

Welcome to the March 12, 2024, Prosper Town Council Work Session

Call to Order/Roll Call

Executive Session

Section 551.087 – To discuss and consider economic development incentives and all matters incident and related thereto.

Section 551.072 – To discuss and consider purchase, exchange, lease or value of real property for municipal purposes and all matters incident and related thereto.

Section 551.074 – To discuss and consider personnel matters and all matters incident and related thereto.

Section 551.071 – Consultation with the Town Attorney to discuss legal issues associated with any agenda item.

Section 551.071 – To consult with the Town Attorney regarding Chapter 42 of the Texas Local Government Code and Extraterritorial Jurisdiction land use and development issues, and all matters incident and related thereto.

Section 551.074 - To discuss and consider personnel matters, including the annual evaluation of the Town Manager, Town Attorney and the Municipal Judge, and all matters incident and related thereto.

The Town Council will reconvene after Executive Session.

Reconvene into Work Session

Agenda Item 1.

Discussion regarding the Upper Trinity Regional Water District (UTRWD) Doe Branch Water Reclamation Plant expansion. (CE)

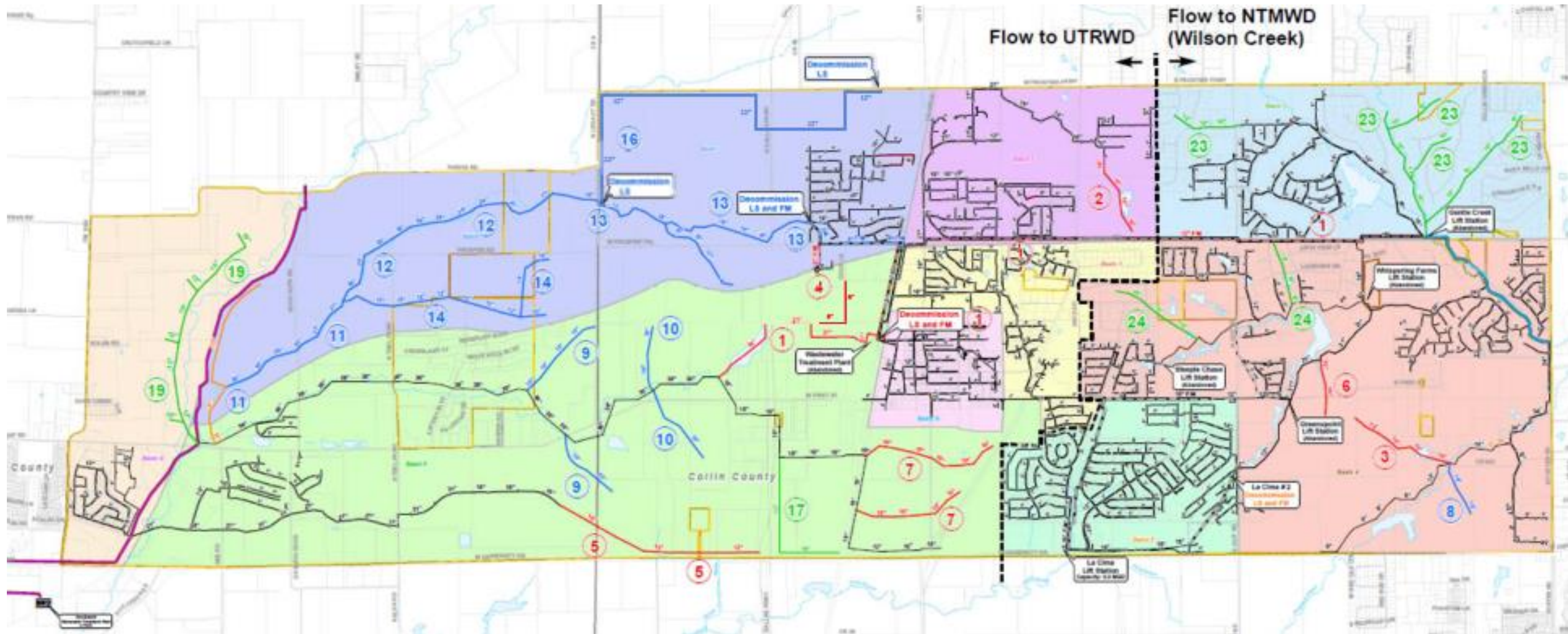
Expansion of the Doe Branch Water Reclamation Plant

