

2018 – 2023 Draft Capital Facilities Plan

Drinking Water, Wastewater and
Storm and Surface Water Utilities

Utility Advisory Committee
May 4, 2017

*Topics

- Background
- Review of projects and their costs
- Next steps

CFP Background

- 6-year plan with annual updates
 - First year is authorized by City Council to proceed
- Required by State Growth Management Act
 - Becomes part of the City Comprehensive Plan
- Covers Water Resource utilities as well as Transportation, Parks, and General Government
 - Separate funding with project coordination
- Key element of overall Utility finances
 - Roughly 1/3 of annual budgets
 - Rate implications

Capital Facility Planning

- Approach
 - Meet public health, safety, and natural resource responsibilities
 - Meet legal or statutory requirements
 - Balance needs with affordability
 - Take care of current and likely future problems
 - Incorporate sustainability concepts
 - Foster community pride and sense of place

Incorporating Utility Master Planning



Prioritizing Projects

- State and Federal mandates
- Master Plan objectives
- Coordination with other projects (Transportation)
- Condition rating/ Proactive maintenance
- Safety and emergency preparedness
- Environmental stewardship
- Innovation
- Opportunity
- Operations & maintenance costs

Drinking Water Utility



*Overview

- Water System Plan adopted in 2015
 - Good understanding of capital needs
- Comprehensive Utility financial analysis completed in 2015
 - Rates, bonds, loans, and postponement
- Continued costly projects
 - \$18M in projects currently in construction

Recent Big Accomplishments

- Log Cabin reservoir construction underway
- Fones Road Booster Pump Station
- Meridian Corrosion Control System



