

TO: Board Members

THROUGH: Jeff Walker, Executive Administrator
Todd Chenoweth, General Counsel
Jessica Zuba, Deputy Executive Administrator, Water Supply & Infrastructure

FROM: Sarah Backhouse, Manager, Regional Water Planning

DATE: November 29, 2018

SUBJECT: Amendment to the 2017 State Water Plan

ACTION REQUESTED

Consider amending the 2017 State Water Plan to incorporate an amendment to the 2016 Region L Regional Water Plan relating to a new recommended water management strategy project for the San Antonio Water System in accordance with 31 Texas Administrative Code (TAC) §357.51(h) and §358.4(a).

BACKGROUND

This proposed third amendment incorporates a minor amendment to the 2016 Region L Regional Water Plan. Through this amendment, Region L added a new recommended water management strategy project (WMSP) with associated capital cost for advanced meter infrastructure sponsored by the San Antonio Water System. On April 5, 2018, the Texas Water Development Board (TWDB) received the 2016 Region L Regional Water Plan amendment materials and request for approval. These materials were reviewed by TWDB staff and the minor amendment to the regional water plan was approved by the Board on June 11, 2018.

KEY ISSUES

1. Detailed changes resulting from the proposed state water plan amendment are outlined in the Attachment. Most notably, the 2017 State Water Plan total capital cost will increase to approximately \$62.8 billion (as compared to Amendment #2) and the total number of WMSPs will increase to 2,537.
2. A public hearing on amending the 2017 State Water Plan, as required by 31 TAC §358.4(a), is being held on December 3, 2018.

Our Mission : **Board Members**

To provide leadership, information, education, and support for planning, financial assistance, and outreach for the conservation and responsible development of water for Texas : Peter M. Lake, Chairman | Kathleen Jackson, Board Member | Brooke T. Paup, Board Member
: Jeff Walker, Executive Administrator

3. Comments associated with the proposed amendment to the 2017 State Water Plan received will be presented to the Board for consideration.
4. If approved, this proposed amendment will be incorporated into the 2017 State Water Plan as Amendment #3.

RECOMMENDATION

The Executive Administrator recommends approval of this 2017 State Water Plan Amendment that is necessary to incorporate data from the Region L Regional Water Plan minor amendment in accordance with 31 TAC §357.51 and §358.4.

Attachment: Draft Water for Texas 2017 State Water Plan: Amendment #3

DRAFT: Water for Texas 2017 State Water Plan: Amendment #3

The following changes are proposed to be made to the 2017 State Water Plan as a result of a minor amendment to the 2016 Region L Regional Water Plan. This state water plan amendment contains the following revisions specifically:

- Adds a new recommended water management strategy project (WMSP) for the San Antonio Water System (SAWS) to install advanced meter infrastructure consisting of 500,000 advanced meters as well as automatic leak detection sensors. The amendment adds one WMSP sponsored by SAWS and \$122,682,386 in capital costs to the 2016 Region L Regional Water Plan. Three water management strategies (WMS) were renamed in order to relate the new WMSP to the appropriate water user groups. Updates to the WMS names do not change the number of recommended WMSs in the plan. Additionally, the amendment does not change WMS supply totals. The WMSP is related to the Municipal Water Conservation (Urban) – San Antonio and Municipal Water Conservation (Suburban) – SAWS WMSs.

To incorporate the proposed amendment, the following specific changes would be made to the 2017 State Water Plan¹:

Capital costs, projects sponsored by municipal water user groups (WUGs) and wholesale water providers (WWPs), and number of recommended WMSPs

All references to the total capital costs recommended in the plan (\$62.7 billion) change to add \$122,682,386 in capital costs. The updated total capital costs recommended in the plan changes to \$62.8 billion. References to the total capital costs that are associated with projects sponsored by municipal WUGs and WWPs that provide water to municipal water users are also adjusted to account for the increase in capital costs. Additionally, references to the specific project counts change to incorporate the one recommended WMSP added by this proposed amendment. This changes text on pages 3, 11, 41, 42, 87, 88, 98, 100; Figures 4.1 and 4.2, and Table 8.2. Updated values are highlighted in the figures and tables below. With the proposed amendment, the footnote on Figure 4.1 was no longer relevant and was removed.

¹ Changes are reflective of planning data as of the 2017 State Water Plan Amendment #2.

