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The two dams located within the Brea planning area, Carbon Canyon Dam and Orange County Reservoir, provide valuable flood control and water storage functions. Carbon Canyon Dam retains water over a 221-acre area and has a capacity of 7,033 acre-feet.<sup>3</sup> Carbon Canyon Dam is vital for the flood protection of portions of the coastal plains in Orange County, including the cities of Fullerton, Placentia, and Anaheim. The U.S. Army Corps of Engineers is responsible for the dam's safety and conducts inspections on a regular basis. In the unlikely event of dam failure due possibly to an earthquake, areas below the dam would be flooded to the extent illustrated in Figure 12.

Orange County Reservoir, used for water storage, is owned by the cities of Brea (40%), La Habra (20%), and Fullerton (40%), and is operated by the Metropolitan Water District. The reservoir covers 7 acres and has a capacity of 217 acre-feet. Like Carbon Canyon Dam, this dam receives periodic inspections. The flood inundation path (Figure 12), should the dam fail, would affect largely residential properties.

Five reservoir tanks in the hills above Brea contain a total of 67.3 million gallons of domestic-use water. All but the Valencia reservoir have been built consistent with up-to-date seismic codes.

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<sup>3</sup> One acre-foot equals 325,851 gallons.



















































