

Brushy Creek Municipal Utility District

TOWN HALL

April 1, 2021

Meeting



Meeting Called to Order

Michael Tucker, Vice President,
Board of Directors



The Pledge of Allegiance

I pledge Allegiance to the flag
of the United States of America
and to the Republic for which it stands,
one nation under God, indivisible,
with Liberty and Justice for all.

Pledge to the Texas Flag

Honor the Texas flag;
I pledge allegiance to thee, Texas,
one state under God,
one and indivisible.

TOWN HALL MEETING

Agenda

- District Projects
- GFOA Budget Presentation Award
- Winter Storm Event
- COVID-19 Operations
- Events and Activities
- Solid Waste and Recycling
- Questions and Answers



District Projects

Paul Hanson
District Project Manager

Sendero Springs Building Expansion and Rental Party Room



**New Event Rental / Training Room w/ Maximum
Occupancy of 48 People**

Highland Horizon Pool Replaster



- Replastered with Quartz Plaster
- Widened ADA Ramp
- New Main Drain Covers



Creekside Pool Deck Replacement & Renovation



- Pool originally built in 1978
- 2020
 - Replastered Pool
- 2021
 - Re-plumbing Pool
 - Re-wiring Pool adding LED Pool Lighting as well as additional area lighting
 - Replacing Deck with Salt Finish Concrete

Community Center Turnaround



Additional parking and turnaround

Additional Projects in the District

- The Woods Lift Station Improvements
- Zebra Mussel Abatement
- Cat Hollow Park Parking Lot Resurface
- Revitalization of The Community Center Demonstration Garden
- Southern Cross Pond Trail



**GFOA Budget
Presentation Award**

Bianca Redmon, CFO

GFOA Budget Award

- Purpose of the Budget Award
- Criteria for Achieving Budget Award
- Strategic Plan Development



Purpose of Budget Award

- Government Finance Officers Association (GFOA)
- Distinguished Budget Presentation Award