* Specific 2018 Drinking Water Projects

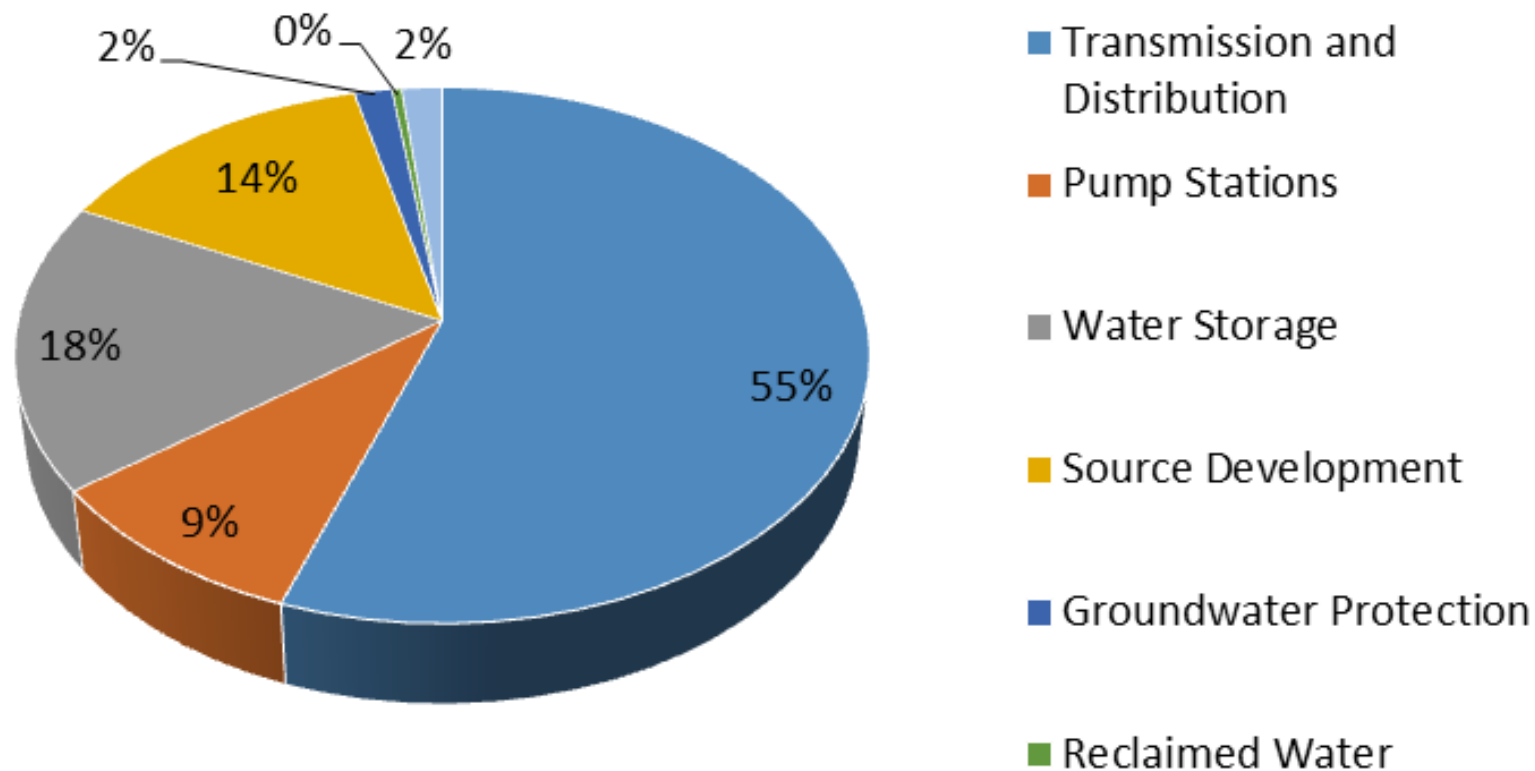
Projects	2018 Funding
Asphalt Overlay Adjustments	12,000
Small Diameter Water Pipe Replacement	563,000
Aging Pipe Replacement	563,000
Asset Management Program	57,000
Corrosion Control Aeration Tower Condition Assessment & Upgrades	29,000
Cross Country Mains	29,000
Distribution and Transmission Main Condition Assessment	184,000
Distribution System Oversizing	31,000
On-site Generator Replacement Plan	86,000
Security and Remote Systems Plan	53,000
Booster Station Upgrade / Rehabilitation	170,000
Water Meter Replacement Program	263,000
Kenyon Ross Intertie and Otis St PRV	225,000
Elliot Reservoir Seismic Retrofit Construction	1,591,000
Fir Street #1 and #2 Reservoirs Seismic Retrofit Construction	1,708,000
Hoffman Court Reservoir Coating Replacement Design	141,600
McAllister Wellfield Mitigation (Smith Property Restoration)	30,000
McAllister Wellfield Mitigation (Woodland Creek Infiltration Facility)	10,000
Groundwater Monitoring Wells	225,000
Wellhead Protection Program	170,000
Groundwater Protection (Eastments, Appraisels, etc.)	18,000
Pre-Design and Planning	24,000

Drinking Water

Proposed CFP Funding by Year

Year	Proposed CFP Funding
2018	\$6,182,600
2019	\$3,737,400
2020	\$6,005,000
2021	\$2,336,000
2022	\$3,191,600
2023	\$6,419,400
TOTAL	\$27,827,000

Drinking Water Funding Distribution



Drinking Water Summary

- CFP is consistent with current and potential future Water System Plan
- Key projects need to move forward
- More and more energy into priority setting and financial management
- Continued rate implications

