

Featured Project

Whiskeytown National Recreation Area U.S. National Park Service

Redding, California

Whiskeytown National Recreation Area is located 8 miles west of Redding, California. Whiskeytown Lake provides 36 miles of shoreline and 3,200 surface acres for recreation. The Lake was formed as part of the Central Valley Water Project, providing water for agriculture, and was dedicated by President John F. Kennedy in 1963. The Lake's primary in-flow is from the Trinity River, which is diverted over the mountains by tunnels and penstocks to the Judge Carr Powerhouse.

ArcSine Engineering performed field investigations and provided electrical and control engineering designs for modifications to multiple wastewater lift stations. ArcSine's design work included the following:

Lift Station 1

- New package lift station; four 25-hp pumps
- New feeders
- Radio relocation
- New control panel and level switches
- Construction cutover sequencing plan

Lift Station 2

- New package lift station; two 15-hp pumps
- New control panel
- Modifications to existing service entrance
- Construction cutover sequencing plan

Lift Station 3

- Modifications to control panel to add level switch
- New intrinsically safe relay panel

Lift Station 4

- New package lift station; two 1-hp pumps
- Modifications to existing service entrance
- New control panel with intrinsically safe relays
- Modification of existing radios
- Construction cutover sequencing plan
- New Go/No Go lights to wetwell
- New level float switches

Lift Stations 5 and 6

- Modifications to existing control panel
- Reconditioned two 7.5-hp compressors
- Integrated new elapsed time meters
- New Go/No Go lights to wetwell
- New level float switches

Electrical
Power Distribution
Construction Services
Controls
Water/Wastewater
Instrumentation
Field Investigation

