

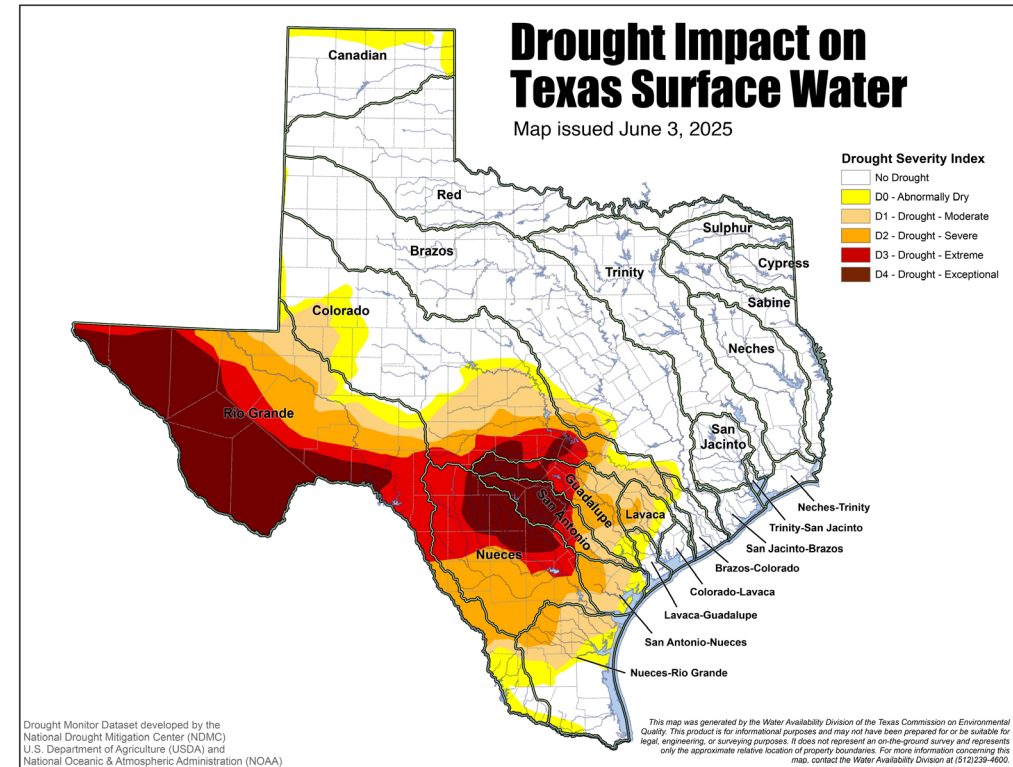
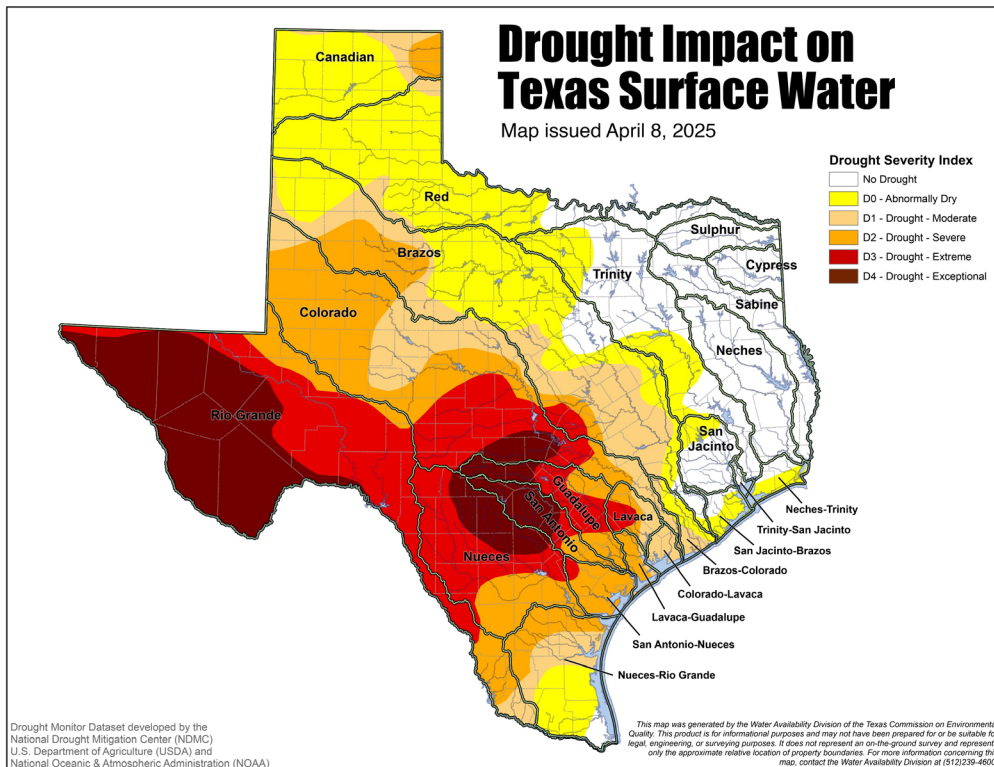
Water Supply Update