Doe Branch Water Reclamation Plant (WRP)

**Current Capacity – 4 MGD
Permitted to 20 MGD**



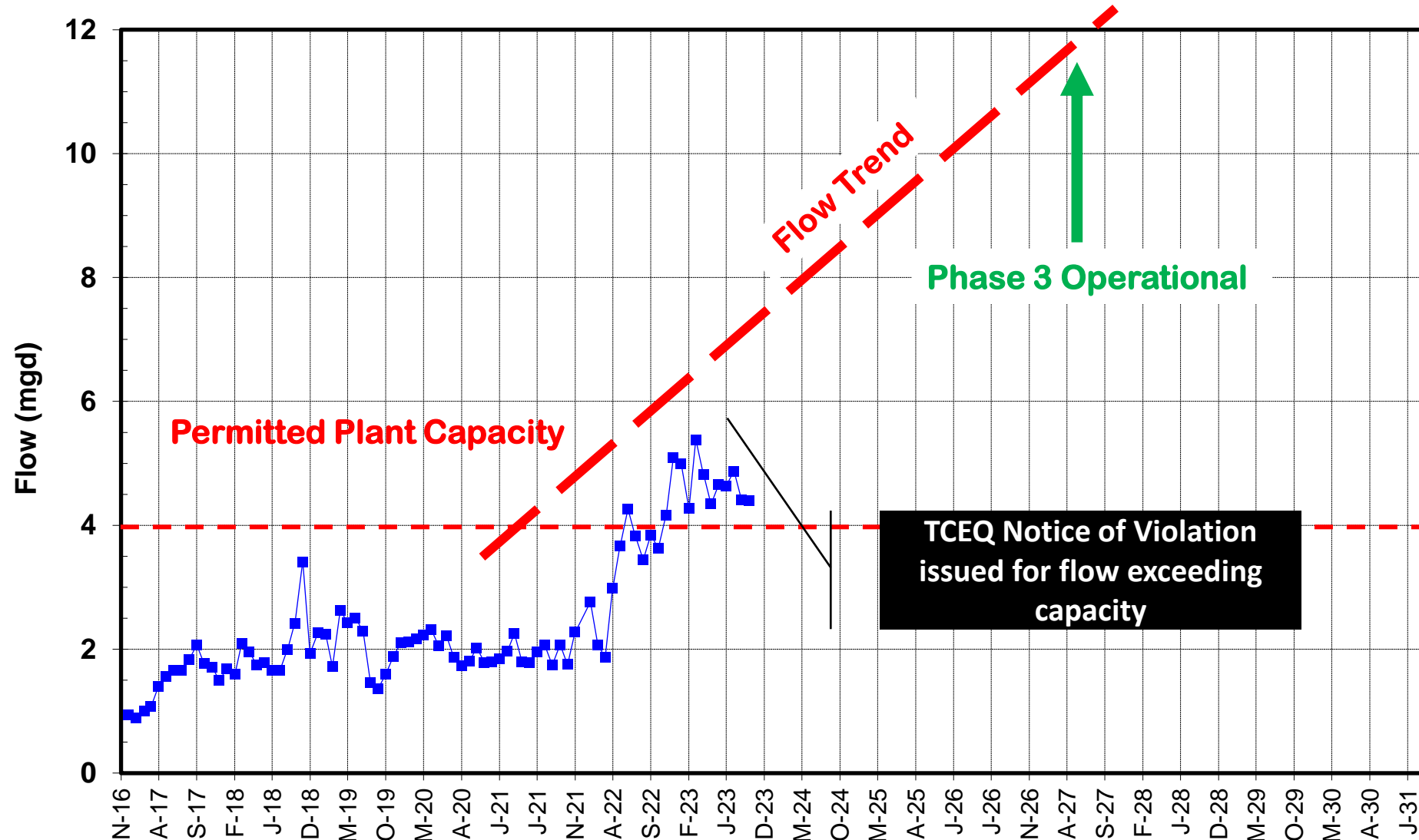
Little Elm, Texas



Projects Included in Agreement

- Doe Branch Plant Expansion to 8 MGD
 - Estimated Cost \$209,892,554
 - Prosper share \$104,946,277
- Doe Branch Interceptor Line
 - Estimated Cost \$30,000,000
 - Prosper share \$15,000,000

