# Debt Service Payments - Non-Self Supporting G.O. Water Bonds <br> Summary of Recommendations - Senate 

| Page VI-66 | Tina Beck, LBB Analyst |  |  |  | RECOMMENDED FUNDING |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2012-13 | 2014-15 | Biennial | \% | F FINANCI |
| Method of Financing | Base | Recommended | Change | Change |  |
| General Revenue Funds | \$96,418,954 | \$105,537,294 | \$9,118,340 | 9.5\% |  |
| GR Dedicated Funds | \$0 | \$0 | \$0 | 0.0\% |  |
| Total GR-Related Funds | \$96,418,954 | \$105,537,294 | \$9,118,340 | 9.5\% |  |
| Federal Funds | \$0 | \$0 | \$0 | 0.0\% | General |
| Other | \$127,548,887 | \$109,887,706 | (\$17,661,181) | (13.8\%) | Other Funds <br> $51.0 \%$ $49.0 \%$ |
| All Funds | \$223,967,841 | \$215,425,000 | (\$8,542,841) | (3.8\%) |  |
|  | FY 2013 Budgeted | FY 2015 Recommended | Biennial Change |  |  |
| FTEs |  |  | 0.0 | 0.0\% |  | Water Development Fund II, and the Clean/Drinking Water State Revolving Funds.

## Section 1

GENERAL REVENUE AND GENERAL REVENUE-DEDICATED FUNDS


Note: All Funds fiscal year 2012 expenditures exceed appropriated amounts because the Water Development Board (WDB) has estimated appropriation authority for State Participation Bond payments. General Revenue and General Revenue-Dedicated Funds in fiscal year 2013 expenditures exceed appropriated amounts because the WDB has unexpended balance authority within a biennium for debt service payments.

Debt Service Payments - Non-Self Supporting G.O. Water Bonds Summary of Recommendations - Senate, By Method of Finance -- ALL FUNDS

Strategy/Goal
EDAP DEBT SERVICE A.1.1

STATE PARTICIPATION DEBT SERVICE A.1.2

WIF DEBT SERVICE A.1.4

Total, Goal A, GEN OBLIGATION BOND DEBT SERVICE
Grand Total, All Strategies

2012-13
Base
\$47,300,368
$\$ 46,364,276$
$\$ 130,303,197$
\$146,265,976
\$215,425,000
\$215,425,000

## Biennial <br> Change <br> \% <br> Change

\$2,889,510
(\$27,395,130)
\$15,962,779
(\$8,542,841)
(\$8,542,841)
(3.8\%)
(3.8\%)
.1\% Recommendations include an increase of $\$ 2.9$ million in General Revenue, offset by a decrease of $\$ 51,406$ in the Economically Distressed Areas Bond Payment Account No. 357 (Other Funds) to pay existing debt service obligations.
(59.1\%) Recommendations include a decrease of $\$ 27.4$ million in the State Participation Bond Payment Account No. 8432 (Other Funds) to pay existing debt service obligations, primarily because in fiscal year 2012, one-time prepayments from the Lower Colorado River Authority ( $\$ 24.5$ million) and the Upper Trinity River Authority ( $\$ 0.2$ million) and related interest earnings ( $\$ 2.5$ million) were no included in the baseline request for the 2014-15 biennium. The WDB has estimated appropriation authority for the Other Funds in this program.
$12.3 \%$ Recommendations include increases of $\$ 6.2$ million in General Revenue and of $\$ 9.8$ million in the Water Infrastructure Fund No. 302 (Other Funds) to pay existing debt service obligations

Debt Service Payments - Non-Self Supporting G.O. Water Bonds
Selected Fiscal and Policy Issues

1. Fund Existing Debt Service Obligations

Recommendations include a net decrease of $\$ 8.5$ million to fund existing debt service obligations, or an increase of $\$ 9.1$ million in General Revenue, offset by a decrease of $\$ 17.7$ million in Other Funds. An increase in General Revenue appropriations in the 2014-15 biennium is a combination of 1) projected debt service needs for all prior year issuances, including new 2012-13 issuances; and, 2) debt service lapses of $\$ 3.4$ million from General Revenue in the 2012-13 biennium, which contributed to the biennial change. Lapses estimated for the 2012-13 biennium in debt service from General Revenue are related to timing of the issuance, lower final rates than the $5.5 \%$ budgeted, actual principal structure, and demand.
2. State Water Plan Expended and Appropriated Amounts from 1998-99 to the 2012-13 Biennium.