Criteria for Achieving Budget Award

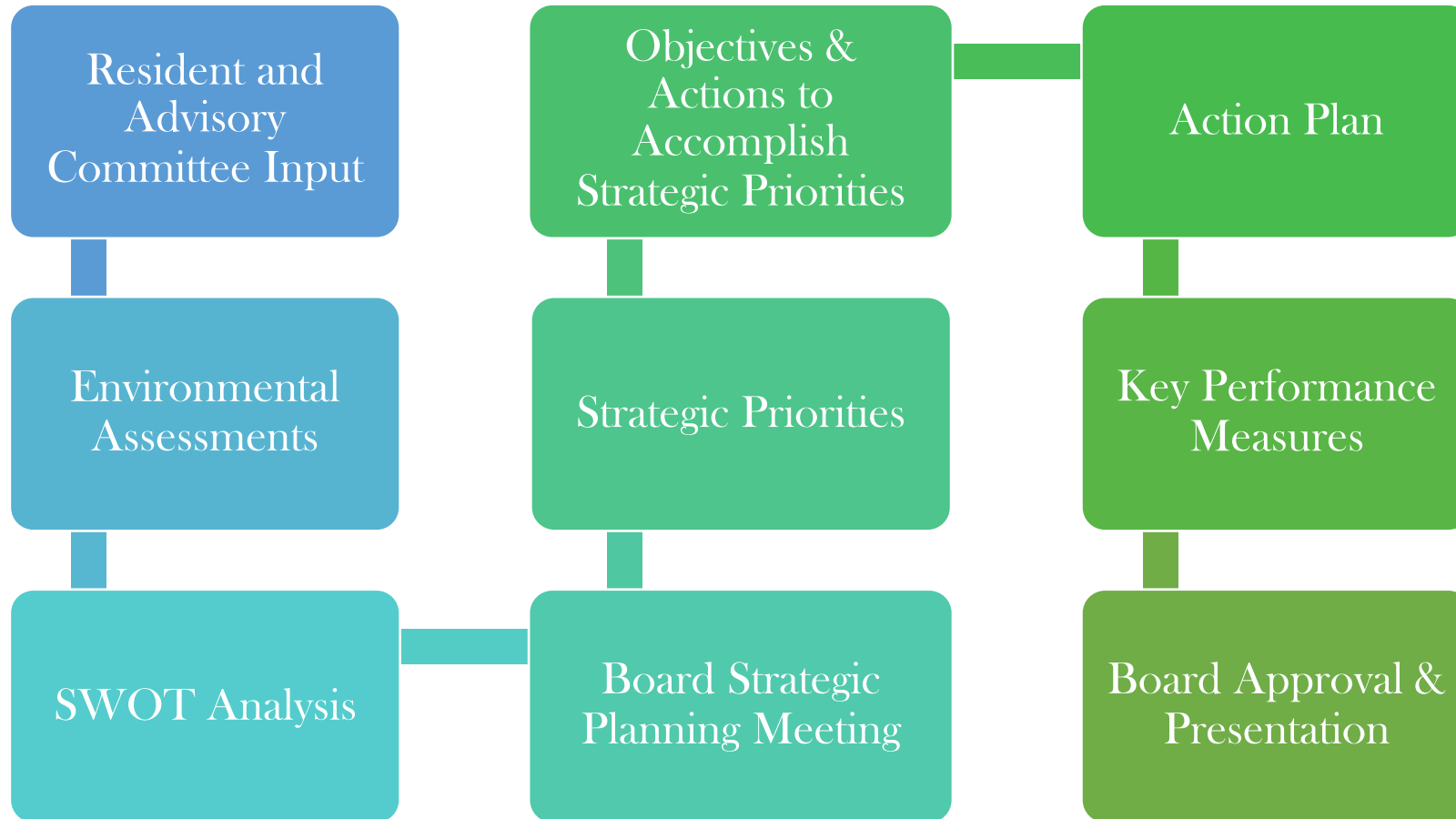


CRITERIA DESCRIPTION	FY 2021	FY 2022	FY 2023
Table Of Contents	★	★	★
Basis Of Budgeting	★	★	★
Consolidated Financial Schedule	★	★	★
Department/Fund Relationship	★	★	★
Departmental/Program Descriptions	★	★	★
Charts & Graphs	•	★	★
Three-year Consolidated & Fund Financial Schedules	•	★	★
Fund Balance	•	★	★
Position Summary Schedule	•	★	★
Strategic Goals & Strategies	•	★	★
Priorities & Issues	•	★	★
Financial Policies	•	★	★
Budget Process	•	★	★
Departmental/Program Goals & Objectives	•	★	★
Budget Overview	•	•	★
Statistical/Supplemental Section	•	•	★
Understandability & Usability	•	•	★
Fund Descriptions & Fund Structure	•	•	★
Revenues	•	•	★
Capital Program	•	•	★
Debt	•	•	★
Organization Chart		★	★
Performance Measures		★	★
Glossary			★
Long-range Operating Financial Plans			★

★ GFOA Budget Criteria Met

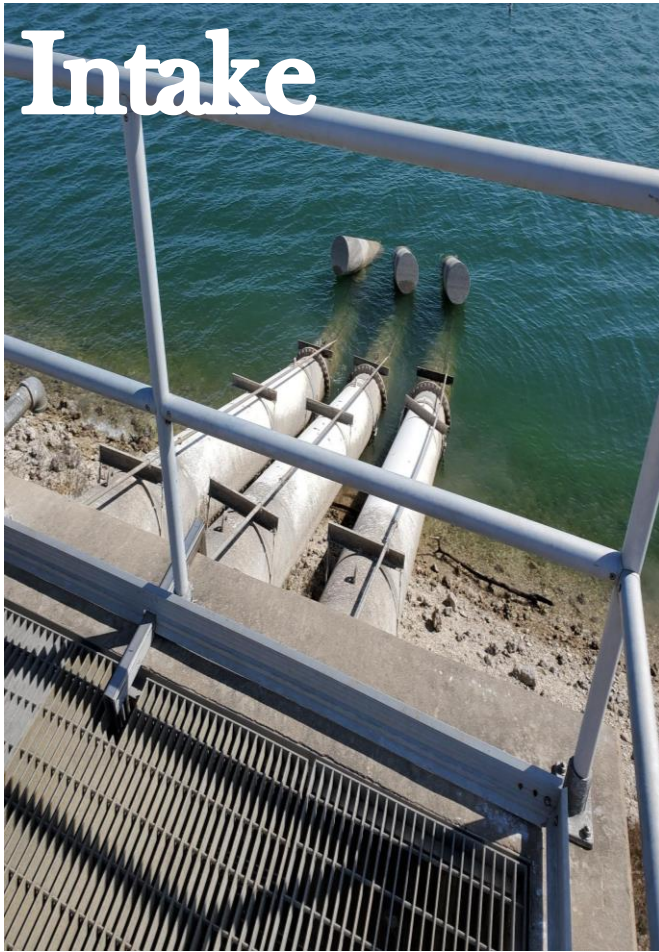
• Needs further development

Strategic Plan Development



Winter Storm Event

**Bill Carr, Water Facility
Supervisor**



Raw Water

- Lake Georgetown
 - Equipped with 3 pumps
 - Pumping capability 10 mgd
 - No emergency power because of size of raw water pond at facility
- Groundwater
 - 3 wells
 - Pumping Capability 2.5 mgd



