



COUNCIL REPORT

DATE: October 25, 2022

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Miramonte Pump Station Improvements,
Project 23-43—Authorize Professional
Services Agreement**

RECOMMENDATION

Authorize the City Manager or designee to execute a professional design services agreement with HydroScience to provide design and construction support services for Miramonte Pump Station Improvements, Project 23-43, in a not-to-exceed amount of \$352,000.

BACKGROUND

The Miramonte Pump Station, constructed in 1963, is located at 1960 Miramonte Avenue (see Figure 1). The Santa Clara Valley Water District (Valley Water) turnout, located on the Miramonte Pump Station parcel, distributes water to customers in the southernmost water zone (Zone 3) of the City. In the event that Valley Water is unable to provide water, the Miramonte Pump Station uses the emergency storage at the Miramonte Reservoirs to maintain water services to Zone 3.

In 2000, the following work was performed at the Miramonte Pump Station: three pumps were replaced; one new pump and a variable frequency drive unit were installed; and the motor control center, programmable logic controller, and telemetry system were upgraded. As the pump station continues to age, essential equipment becomes difficult to repair as replacement parts are challenging to procure.

Valley Water has a planned project to inspect and assess their 9.1-mile-long West Pipeline and rehabilitate sections of pipe as required. During their pipeline rehabilitation, Valley Water estimates water supply to the City will be interrupted from fall 2024 to spring 2025 and from fall 2025 to spring 2026. While the Miramonte Pump Station is capable of providing water to Zone 3 from the Miramonte Reservoirs along with other infrastructure in the area during water supply interruptions, staff recommends strengthening reliability of the station to better prepare for the Valley Water shutdowns planned to occur between fall 2024 and spring 2026.

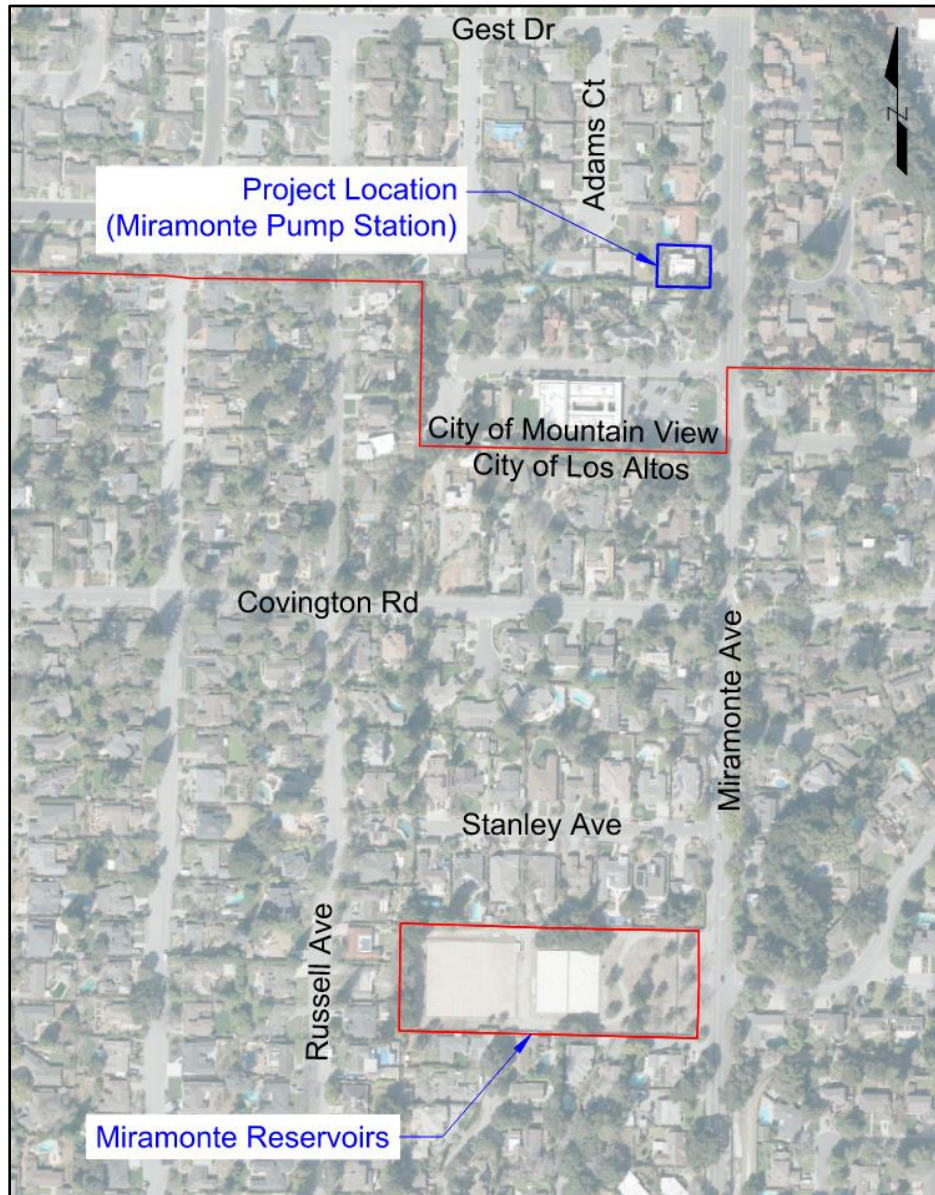


Figure 1: Project Location Map

ANALYSIS

In August 2022, staff issued a Request for Proposals (RFP) for engineering services to provide design and construction support for the pump station. Two firms responded to the RFP. A review panel of Public Works staff deemed HydroScience to be the best-qualified firm based on their written proposal, experience in completing similar projects, demonstrated competence, and understanding of the project. HydroScience also has extensive experience in the assessment and design of pump station infrastructure.

The general scope of work for the recommended agreement consists of:

- Condition assessment of the station.
- Preliminary and final design, including technical specifications and Engineer's cost estimates, for the following equipment replacement work: automatic transfer switch, electrical metering panel, variable frequency drives, and programmable logic controller/radio telemetry unit and radio hardware.
- Agency permit applications as needed, including a City Building Permit.
- Bidding and construction support.

The recommended not-to-exceed design contract amount of \$352,000 includes \$305,360 for basic services, including reimbursable expenses, and an additional services amount of \$46,640 for unforeseen items. The recommended fees are within the ranges typically charged for such services, and staff considers this fee to be fair and reasonable for the scope of work required.

Staff recommends Council approve the professional services agreement with HydroScience to provide design and construction support services. If the recommendation is approved, HydroScience can begin design in early 2023 with estimated design completion in spring 2024. Full construction of the station rehabilitation work may not be completed before the first planned Valley Water pipeline shutdown in fall 2024; however, as noted above, the City is able to serve impacted customers with the current pump station. If needed, staff will phase construction to complete the most critical elements to strengthen reliability as first priority.

FISCAL IMPACT

Miramonte Pump Station Improvements, Project 23-43, is funded with \$390,000 from the Water Fund, which is sufficient for the recommended agreement of \$352,000. Staff will request Council approval to amend the project to add construction funding during the Capital Improvement Program budget process in spring 2023.

ALTERNATIVES

1. Do not authorize the professional services agreement, and direct staff to reissue the RFP.
2. Provide other direction.

PUBLIC NOTICING—Agenda posting.

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File (Project 23-43)