The Seventy-fifth Legislature, 1997 passed legislation which required the adoption of a State Water Plan (SWP). The SWP itself was not actually funded until the 2008-09 biennium. Bond issues authorized, actually issued, and General Revenue appropriations to pay debt service for all Water Development Board (WDB) bond programs are shown below:

| General Revenue Appropriations for GO Water Bond Debt Service, 1998-99 to 2012-13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Funding Decisions (in Millions) | 1998-99 |  | 2000-01 |  | 2002-03 |  | 2004-05 |  | 2006-07 |  | 2008-09 |  | 2010-11 |  | 2012-13 |  |
| Total Debt service - All GO Water Bond Debt | \$ 7.6 |  | \$ | 26.5 | \$ 37.8 |  | \$ 41.6 |  | \$ 40.3 |  | \$ 93.3 |  | \$ 143.0 |  | \$ 99.8 |  |
| State Participation | \$ |  | \$ | 10.7 | \$ | 13.1 | \$ | 10.4 | \$ | 6.5 | \$ | 16.5 | \$ | 26.0 | \$ |  |
| Economically Distressed Areas Program | \$ | 7.6 | \$ | 15.8 | \$ | 21.8 | \$ | 25.8 | \$ | 28.4 | \$ | 39.2 | \$ | 40.8 | \$ | 44.5 |
| Water Infrastructure Fund | \$ |  | \$ |  | \$ |  | \$ |  | \$ |  | \$ | 32.3 | \$ | 76.2 | \$ | 55.3 |
| Agricultural Water Conservation Program | \$ | - | \$ | - | \$ | 2.9 | \$ | 5.4 | \$ | 5.4 | \$ | 5.4 | \$ |  | \$ |  |
| Debt service - State Water Plan only | \$ |  | \$ |  | \$ |  | \$ |  | \$ |  | \$ | 46.6 | \$ | 72.4 | \$ | 55.3 |
| State Participation |  |  |  |  |  |  |  |  |  |  | \$ | 9.9 | \$ | 5.8 | \$ |  |
| Economically Distressed Areas Program |  |  |  |  |  |  |  |  |  |  | \$ | 4.4 | \$ |  | \$ |  |
| Water Infrastructure Fund |  |  |  |  |  |  |  |  |  |  | \$ | 32.3 | \$ | 64.5 | \$ | 55.3 |
| State Water Plan - GO Bond Authority |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Legislative authorization | \$ | \$ | \$ |  | \$ |  | \$ |  | \$ |  | \$ 762.8 |  | \$ 707.8 |  | \$ 200.0 |  |
| State Participation |  |  |  |  | \$ |  |  |  |  |  | \$ | 276.1 |  | 200.0 | \$ |  |
| Economically Distressed Areas Program |  |  |  |  |  |  |  |  |  |  | \$ | 37.5 | \$ | 34.4 | \$ | - |
| Water Infrastructure Fund |  |  |  |  |  |  |  |  |  |  |  | 449.3 |  | 473.4 |  | 200.0 |

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## Notes:

1)Totals may not add due to rounding
2) General Revenue appropriations for debt service do not reflect reductions made by HB 4586, Eighty-first Legislature; HB 4, Eighty-second Legislature 3) 2012-13 debt service figures for State Water Plan do not include debt service for SWP projects financed through the EDAP program.

Sources: Legislative Budget Board, Water Development Board
Although $\$ 200$ million in new bond issuances were authorized in the 2012-13 biennium, the WDB was provided debt service appropriations to fund only $\$ 100$ million in new issuances, subject to fluctuating market conditions. The WDB has implemented the full $\$ 100$ million in funded issuances.

