	10
6	5
7	22
TOTAL	194 AC







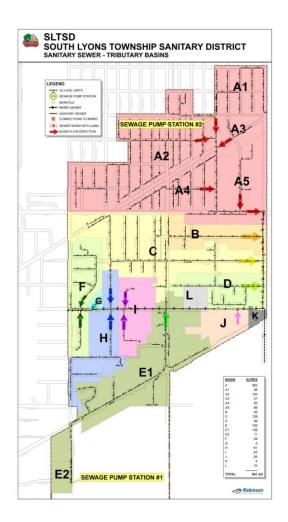


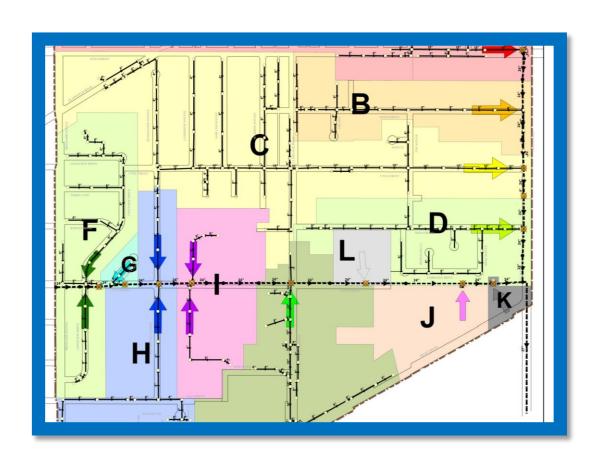


MEDIUM SYSTEMS

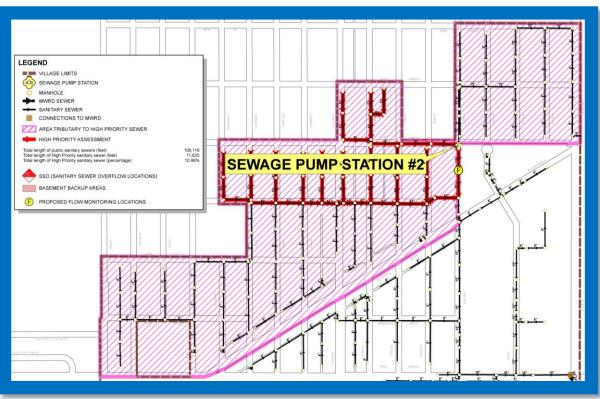
South Lyons Township Sanitary District

- 104,842' of sewer ranging in 6" to 18"
- 12 MWRD connection points12 tributary basins





