

9.0 WATER RECYCLING

10633. *The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplied. To the extent practicable, the preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies and shall include all of the following:*

10633 (a). *A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.*

10633 (b). *A description of the recycled water currently being used in the supplier's service area, including but not limited to, the type, place and quantity of use.*

10633 (c). *A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse determination with regard to the technical and economic feasibility of serving those uses, groundwater recharge, and other appropriate use...*

10633 (d). *The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years.*

10633 (e). *A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.*

10633 (f). *A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems and to promote recirculating uses.*

9.1 Recycling Programs

The City of Corcoran, and the industries supplied by the City's water system, employs recycling procedures to minimize City water supply impacts on the groundwater basin. This UWMP section describes the existing, and planned, recycling programs.

9.2 Existing City Wastewater Treatment and Recycling Facilities

The wastewater treatment facilities owned by the City of Corcoran provide both primary and secondary treatment with 338 acres of effluent disposal ponds. These disposal ponds are graded level and have in the past been used for the farming of seed, fiber, and fodder crops on a contract basis. The City currently needs all of its disposal pond area to meet its wastewater percolation/evaporation requirements.

The current volume of wastewater treated is estimated at 1.3 – 1.5 MGD. The City’s wastewater treatment plant lagoons were upgraded in 2002. This upgrade involved the separation of one large lagoon into 4 separate cells using floating baffles between cells.

The past the City of Corcoran has a contract to sell to the California State Prison up to 268,246 gallons (6.16 acre-ft) per day of treated wastewater for use on the alfalfa growing area at the prison farm. This treated wastewater is to be used in lieu of surface water provided by Corcoran Irrigation District at a substantial savings to the Prison. This water was provided through "on demand" schedule to the Prison.

The total flow to the California State Prison for reclamation during the previous three years is as follows:

**Table 9.1-2
Past Recycled Water Quantities**

Year	Volume (acre-feet per year)	Volume (MG per year)	Percent Change
1998	11,853	69.02	
1999	15,637	91.06	31.9%
2000	16,81.3	97.91	7.5%

9.3 Projected Recycling Usage

The City’s recycled domestic effluent will increase proportionate to anticipated population growth, essentially doubling during the planning period (through 2030). The effluent recycled by the State Penitentiaries will remain on hold until further state regulation allow for irrigation use.

The effectiveness of the existing and projected agricultural irrigation recycling program precludes the necessity of evaluating other recycling programs such as dual distribution systems. The two major industries, as cost-saving measures, fully recycle and multi-use water within their plants prior to discharge.

9.4 Storm Water Reclamation Measures

The City of Corcoran has a single storm water storage basin of approximately 50 acres. This storm water storage is used only when the storms occur. The City of Corcoran also operates several small detention basins located throughout the City.

The run-off water from all storms is either channeled on the surface or in pipes to collection points along a Corcoran Irrigation District ditch at the west edge of town.

The run-off is then pumped into the irrigation ditch to be dispersed as farm irrigation water. When the flow in the ditch is sufficient, lift pumps located near the storage pond turn on

automatically shunting the flow into the storage pond for percolation and evaporation. If the flows are small enough, then the run-off in its entirety becomes farm irrigation water.

The storage pond has the ability to release drainage water into the surrounding irrigation ditch system. This system allows the run-off water to be used as irrigation water at off-peak times thereby offsetting pumping and increasing its desirability and convenience.

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