Also, in the 2008-09 and 2010-11 biennia, $\$ 276.1$ million and $\$ 200$ million in bond authority for the State Participation Program (SPP) was granted, respectively. Amounts actually issued in 2008-09 and 2010-11 were $\$ 0$ and $\$ 45.6$ million, respectively. Instead, the overwhelming demand has been for the Water Infrastructure Fund (WIF). Accordingly, the Eighty-second Legislature prioritized 2012-13 issuances for the WIF program. In general, funding for WIF is designed to help a political subdivision address existing water infrastructure needs, such as construction of a new water plant to supply an existing customer base. The SPP is designed to address future water supply needs, on a longer term basis. Examples of SPP projects would be construction of a new reservoir, laying 40-inch pipelines in lieu of 10 -inch pipelines, or other construction to expand capacity in anticipation of future demand based on population growth.

Note that under Rider 4 authority, the LBB may approve a WDB request to transfer bond authority between WIF and the SPP to address program demands. Although this authority is in the agency's bill pattern, it has never been used.
3. A Comparison of Funding Models for the State Water Plan

In December 2011, the WDB adopted the 2012 State Water Plan (SWP). The SWP is developed through a regional planning process, and costs are self-reported by 16 regional water planning groups. Each group contains members that represent agriculture, industry, public, environment, municipalities, business, water districts, river authorities, water utilities, counties, and power generation. The total capital cost of the plan through 2060 is estimated to be $\$ 231$ billion, including: 1) Water treatment and distribution ( $\$ 88.9$ billion); 2) wastewater treatment and collection ( $\$ 81.7$ billion); 3) implementation of water management strategies ( $\$ 53.1$ billion); and 4) flood control efforts ( $\$ 7.5$ billion).

The regional planning groups anticipate needing up to $\$ 26.9$ billion in state assistance to implement the $\$ 53$ billion in estimated

## Section 3

needs for water management strategies. Water management strategies include conservation, reuse, and desalinization. At this time, there is no estimate of how much additional state assistance may be needed for other plan components: water treatment and distribution, wastewater treatment and collection, and flood control efforts.

The WDB has developed two proposed models for financing the SWP: Traditional Debt Service versus a Revolving Fund Model. In the example shown below, the state would provide a cash infusion of $\$ 550.0$ million in the 2014-15 biennium, and $\$ 150.0$ million each fiscal year thereafter for 14 years ( $\$ 2.1$ billion) to serve as the corpus of a revolving fund. A comparison of the models shows that the revolving fund provides $\$ 17.3$ billion more in funds for SWP projects over a 50 year period than a traditional debt service model ( $\$ 44.2$ billion - $\$ 26.9$ billion $=\$ 17.3$ billion). In this same example, a revolving fund would also cost the state $\$ 6$ billion less than a traditional debt service approach for the same period ( $\$ 8.6$ billion $-\$ 2.6$ billion $=\$ 6.0$ billion):

| Methods of Financing the State Water Plan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Traditional ${ }^{1}$ | ional ${ }^{1}$ <br> (In B | evolving ${ }^{2}$ | ving ${ }^{2}$ |
| Project financing through 2060 | \$ | 26.90 | \$ | 44.20 |
| Debt to be incurred by state (P\&I) | \$ | 66.50 | \$ | - |
| Repayments from borrowers (P\&I) with interest subsidies and deferrals | \$ | 59.20 | \$ | - |
| Overall cost to the state through $2060$ | \$ | 8.60 | \$ | 2.60 |
| Cost in 2014-15 Biennium | \$ | 1.80 | \$ | 0.55 |

## Note:

1) Continued reliance on General Revenue to provide debt service on general obligation (GO) bonds, which affects the Constitutional Debt Limit (CDL).
2) Use of loans, self-supporting GO or revenue bonds, or not selfsupporting GO bonds financed with a dedicated revenue source would not affect the CDL

The WDB arrived at its project financing estimate based on results of an Infrastructure Financing Survey Result (IFR) of 694 entities (See attachment). The analysis includes categories of capital costs requested, as well as the appropriate agency program for each: Water Infrastructure Fund (WIF) -construction, rural, and deferred, and State Participation -and the related General Revenue requirement for debt service.

