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Photographer: Tom Benson, Lowney Associates

Longden Reservoir Lowney Associates performed geotechnical engineering analyses, and materials testing construction services at the San Gabriel County Water District's Longden Reservoir No. 1 in Los Angeles County. The former reservoir was unused for decades, and the remnants demolished in late 1999. A new 3.8 million-gallon reinforced concrete water reservoir was designed based on two geotechnical reports by prior consultants. One prior consultant recommended a costly foundation, including compaction grouting of native sands and overexcavation and recompaction of shallow sands. Design and construction management engineers were concerned that this recommendation was conservative. Lowney, therefore, was retained to provide alternative foundation recommendations for the new reservoir. Lowney determined that grouting and most of the overexcavation and recompaction was unnecessary. Lowney's work saved the District approximately \$300,000. The reservoir was completed in April 2001.

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