

Approve Transaction Amount, Approve Professional Service Agreement Amendment and Bundling of Capital Projects: Nine Springs Liquid Processing Improvements – Phase 2

November 14, 2024

Madison Metropolitan Sewerage District



Project Background

- Liquid Processing Facility Plan 2016
- Liquid Processing Improvements – Phase 1 (2018-2021)
 - Addressed hydraulic issues of the liquid process.
- Liquid Processing Improvements – Phase 2 (2023-2029)
 - Addressing aging infrastructure associated with the activated sludge system
- Liquid Processing Improvements – Phase 3 (Future)
 - Address Headworks Facility upgrades

Madison Metropolitan Sewerage District



Introduction



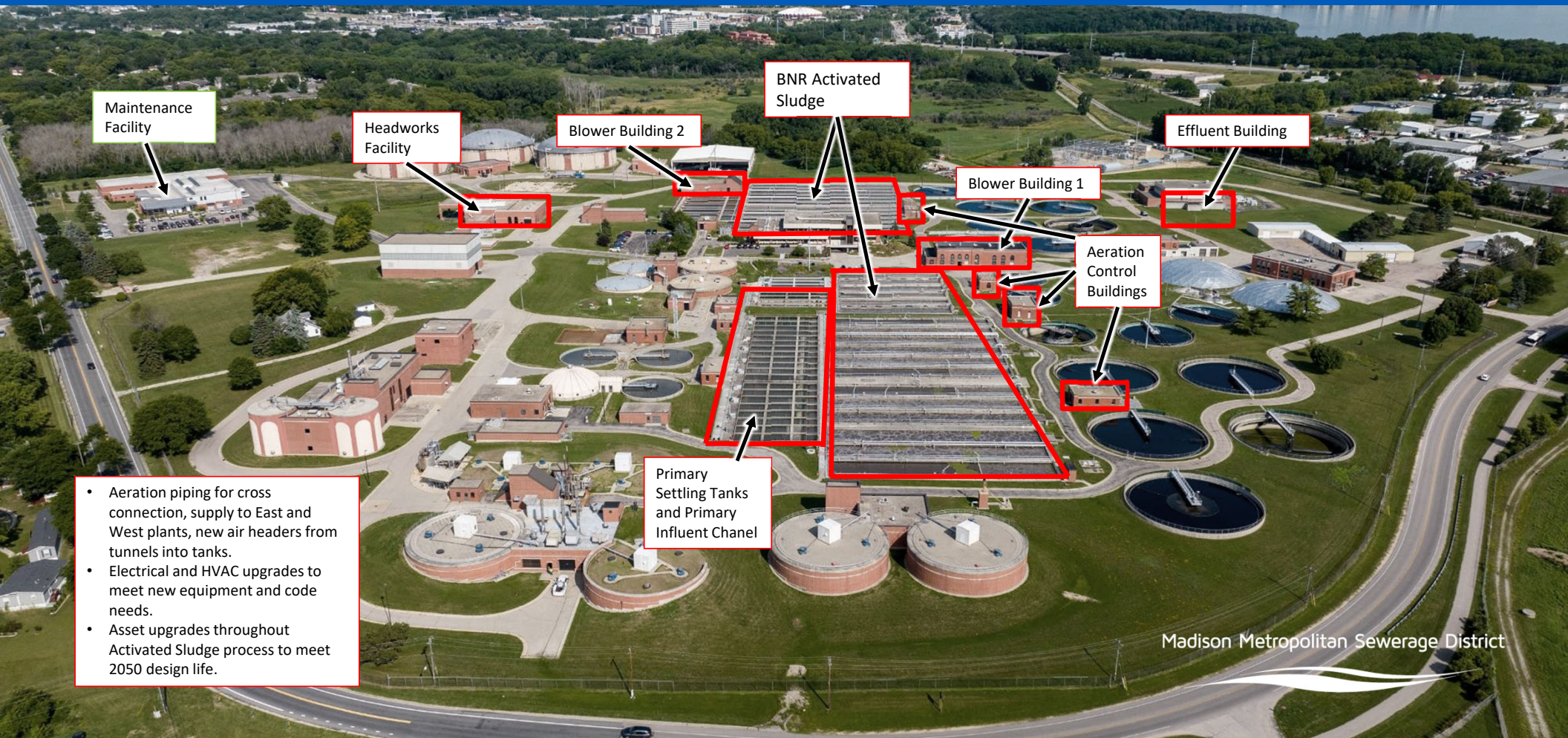
Nine Springs Liquid Processing Improvements – Phase 2 is made up of the following sub projects.

- East Primary Influent Chanel Air Piping Replacement
- Low Dissolved Oxygen Partial Plant
- Low Dissolved Oxygen Full Plant
- West Blowers and Switchgear Replacement
- East Blowers and Switchgear Replacement
- East Primary Tank Rehabilitation
 - 11 of the primary settling tanks in East Plant

Madison Metropolitan Sewerage District



NSLPI-2 Anticipated Work



- 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.

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 (WE ARE HERE)



Detailed Design – projected complete May 2026



Bidding – projected May 2026



Construction – projected complete late 2028/early 2029



Madison Metropolitan Sewerage District





Why this matters...

- Infrastructure well beyond design life
 - WAS and RAS Pumps from 1960's to 1980's
 - Blowers from 1970's and 1980's
- Upgrades needed to meet 2050 loads (must meet permit requirements)
- Energy reduction
- Operational flexibility

Requested Actions

Approve Transaction Amount for Detailed Design Amendment increasing contract from \$821,610 to \$6,272,965.

Approve Professional Service Agreement Amendment extending contract from December 31, 2024 to July 31, 2026.

Bundling of the six Capital Improvement Projects into a single project called Liquid Processing Improvements Phase 2.





Thank you

Madison Metropolitan Sewerage District