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Traditional Model Assumptions
The WDB provided a debt service schedule for financing the $\$ 26.9$ billion (see attachment). Note that debt service in the first biennium of $\$ 1.8$ billion is relatively high, compared to subsequent years. This is primarily related to $\$ 15.7$ billion being needed in the period of fiscal year 2010-2019, primarily to address a backlog of previously identified, but unfunded projects.

Revolving Fund Dynamics
In the Revolving Fund model, the entire corpus of the fund, or $\$ 550.0$ million in this example, would be lent to borrowers for SWP projects. Principal of loan repayments could be immediately re-let, with interest earnings being available for either relending or for interest rate subsidies on future loans, or payment of debt service on self-supporting general obligation or revenue bonds. The WDB already manages several revolving funds, most notably the Clean Water State Revolving Fund and the Drinking Water State Revolving Fund, both of which are outside the appropriations process.
would be required to meet debt service needs.



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during repayment. State Participation was modeled with standard program terms. $1 \%$ subsidy. WIF Deferred was modeled with a ten year principal and interest deferral and a $1 \%$ subsidy purposes and assumed as a zero percent loan / full interest subsidy. WIF Construction was modeled at a
 כ!!! ! that they would be unable to support financing for $58.1 \%$ of the projects costs or $\$ 26.857 \mathrm{~B}$. the municipalities with a total financing need of $\$ 46.2 B$. Of the $\$ 46.2 B$, the responding entities noted Attachment 1). A portion of those capital costs were projected to be financed by private entities leaving Of the 694 entities surveyed in the IFR, 269 responded indicating total capital costs of $\$ 53.1 \mathrm{~B}$ (see


## Performance Review and Policy Report Highlights

| Reports \& Recommendations Report <br> Page Savings/ <br> (Cost) Gain/ <br> (Loss) Fund <br> Type Included <br> in Introduced Bill Action Required During Session |
| :--- |
| Fund the State Water Plan to Ensure Adequate Future Water <br> Supplies |
| 1. Amend statute to create a dedicated revenue source for the State <br> Water Plan and include a contingency rider in the 2014-15 General <br> Appropriations Bill to appropriate revenue estimated to be collected <br> from the option selected to the Texas Water Development Board to <br> fund State Water Plan projects. |

## Section 5

## Debt Service Payments - Non-Self Supporting G.O. Bonds <br> Rider Highlights

1. Payment of Debt Service: Economically Distressed Areas Bonds. Rider modified to delete references to the additional $\$ 100$ million in Economically Distressed Area bonds authorized during the 2012-13 biennium. The debt service related to this issuance is included in the strategy recommendations.
2. Payment of Debt Service: Water Infrastructure Bonds. Rider modified to delete references to the additional $\$ 200$ million in Water Infrastructure Fund bonds authorized during the 2012-13 biennium. The debt service related to this issuance is included in the strategy recommendations.

## Section 6

## Debt Service Payments - Non-Self Supporting G.O. Water Bonds

## Items not Included in Recommendations - Senate

In Agency Priority Order

| 2014-15 Biennial Total |  |  |  |
| :--- | :---: | :--- | :---: |
| GR \& GR- <br> Dedicated |  | All Funds |  |
| $\$$ | $78,852,175$ | $\$$ | $78,852,175$ |
| $\$$ | $6,041,509$ | $\$$ | $6,041,509$ |
|  |  |  |  |
| $\$$ | $\mathbf{8 4 , 8 9 3 , 6 8 4}$ | $\$$ | $\mathbf{8 4 , 8 9 3 , 6 8 4}$ |

*If the Eighty-third Legislature enacts legislation that creates a Capitalization Funding Model to finance the State Water Plan (SWP), the agency would not need this $\$ 78.9$ million exceptional item from General Revenue for debt service on $\$ 900$ million in new SWP issuances.