Drew Molly, P.E.
Chief Operating Officer

June 10, 2025

Drought Monitor

- As of the April 8, 2025, Council update, 82% of Texas was in some level of drought.
- On June 3, 2025, that number decreased to 42%, but while large parts of Texas improved, the drought in the Nueces River watershed has remained.
 - Approximately half of the Nueces River Basin is in Extreme to Exceptional Drought.
 - As of June 6, 2025, the combined reservoir capacity of Choke Canyon and Lake Corpus Christi was 15.1%.
 - Lake Texana was at 82.9%, as compared to 77.9% the prior month.



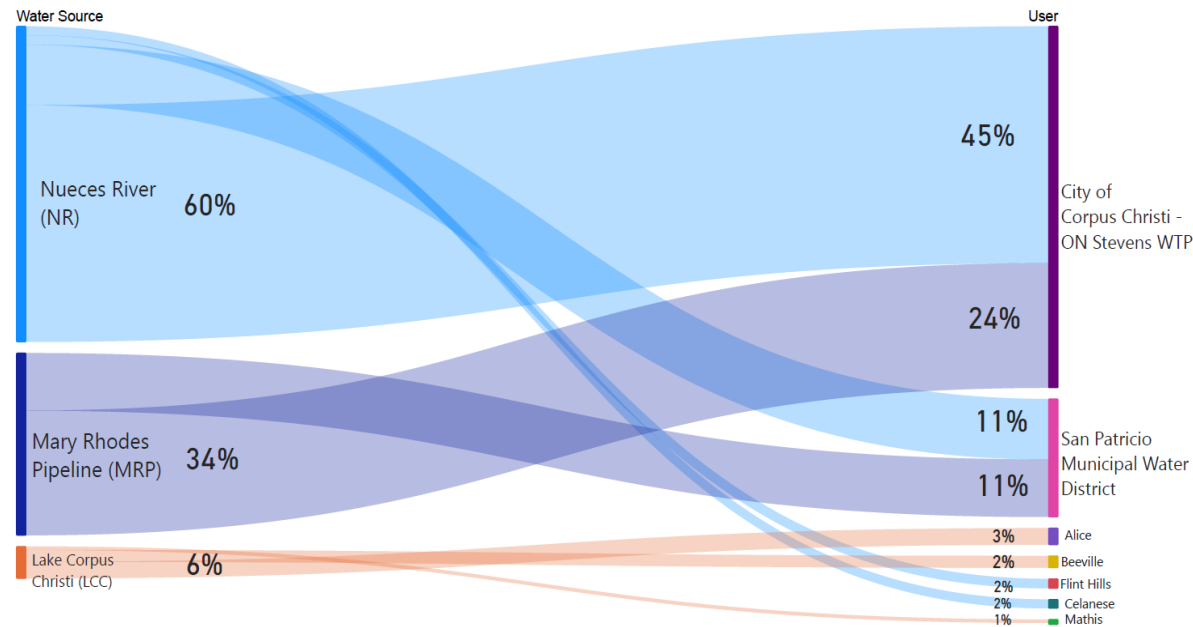
Monthly Raw Water Usage

Overview:

