

Project Name	Applewood Hills Golf Course Stormwater Reuse	Date	12/6/2024
To / Contact info	BCWD Board of Managers		
Cc / Contact info	Karen Kill, BCWD Administrator		
Cc / Contact info	Camilla Correll, BCWD Engineer		
From / Contact info	Derek R. Lash, PE, CPESC		
Regarding	Operations and Maintenance (O&M) Manual for Applewood Hills Golf Course Stormwater Reuse Project		

Background

The scope for preparing the O&M Manual for the Applewood Hills Golf Course (AHGC) Stormwater Reuse project was originally included on the consent agenda and approved at the May 2023 Board Meeting. However, the Manual was not started due to delays the Contractor experienced in completing the project.

In summary, the construction of the AHGC Stormwater Reuse project was started in late 2022, which primarily included the installation of the water main pipe that would serve as the link between the interchange ponds and the golf course. In 2023, the Contractor installed the stormwater reuse pump station but was delayed in connecting it to electricity due to delays Xcel Energy was experiencing themselves in securing a transformer. The connection was made in late summer 2023. In the fall of 2023, the Contractor worked with AHGC to connect the water main pipe to their irrigation system, however as AHGC was making improvements to their irrigation system the pump station could not be started until 2024.

It was the goal to start the pump station in 2024, but a lack of rainfall from 2022 to 2024 kept the interchange ponds from providing sufficient water. As the ponds have started to fill-up, it is highly anticipated the stormwater reuse pump station will come online in the Spring of 2025 and the O&M Manual can now be developed. Therefore, we are presenting an amended Scope of Services to reflect new hourly rates for work to be considered in 2025.

In addition to the original scope of work described below, we have included an optional task for completing summer site visits to ensure the pump station is performing as intended. This task is not mandatory but would provide a better understanding of the reuse system’s performance during the first year of use.

The on-going operation and maintenance of the project will be completed by AHGC staff. However, for the first two years of operation EOR will coordinate with AHGC to operate and maintain the pump station.

Scope

The following table outlines the cost and hours anticipated for the 2025 season.

Task	Description	Hours	Cost
1. Prepare the Operations and Maintenance Manual	Collect and organize data from the engineer’s plans and specifications, the contractor’s material and manufacturer submittals, and the as-built record of the project. Prepare the Operations and Maintenance Manual for the Golf Course and Watershed District to	58	\$9,385.00 \$10,628.00

	operate and maintain the stormwater irrigation reuse system.		
2. Perform a Spring Startup and Observation	Coordinate with the Contractor and Golf Course to perform a system start-up. Document the process and include information in the O&M Manual.	19	\$3,457.75 \$3,729.00
3. Perform a Fall Shutdown	Coordinate with the Golf Course to shut the system down for the fall and winterize it. Document the process and include information in the O&M Manual.	19	\$3,457.75 \$3,729.00
Amended Subtotal		96	\$16,300.50 \$18,086.00
Optional Service			
Task	Description	Hours	Cost
1. Perform Summer Site Visits	Visit the site to ensure the system is operating properly. This includes communication with the Golf Course and up to four (4) site visits.	22	\$4,264.00
Optional Subtotal		22	\$4,264.00
Total		118	\$22,350.00

Requested Action

Consider approval of this amended scope of services that adds \$1,785.50 to the original scope for Tasks 1-3 and not to exceed ~~\$16,300.50~~ **\$18,086.00** **OR** approval of this amended scope of services that adds \$6,049.50 when including the Optional Service Task 1 and not to exceed \$22,350.00. This work would draw on funds from BCWD account 929-0010.