

Texas Desal 2014 – Sept. 11 and 12, 2014

Status of Streamlined Approval Process for Desalination Treatment in Texas

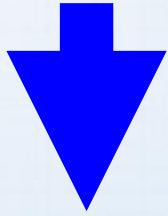
Justin Sutherland, Ph.D., P.E.



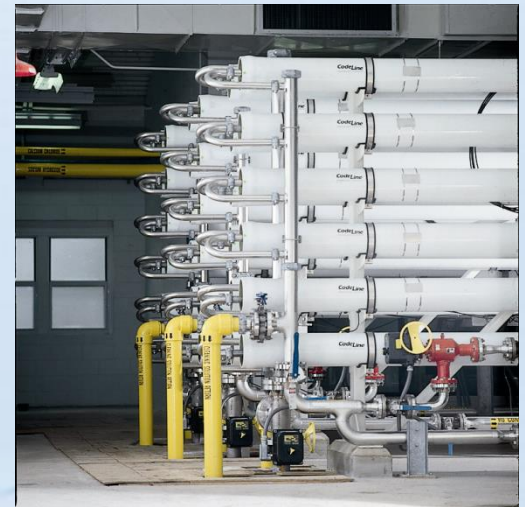
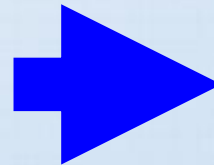
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Engineers...Working Wonders With Water®

