



Engineering Memorandum

August 29, 2025

RE: September 2, 2025 Commission Meeting

ClearStream Environmental – Material & Installation Proposal – WRF Clarifier (202419)

For your consideration is a proposal from ClearStream Environmental (CSE) to provide material & installation for the Drive Gearbox, Safety Stairway, and access plating for both Final Clarifiers located at the Water Reclamation Facility (WRF).

A CSE representative was on site to validate the equipment and installation measurements for the clarifier arms approved at the August 5th Commission meeting. While on-site, the representative was asked to conduct additional inspections on the drive mechanism (Gearbox) for the clarifier arms. The representative indicated the gearbox was in need of a mid-life overhaul. Two options were identified: refurbishment or replacement during the clarifier arm project, as conducting the gearbox maintenance required removal of the dome roof and re-work on the arms. The public works & engineering departments determined that replacement is the preferred alternative due to a material upgrade, improved reliability and project timing. The representative also indicated that improved access for gearbox maintenance was possible with the proposed deck grating.

Also, while on site, CSE representative the noted the access method the WRF staff used to inspect the clarifier. The representative stated that a significantly safer method was available. The method is a retractable staircase and is included in the proposal. The current method involves the use of a man-basket with a portable crane. While this is an accepted industrial practice, the staircase provides a significant safety improvement over the crane/basket.

The proposal includes equipment drawings, operational & maintenance manuals, material, logistics, and installation with coordinated support from WRF staff.

The gearbox expected lifetime is 30+ years with suggested maintenance with a mid-life overhaul based on inspection.

The contract is for \$186,625 on a fixed price basis. This funding for this project will be from Cash on Hand

The City Attorney has reviewed the contract.

The City Engineering staff recommends approval.

