

4.3.4 Future Recycled Water Use

As noted previously, San Diego agencies currently beneficially reuse about 13,700 AF/YR of recycled water, primarily for groundwater recharge, landscape irrigation and other industrial, and commercial uses. The region's demand for recycled water is projected to increase to about 45,100 AF/YR in 2010 and about 53,400 AF/YR in 2020. **Figure 4-3** shows the location of the recycled water treatment plants. **Table 4-6** displays the total projected recycled water use anticipated through the year 2020 within the Authority's service area. These projections were provided by the local agencies implementing the projects. **Table E-1** in **Appendix E** includes detailed information on the recycling projects, including the sponsoring agency, location, projected supply, and type of reuse.

TABLE 4-6
PROJECTED RECYCLED WATER USE (AF/YR)

2005	2010	2015	2020
33,400	45,100	51,800	53,400

4.3.5 Wastewater Generation, Collection, Treatment and Disposal

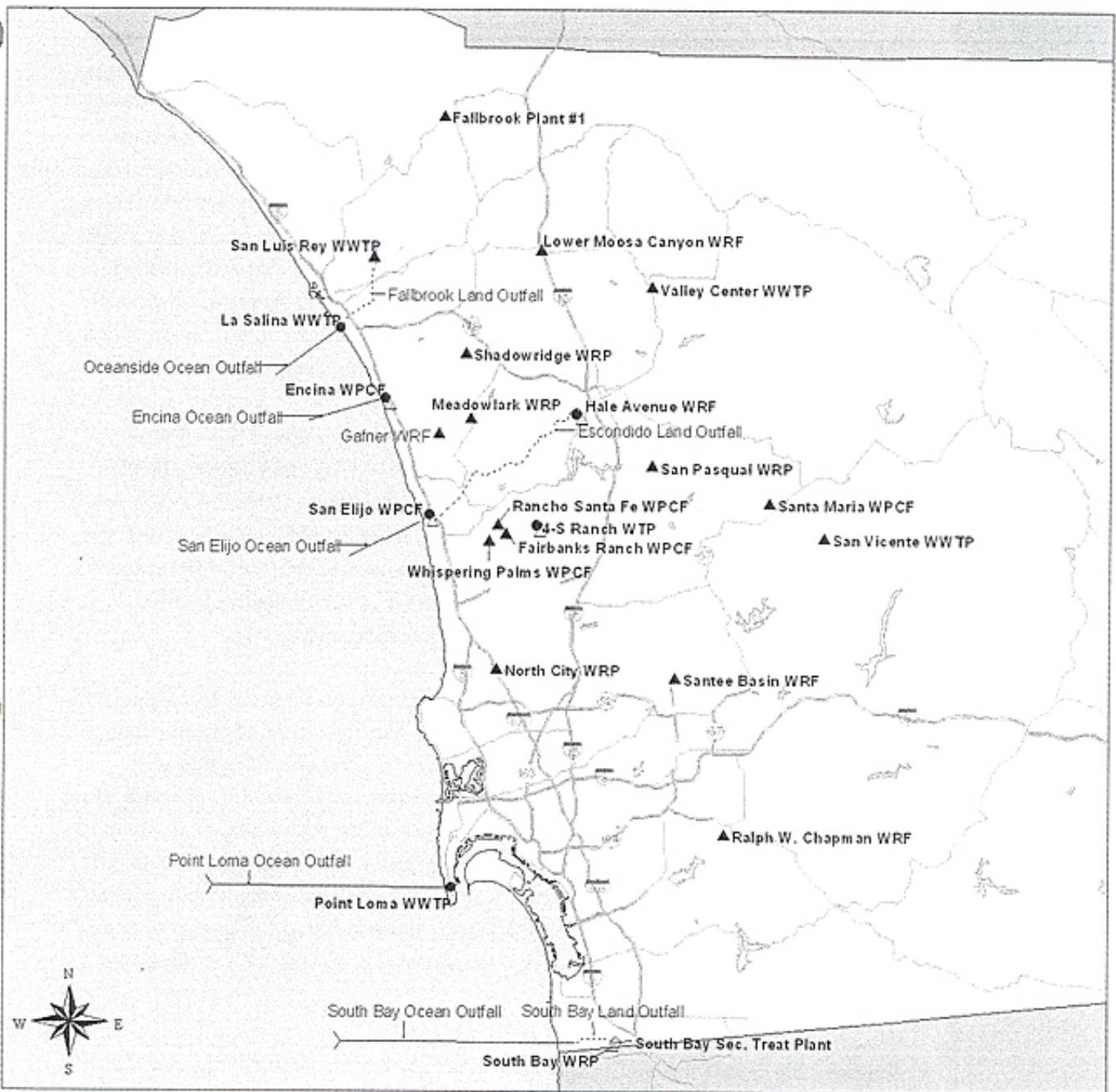
As required by the Act, the following is a review of the collection, treatment, and disposal of wastewater within the Authority's service area. Approximately 300 million-gallons-per-day (mgd) of wastewater is currently being generated, collected, and treated. Most of the large wastewater treatment plants are located along the coast for easy and convenient access to an ocean outfall. These plants serve most of the San Diego region's highly urbanized areas. Figure 4-3 identifies the location of the wastewater treatment plants and the associated outfall systems. The coastal location of the plants is not always conducive to development of recycled water. Most of the market for recycled water is located at higher elevations making it costly to construct distribution systems to serve the customers. A detailed list of the wastewater treatment plants within the county, showing their capacities at various levels of treatment, average effluent TDS, and type of disposal is included in **Table E-2, Appendix E**. In addition approximately 10 to 15 mgd of wastewater within the Authority's service area generated and disposed of through private systems such as septic tanks.

4.4 GROUNDWATER

4.4.1 Description

Agencies within the Authority's service area currently use about 24,000 AF of groundwater annually. In addition, private well owners also draw on local basins for their water supplies, which offset imported water demands. The amount of groundwater pumped by private wells is suspected to be significant, but has not to date been accurately quantified for the region.

FIGURE 4-3



- Existing
- Wastewater Treatment Plant
 - ▲ Water Recycling Plant
- Proposed
- Wastewater Treatment Plant
 - △ Water Recycling Plant

- Outfalls
- Land Outfall
 - Ocean Outfall

Source: SDCWA, SANDAG, CH2MHILL

0 5 10 15 Miles

San Diego County Wastewater Treatment and Water Recycling Facilities