Treatment Facility



- 8-million-gallon raw water pond

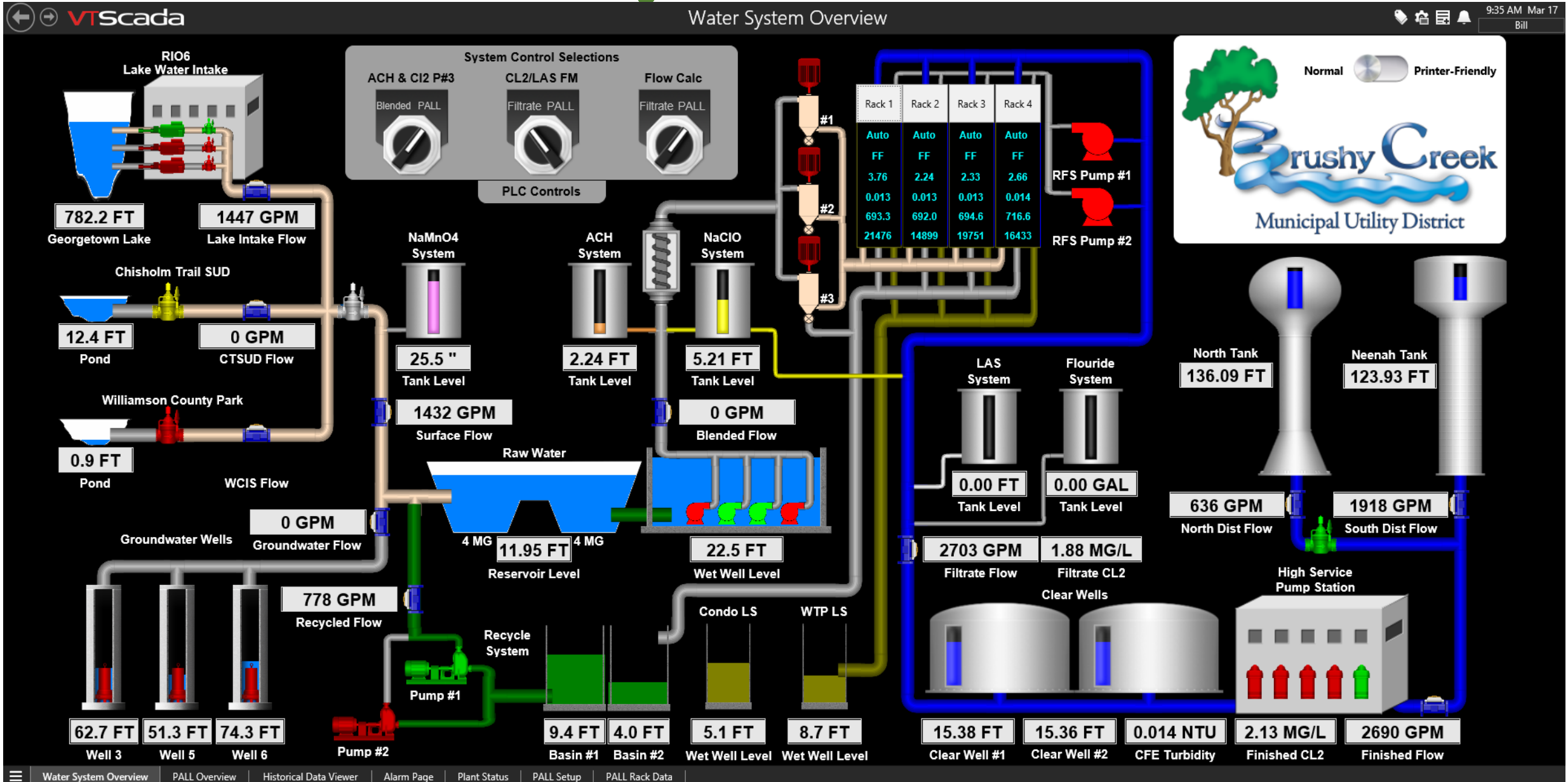
Treatment Facility

- Microfiltration treatment
 - Designed to treat 8.2 mgd



Membrane Filters

SCADA System Overview



Treatment Facility



- Daily water quality monitoring
- 2 million gallons treated water storage

Treatment Facility

- 5 High volume service pumps
 - Provides water to elevated storage



Elevated Storage

- 1.25 Million Gallon Elevated Storage



Generator and Diesel Storage



- Generator
 - 1250 kw
 - 2500 gallon diesel tank





Winter Storm Preparations



















































Winter Storm Preparation

- Insulated and heat taped all possible exposed equipment and/or piping
- Drained and shutdown all nonessential equipment
- Ordered diesel
- Met with team to discuss operational plans
- Altered automatic operational procedure

