

# Department of Public Works Sewer Maintenance Fund



2017 Sewer Capital Budget

# 2017 Sewer Capital Program

■ Sewer Maintenance Relay	\$31,000,000
■ Inflow and Infiltration (I/I)	\$5,000,000
■ Sanitary Pump Rehabilitation	\$700,000
■ Water Quality Projects	\$1,000,000
■ Flood Mitigation Program	\$1,500,000
■ Channel Maintenance	<u>\$200,000</u>
<b>■ Total 2017 Preliminary Sewer Program</b>	<b>\$39,400,000</b>

# Sewer Maintenance Relay

	R/R Budget (million)
2016	\$30.60*
2017	\$31.00
2018	\$32.00
2019	\$32.00
2020	\$32.00
2021	\$33.00
<b>Total</b>	<b>\$190.60</b>



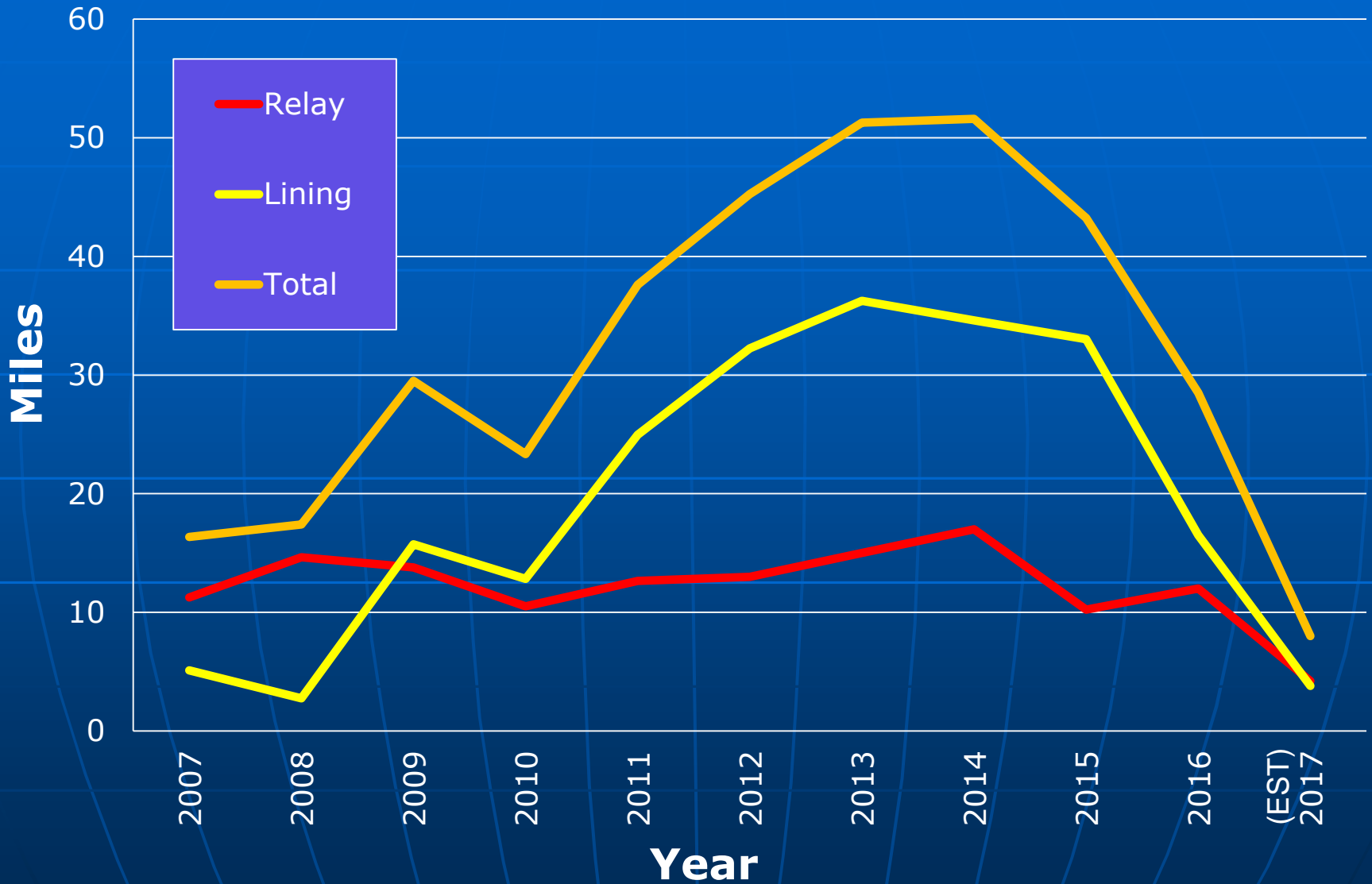
\* Includes \$2.6 M in reserves

# 2017 Major Projects

5.0 Miles of Sewer Relay, 4.3 Miles of Sewer Lining

- N 26<sup>th</sup> St (E/S) –  
W Walnut St to W Meinecke Ave: \$8,090,000
  - 3,915' of 78"-108" Dia. (1884 and 1926)  
Combined Sewer Slip-Lining
  
- N 26<sup>th</sup> St (W/S) –  
W Walnut St to W Meinecke Ave: \$5,566,000
  - 2,895' of 84"-96" Dia. (1880's and 1890's)  
Combined Sewer Relay

# 2007 - 2017 Sewer Replacement



# Inflow and Infiltration (I/I) Reduction

	I/I Budget (million)
2016	\$4.95*
2017	\$5.00
2018	\$5.00
2019	\$5.00
2020	\$5.00
2021	\$5.00
<b>Total</b>	<b>\$29.95</b>



\*Includes \$450,000 in reserves

MMSD's PPII Grant for 2017: \$1.65 M

# Purpose of Inflow and Infiltration (I/I) Reduction Projects

- To address higher flows in MMSD's non-compliant metersheds
- To reduce basement backups and remove unwanted clear rain water from sanitary sewers