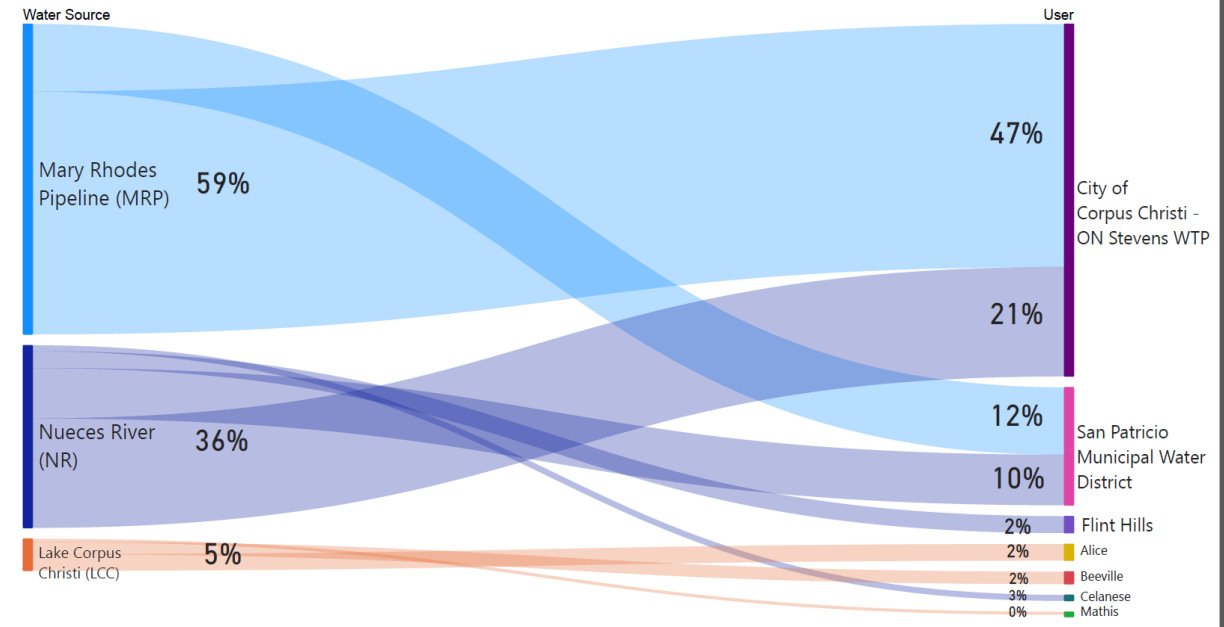
Monthly summary of how our water sources are used.

- In May 2024, the region used an average of 111 MGD of water, and 103 MGD in May 2025.
- In May 2024, the **Nueces River** was **60%** of the supply used, **compared to 36% in May 2025**.

Total raw water gallons used in May 2024 3.45 billion gallons Average use per day in million gallons (MGD) 111.43



