

WATER UTILITY BOARD

CAPITAL PROJECTS MONTHLY REPORT

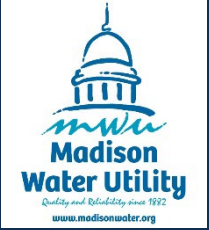


Pete Holmgren, P.E.
Chief Engineer

November 22, 2022



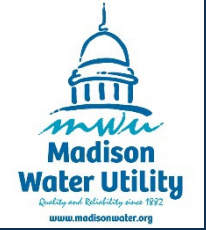
Capital Projects Monthly Report



■ PRESENTATION OVERVIEW:

1. 2022 Capital Expenditures Status – As of September 30, 2022
2. Major Capital Project Updates:
 - Unit Well 19 Fe, Mn, Radium Treatment Facility
 - Unit Well 15 PFAS Treatment Facility
3. Monthly Project Highlight:
 - CIPP – Lake Mendota Drive

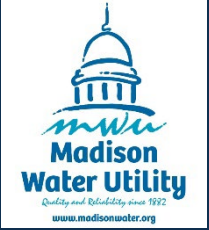
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2022 Capital Expenditures Status – As of September 30, 2022:

- **2022 Total: \$2,093,502** (increase of \$309,450 since August 31, 2022)
- Overview of August 2022 Capital Expenses:
 1. Pipelines: \$193,378
 - Lake Mendota Drive (CIPP), Russell Street Reconstruction
 2. Facilities: \$52,308
 - Well 19 Treatment, Well 8 Sentinel Well
 3. Fleet/Other: \$63,763
 - MCC Upgrades; Well motor repairs; Meter purchases; Hydrant repair/replacements

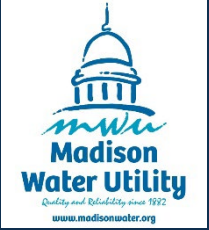
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Major Project Update: Well 19 Fe, Mn, Radium Treatment Facility

- Project Budget: \$9,088,000 (2022 Budget: \$891,000)
 - Current status: Design
 - Proceeding with recommended/approved design option:
 1. Filter room addition to NE section of existing building + new backwash tank
 2. Reconfiguration of driveway and landscaping to accommodate requests of UW
 - Evaluation of construction schedule feasibility; 2023 award / 2024 start / 2025 finish?
 - Upcoming:
 - Pre-application joint meeting with PSC and DNR
 - Staff review and discussion of 60% plans and specifications

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Major Project Update: Well 15 PFAS Treatment Facility

- Project Budget: \$5,943,000 (2022 Budget: \$425,000)
 - Status update: Design
 - Review of design layout options with approved treatment methods
 - Review of Ion Exchange and Granular Activated Carbon operations/maintenance
 - Working towards 60% plans and specifications
 - Upcoming:
 - Next planning meeting: November 30

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Monthly Project Highlight: CIPP – Lake Mendota Drive



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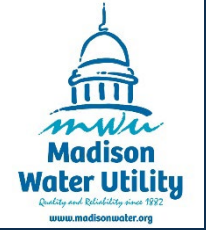
Monthly Project Highlight: CIPP – Lake Mendota Drive

CIPP Overview:

- Woven fabric tubing w/liquid epoxy inserted and cured inside of existing pipe
- Durable water-tight surface layer with full structural strength
- Expected to last at least 50 years before additional maintenance is considered
- Service connections are bypassed during work and reinstated upon proper cure and testing



