



The Bethany Complex: Connecting the Delta Conveyance Project to the California Aqueduct

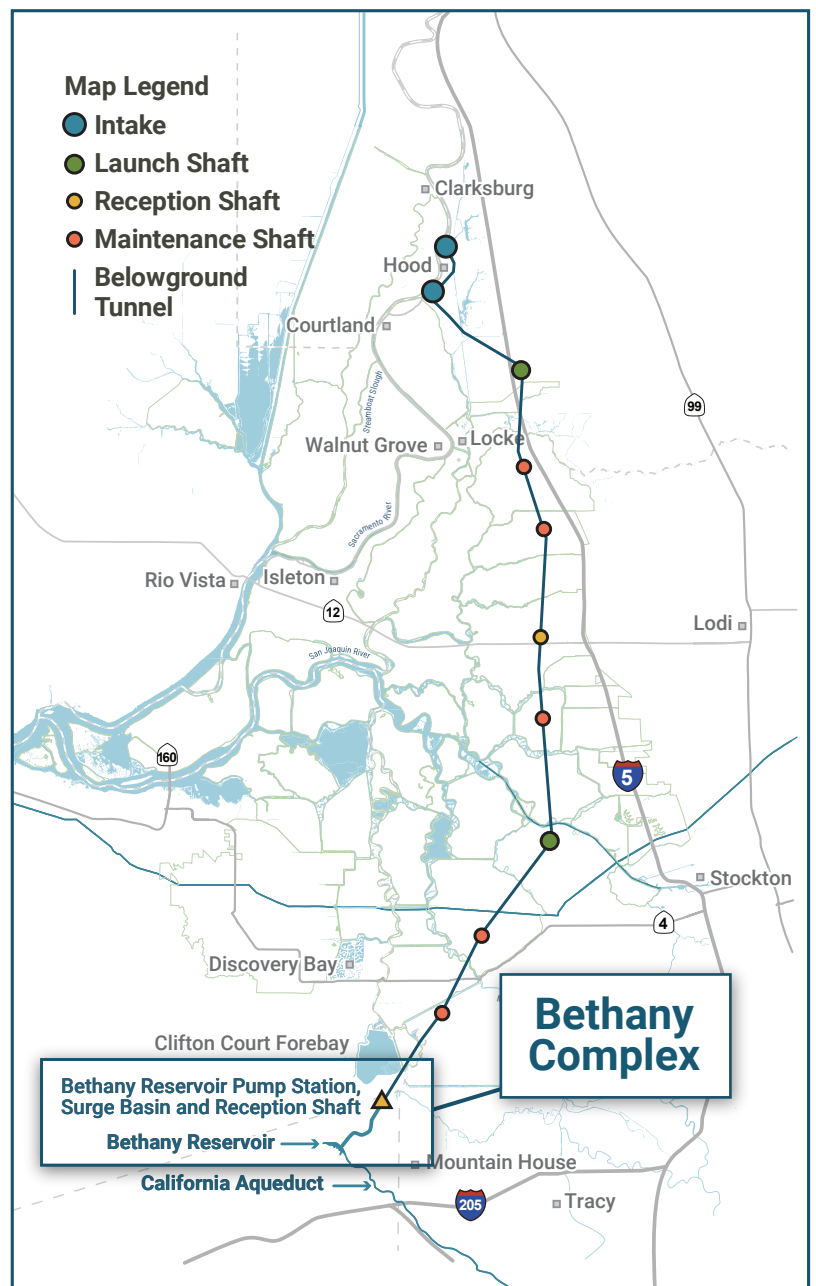
The Bethany Complex is the Delta Conveyance Project's southern terminus – a set of interconnected facilities that will receive water after its 45-mile underground journey and deliver it to the California Aqueduct, the backbone of the State Water Project.

