

# Desalination Briefing

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1. Texas Water Code §16.060

2. Biennium Activities

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# Texas Water Code §16.060

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«(a) The board shall undertake or participate in research, feasibility and facility planning studies, investigations, and surveys as it considers necessary to **further the development** of cost-effective water supplies from seawater desalination in the state.

(b) The board shall prepare a **biennial progress report** on the implementation of seawater desalination activities in the state and shall submit it to the governor, lieutenant governor, and speaker of the house of representatives not later than **December 1** of each even-numbered year.»

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# Texas Water Code §16.060(b)

## The report shall include:

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- “(1) Results of the *board's studies and activities* relative to seawater desalination during the preceding biennium;
  - (2) Identification and evaluation of research, regulatory, technical, and financial *impediments* to the implementation of seawater desalination projects;
  - (3) Evaluation of the *role the state* should play in furthering the development of large-scale seawater desalination projects in the state; and
  - (4) The anticipated *appropriation from general revenues* necessary to continue investigating water desalination activities in the state during the next biennium.”
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# Biennium Activities

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<p>Seawater Feasibility Studies</p> <p>Workshops, presentations, seminars</p> <p>Legislative Appropriations Request FY 06-07</p>	<p>Other Research and Studies</p> <p>Federal Funding Opportunities</p> <p>Benchmarking</p>
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# The Future of Desalination in Texas

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**Policy Volume: TWC §16.060 (b)**

**Technical Volume**

**Availability**

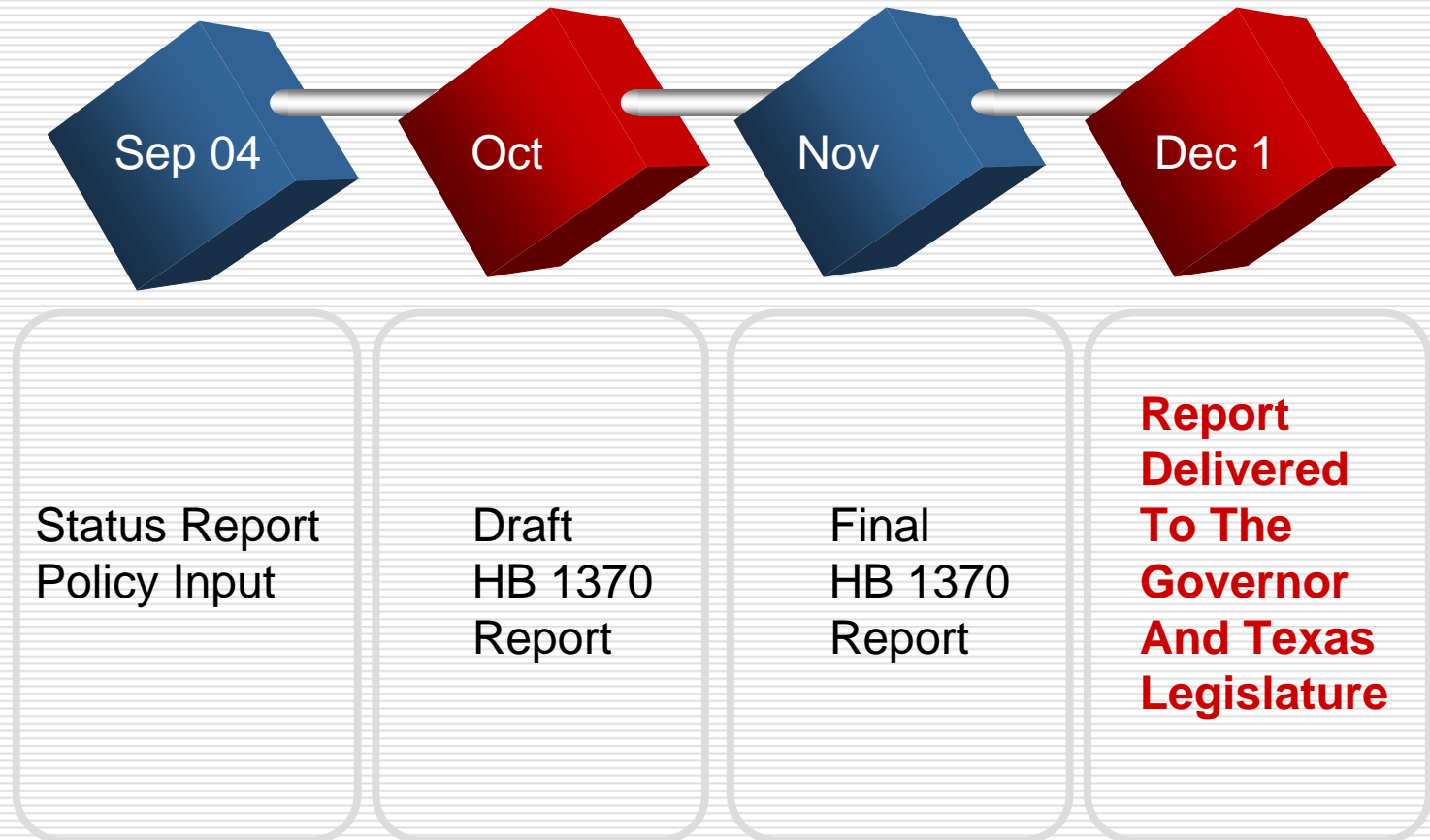
**Technology**

**Case Studies**

**Resources**

# Report Time Line

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# Statements of Interest

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- Screening criteria
    - Need
    - Siting advantages
    - Support for the project
    - Project cost
    - Demonstration value
  - Three projects recommended on the basis of their implementation potential
  - 78<sup>th</sup> Legislature-TWDB to use \$1.5 million grants to fund feasibility studies
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# Feasibility Reports

**[DRAFTS-under review]**

	<b>Brownsville</b>	<b>Corpus Christi</b>	<b>Freeport</b>
<b>Million Gallons per Day</b>	25 [100]	25	10
<b>Capital Cost (Millions)</b>	\$151	\$197	\$76*
<b>Annual O&amp;M (Millions)</b>	\$8	\$18	\$7
<b>Delivered Cost of water [\$/1,000 gal]</b>	2.08	3.86	4.71
<b>Initial Subsidy \$/1,000 gal [\$/Acre-ft]</b>	1.24 [400]	3.23 [1,042]	3.49 [1,127]
<b>Customers</b>	<b>Brownsville</b> Brownsville/Cameron C	<b>Corpus Christi</b>	<b>Brazosport WA</b>



# Other studies

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- Oil & Gas Mining Product Water
  - Permitting Model
  - Capacitive Deionization Technology
  - Desalination Facilities Inventory
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- Pass the Salt-Concentrate disposal
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- Three proposals submitted for funding competition at US Bureau of Reclamation
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# Other activities

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- Concentrate disposal permitting
  - Work with Texas Delegation [\$400,000]
  - Partnerships with research interests and others
  - Workshops/Seminar
  - American Membrane Technology Association
  - International Desalination Association
  - South Central Desalting Association
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# Legislative Appropriations Request for FY 2006-2007

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## □ \$3.3 million

- Up-to \$2.5 million for pilot plants
  - \$600,000 for development of small-to-medium size brackish groundwater desalination facilities
  - \$200,000 to finance two full-time employees to conduct outreach and technical desalination assistance
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# Policy Issues

## The role of the State

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- Seawater desalination demonstration project
    - Project funding
  
  - Other TWDB desalination efforts
    - Development of brackish groundwater demonstration projects
    - Transferability of knowledge
    - Next Steps
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