



To: Mountain Regional Water Administrative Control Board Members
From: Sam Grenlie
Jess DiCaprio
Date: July 18th, 2024
Re: Engineering Department Update

OVERVIEW OF PAST MONTH:

1. Engineering and Capital Projects

a. Capital Projects:

- i. **Old Ranch Booster Pump Station Upgrades** continue to make progress. FRP paneling was installed to better secure existing insulation (see photo later in update). The new surge tank has been released for production and expected to be shipped in late August. Electrical specification and procurement continue for 2025 targeted completion.
- ii. **Sage Hills Estates Betterment** has been completed and entered into a warranty period. This completes an alternate pathway for water from the Signal Hill Water Treatment Plant (SHWTP) to the Atkinson Zone (and the greater distribution system) adding resiliency to the system.

b. Engineering and Design Studies

- i. **Asset Management Systems (AMS)** effort continues. District staff have completed initial introductions and live demonstrations from potential software vendors for an Enterprise Asset Management (EAM) software solution. The EAM will be a tool to better manage and maintain physical District assets throughout their lifecycle.

- ii. **Upper Evergreen Water Line Project** has continued design and is currently under 30% design review. This project has been selected for 2025 construction due to the significant workload it demands from Operations from leaks in a challenging environment (especially winter). This project will also address levels of service by bringing fire flows to modern standards in the area.
- iii. **Lost Canyon Booster Pump Station (LCBPS) Capacity** design is progressing. After modeling various scenarios, the District has selected a replacement for Pump 1 at LCBPS. This project will add redundancy to the system, allowing for continued peak-day operations when up to two large pumps (450 horsepower) are offline for maintenance or emergency repair.

2. Water Quality

- a. **Signal Hill Water Treatment Plant Design** continues with the current focus on bench testing. Materials were ordered and procedures are going through final review. Bench testing is expected to start in late July with support from District treatment consultant, Carollo.
- b. **Compliance Sampling** continues to transfer to the Engineering and Development Department. Most recently, quarterly chlorine sampling and reporting were completed and transferred permanently.
- c. **Source Protection** efforts have been ramped up with industrial users within the Jailhouse Well 3 source protection zone. This well has seen consistent TCE detections (a regulated volatile organic compound) over the past 18 months. District staff will continue to inspect industrial users and educate them on best practices through the end of the year.

FOCUS FOR NEXT MONTH:

1. Focus on moving Signal Hill efforts forward with bench testing and continuing to bring the Carollo team up to speed.
2. Finish AMS efforts to solicit vendor proposals via an RFP and find the best software solutions available for the District.



**Completed Insulation
Repairs at Old Ranch
Road Booster Pump
Station**

**Installed Bulk Nitrogen
Tank and Vaporizer for
Surge Protection**

