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TACWA Meeting in Garland, Texas

Date: Friday, January 28, 2022

Host: City of Garland

Sponsors: Arcadis, CP&Y, GAI, Jones|Carter, and Mead & Hunt



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WATER UTILITIES



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What's Happening in Garland

- Garland is now the 13th largest city in Texas
- Downtown Garland Improvements/Redevelopment
- Expansion of I-635 (LBJ) from I-30 to 75
- New Garland Medical District area
- New Garland Animal Shelter & Adoption Facility – to open soon
- Working on the largest Bond Program in the history of the city
 - Relocate Fire Station No. 1
 - Police Evidence and Property Facility
 - Sports Field/Park Renovation Program
 - And more





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Our Water System (Drinking Water)

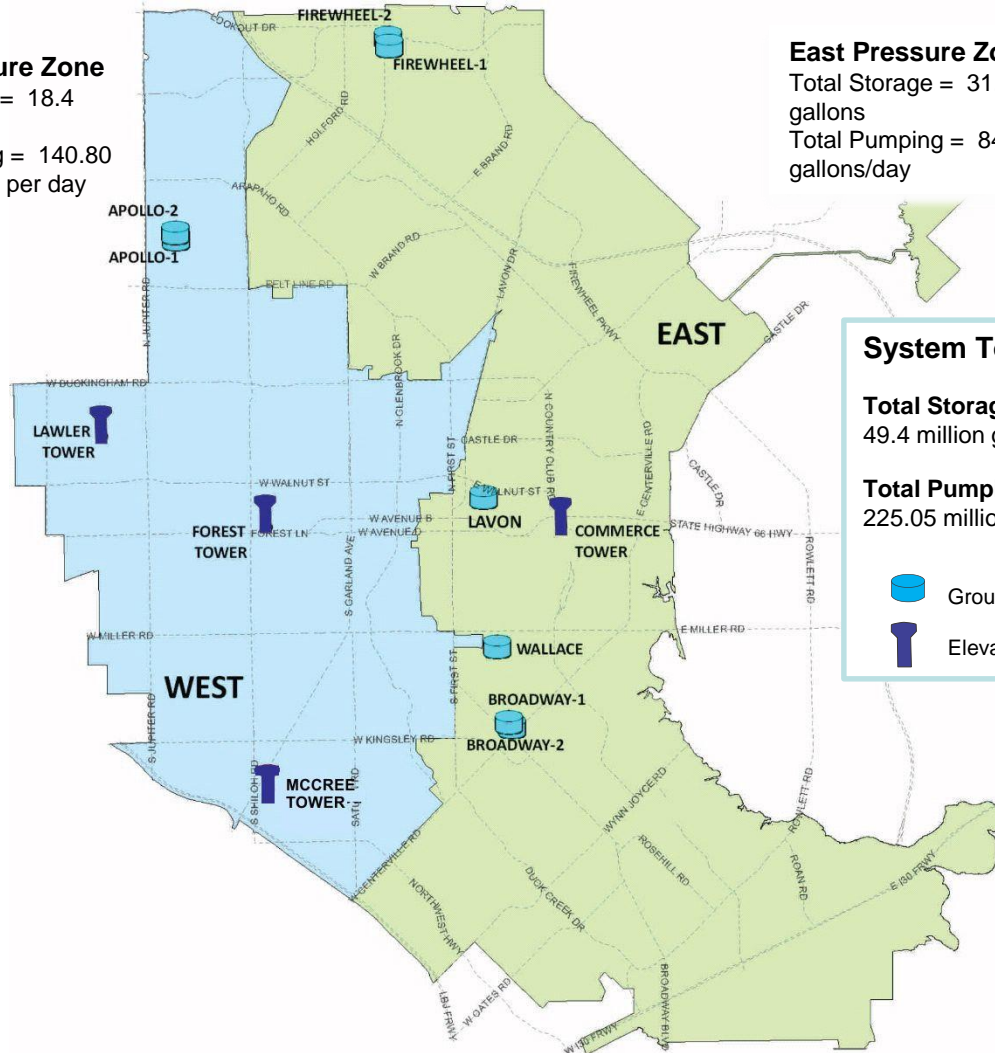


West Pressure Zone

Total Storage = 18.4 million gallons
Total Pumping = 140.80 million gallons per day

