

ITEM 5b.

Capital Project Engineering Phase for Boiler Room Evaluation at the Ithaca Area Wastewater Treatment Facility (IAWWTF)

WHEREAS, the Ithaca Area Wastewater Treatment Facility is in need of reliable boilers used for comfort heating of indoor spaces and for process heating of the anaerobic digesters, and

WHEREAS, the current boilers are reaching the end of their useful service life and are increasingly unreliable and maintenance intensive, and

WHEREAS, an evaluation of heating requirements and energy sources for current as well as future anticipated plant and process needs is necessary, and

WHEREAS, an Engineering Evaluation Cost Estimate has been prepared by MRB Group for a lump sum of \$18,500 which includes:

- A. Boiler Evaluation -
 - a. Assess existing boilers.
 - b. Identify replacement boiler options (number, styles, sizes, dual fuel options).

- B. Energy Evaluation –
 - a. Evaluate Biogas and Natural Gas usage at plant.
 - b. Evaluate redundancy needs.
 - c. Evaluate biogas use in microturbines with heat recovery vs use for heating.
 - d. Consider potential heating needs for future sludge processing projects.
 - e. Check for current grant funding opportunities to see if either the study/design phase or construction phase might be eligible.

now, therefore, be it

RESOLVED, that the Special Joint Committee (SJC) recommends to the Owners to establish IAWWTF Capital Project 423J Boiler Room Evaluation in an amount not to exceed \$18,500, and be it further

RESOLVED, That the Special Joint Committee (SJC) recommends to the Owners that this project be authorized and funded from the IAWWTF Capital Reserve fund in an amount not to exceed \$18,500 for the Engineering costs required for Ithaca Area Wastewater Treatment Facility Boiler Room Evaluation.