Wastewater Utility



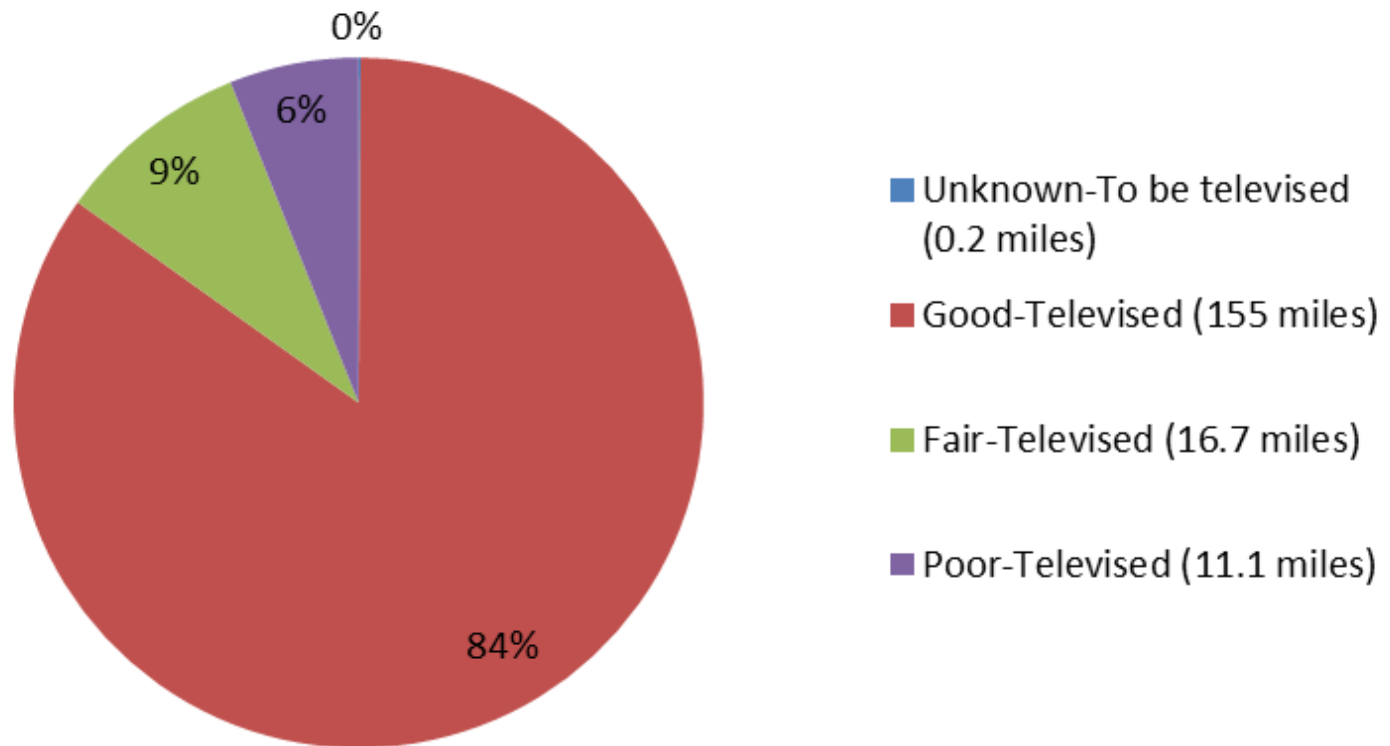
Wastewater CFP

- 2013 Wastewater Management Plan
 - Being implemented ...straightforward
- Key infrastructure responsibilities
 - Lift station upgrades
 - Existing pipe repairs and upgrades
 - Occasional new pipe extension
 - Onsite septic system conversions

*Overview

- Modest future needs
 - Keep up with pump stations retrofits
 - Repair pipes
 - Facilitate septic system conversions
 - Could become a bigger program
- Expect rate-based finances
 - Minimal or no loan and bond funding
- Televising and condition rating of pipe system complete
- Manhole inspections 52% complete

