



**MEMORANDUM**

TO: Cruz Ramos, Biola CSD General Manager  
FROM: Jerry Jones, Contract Engineer  
DATE: December 15, 2022  
RE: Biola Community Services District Water System Upgrade Project

1. Planning Grant; Drinking Water State Revolving Fund (DWSRF) Project No. 1010049-008P
  - 1.1. District awarded DWSRF planning grant funds and agreement with State executed in August 2016
  - 1.2. Grant Scope: Planning, surveying, design, environmental, and preparation of plans, specifications, and estimate for project generally consisting of replacement of water mains with larger diameter water mains, installation of water meters, and a new water storage tank.
  - 1.3. Grant Funding Amount: \$347,200.
  - 1.4. Grant Status: The planning grant scope has been completed and an application for construction funding was subsequently submitted to the State. During the State's review of the construction application, they determined that the water main replacement component of the project was not eligible for funding. The water main replacements with larger diameter water mains was necessitated by the need to meet industrial fire flow requirements. DWSRF funds are not allowed to be used for this purpose and thus the water main replacement component was eliminated from the project. A revised project cost estimate was provided to the State in July 2020 at their request.
  - 1.5. Solar Array: The new water storage tank and associated improvements are planned to be located at the Well No. 4 Site. In late 2020, continuing into the early portion of 2021, we worked with the District's contractor, sitelogic, regarding the solar array to be installed at the Well No. 4 Site. While we were unable to determine a location for the solar array that would have no impact to the proposed facilities to be installed with the new water storage tank, we were able to come up with the best possible location for the solar array. The solar array plans were approved by the County in March 2021 and sitelogic subsequently installed the array. Revisions to the plans for the new water storage tank facilities will be necessary based on the solar array installed.

2. Construction Grant; Drinking Water State Revolving Fund (DWSRF) Project No. 1010049-008C

2.1. Funding Agreement executed in July 2021.

2.2. Project Scope: Replace approximately 300 manually read water meters for existing residential water service connections with new water meters and a cellular-based automatic meter reading system. Additionally, 29 existing residential water service laterals composed of blue polybutylene tubing will be replaced with standard black polyethylene service laterals. Construction of a 500,000-gallon water storage tank at the Well No. 4 Site with booster pumps and other associated equipment and improvements.

As part of the improvements to be made for the new storage tank, an 18" storm drain pipeline will be installed in 3<sup>rd</sup> Street from F Street to G Street. The pipeline will serve dual purposes: 1) convey runoff during storm events and 2) convey surface water for groundwater recharge during the dry season. This pipeline segment will connect the existing storm drain system that terminates at 3<sup>rd</sup> and G Street to the end of the pipeline being installed with the Biola Groundwater Recharge Project at 3<sup>rd</sup> Street and F Street. In essence, this segment of pipeline will complete the overall recharge project and allow the District to convey surface water from the Herndon Canal at 3<sup>rd</sup> Street and Shaw Avenue to the existing storm drainage basin southwest of 4<sup>th</sup> Street and H Street for groundwater recharge.

2.3. Grant Funding Amount: \$4,090,000

2.4. Project Status: Upon execution of the funding agreement with the State, Yamabe & Horn moved forward with some limited revisions to the plans, specifications, and estimate necessitated by changes made to the Project by the State during technical review of the construction application and also the addition of the solar array at Well No. 4. This work was done with the understanding that an agreement between Yamabe & Horn and the District for engineering services for this grant would be issued and executed. With no such agreement issued by late 2021, Yamabe & Horn was unable to perform any further work on the Project.

The construction completion date included in the funding agreement was July 1, 2022. The grant manager with the State has requested a status update and amendment request from the District in order to keep the Project moving forward. The following are the immediate steps needed to be taken by the District:

1. Issue and execute an agreement for engineering services for the Project with Yamabe & Horn or another firm at the District's discretion.
2. Prepare and submit a status update and amendment request to the State. The amendment request is necessary to extend the Project completion date and shift some of the funding between phases to cover the cost of revising/completing the plans, specifications, and estimate.

Upon completion of the above steps, there is a significant amount of work that will be required to get the Project out to construction, including, but not limited to, revisions to the final plans, specifications, and estimate, permitting through the County of Fresno, application for PG&E Rule 16, extension/new request for County of Fresno DRA and Variance, and review and approval by the State Division of Drinking Water.