East Pressure Zone



Total Storage = 31.0 million gallons
Total Pumping = 84.25 million gallons/day



System Totals

Total Storage
49.4 million gallons

Total Pumping
225.05 million gallons/day

-  Ground Storage
-  Elevated Storage

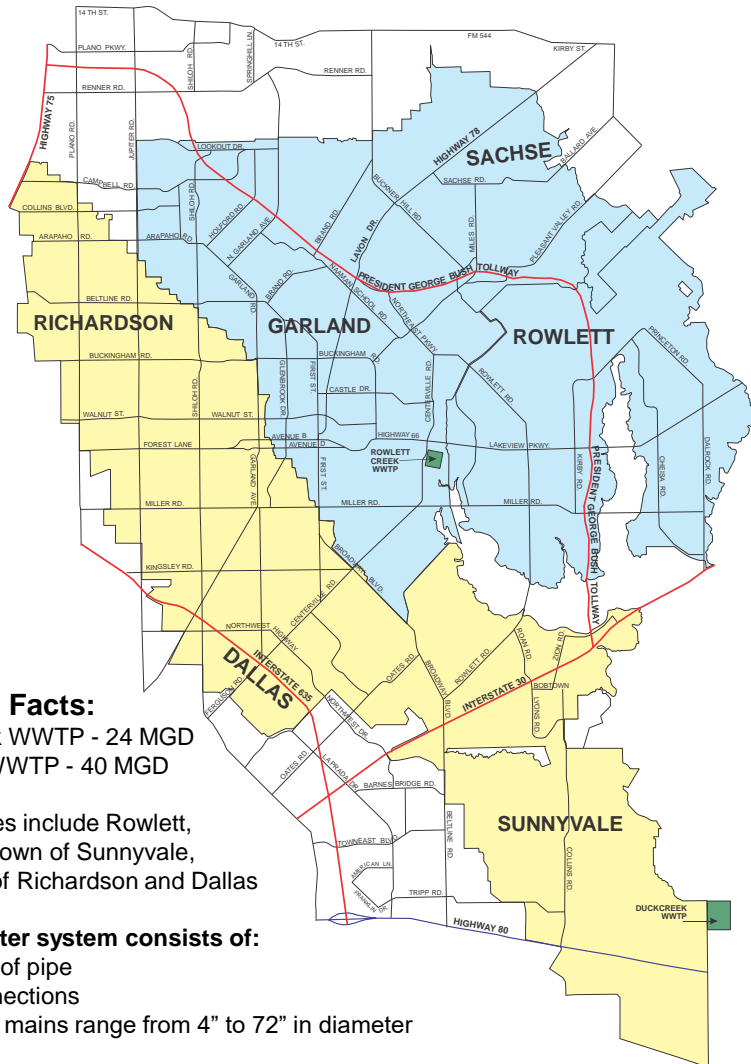
Water System Facts:

- Meter sizes range from 5/8" to 8"
- 1,100 miles of pipe
- 69,600 billed connections
- Water mains range from 2" to 48" in diameter



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Wastewater System (Clean Water)



Interesting Facts:

Rowlett Creek WWTP - 24 MGD
Duck Creek WWTP - 40 MGD

Customer cities include Rowlett, Sachse, the Town of Sunnyvale, and portions of Richardson and Dallas

Our wastewater system consists of:

- 1,001 miles of pipe
- 67,400 connections
- Wastewater mains range from 4" to 72" in diameter



Rowlett Creek Treatment Plant



Duck Creek Treatment Plant



City of Garland's National Awards

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- Water Environment Association of Texas (WEAT) Awarded Duck Creek WWTP
 - 2021 Municipal Wastewater Treatment Plant of the Year Award (Category 3)
- Water Environment Association – (WEF)
 - 2021 Safety Award
- National Association of Clean Water Agencies (NACWA)
 - Outstanding compliance records and excellence in wastewater treatment
 - Duck Creek WWTP received the Silver Peak Performance Award
 - NACWA National Environmental Achievement Award for the "Public Information & Education: E-Media" category for Garland's Story Map "We Keep It Flowing, Coming or Going"