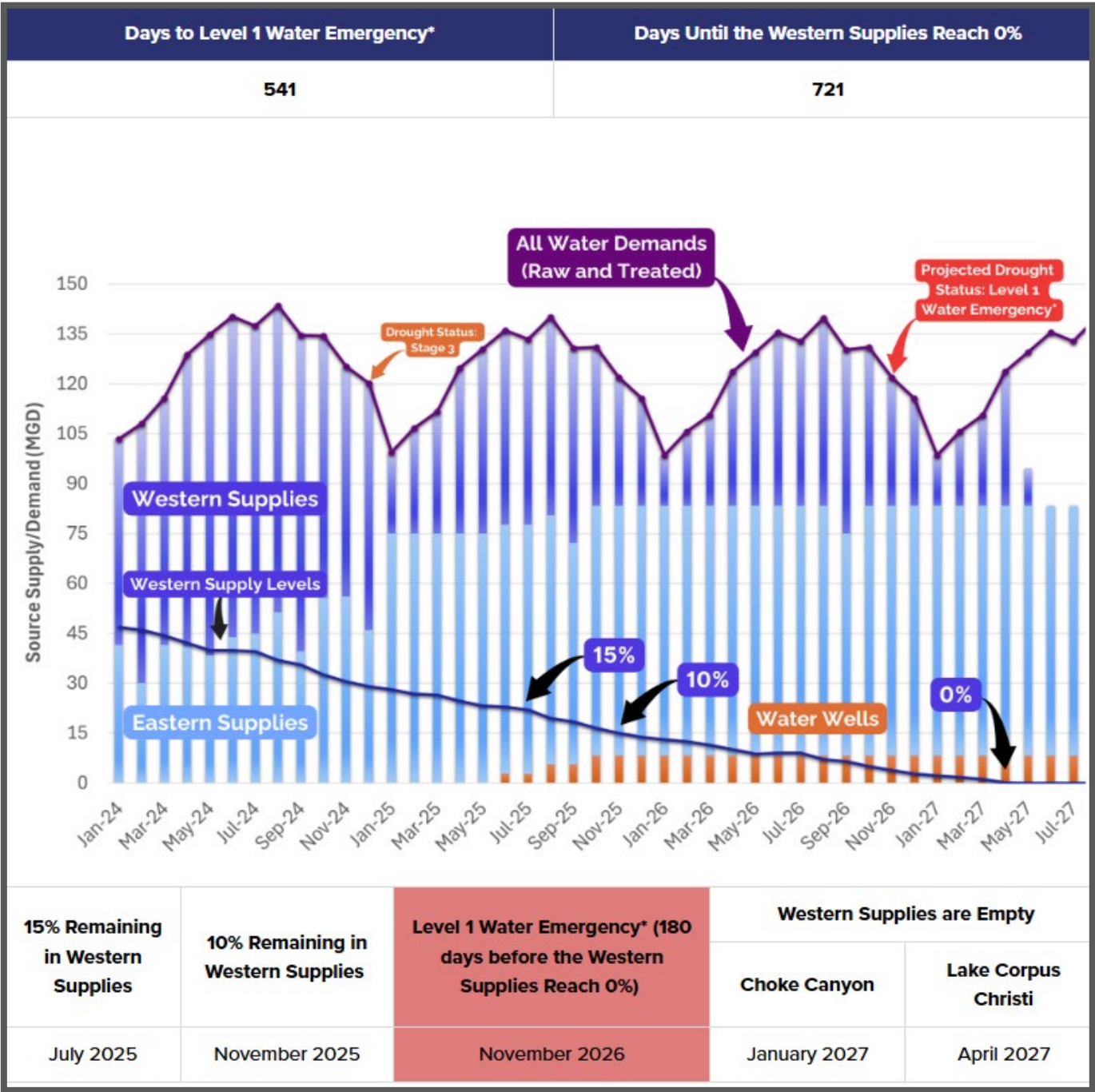
Total raw water gallons used in May 2025 3.22 billion gallons Average use per day in million gallons (MGD) 103.79



Water Supply Dashboard

Overview:

- In May 2025, the City developed a water supply model to inform customers on the water supply challenges the City is facing.
- This graph illustrates the water sources used, as well as the water demand for all City customers.
- This model is an evolving model, with updates published every two weeks. The previous model results are also available on the website.



Water Supply Dashboard

June 10 Update

- In May 2025, the City developed a water supply model to inform customers about the City's water supply.
- The May 2025 model included several assumptions, as outlined below.
 - For the June model, a few of the assumptions have been modified with new information.