Figure 4.1 - Total capital costs, by required online decade, of all recommended water management strategy projects (in billions)

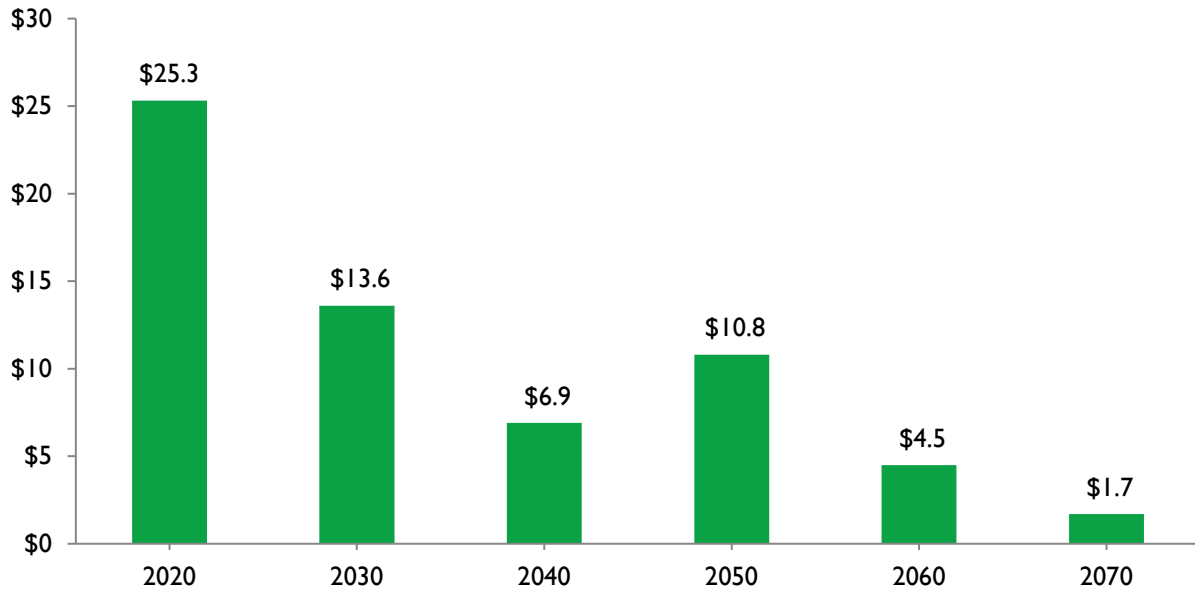


Figure 4.2 - Total capital costs of all recommended water management strategy projects by wholesale water providers and water user group sponsor type (in billions)