Wastewater Condition Rating



* Specific 2018 Waste Water Projects

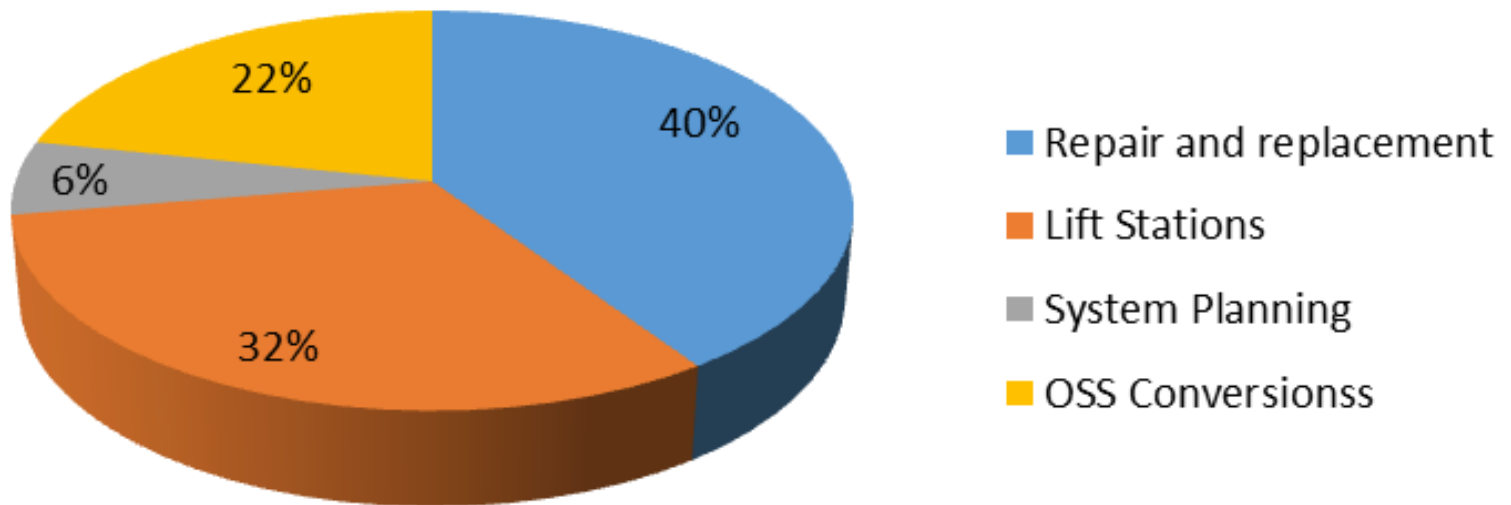
Projects	2018 Funding
Asphalt Overlay Adjustments	12,000
Prioritized Repairs	500,000
Spot Repairs	113,000
Manhole Repair and Replacement	113,000
Side Sewer Repairs	25,000
SE Area STEP Conversions	500,000
Onsite Generator Replacement Plan	86,000
Water St Lift Station Generator Construction	400,000
Sewer System Televising and Condition Rating Program	25,000
Sewer Force Main Condition Assessment Program	32,000
Annual Sewer Extensions	170,000
Neighborhood Sewer Program	189,000
Pre-Design and Planning	42,000

Wastewater

Proposed CFP Funding – By Year

Year	Total Proposed CFP Funding
2018	\$2,207,000
2019	\$2,014,000
2020	\$1,761,000
2021	\$1,250,000
2022	\$1,561,000
2023	\$1,137,000
TOTAL	\$9,930,000

Wastewater Funding Distribution



Wastewater Summary

- CFP is consistent with the Wastewater Management Plan
- High level of knowledge regarding infrastructure condition and integrity
- Proactively rehabilitating older pump stations
- No needs for pipe capacity upgrades
- Onsite septic system conversions