Baseline Model (May 1 to June 6)		Updated Baseline Model (June 9 – future)	
Mary Rhodes Pipeline (MRP)	<ul style="list-style-type: none">• Normal operating conditions at Schedule 4 at 75 million gallons a day (MGD)	<ul style="list-style-type: none">• Normal operating conditions at Schedule 4 at 70 MGD	
Mary Rhodes Pipeline (MRP)	<ul style="list-style-type: none">• Assumed two weeks of reduced flow at Schedule 3 (55 MGD) due to unforeseen operational issues	<ul style="list-style-type: none">• Added four weeks of reduced flow at Schedule 3 (55 MGD) due to unforeseen operational issues at Lake Texana pump station	
Nueces Groundwater Wells	<ul style="list-style-type: none">• 3 MGD by June, plus 3 MGD by September, plus 3 MGD by November• Assumed an average pumping capacity between 1 MGD to 1.5 MGD per well for the eight wells.	<ul style="list-style-type: none">• 10 MGD by mid-July (pending the TCEQ temporary Bed and Banks permit)• 3 additional MGD in August• These amounts are based on the updated pumping capacity of 1.5 MGD to 2 MGD per well for the eight wells	

Water Supply Dashboard

Results from the updated model, compared to the baseline model.

Summary:

Model Version	15% Remaining in Western Supplies	10% Remaining in Western Supplies	Level 1 Water Emergency (180 days before the Western Supplies Reach 0%)	Western Supplies are Empty	
				Choke Canyon	Lake Corpus Christi
May 1, 2025	July 2025	November 2025	November 2026	January 2027	April 2027
June 10, 2025	June 2025	October 2025	October 2026	December 2026	April 2027

Groundwater Supply Assessment

Picture of a City well in Nueces County.



- **Nueces River Groundwater Wells Project**
City-led production and treatment of brackish groundwater wells along the Nueces River
- **Evangeline Groundwater Project**
Water rights purchase of 12 MGD and potentially up to 24 MGD near Sinton, Texas, with phased delivery and City ownership of eventual production/conveyance infrastructure
- **EV Ranch Project**
Third-party treated brackish groundwater supply with City-involved project development
- **Emergency Evaluation of Ground Water Supply Alternatives**
City staff is reviewing Garver's Assessment and is targeting a presentation for June 17th.

Nueces River Groundwater Wells Project

Project Overview:

Phase I consists of drilling eight wells and obtaining the necessary TCEQ Bed and Banks permit to discharge up to 15,680 acre-feet per year of groundwater into the Nueces River.

A summary of the most recently completed activities includes:

- **Completed Well No. 1**
- **Completed Well No. 2**
- **Waiting for permanent pump equipment to arrive at Well No. 3**
 - City staff anticipate the well to be operable by mid-June
- **Completion of the pump design for Well No. 4**
 - City staff anticipate the well to be operable by the end of June
- **Completion of drilling of Well No. 5 and No. 6**
 - City staff anticipate test pumping to begin next week
 - City staff anticipate the wells to be operable by the end of July
- **Mobilization of drilling teams to Well No. 7 and No. 8**
 - City staff anticipate drilling to begin next week
 - City staff anticipate the wells to be operable by the end of August



Nueces River Groundwater Wells Project

Bed and Banks Permit

- City staff have completed their responses for additional information requested by the Texas Commission on Environmental Quality (TCEQ) earlier this week
- City staff anticipate that TCEQ will review the additional information within the next week. If no further information is requested, the application will be declared administratively complete. A 30-day public notice will then be issued