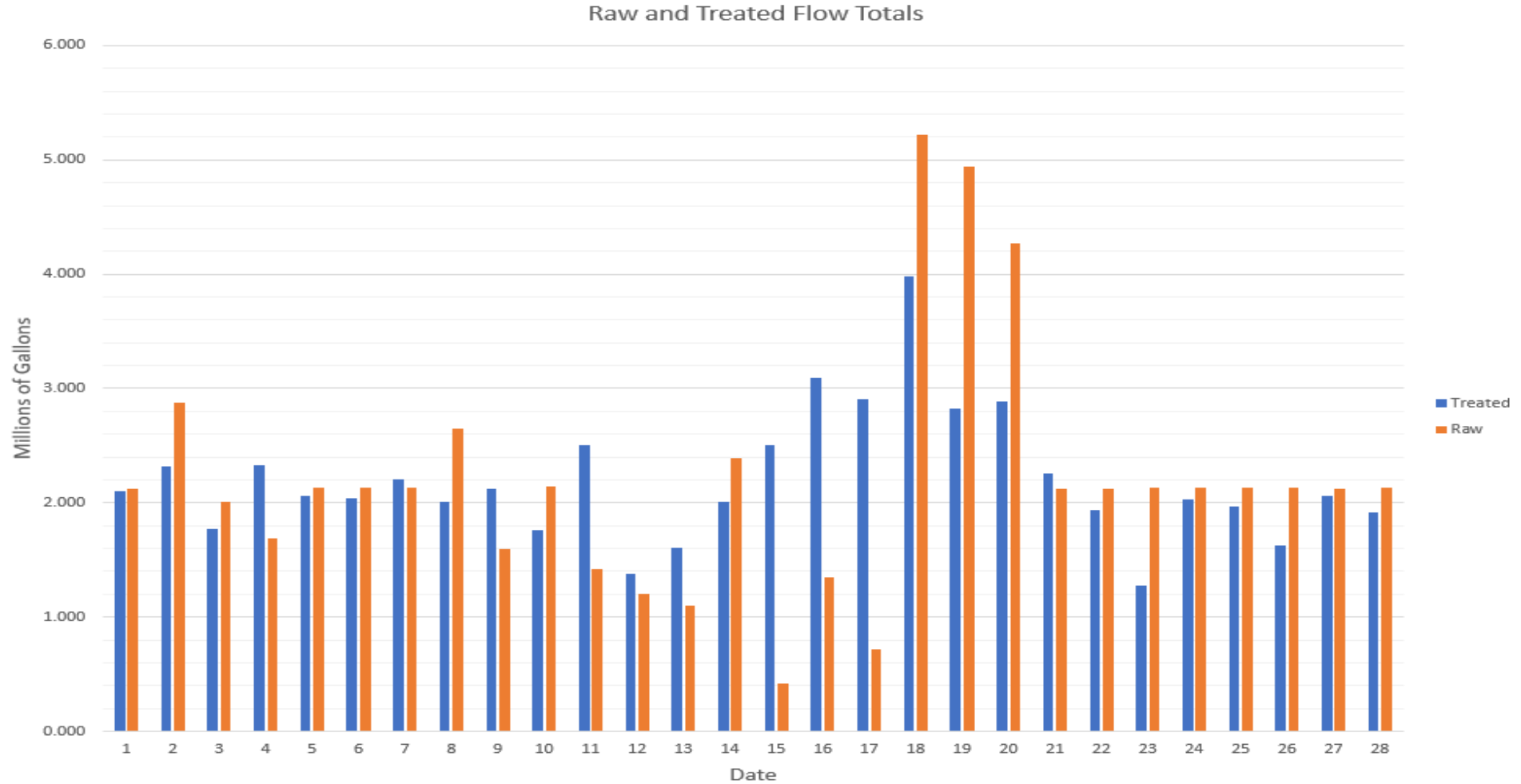


A photograph of a rural landscape during a heavy snowfall. The scene is heavily obscured by white snowflakes falling from the sky. In the background, several bare trees stand against a grey, overcast sky. A line of evergreen trees is visible to the right. In the foreground, a green field is partially covered in snow, with a wooden fence running across it. The text "Arctic Storm Events" is superimposed in the center in a bold, blue, serif font.

Arctic Storm Events

	Thurs 2/11	Fri 2/12	Sat 2/13	Sun 2/14	Mon 2/15	Tue 2/16	Wed 2/17	Thurs 2/18	Fri 2/19	Sat 2/20
Freezing Temperatures	30	28	27	14	7	4	27	25	19	27
Weather Conditions										
District Office	Open	Closed	Closed Early	Closed Early	Closed	Closed	Closed	Closed	Closed	Closed Early
Water operators	4	2	1	1	2	2	3	3	4	4
ERCOT Power										
Generator Fuel										
SCADA System Control										
Ground wells										

Raw vs. Treated Water



Raw Reservoir Level

VTScada Historical Data Viewer

12:38 PM Apr 1 Bill

Unnamed Group

4 Weeks

Tag Selection Export Time Span Pan & Zoom View Note



Pen	Name	Description	Value	Minimum	Maximum	Average	Starts	On Time
✖	IO\PLC1\AB\Raw Reservoir\LIT\Level Calc	Raw Reservoir LIT - Level		3.38 FT	13.5 FT	11 FT		

What did we learn?