Pilot Testing Was a Significant Step to Designing a Brackish GW RO System

Develop Brackish Groundwater Source



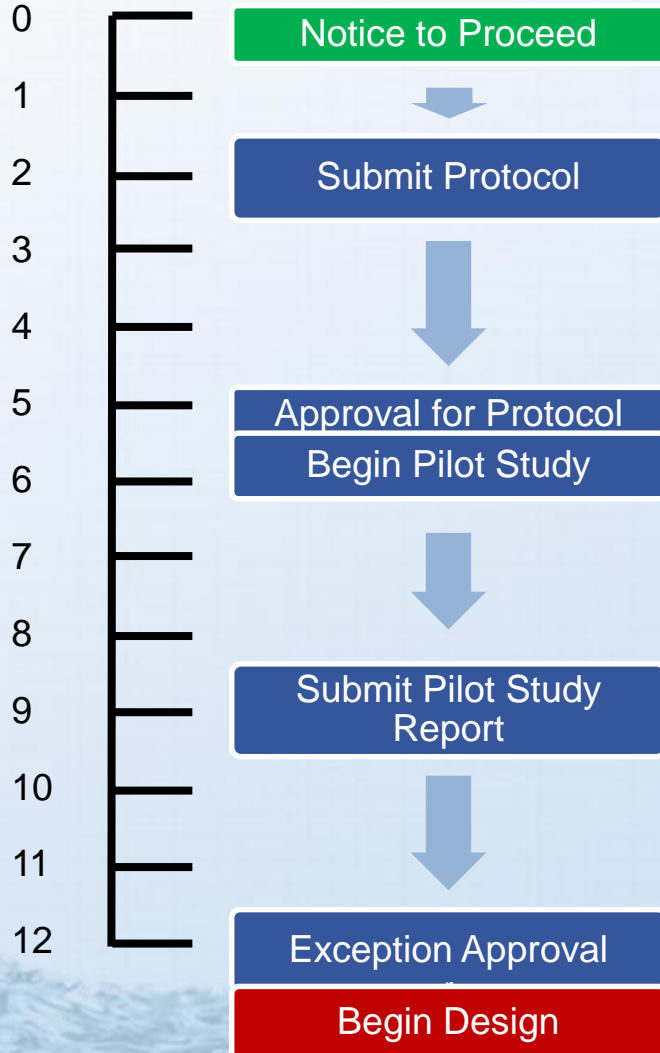
Demonstration-Scale Pilot Testing



Treatment Process

Time and Cost Were Drivers for Evaluating Alternatives to Pilot Testing

Months



Ballpark Cost: \$750,000

**April
2013**
Near end
of Regular
Session

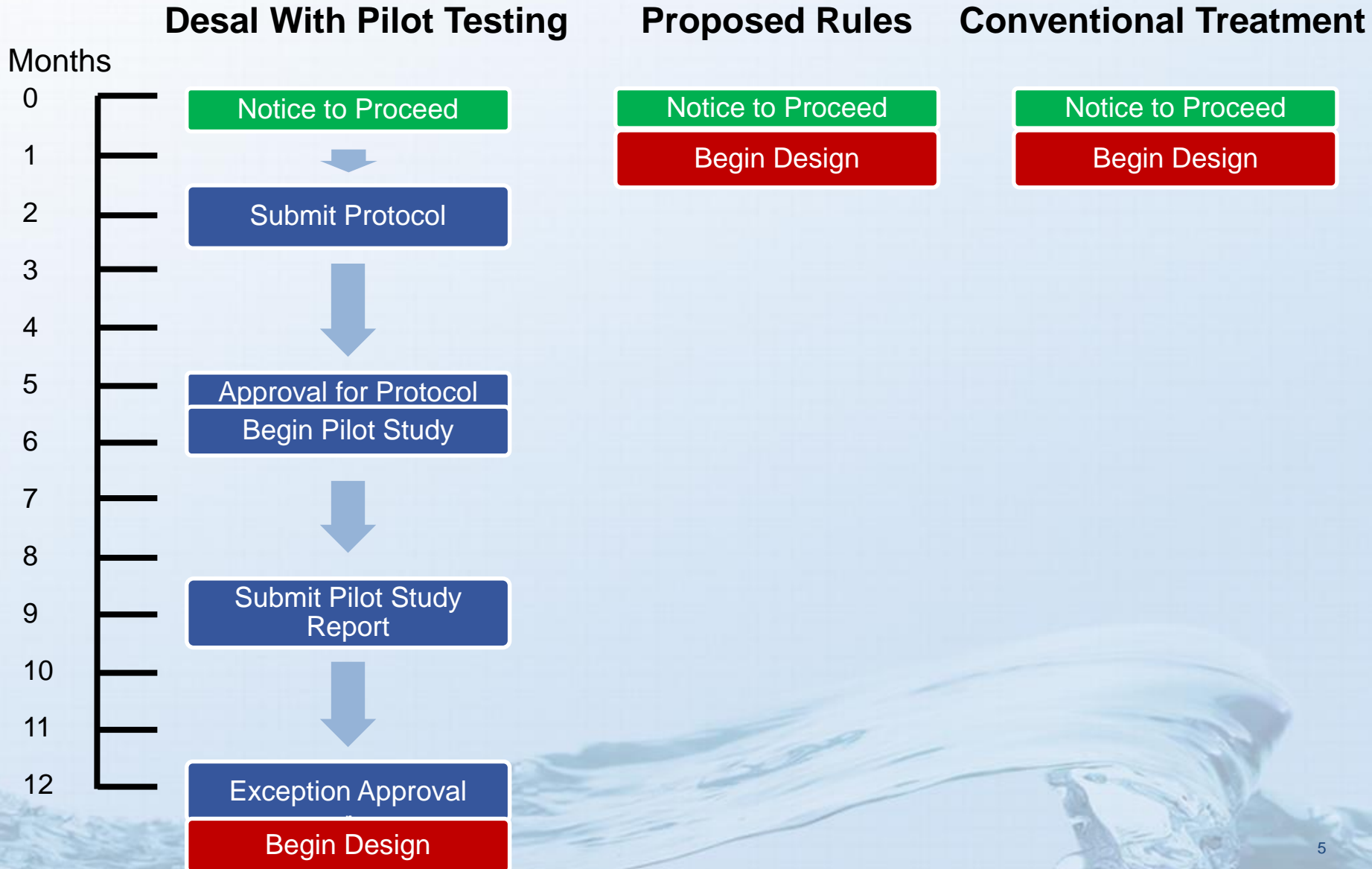
**May/
June
2014**
Stakeholder
Process

**Jan
2014**

**Jan
2015**
Draft
Rules

**New Rules
Expected by
June 2015**

Proposed Rules Streamline Design of Brackish GW RO Systems



Based on the Stakeholder Meetings, the Proposed Rules May Include...

- Boundary conditions for design criteria
- Pre- and Post-Treatment
- Engineering Report
- Operator Licensing
- Operations Manual

Use of Computers Models or Pilot Testing will be allowed

Manual of Practice for RO Design Using Models is Available

Manual of Practice for the Use of Computer Models for the Design of Reverse Osmosis/ Nanofiltration Membrane Processes

Final Report

by
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Texas Water Development Board

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January 2014

- Data Requirements
 - Modeling Guidance
 - Design Basis Development
 - Examples
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- E-mail or call me for a PDF of the final report
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