

Authorization of Increase of Total Project Cost: Nine Springs Liquid Processing Improvements – Phase 2

May 15, 2025

Madison Metropolitan Sewerage District



Project Background

- Liquid Processing Facility Plan 2016
- Phase 1 (Complete 2021)
 - Handle increased flow
- Phase 2 (CURRENT PROJECT)
 - Handle increased loadings
 - Replace equipment related to biological treatment
- Phase 3 (Future)
 - Headworks Facility upgrades

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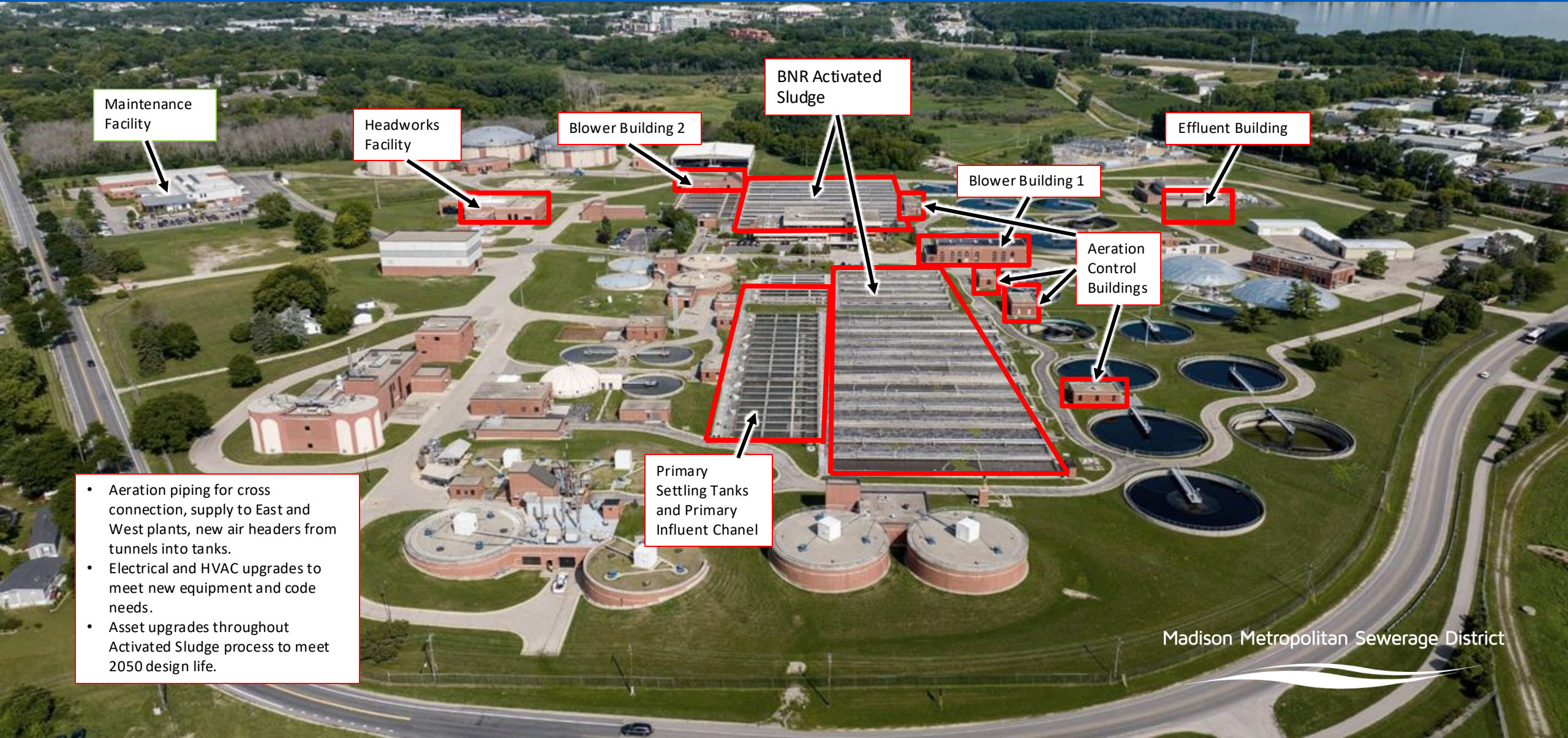




Why...

- Loadings will increase between now and 2050.
- Equipment that supports biological treatment needs replacement.
- Upgrades needed to continue to meet needs of growing community & maintain permit compliance.