- Lack of reliable power was the most challenging problem
- Solution:
 - Installation of generator for the lake water intake pump station
 - Generators at ground stations



Intake Vault Protection



Fuel

- Additional 2500 gallon fuel tank at the maintenance yard



Limited Team Resources

- Dangerous driving conditions
- Limited Team Members
- Long hours
- Solutions:
 - a. Laptops for water treatment operations
 - b. Emergency provisions
 - c. Alternate communications
 - Radios
 - An emergency personnel dedicated cellular service



Winter Storm Event

- Average of 200 to 300 alarms per day
- Over 12,000 in one day



VTScada Alarm Page

3:54 PM Mar 22

Database Alarm Actions Reports & Analysis History Filter View Sounds

History Active Unacked Current Shelved Disabled Configured

End date is 2021-02-17

Time	Event	Area	Name	Description	Value	Setpoint	Units	Workstation	Device	User
2021-02-17 18:57:41	Active	Water	IO\PALL\AB\RACK3\V-1014\Alm_Lat	Rack 3 CIP Return Bleed Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1016\Alm_Lat	Rack 3 CIP Return Filtrate Side Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1017\Alm_Lat	Rack 3 Filtrate Vent Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1018\Alm_Lat	Rack 3 Filtrate Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1022\Alm_Lat	Rack 3 CIP Supply Bleed Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1024\Alm_Lat	Rack 3 Filtrate Bleed Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1027\Alm_Lat	Rack 3 XR Bleed Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1028\Alm_Lat	Rack 3 XR Block Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1029\Alm_Lat	Rack 3 CIP Return Block Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1030\Alm_Lat	Rack 3 Feed Block Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1031\Alm_Lat	Rack 3 Feed Bleed Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1037\Alm_Lat	Rack 3 RF Bleed Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:57:36	Active	Water	IO\PALL\AB\RACK3\V-1038\Alm_Lat	Rack 3 RF Block Valve Alarm (On)	On	On		WTSCADA1		
2021-02-17 18:49:31	Event	Water	IO\PALL\AB\Filt\SP\Filt_Flow_Max	Changed from 3000 to 3500	3,500			WTSCADA1	WTP-1	Scott
2021-02-17 18:49:27	Event	Water	IO\PALL\AB\GloSP\Plant_Flow	Changed from 2800 to 3500	3,500			WTSCADA1	WTP-1	Scott
2021-02-17 18:49:06	Normal	Water	IO\PLC4\NoFluor_PALL	No Fluoride FM and PALL Flow Alarm (0)	0	1		WTSCADA1		
2021-02-17 18:48:03	Event	Water	IO\PLC2\AB\HSP1sPumpRunCmd	Changed to 1	1			WTSCADA1	WTP-1	Scott
2021-02-17 18:47:50	Event	Water	IO\PALL\AB\Filt\SP\Cleat_Lev_Resume	Changed from 8 to 12	12			WTSCADA1	WTP-1	Scott
2021-02-17 18:47:42	Event	Water	IO\PALL\AB\Filt\SP\Cleat_Lev_Pause	Changed from 9 to 19.5	19.5			WTSCADA1	WTP-1	Scott
2021-02-17 18:42:46	Acknowledge	Water	IO\PLC4\NoFluor_PALL	No Fluoride FM and PALL Flow Alarm		1		WTSCADA1	10.168.4.128	Wade
2021-02-17 18:42:25	Active	Water	IO\PLC4\NoFluor_PALL	No Fluoride FM and PALL Flow Alarm (1)	1	1		WTSCADA1		
2021-02-17 18:42:10	Normal	Water	IO\PALL\AB\Air\Comp\CompA_GenAlm	Compressor A General Alarm (On)	On	Off		WTSCADA1		
2021-02-17 18:42:10	Normal	Water	IO\PALL\AB\Air\Comp\CompB_GenAlm	Compressor B General Alarm (On)	On	Off		WTSCADA1		
2021-02-17 18:41:52	Normal	Water	IO\PLC2\AB\WTPLS\Power	Power Loss at Water Facility (Normal)	Normal	Alarm		WTSCADA1		
2021-02-17 18:41:47	Acknowledge	Water	IO\PLC2\AB\WTPLS\Power	Power Loss at Water Facility		Alarm		WTSCADA1	10.168.4.128	Wade
2021-02-17 18:41:46	Acknowledge	Water	IO\PALL\AB\Air\Comp\CompB_GenAlm	Compressor B General Alarm	Compressor B	Off		WTSCADA1	10.168.4.128	Wade
2021-02-17 18:41:46	Acknowledge	Water	IO\PALL\AB\Air\Comp\CompA_GenAlm	Compressor A General Alarm	Compressor A	Off		WTSCADA1	10.168.4.128	Wade
2021-02-17 18:41:37	Event	Water	IO\PLC3\AB\Neenah Tank\LITsSP_Level_Lo	Changed from 110 to 111	111		FT	WTSCADA1	10.168.4.128	Wade
2021-02-17 18:41:34	Event	Water	Callout Rosters\Roster - Water - Scott On-Call	SMS sent to Scott with 3 alarms				WTSCADA1		
2021-02-17 18:41:34	Normal	Water	IO\PLC3\AB\Neenah Tank\LIT\ALM_Lo	Neenah Tank LIT - Level Lo Alarm	113	110	FT	WTSCADA1		
2021-02-17 18:41:31	Event	Water	IO\PLC3\AB\Neenah Tank\LITsSP_Level_Lo	Changed from 114 to 110	110		FT	WTSCADA1	10.168.4.128	Wade
2021-02-17 18:41:25	Active	Water	IO\PALL\AB\Air\Comp\CompA_GenAlm	Compressor A General Alarm (Off)	Off	Off		WTSCADA1		
2021-02-17 18:41:25	Active	Water	IO\PALL\AB\Air\Comp\CompB_GenAlm	Compressor B General Alarm (Off)	Off	Off		WTSCADA1		
2021-02-17 18:41:22	Active	Water	IO\PLC2\AB\WTPLS\Power	Power Loss at Water Facility (Alarm)	Alarm	Alarm		WTSCADA1		
2021-02-17 18:41:19	Normal	Water	IO\PLC3\AB\Neenah Tank\LIT\ALM_LoLo	Neenah Tank LIT - Level Lo Lo Alarm	113	110	FT	WTSCADA1		
2021-02-17 18:41:15	Event	Water	IO\PLC3\AB\Neenah Tank\LITsSP_Level_LoLo	Changed from 113 to 110	110		FT	WTSCADA1	10.168.4.128	Wade