- To reduce Sanitary Sewer Overflows (SSO)

# Sanitary Pump Rehabilitation

	Pump Rehab (million)
2016	\$0.70
2017	\$0.70
2018	\$0.70
2019	\$0.70
2020	\$0.70
2021	\$0.70
<b>Total</b>	<b>\$4.20</b>



**Before**



**After**



# Purpose of Pump Rehabilitation

- Flow is pumped from the sanitary sewer to a higher level sanitary sewer (Lift Station) or a storm sewer (Bypass Pump) to prevent basement backups.
- Rebuild existing pump sites, including new pump and components
- Maintain SCADA telemetry system
- Design SCADA system upgrades
- Perform monthly pump checks and “load” tests at all sites

# Storm Water Quality Projects

	Water Quality Projects (million)
2016	\$ 1.00
2017	\$ 1.00
2018	\$ 1.00
2019	\$ 1.00
2020	\$ 1.00
2021	\$ 1.00
<b>Total</b>	<b>\$ 6.00</b>



\* MMSD Green Solution Grant for 2017: \$0.66 M

Sewer Maintenance Fund

# Purpose of Storm Water Quality Projects

- Reduce Stormwater Peak Flows
- Improve Water Quality of Rivers and Lakes
- Improve Urban Aesthetics

# Flood Mitigation Program

Budgeted amount is \$1.5 Million

- Copernicus Park Flood Control Project – Phase 2



# Channel Maintenance

	<b>Channel Maintenance (million)</b>
<b>2016</b>	<b>\$0.00</b>
<b>2017</b>	<b>\$0.20</b>
<b>2018</b>	<b>\$0.20</b>
<b>2019</b>	<b>\$0.20</b>
<b>2020</b>	<b>\$0.20</b>
<b>2021</b>	<b>\$0.20</b>
<b>Total</b>	<b>\$1.00</b>



# Purpose of Channel Maintenance

- Remove large debris from channels and culverts to maintain proper drainage
- Clean sediments from channels
- Bank stabilization and outfall protection