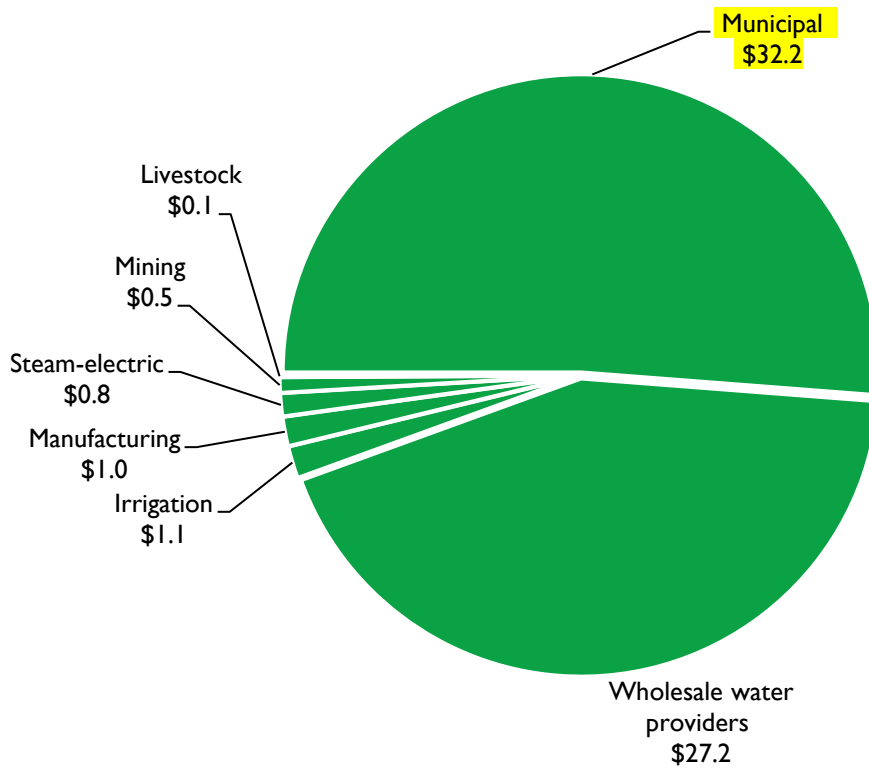


Table 8.2 - Capital costs, by required online decade, of all recommended water management strategy projects by region (in millions)

Region	2020	2030	2040	2050	2060	2070	Total capital cost	Number of projects ^a
A	\$270	\$348	\$60	\$18	\$0	\$170	\$866	81
B	\$291	\$0	\$339	\$0	\$0	\$0	\$630	21
C	\$3,730	\$5,457	\$3,304	\$6,728	\$3,119	\$1,296	\$23,635	557
D	\$697	\$11	\$17	\$413	\$22	\$80	\$1,241	120
E	\$843	\$42	\$514	\$274	\$258	\$0	\$1,930	45
F	\$917	\$190	\$35	\$58	\$0	\$0	\$1,201	145
G	\$3,631	\$579	\$69	\$42	\$21	\$6	\$4,348	217
H	\$2,946	\$4,853	\$1,612	\$836	\$578	\$54	\$10,879	717
I	\$1,362	\$737	\$562	\$77	\$0	\$16	\$2,754	58
J	\$115	\$0	\$29	\$0	\$0	\$0	\$144	55
K	\$3,073	\$506	\$142	\$42	\$12	\$3	\$3,777	124
L	\$5,401	\$201	\$7	\$2,253	\$2	\$19	\$7,884	61
M	\$1,202	\$123	\$81	\$41	\$386	\$33	\$1,866	195
N	\$178	\$331	\$0	\$1	\$0	\$0	\$510	18
O	\$452	\$192	\$87	\$2	\$80	\$1	\$814	112
P	\$332	\$0	\$0	\$0	\$0	\$0	\$332	11
Texas	\$25,440	\$13,570	\$6,857	\$10,787	\$4,478	\$1,678	\$62,810	2,537

^a Some projects are associated with multiple sponsors.



DRAFT 2017 State Water Plan: Amendment #3

The following changes are proposed to be made to the 2017 State Water Plan as a result of a minor amendment to the 2016 Region L Regional Water Plan.

The names of the water management strategies (WMS) included in the table below were revised to facilitate a restructuring of the WMS supply so that the new San Antonio Water System WMS project can be linked to the appropriate benefiting water user groups.

REVISIONS TO THE LIST OF RECOMMENDED WATER MANAGEMENT STRATEGIES

					Strategy supply volume by planning decade (acre-feet per year)					
Water User Group Primary	Water User Group	Water management strategy sponsor	Recommended water management strategy	Related water management strategy types	2020	2030	2040	2050	2060	2070
L	SAN ANTONIO	L	MUNICIPAL WATER CONSERVATION (URBAN) - SAN ANTONIO	MUNICIPAL CONSERVATION	15,974	10,704	6,901	14,670	30,587	43,092
L	SAN ANTONIO WATER SYSTEM	L	MUNICIPAL WATER CONSERVATION (SUBURBAN) - SAWS	MUNICIPAL CONSERVATION	0	0	0	0	0	681
L	VICTORIA	L	MUNICIPAL WATER CONSERVATION (URBAN) - VICTORIA	MUNICIPAL CONSERVATION	809	2,200	3,642	5,158	6,705	7,517



DRAFT 2017 State Water Plan: Amendment #3

The following changes are proposed to be made to the 2017 State Water Plan as a result of a minor amendment to the 2016 Region L Regional Water Plan.

ADDITIONS TO THE LIST OF RECOMMENDED WATER MANAGEMENT STRATEGY PROJECTS

Project sponsor region	Project	Online decade	Project sponsors	Capital cost	Project related water management strategy types
L	SAWS ADVANCED METER INFRASTRUCTURE	2020	SAN ANTONIO WATER SYSTEM	\$122,682,386	MUNICIPAL CONSERVATION