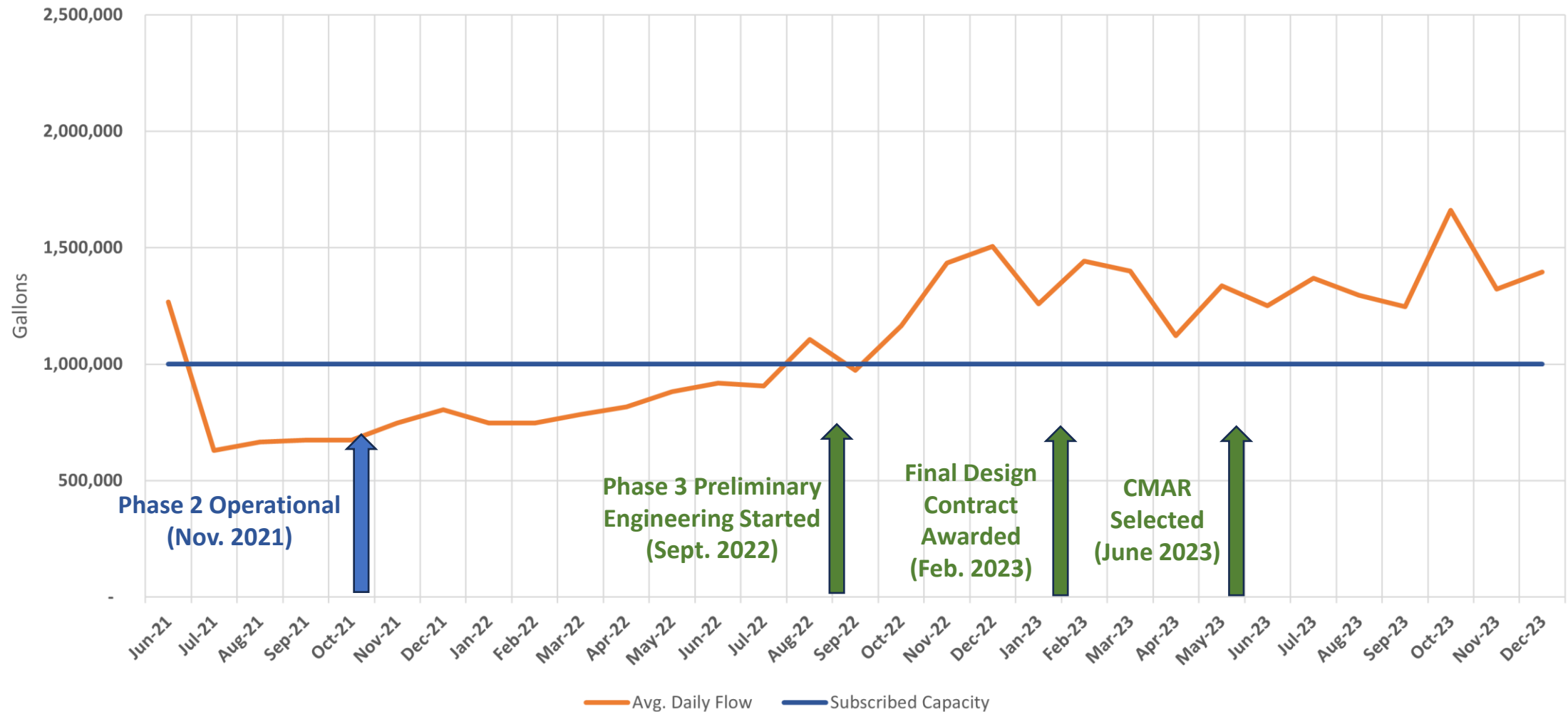
Doe Branch WRP Flows & Trends





Doe Branch WRP - - Prosper Flows

Prosper Wastewater Flow
Doe Branch Water Reclamation Plant



Doe Branch WRP expansion budget estimates

Description	Conceptual Estimate (8.0 mgd)	CMAR 30% (8.0 mgd)	CMAR 30% Phase 3A (8.0 mgd phased)	CMAR 30% Phase 3B (8.0 mgd phased)
AACE Estimate Class	4	3	3	3
Direct costs	\$ 74,524,302	\$ 136,284,270	\$ 105,651,332	\$ 44,050,577
Indirect costs	<u>\$ 72,237,174</u>	<u>\$ 50,162,138</u>	<u>\$ 38,887,075</u>	<u>\$ 16,213,691</u>
Estimated construction cost	\$ 146,761,476	\$ 186,446,408	\$ 144,538,407	\$ 60,264,268
<i>Engineering & PM</i>	-	\$23,446,146	\$30,949,584	
Total Cost (8.0 MGD)	-	\$209,892,554	\$235,752,259	

Notes:

- 1) OPCC is before design and without plans and specs
- 2) Based on 30% design plans

Key factors impacting project cost

- Higher waste load - - Flow is not the only factor.
- Building new facilities next to existing. Not modifying existing.
- Engineer's estimates differ from CMAR cost estimates.

Conceptual Estimate	30% CMAR Estimate
<ul style="list-style-type: none">• Based on historical Information• Lags approximately 8-12 months from current conditions• Industry indexes (averages)• Based on general concepts -- not detailed design	<ul style="list-style-type: none">• Current market conditions• Estimates based on active projects and recent bids• Real time local escalation• Based on detailed design -- 30% Design Drawings