Storm and Surface Water Utility



Storm and Surface Water CFP

Goals

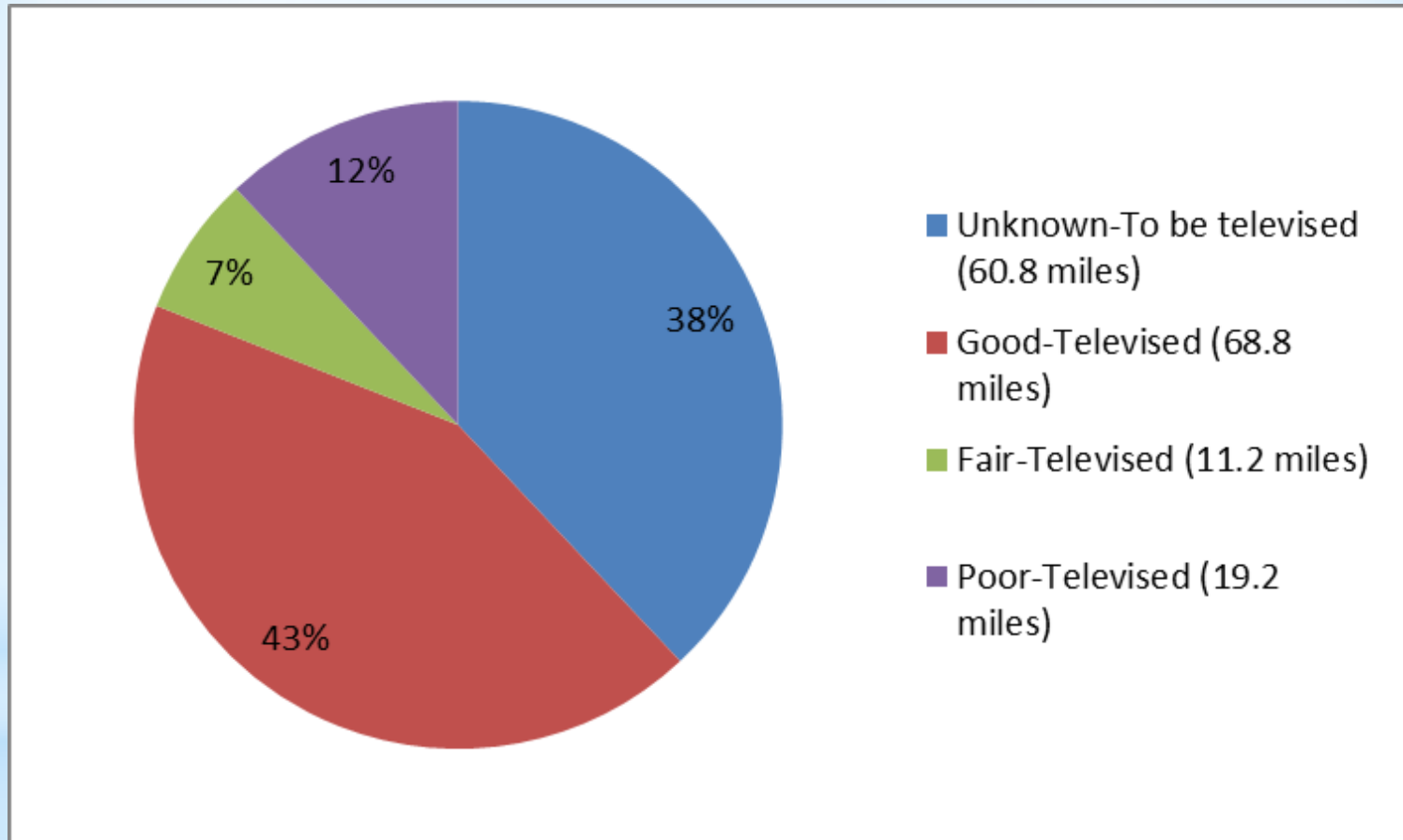
- Flooding
- Water quality
- Aquatic habitat



*Overview

- Updating the 2003/2010 Storm and Surface Water Management Plan
 - Goals, level of service and finances
 - Broad responsibilities
- Using State grants and loans for water quality retrofits
 - High-traffic, commercial corridors
- Pipe televising and condition rating 62% complete

