

February 3, 2022

Ms. Kathy Roeder
Project Manager
Michigan Department of Environment, Great Lakes and Energy
Finance Division | Water Infrastructure Financing Section
P.O. Box 30457
Lansing, MI, 48909-7957

Re: TUA CWSRF #5721-01 Project Plan Update

Dear Ms. Roeder,

This letter is in response to your email of December 12, 2021 regarding the changes to the project plan for the Tawas Utility Authority (TUA).

The Tawas Utilities Authority Board requested C2AE to update the SRF Project Plan submitted to EGLE to review the options original selected for disinfection and sludge digestion. The recommendations in this report were reviewed by the TUA board at their regular meeting of November 8, 2021 and again at special meeting on November 13, 2021. A copy of the report is attached.

Following those two meetings, an additional meeting was held with the TUA Board and Representatives of the Department of Environment, Great Lake and energy (EGLE) on December 9, 2021. C2AE participated in the discussions of the proposed changes to the disinfection and digestion process at all three meetings.

At the November 17, 2021 Special Board meeting, the TUA board approved a motion to authorize C2AE to proceed with the design scope of the of the project plan with the elimination of the new components for digestion and disinfection, with the understanding that approval of these changes would require approval form EGLE. A copy of the meeting minutes is attached. This letter, along with the cost estimates, will be posted to the TUA website for public comment as requested.

Based on the board actions, C2AE is proceeding with design of the improvements plant based on rehabilitation of the existing anaerobic digesters and rehabilitation of gas chlorination systems. Rehabilitation of the of the anaerobic digesters was included in the project plan. Rehabilitation of the gas chlorination system will consist of the following work:

1. Chlorine Contact Tank Modifications to improve cleaning access and minimize short circuiting.
2. Repair tanks, grating and handrails as needed.
3. Chlorine induction pumps Replace existing gas induction/mixing equipment
4. Add Chlorine residual analyzers.
5. Add Instrumentation to allow chlorine dosing based on flow and residual dose.

As requested, we have updated the project cost opinion to reflect the revised selected alternative. If you have any questions, please feel free to contact me at any time.

Sincerely,
C2AE



Michael P. Faeth, PE
Project Manager