NSLPI-2 Anticipated Work



Maintenance Facility

Headworks Facility

Blower Building 2

BNR Activated Sludge

Blower Building 1

Effluent Building

Aeration Control Buildings

Primary Settling Tanks and Primary Influent Channel

- Aeration piping for cross connection, supply to East and West plants, new air headers from tunnels into tanks.
- Electrical and HVAC upgrades to meet new equipment and code needs.
- Asset upgrades throughout Activated Sludge process to meet 2050 design life.

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Where we are with design process



RFP for Design Services - Sept 2022



Strand/Brown & Caldwell began Alternatives Analysis and Preliminary Design – Jan 2023



Preliminary Design Report Complete – Nov 2024



Detailed Design – May 2026



Bidding – projected June 2026



Construction – projected complete 2029



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Cost Increases

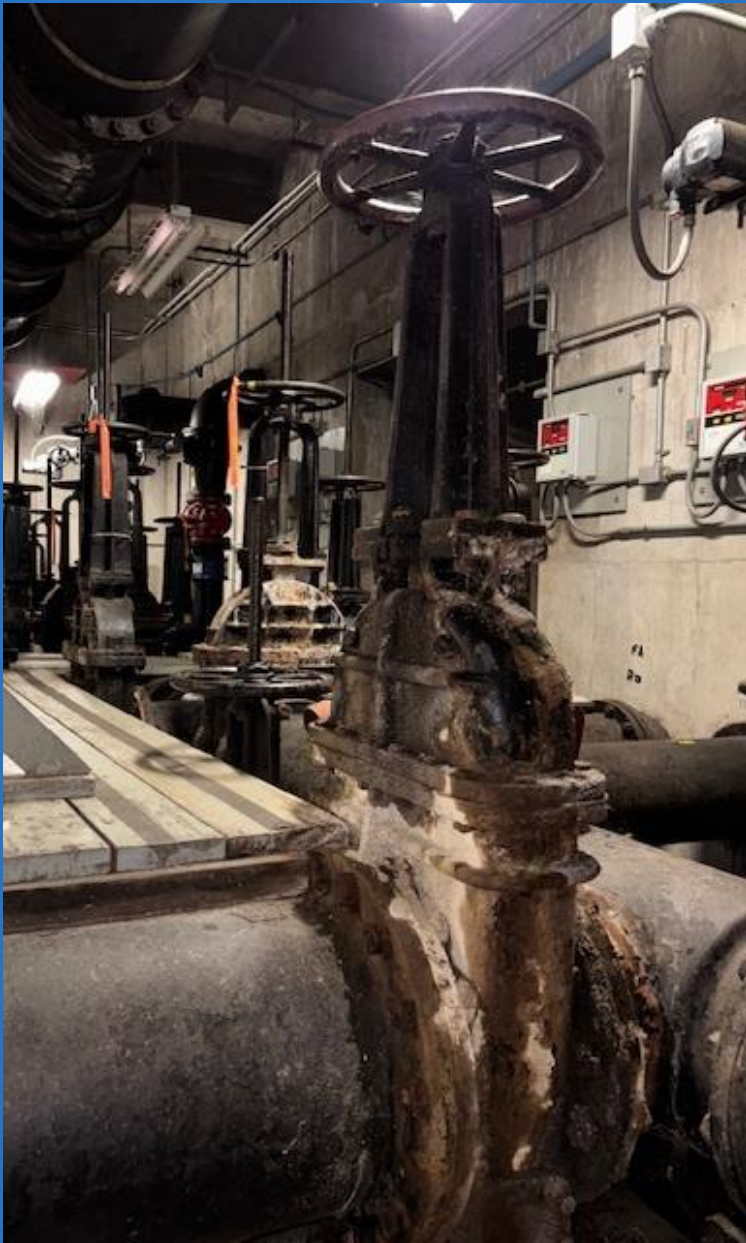


- Increase scope of work
 - \$9.2 million (2024\$) – additional assets
 - Assets related to work to be done but not included in facility plan (i.e. RAS and WAS pumps)
 - Assets near or beyond service life
 - Assets that require major plant shutdowns to repair (shutdowns already needed with project)
- District staffing costs = \$2.3 million (2024\$)
- Increased inflation rate
- Project duration extends to 2029
- Projected service charge increases on attachment











Requested Action

Authorize increase of total project cost from \$76.15M to \$92.0M.

Resolution #2025-05-15-R12