History: 12957 records [PAUSED]

Water System Overview | PALL Overview | Historical Data Viewer | Alarm Page | Plant Status | PALL Setup | PALL Rack Data

Overall Impact

- Critical infrastructure not damaged
- 1 hour and 15 minutes of water loss in elevated portions of the district
- Excellent response from District Team



A photograph of a snowy forest path. The path is covered in a thick layer of snow, with some tracks visible. The trees are bare, and the sky is blue with some clouds. The text "Boil Water Notice" is overlaid in white, bold, serif font.

Boil Water Notice

**Joey Miller, Utilities Systems
Manager**

What is a Boil Water Notice?

- A notification that advises residents to boil their tap water prior to consumption due to the potential for contamination
- A Boil Water Notice is in effect until laboratory results show water is safe

When is a Boil Water Notice issued?

- 💧 Any event where conditions at a Public Works System (PWS) are such that public health protection is compromised or potentially compromised
- 💧 Low pressure (i.e., below 20 pounds per square inch)
- 💧 Disinfectant residual levels below the required minimum
- 💧 Treatment facility issues
- 💧 Power issues
- 💧 Natural disasters

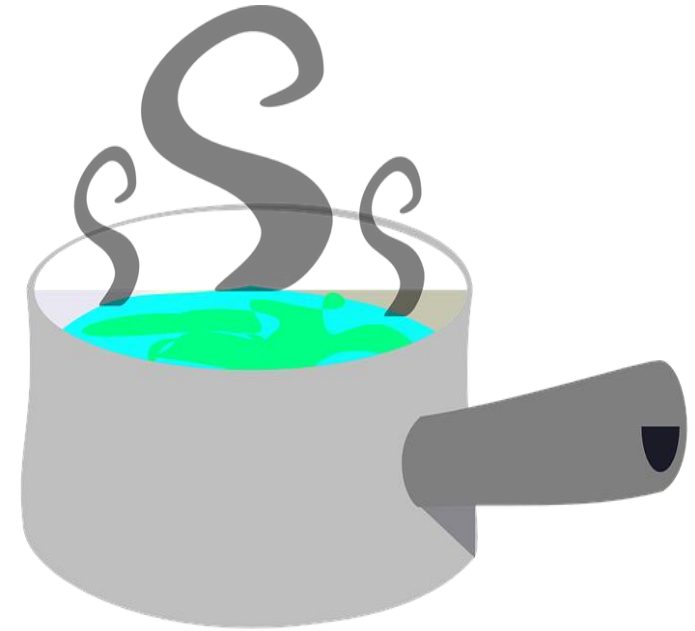
TCEQ Requirement Notification

- 💧 TCEQ rules state customers need to be notified ASAP; no later than 24 hours using mandatory language
- 💧 Issue the notice in at least one of these ways
 - 🔧 Furnish a copy of the notice to the radio and television stations that serve your area
 - 🔧 If a daily newspaper of general circulation serves the area served by your PWS, publish the notice in that newspaper
 - 🔧 If no such newspaper exists, continuously post the notice in conspicuous places within the area served by your PWS until we tell you that you may take it down

What to Do?