- Construction costs continue to escalate

Wastewater Treatment Construction Costs

Project	Estimate or Award Date	Construction Cost (\$)	Design/ Expansion capacity (mgd, AADF)	Unit construction cost (\$ / gallon)	Comments
Bids					
The Colony Stewart Creek WWTP Expansion Ph. 1 + 2A	2015 2020	\$30,329,266 (\$17,797,000 +\$12,532,226)	0.9	\$ 33.70	Expand from 3.6 mgd to 4.5 mgd and new dewatering facility in phases
NTMWD Sister Grove WWRF	2020	\$368,192,252	16	\$ 23.01	CMAR including fees, EBPR process similar to DB
Celina Legacy Hills WRF	2023	\$33,051,795	0.95	\$ 34.79	SBR does not have clarifiers
Estimates					
Hutto WWTP	2023	\$143,654,226	6	\$ 23.94	90% CMAR cost model
UTRWD Doe Branch WRF Ph. 3	2023	\$186,446,408	8	\$ 23.31	CMAR 30% including fees, New plant with dewatering
UTRWD Doe Branch WRF Ph. 3A	2023	\$144,538,407	4	\$ 36.13	Similar outcome as the Colony, overall cost increases

Current Financing Plan

- Approximately \$6.1M transferred
- Plant Expansion - Issue \$55M in CO's over next two years
- Doe Branch Interceptor - Issue \$7.4M in CO's over next two years
- Remainder based on final costs
 - Will work with UTRWD on financing options
- Projections/Impact Fee Study completed by the end of the year.
- Amended Agreement – 26 March 2024
 - Recommend subscribing to 3.125 MGD (Total 4.125 MGD)
 - 3 MGD Additional Capacity
 - .125 MGD Existing Capacity
 - 1 MGD Unsubscribed Capacity

Adjourn