WATER CONSERVATION PLAN
FOR THE
SAN PATRICIO MUNICIPAL WATER DISTRICT
May 1999
Amended May 10, 2005

Section I: Declaration of Policy, Purpose and Intent

In order to conserve the available water supply and/or to protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the occurrence of water supply shortage or other water supply emergency conditions, the San Patricio Municipal Water District (District) by action of its Board of Directors (Board) adopts the following Water Conservation Plan (the Plan).

Section II: Goals

The Water Conservation goals of the District are:

(a) to maintain in effect a water conservation plan and a separate drought contingency plan providing the information and direction required by the Texas Administrative Code, Title 30, Environmental Quality, Chapter 288, as these regulations may be amended or modified

(b) to work with the Region “N” Water Planning Group to complete development of the regional water plan

(c) to work with the City of Corpus Christi as regional water supplier to continue development of the specifics of the regional water conservation plan and drought contingency plan

(d) to assist District customers in development and continuing implementation of water conservation plans consistent with the regional plan

(e) to assure that the per capita and per production unit water use by District municipal and industrial customers remain at least 10% below previous 5-year State average values

(f) to limit unaccounted-for water from District transmission and storage facilities to no more than 3% of the volume of water delivered

III. Description of District Service Area and Wholesale Customers

The District, in accordance with its enabling legislation, can operate in San Patricio, Aransas and Refugio counties. Present operations and facilities are all located in San Patricio County. Figure 1 presents information on wholesale customers and their wastewater practices. Figure 2 presents information on the water use of wholesale customers. Appendix “A” gives information on the District’s water supply system.
IV. Amount of Diversion from Sources of Supply

The present (2005) source of supply for all water sold by the District is the City of Corpus Christi regional supply. Water diverted from this source is measured by standard water meters complying with contractual requirements and with American Water Works Association specifications, including accuracy. Raw water is pumped from the Nueces River at Calallen and raw water is taken from the Lake Texana supply at a tap on the Mary Rhodes Memorial Pipeline south of Sinton. A record of all diversions is kept by the District in its Water Accounting Records, and also is kept by the City of Corpus Christi.

V. Water Deliveries, Metering and Losses

All water delivered to customers will be metered through standard meters having an accuracy of plus or minus 2% of flow rate. The District will maintain a set of Water Accounting Records which will record amounts of water received by the District and sold to its customers. These records will include the billing records and the SCADA records from the delivery meters. Summaries showing monthly and yearly totals, losses, distribution between customers and other information will be prepared yearly. These records will be available to management personnel through the local PC network a yearly report will be prepared each year and will be available to all District customers, the District’s water supplier, regulatory agencies and the public. Each District wholesale customer will receive summary information pertaining to its water use for the previous year.

VI. Leak Detection and Repair

The District system is a transmission system. District customers provide distribution of water delivered to them. Major leaks will be detected by changes in pressure and flow values reported to the operator by the SCADA system, (24-hour per day operation), or by area residents or property owners near the District facilities. Pipeline alignments, storage tanks, pump stations and raw water storage reservoirs will be inspected on a daily basis, combined with meter reading and maintenance functions. Pipeline easements crossing range or brush land will be mowed on a regular basis, with personnel observing for indication of leaks. Repairs will be initiated on discovery of a leak.

VII. Contractual Water Conservation Requirements

All contracts with wholesale customers will include the requirement that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of Chapter 288 previously cited.

VIII. Water Rates

The District will use uniform or increasing block rate schedules for all classes of water customers.
IX. Water Conservation and Reuse and Recycling of Wastewater

The District will continue implementation of an active water conservation education program. The District will actively pursue potentially feasible reuse or recycling options within its service area. This will specifically include reuse of municipal wastewater effluent and select industrial effluent streams. The District will also work with existing and new water customers to prevent, where possible, contamination of wastewater streams with substances that might preclude the feasibility of reuse of the stream. Specific programs include:

1. Work with new industrial customers at the pre-design stage to assure that potential water conservation elements are included in the final plant process design, where feasible.
2. Reuse all backwash streams at the treatment plants site and maintain “zero discharge”.
3. Continued operation and maintenance of the Aransas Pass/Sherwin/Alcoa reclaimed water project
4. Improved use of water treatment plant residual solids for land reclamation.
5. Cooperative programs with school districts addressing specific educational programs.
6. Working with public entities on Xeriscape projects.
7. Working with Earth Day, Coastal Bend Bays and Estuaries Foundation, Informal Science Educators and other similar organizations.

X. Aquifer Storage and Recovery

The District will investigate the use of aquifer storage and recovery techniques within its service area to reduce seasonal peak supply facility demands and to provide storage for accomplishing this without associated evaporative losses.

XI. Implementation, Enforcement and Coordination with Regional Water Planning Groups and Regional Water Supplier

Copies of the Water Conservation Plan and the Drought Contingency Plan, including the dates of adoption by the Board of Directors, will be furnished to all District wholesale customers, the regional water supplier and the Region “N” Water Planning Group. The District will implement and enforce the plans by the means available to it, including Pro Rata Water Allocation during Severe Water Shortage Conditions or Emergency Water Supply Conditions.