

**TO: LINDA GORTON, MAYOR
URBAN COUNTY COUNCIL**

**FROM: THERESA REYNOLDS, DIRECTOR
DIVISION OF GRANTS AND SPECIAL PROGRAMS**

DATE: August 5, 2022

**SUBJECT: Execute Grant Assistance Agreement with Kentucky Infrastructure Authority
for Cleaner Water Grant from American Rescue Funds for Ultraviolet
Radiation Disinfection Retrofit Project**

Request: Council authorization to execute Grant Assistance Agreement with Kentucky Infrastructure Authority for the Cleaner Water Grant award from American Rescue funds for Ultraviolet Radiation Disinfection Retrofit Project for the replacement of chemical disinfection equipment at both the Town Branch and West Hickman Wastewater Treatment Plants (WWTP) with ultraviolet (UV) disinfection equipment.

Purpose of Request: On April 28, 2022 (Resolution 191-2022), Council approved acceptance of \$11,868,095 the Cleaner Water Grant from American Rescue funds for Ultraviolet Radiation Disinfection Retrofit Project and executed the Conditional Commitment Letter. The Kentucky Infrastructure request to execute the Grant Assistance Agreement to finalize the grant documents needed to fund a project that eliminates the use of chlorine to disinfect wastewater effluent, converting the disinfection process at both Lexington WWTPs to UV radiation. Currently, both the Town Branch WWTP and the West Hickman WWTP use gaseous chlorine stored in one ton cylinders. Total maximum storage is > 20 tons. Both plants use sulfur dioxide to remove residual chlorine below discharge limits. The total maximum storage for sulfur dioxide is > 10 tons. Eliminating gaseous chlorine from the WWTP process eliminates toxic gas exposure risks for operators and the public. Eliminating the use of chlorine in the wastewater effluent disinfection process reduces the probability of forming disinfection byproducts in drinking water supplies.

What is the cost in this budget year and future budget years? No impact on FY22 budget. Funds for future budget years are dependent upon availability of grant funds.

Are the funds budgeted? Grant funds are budgeted.

File Number: 0783-22

Director/Commissioner: Martin/Albright

