

METROPOLITAN WATER DISTRICT OF **SALT LAKE CITY** **AND SANDY, UTAH**

Little Cottonwood Water Treatment Plant Master Plan Update

The Metropolitan Water District of Salt Lake City and Sandy (MWDSLs), Utah, selected Carollo as part of a team of consultants to conduct the master plan project. Carollo's role in the project was to conduct a process evaluation for the Little Cottonwood Water Treatment Plant and to evaluate the hydraulic capacity of each process. The purpose of this evaluation was to determine the maximum capacity of the plant and its ability to be expanded by 70 mgd (for a total treatment capacity of 180 mgd) to meet the future water demands of Salt Lake City and Sandy City. The study identified the process improvements required to meet future regulatory requirements, as well as to increase the hydraulic capacity.

As part of the master planning effort, Carollo led a team of structural and geotechnical engineers in the preparation of a geologic and seismic hazard evaluation for MWDSLs's raw and finished water conveyance facilities and the Little Cottonwood plant.

As an alternative to expanding Little Cottonwood plant, Carollo evaluated the possibility of constructing a new water treatment plant at the Point of the Mountain in South Salt Lake City. MWDSLs selected this alternative and Carollo is now conducting a pilot evaluation of treatment alternatives for this new water treatment plant.

HIGHLIGHTS

Process evaluation for a water treatment plant expansion to 180 mgd.

Seismic and geologic evaluation for finished water conveyance facilities.

Pilot evaluation of treatment alternatives for a new water treatment facility.



Carollo participated in a master plan update of the Little Cottonwood Water Treatment which evaluated alternatives for expanding the existing facility as well as constructing a new water treatment plant in South Salt Lake City.