Boil Water Before:

- 💧 Ingesting
 - 🚰 Drinking
 - 🚰 Preparing food – adult and infant
- 💧 Washing produce
- 💧 Making ice
- 💧 Preparing drinks
- 💧 Brushing your teeth
- 💧 Giving pets water



Use purified water for young children, people with weakened immune systems and people with an open wound.

What to Do?

Boil Water Not Required

- 💧 Laundry
- 💧 Dishwasher with a sanitizing cycle
- 💧 Washing hands
- 💧 Bathing



Not for Consumption

Requirements to Lift Notice

- 💧 Sufficient water pressures (>20 psi) are consistently
- 💧 Adequate chlorine residual (free >0.2mg/L, chloramine >0.5mg/L) is maintained
- 💧 Affected area(s) have been thoroughly flushed
- 💧 Specific actions required by the TCEQ Executive Director have been met
- 💧 Microbiological samples, marked “Special” from representative sites in system, are found to be negative



Lifted Notification

- 💧 After the system is back to normal operating, the system must:
 - 🔧 Notify their customers
 - 🔧 Notify TCEQ within 24 hours of rescinding the notice
 - 🔧 Provide written paperwork to TCEQ within 10 days
- 💧 The District met TCEQ rules and regulations when issuing and rescinding the BWN
 - 🔧 Notified residents within 24 hours
 - 🔧 Used all four methods of notification
 - 🔧 Used language in the notification mandated by TCEQ



Steps to Take After BWN Is Lifted

- 💧 Flush your water line
- 💧 Sanitize faucets and aerators
- 💧 Dispose of ice cubes
- 💧 Replace Filters on faucet and water filtration systems
- 💧 Clean and sanitize appliances
- 💧 Run water softeners through a regeneration cycle

Reverse 911

**Naomi Harris,
Customer Service Supervisor**

What is Reverse 911?

Automated emergency calls that will quickly inform residents of emergency events such as:


- Boil Water Notice
- Water Outages
- Critical Events



How does Reverse 911 work?

- Customer contact through Utility Management Solution Systems (UMS)
- Testing phase
- Fully operational by June



A vibrant green field of yellow buttercups and white daisies under a bright sun. The sun is a large, glowing yellow circle in the upper right quadrant. The flowers are in various stages of bloom, with some in sharp focus and others blurred in the background. The overall scene is bright and cheerful.

COVID 19 Operations

Betsy Schultz

Parks and Recreation Manager

- Governor Abbott's Order



- District commitment to cleansing protocols

- Electrostatic spraying
- Wiping of commonly touched surfaces
- Masked Team Members

Events

Betsy Schultz

Parks and Recreation Manager

Events

- Brushy Creek Bunny Photos
 - April 2 - 2:00 - 4:00pm
- Night Out at Cat Hollow
 - May 14 - Movie in the Park
- July 4th Event
 - Car Parade
- BBQ Cook-off
 - Saturday, September 11



Solid Waste and Recycling

Shean Dalton, General Manager

TDS Representatives

Texas Disposal Systems Partnership

- At the Fall Town Hall, we introduced a new partnership with TDS:
 - Service enhancements
 - 2 Bulk Item Pickup Days per year
 - Valet service for qualified residents
 - Waste Wizard app with service reminders
 - Brushy Creek Customer Service...One Call Does It All!
- Now, we would like to introduce Rick Fraumann with TDS



Texas Disposal Systems, Inc.

Rick Fraumann, Director of Sales

Brandon Smitheal, Director of Operations

Leticia Mendoza, Director of Marketing

TDS PRESENTATION

Agenda

- TDS Background, Philosophy, and Capabilities
- Solid Waste and Recycling Services
- How the 100-Year Winter Storm Event Impacted Service
- TDS Response to the Elevated Needs in BCMUD
- Ways to Maximize Your Service at the Curb
- Ways to Connect With TDS Through BCMUD
- Ways to Improve Sustainability With TDS

TDS Background, Philosophy, and Capabilities

- TDS was started in 1977 by brothers, Bob & Jim Gregory.
- It is one of the largest privately held companies in our industry.
- TDS owns all facilities, meaning there is no need for sub-contractors.
- We have more recycling facilities on-site than all of our local competitors combined.

