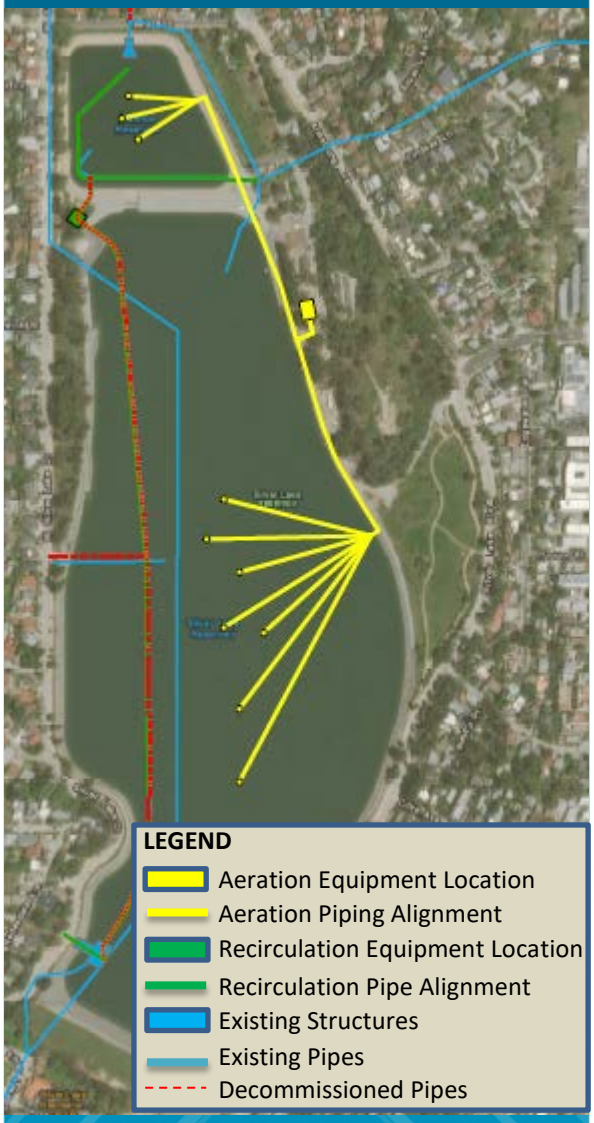
Los Angeles Department of Water & Power

THE FUTURE OF WATER IN LA

Construction Timeline
Spring 2021 – Fall 2022



Project Manager: Susan Avila | (213) 367-4750 | Susan.Avila@ladwp.com

Community Liaison: Dawn Cotterell | (213) 367-4208 | Dawn.Cotterell@ladwp.com

ladwp.com

Silver Lake & Ivanhoe Reservoir Aeration and Recirculation Project

Background

The Silver Lake Reservoir Complex (SLRC) continues to be an operational facility with important water system infrastructure. While the reservoirs are no longer part of the City's drinking water system, LADWP continues to maintain the open water bodies for the benefit of the surrounding communities. This includes maintenance of the water quality within the reservoir to control algae growth and reduce potential odors from anaerobic (lack of oxygen) conditions.

Project Description

The project will be completed in two phases: Phase 1 – the aeration system and Phase 2 - the recirculation system.

The **Aeration System** (Phase 1) will use air compressors installed on the northeast side of Silver Lake Reservoir to supply air through small diameter pipes to a series of mixing equipment (diffusers) located at the bottom of each reservoir. The aeration system will increase the oxygen level at the bottom of the reservoir and facilitate the mixing of the reservoir water.

The **Recirculation System** (Phase 2) will install a system to mix and de-stratify Silver Lake and Ivanhoe reservoir waters. Pumps and pipelines will transfer water from the southern end of Silver Lake reservoir to the northern end of Ivanhoe reservoir. The water level in Ivanhoe will be set to allow overflow into Silver Lake via the connecting spillway. Equipment for the recirculation system will be installed within the existing concrete vault located on the west side of the complex. The recirculation between both reservoirs will allow for thorough mixing and de-stratification to help reduce algae development.

During the construction of the recirculation system, the water in Ivanhoe reservoir will be drained into the Silver Lake reservoir due to safety concerns of personnel working within the facilities. It is anticipated the reservoir will be drained sometime in Fall/Winter 2021 through Summer/Fall 2022. Once the work within Ivanhoe is completed, the reservoir will be filled back with water from the Silver Lake reservoir via the new recirculation system and supplemented with groundwater from a local well, if needed. Silver Lake Reservoir will not be drained.

Construction Details

Construction is anticipated to start on May 3, 2021. During construction, it is anticipated that dump trucks, LADWP work vehicles, material delivery and concrete trucks will be entering the complex as needed. All construction and laydown of equipment and materials will occur within the complex. The construction noise will include backhoes and vehicles with backup alarms. Noise reduction measures such as properly maintaining and equipping equipment with mufflers, using rubber-tired equipment, turning off equipment when not in use for excess of 5 minutes will be in place during construction.