

Cathodic Protection Rehab

22N.2

Priority Score: 66.10

Project Type:

Rehabilitation

Growth Related?:

No

Estimated Useful Life (years):

30

Future Replacement Cost:

Priority Level:

High

Department:

Public Works and Engineering

Staff Contact:

Manager of Public Works

Location/Coordinates:

Various

Cash Flow Projection:

	2025	2026	2027 +
Studies			
In House Engineering			
Design or Engineering			
Communication / Signage			
Construction / Contractor	\$ 275,000	\$ 310,000	\$ 570,000
Materials			
Equipment/Misc			
Contingency			
Total	\$ 275,000	\$ 310,000	\$ 570,000

Costs Incurred to 2024 Year End

Impact on Operating Budget	\$ 0	\$ 0	\$ 0
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Total Project Budget: \$ 1,155,000

Schedule:

Construction Start Date: 07/01/2023

Substantial Completion or purchase date: 08/01/2026

Funding Sources:

Water Rates	\$ 1,155,000
Please Select	
Please Select	
Please Select	
Please Select	
Capital Reserve	\$ 0

Description and Rationale:

Replacement of Cathodic Protection on large diameter critical ductile iron trunk watermain. This slows/eliminates corrosion via an electrochemical process whereby the anode decays instead of the main. However, the anodes were all installed in the early 1990's and are now at the end of their useful life, as determined by a cathodic protection survey undertaken in 2013 which measured the remaining electrochemical protection. In some cases the trunk main can be cathodically protected without disturbing asphalt but in many cases some limited asphalt disturbance will be required.

The City continues to follow the multi year program to protect watermain as laid out in 2013.

Attach Images:

22N.2.JPG

Opens the attachment panel. Double click files to view images attached. Maximum Size: 10MB

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

People	How many people will be directly impacted by the project?	4	Watermain failures can affect a significant area
Health and Safety	What is the risk to the health and safety of the public or Staff if the project does not proceed?	5	Watermain breaks can damage property and result in poor water quality
Legislation	Is the project required for legislative/regulatory compliance?	5	Safe Drinking Water Act
Asset Management	Is the project a high priority for replacement in the asset management plan.	4	The intent is to extend the useful life of water infrastructure
Operational Performance	If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance.	3	Failure to do this could result in vastly increased watermain breaks as older watermain rots in place
Financing	Can the cost of investment be leveraged or are there partnership funds available?	2	Water Rates
Environment	Does the project address needs impacted by climate change?	3	Watermain breaks can affect environment : chlorinated water in receiving water
Socio-Economic Factors	To what degree does the project support diversity and inclusion Initiatives?	1	No public spaces adversely impacted
Aesthetic Value	To what degree is the aesthetic value of the asset improved?	1	Not significant aesthetic impact
Strategic Plan	Does the project help to meet a Key Result in the Strategic Plan?	1	N/A: Core Service
Public Input	Has the project been identified through public engagement?	1	Watermain Projects generally are not.