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TEXAS 4-H WATER AMBASSADORS PROGRAM

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TEXAS 4-H WATER AMBASSADORS PROGRAM

About the Program

The Texas 4-H Water Ambassadors Program was formed in 2017 in an effort to educate youth about water resources in Texas. Every spring, up to 30 high school youth are selected to participate in a summer 4-H2O Leadership Academy (tour). Students travel throughout Texas to learn how water is collected, conveyed, treated, conserved and managed to meet the need of our economy and citizenry.

To reinforce knowledge gained during the academy, water ambassadors pass on that information to others as they engage in various education and service activities throughout the year. This program also provides a platform for youth to connect with water industry professionals and educators who represent a wide range of water disciplines.



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Agenda



08:00 - 09:00 Continental Breakfast

09:00 - 09:10 Welcome and Introductions

09:10 – 09:30 Business Meeting

09:30 – 10:00 “Overcoming WRRF wet weather treatment challenges” – Ed Becker, PE, ARCADIS

10:00 – 10:30 "Utilization of Tier 4 Generators for Water/Wastewater Facilities - A Case Study" - Mazhar Hajizadeh, GAI, and Bill Gase, City of Garland

10:30 – 10:45 Break

10:45 – 11:15 “Nutrient Removal in Texas - Overview and Case Study” - Bethany Miller, PE, Jones|Carter

11:15 – 11:45 "It Wasn't Me! Real-Time Monitoring and Forecasting of Odors" - Charlotte Smith, P.E., Perkins Engineering Consultants, Inc. and Bill Gase, City of Garland

11:45 – 12:15 "Climatological Impact on Wet Weather Management and a Resiliency Plan for Future Wastewater Operators" - Pawan Gunjur, P.E., and Mike Graves, P.E., CP&Y

12:15 – 1:00 Lunch

1:00 Adjourn



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Thanks to our Sponsors:

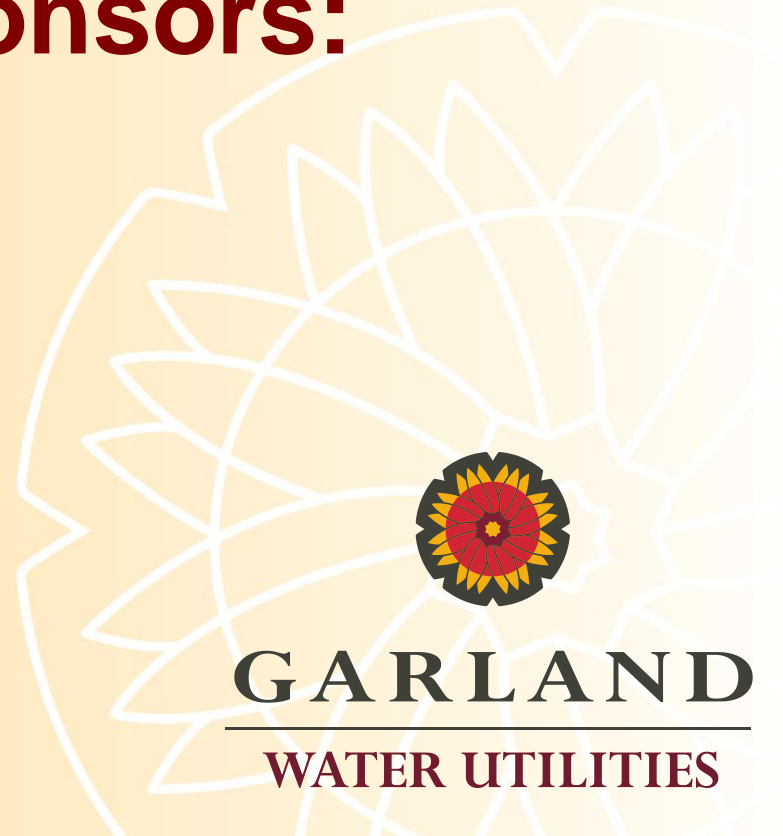
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