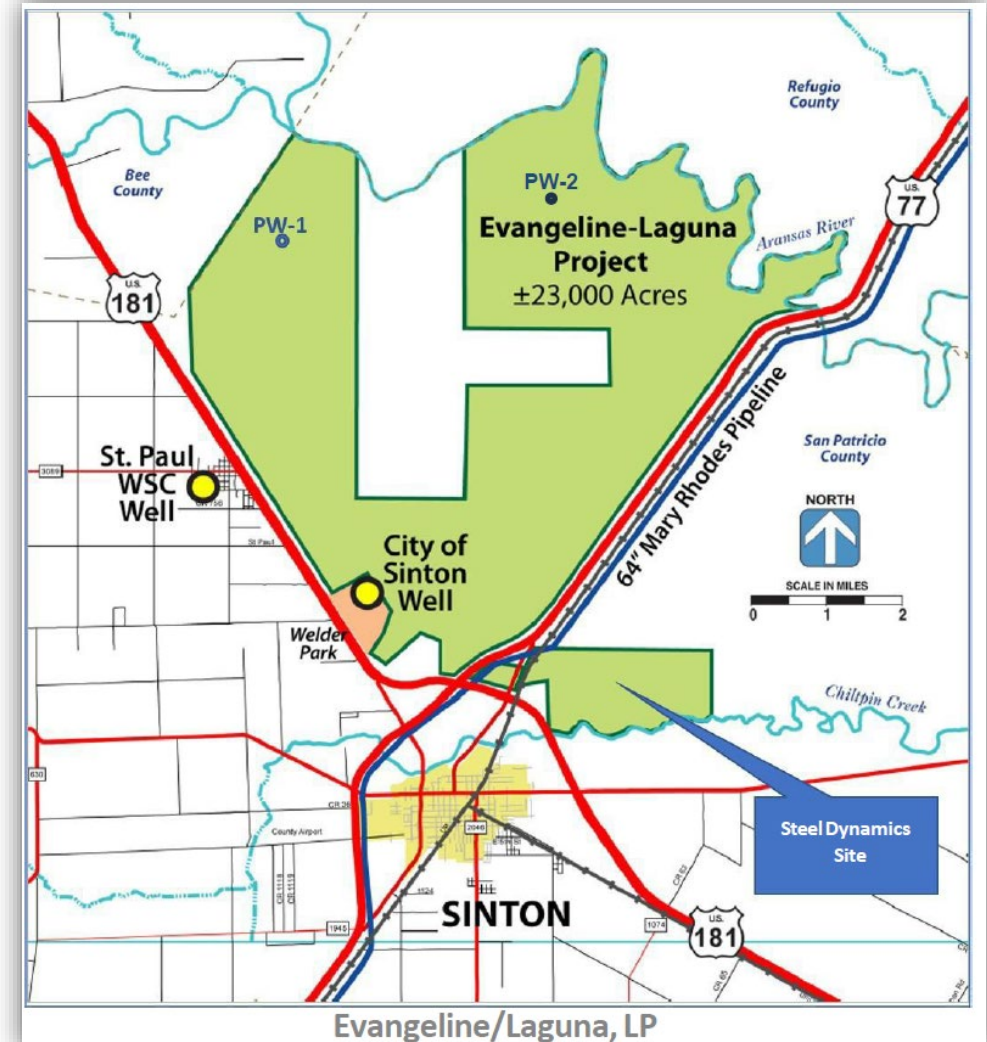
Picture of Nueces River from www.tsswcb.texas.gov

Evangeline Laguna, LLP (Evangeline) Groundwater Project

Project Overview:

Water rights purchase of 12 MGD and potentially up to 24 MGD near Sinton, Texas, with phased delivery and City ownership of eventual production/conveyance infrastructure.

- April 22nd, the City and Evangeline executed an MOU regarding purchasing water rights and related rights for approximately 23,000 acres in San Patricio County.
- CCW, City Attorneys, and City Consultants are reviewing documentation provided by Evangeline, which includes title and deed documentation, letter agreements, and surface use agreements.
- On Friday, May 30th, the City sent a revised MOU to Evangeline requesting a 60-day extension. This extension was due to insufficient information provided by the Evangeline group regarding title and deed.