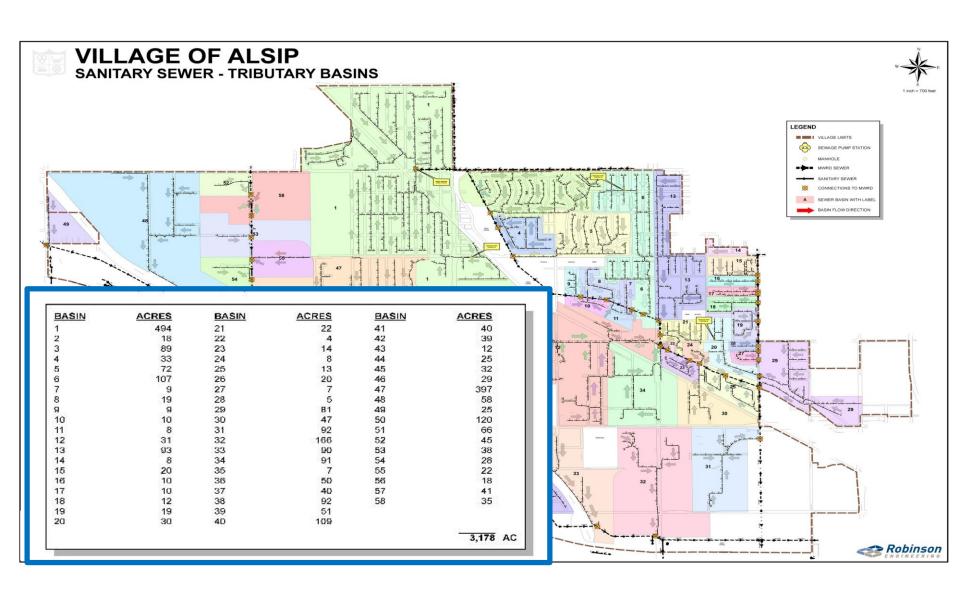




LARGE SYSTEMS

Village of Alsip

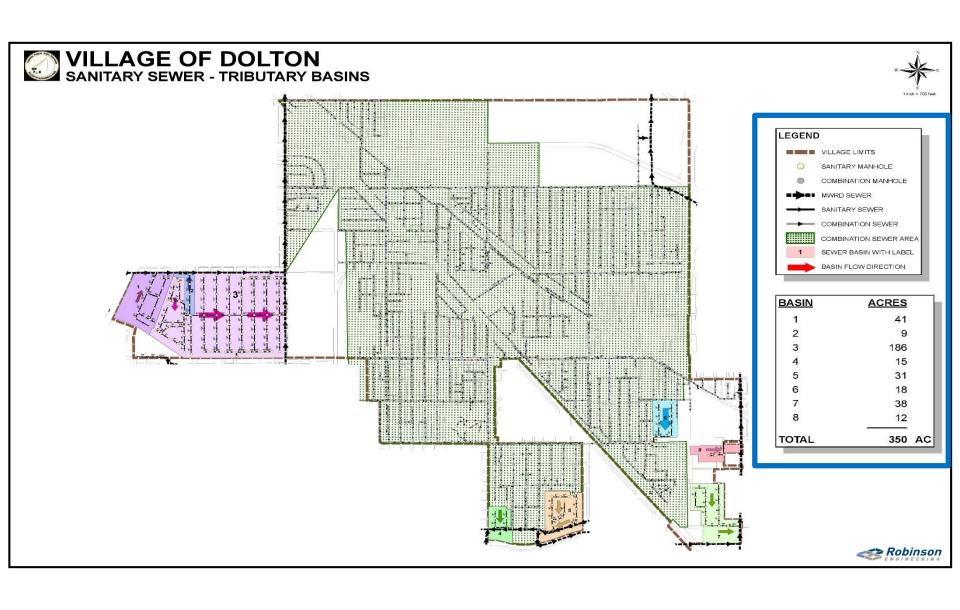
- 312,457 of sewer ranging in 4" to 30"
- 52 MWRD connections points
 - 58 total basins
 - Large difference in basin sizes



COMBINATION SYSTEMS

Village of Dolton

- 47,237' of sewer ranging in 8" to 18"
- Medium system
- Combination sewer displayed by area
- 7 MWRD connections points8 total basins





Supporting Documentation - Credit

To obtain credit for condition assessment performed between 2009 and 2014

- High risk sewers
- NASSCO standards
- Documentation must provide the date of work, name and certificate number of inspector, findings.
- Submit the assessment report
- Identify areas where credit is requested on sewer map



Supporting Documentation - Waiver

If sewers have been rehabilitated by CIPP lining, but are still considered high-risk *and* if you seek a waiver for retelevising such sewers,

- Request the waiver in a letter to the MWRD
- Smoke testing, dyed water testing, and external property inspections in areas served by the lined high-risk sewers still required by end of 2019.
- An equivalent length of non-high-risk sewers and associated manholes must be inspected by end of 2019.
- Provide date of rehabilitation work



Supporting Documentation - Waiver

Sewer map must show

- Rehabilitated high risk sewers that must be smoke tested and dyed water tested
- Areas tributary to these sewers
- Non-high risk sewers to be televised/inspected only
- Un-rehabilitated high risk sewers to be televised/inspected, smoke tested, and dyed water tested

Supporting Documentation – Alternate Inspection Standards

To keep an inspection program that does not use NASSCO standards, submit request letter to MWRD with

- Narrative description of existing program
- Standards for inspections
- Method for classification of defects by severity
- Training requirements
- Inspection forms



Helpful Hints

Perform condition assessment of high priority sewers by end of 2019. At a minimum, assess condition of 10% of sanitary sewers.

Not required to submit records of sewer maintenance or condition assessment, unless credit for assessments in 2009-2014 is requested.

Certain high-priority deficiencies must be addressed within one year of identification, while remainder must be addressed within three years



Submittal Format

Please submit:

- Paper and PDF versions of sewer map
- Paper or PDF version of report forms and supporting documents. PDF is preferred.
- Post to/email to link at: ii.mwrd.org