Stormwater Pipe Condition Rating



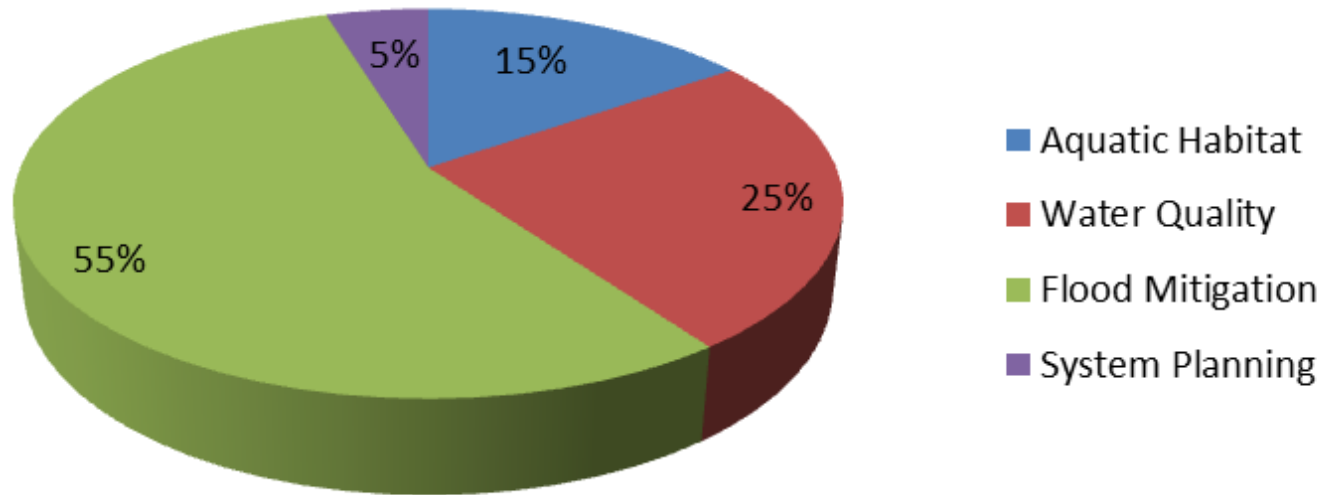
* Specific 2018 Storm and Surface Water Projects

Projects	2018 Funding
Pathways	150,000
Habitat Improvement/Stewardship	266,000
Union Avenue at Plum Water Quality Retrofit (75% grant funded)	600,000
Conveyance Spot Repairs (Pipe Replacement)	79,000
Condition Rating Existing Conveyance	145,000
Public Pond Rehabilitation ("City Owned")	50,000
Downtown Flood Mitigation	130,000
Cooper Point and Black Lake Conveyance Construction	2,400,000
Ken Lake Flood Conveyance - Design	169,000
Infrastructure Predesign and Planning	50,000
Pervious Pavement Contingency Fund	25,000
GIS Mapping & Asset Management Support	50,000

Storm and Surface Water Proposed CFP Funding by Year

Year	Total Proposed CFP Funding
2018	\$4,214,400
2019	\$2,920,000
2020	\$2,345,000
2021	\$2,344,000
2022	\$3,190,000
2023	\$2,085,000
TOTAL	\$17,148,000

Storm and Surface Water Funding Distribution



Storm and Surface Water Summary

- Maintaining infrastructure
 - Need better vegetation management through operating budgets
 - Staffing needs associated with LID inspection and maintenance
- Continuing to pushing flood mitigation projects out
- Funding habitat stewardship
- Assuming successful water quality retrofit grant funding

Next Steps - 2018 CFP Process

- **July 18** - City Council Finance Committee - Preliminary CFP
- **August 7** - Planning Commission public hearing
- **October 17** - Council discussion and public hearing
- **December 12 & 19** - Council adoption

Questions and Discussion