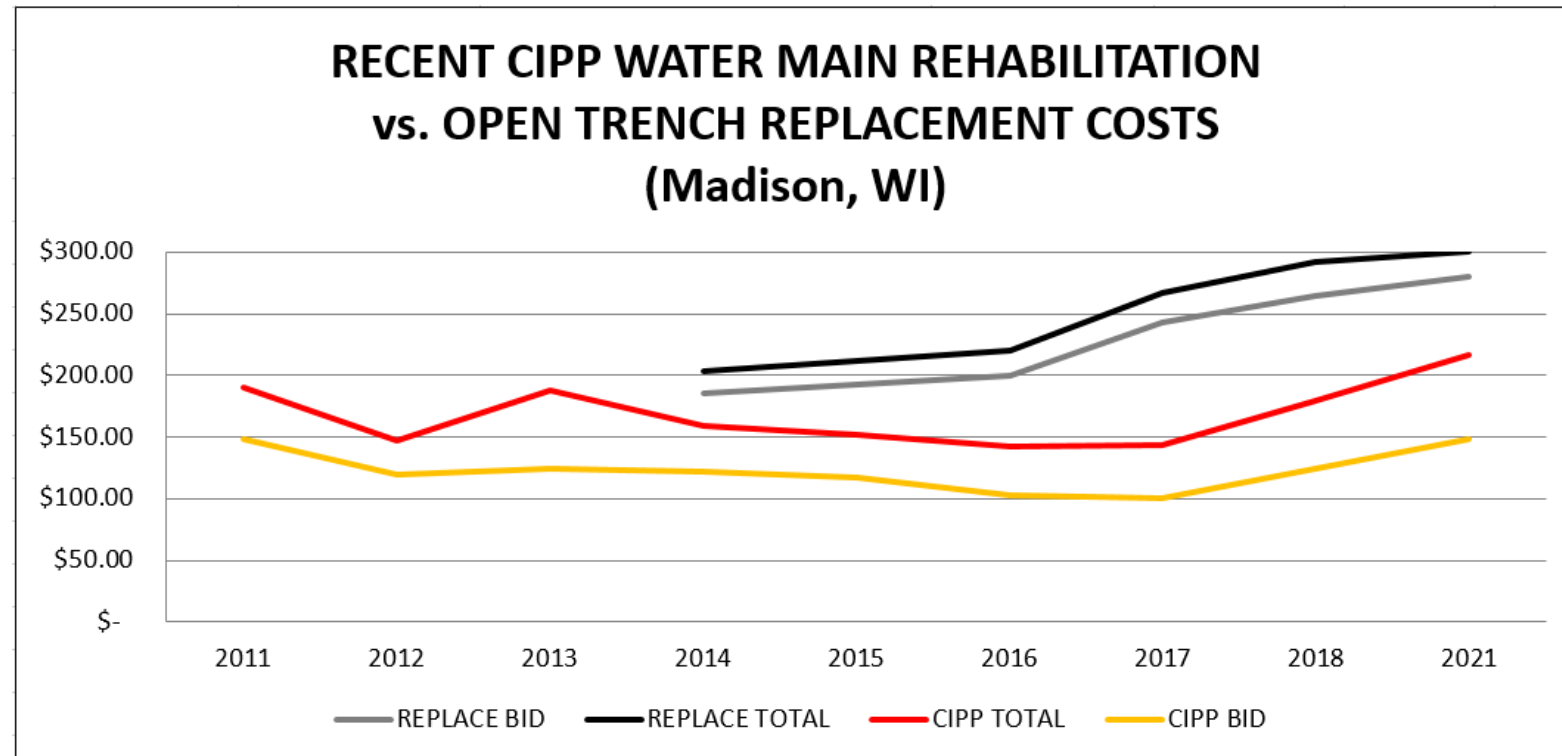
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Monthly Project Highlight: CIPP – Lake Mendota Drive

Project by the numbers:

- Over 2,600-feet of 8 and 12-inch pipe
- 40 water services reinstated
- Approx. \$400K contract value
- Approx. 60 days to complete



*2022 CIPP BID: Approx. \$152/ft

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Monthly Project Highlight: CIPP – Lake Mendota Drive

Project challenges:

- Coordination with residents
- Village of Shorewood and bypass
- Traffic management
- Future street reconstruction work
- Managing or replacing sections of pipe that could not be lined
- Staff scheduling and capacity





Questions / Comments?

Contact Information:

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