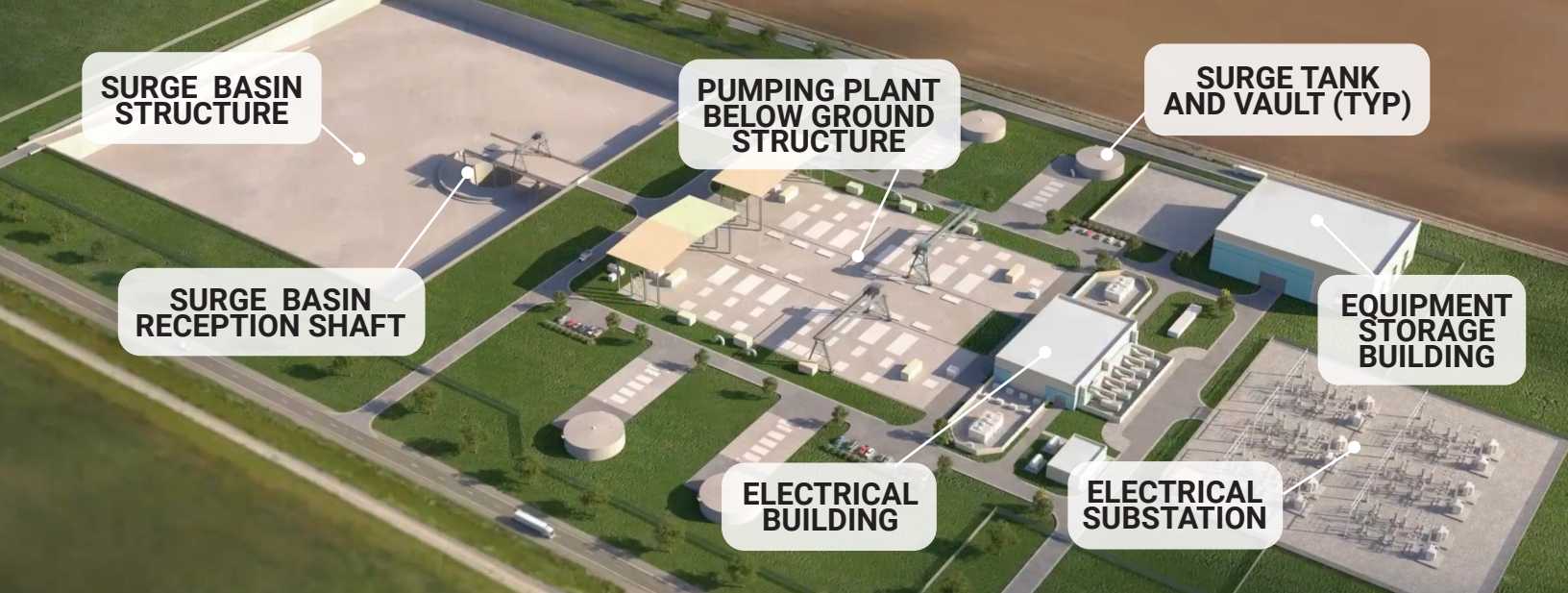
The complex has been designed by the Delta Conveyance Design and Construction Authority (DCA), under the direction of the Department of Water Resources (DWR), to protect nearby habitat while delivering permanent transportation improvements that will benefit the region long after construction is complete. It is also located near existing water infrastructure to reduce new surface construction and limit disruption to surrounding communities and land uses.

Bethany Complex – At a Glance

The Bethany Complex includes a pumping plant and underground structures that connect directly to Bethany Reservoir, a 608-acre facility that already serves as a key connection point for the California Aqueduct.

Most of the Bethany Complex is located below ground. This approach reduces the surface footprint, limits visual and noise impacts, and avoids building new standalone surface facilities by relying on existing reservoir and aqueduct infrastructure.





Bethany Complex Project Elements

Pumping Plant and Surge Basin

The Bethany Complex's largest component, at Kelso and Mountain House Roads, will house below-ground pumps capable of moving water at up to 6,000 cubic feet per second, along with an electrical building and substation. The tunnel boring machine will be extracted at this site, and the excavated shaft will be repurposed as a surge basin to regulate tunnel flows.

Bethany Reservoir Aqueduct

From the pumping plant, water will travel 2.5 miles via large diameter pipeline constructed using shallow cut-and-cover methods, with short tunnel stretches, before reaching Bethany Reservoir. The construction corridor does not encroach on lands designated as conservation easements between the pumping plant and the reservoir.

Bethany Discharge Structure

The discharge structure will direct water from the aqueduct into Bethany Reservoir, designed to prevent backflow.

Bethany Reservoir State Recreation Area

The existing 608-acre reservoir receives State Water Project water from the nearby Banks Pumping Plant and discharges it into the California and South Bay Aqueducts. The recreation area, including its bike path, will remain open throughout construction.

Construction – Designed to Reduce Local Impacts

Bethany Complex's engineering is focused on minimizing construction and long-term impacts on surrounding communities.

Minimizing Land and Visual Impacts

- 💧 Compact surface footprint: most facilities below ground
- 💧 Connects to existing reservoir infrastructure to avoid new standalone surface facilities

Managing Construction Traffic

- 💧 Roughly 110–150 trucks and vehicles during peak hours, primarily on Mountain House Road
- 💧 Dedicated haul roads limit use of local streets
- 💧 Targeted roadway improvements to benefit long-term regional traffic flow

Construction Noise and Hours

- 💧 General construction limited to 7 a.m. – 7 p.m.
- 💧 Nighttime work restricted to continuous concrete pours; not expected to exceed one month total
- 💧 Pile driving minimized to roughly 10 days total
- 💧 Concrete batched on-site at two plants, reducing off-site truck trips

Engineering a Reliable Water Supply for California

Our mission is to plan, permit, design, and build a modernized state-of-the-art, sustainable, resilient, environmentally responsive, and cost-effective Delta Conveyance Project that resolves the long-standing need to assure affordable State Water Project reliability serving future generations of Californians in a way that respects the uniqueness of the Delta as a place and its communities.