



Memorandum

To: The Honorable
Board of Directors

From: Cheryl Porter, Chief Operating Officer – Water and Field Services

CC: Sonya Collins

Date: March 7, 2025

RE: Contract Number 2100330-2, JOC Task J2-20, Removal and Disposal of Lead Lining and Rehabilitation of Alum Storage Tanks at Northeast Water Treatment Plant

Under the provisions of Job Order Contract (JOC), staff committed to notify the Board of any tasks within the contract that exceeds \$1,000,000. Task No. JOC J2-20, Removal and Disposal of Lead Lining and Rehabilitation of Alum Storage Tanks at Northeast Water Treatment Plant contract is exceeding this amount, so we are writing to advise you about it. There is an amendment to this contract intended to add \$122,965.02 and the new contract amount will be \$1,021,956.05. The current Final Completion date for this task is February 28, 2025. The amendment includes time extension, and the Revised Final Completion date will be June 18, 2025. This amended amount is within the purview of the CEO's general approval authority under GLWA's procurement policy.

BACKGROUND

The Michigan Department of Environment, Great Lakes and Energy (EGLE), reported in Sanitary Survey-2021 and listed as "Deficiencies" and mandated GLWA to remove the lead lining from both alum storage tanks at Northeast Water Treatment Plant (NEWTP). Per Administrative Compliance Agreement (ACA), the task of removing and disposal of lead lining must be completed before June 30, 2024. To complete the task, Water Operations decided to use GLWA's Job Order Contract Number JOC J2-20 and the work was completed by the ACA deadline.

The scope of work under this task is to remove and dispose of lead lining from both alum storage tanks and rehabilitate the tanks' concrete and apply NSF approved coating. The specifications and estimate to remove the lead lining and rehabilitate the alum storage tanks

were based on similar project done at Southwest Treatment Plant in year 2021. This saved time for the design and development of contract documents for advertisement.

JUSTIFICATION

The justification to increase the budget and time extension is based on several reasons.

The demolished lead liner dumpster was rejected by the recycling facilities due to presence of Radium (6.74pCi/g (picocuries/gram) which is greater than the TENORM at 5pCi/g. TENORM is defined as Technologically Enhanced Naturally Occurring Radioactive Materials that have been concentrated or exposed to the accessible environment because of human activities such as manufacturing, mineral extraction, or water processing. This was unexpected site condition and not included in the contract.

During the demolition of lead liner, it was noticed that the alum residue mixed with cement mortar and water was trapped between the liner and concrete walls & floors of the tanks. This unforeseen item required more efforts and money to clean and dispose of the material.

As the alum mixture was plugged behind the lining next to the concrete walls and beneath the floors in both the tanks, it caused erosion of the concrete mortar from the walls. The gravel was exposed from all the side walls and floors. This resulted in the increase of the concrete rehabilitation area.

After installation of new liner in north tank, unforeseen issues such as the failure of the construction joint, need to construct drain to mitigate water issue, scheduling of cleaning crew for additional work, replacement of broken suction line, and testing and disposal of lead liner with radiation issue caused a time delay and a need to request extension of time.