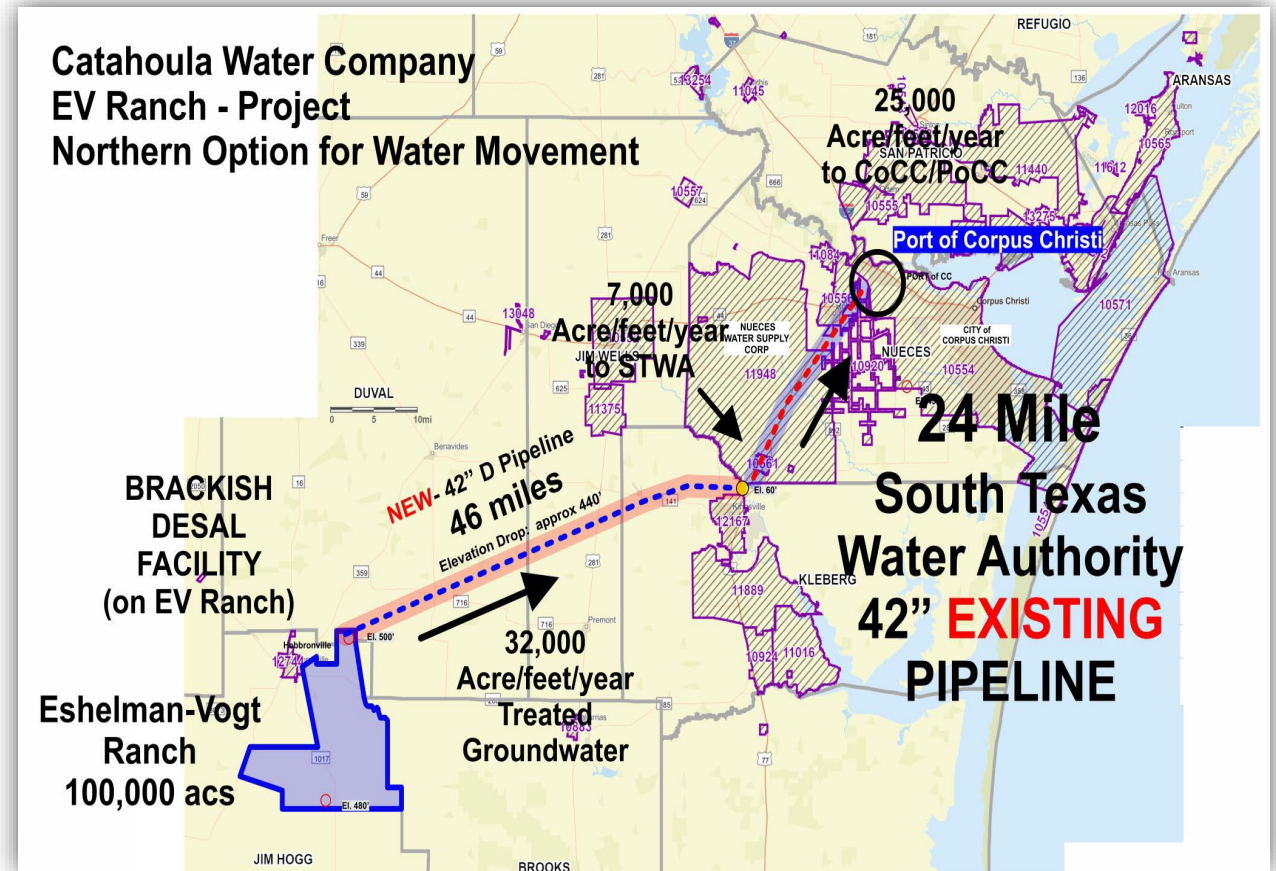


Echelman-Voigt (EV) Ranch Project

Project Overview:

Third-party treated brackish groundwater supply with City-involved project development

- City staff continue to work with EV Ranch to determine its feasibility and cost projections.



South Texas Water Authority Partnership

STWA is working on a brackish groundwater well desalination project with Seven Seas Corporation (Seven Seas).

- On May 27th, Seven Seas and STWA met with the City Manager, CCW's Chief Operating Officer, and the Mayor to discuss the Seven Seas Brackish Groundwater Project
- Seven Seas requested that the City decide within two weeks if they are interested in purchasing water from STWA/Seven Seas so that the desalination plant can be appropriately sized.
- The City requested documentation regarding the project, including the contract between STWA and Seven Seas ("Contract"). STWA offered to provide a copy of the Contract later in the week. However, the city of told this would require a decision from the attorney general's office, which could take up to seven weeks for a decision.
- A second meeting is being scheduled between the City, SWTA, Kleberg County, and Seven Seas to continue to evaluate the project



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The top half of the slide features four horizontal, wavy bands of different shades of blue, creating a water-like effect.

Thank you!