Solid Waste and Recycling Services

- TDS offers 96-gallon trash carts and up to six (6) items for solid waste, serviced weekly.
- We also offer 96-gallon recycle carts and up to one bundle of cardboard (folded), serviced every other week.
- Customers may also utilize our call-in bulky services option for up to 3-cubic yards of solid waste.

How the 100-year Winter Storm Event Impacted Service

- Tonnage volumes at the curb increased by approximately 60%.
- Communities of similar size increased tonnage by approximately 20%.



TDS Response to the Elevated Needs in BCMUD

- In response to the Winter Storm Event, TDS increased trucks and crews the first week, and even more the second week.
- By the 3rd week, TDS had added 67% more capacity than in the weeks leading up to the Winter Storm Event.

TDS Response to the Elevated Needs in BCMUD

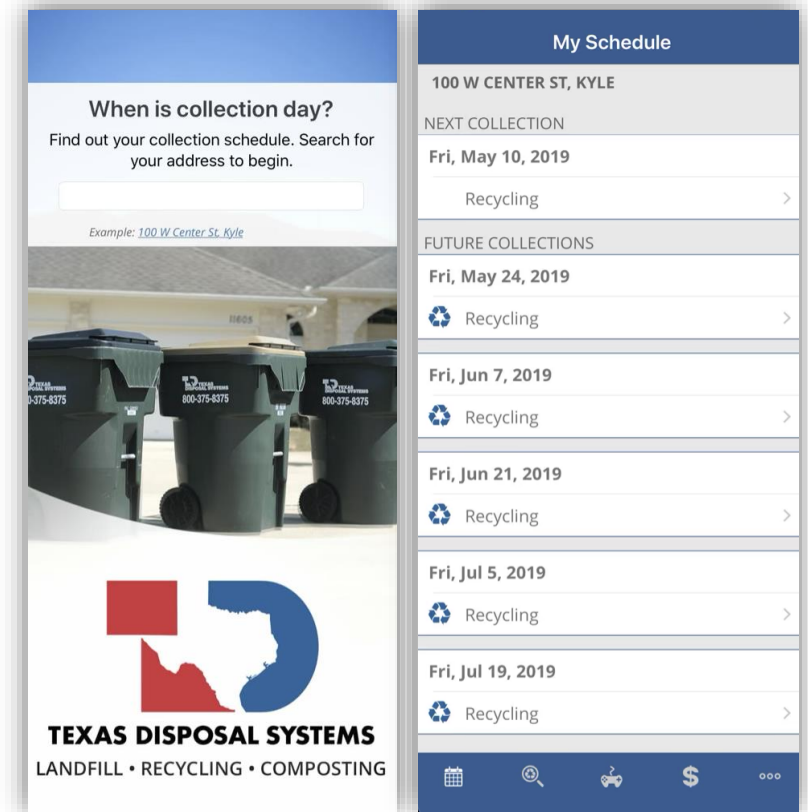
- TDS was able to complete all routes early, by drastically increasing trucks and crews last week.
- TDS has succeeded in producing the same early completion times this week.
- We plan to continue to provide this additional capacity, as needed, by BCMUD and will reevaluate as tonnages return to pre-storm levels.

Ways to Maximize Your Service at the Curb

- Do not exceed six (6) items in your cart each week.
- Bundle brush appropriately for the safety of our drivers.
- Flatten cardboard and tie bundles of cardboard to place outside the recycling cart, in order to have more than the cart capacity serviced.
- Utilize the call-in bulky pick-up services offered by TDS.

Ways to Connect With TDS Through BCMUD

- Download the free Waste Wizard app or visit the TDS table after this meeting for more information on signing up.
- Waste Wizard Provides:
 - Collection Schedule
 - Service Alert Notifications
 - What Goes Where? Tool



Available on Google Play and the App Store®.



Ways to Improve Sustainability with TDS

- Maximize single stream recycling.
 - View the TDS BCMUD video on the BCMUD website, specifically designed for BCMUD residents.
- Utilize the opportunity to receive free double ground mulch from the Georgetown Transfer Station.

Contact HR Manager, Mitzi Dahlberg at m.dahlberg@bcmud.org

Join Our Team!

NOW HIRING

Current Open Positions

Child Play
Attendant

Community
Engagement
Specialist

Customer
Service
Supervisor

Dance
Instructor

Human
Resources
Specialist

Kick Boxing
Instructor

Lifeguards

Member
Service
Representative

Recreation
Assistants

Security Guard

Sewing
Instructor

Summer Day
Camp
Counselors

Weight Room
Attendant

Questions & Answers

District Projects

GFOA Award Budget Award

Winter Storm Event

Boil Water Notice

Reverse 911

COVID -19 Operations

Events and Activities

Solid Waste and Recycling

