

METER READING AND WATER BILLS

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PURPOSE

together we create a strong foundation for Houston to thrive

5 TO THRIVE VALUES

respect ownership communication integrity teamwork

integrity teamwork

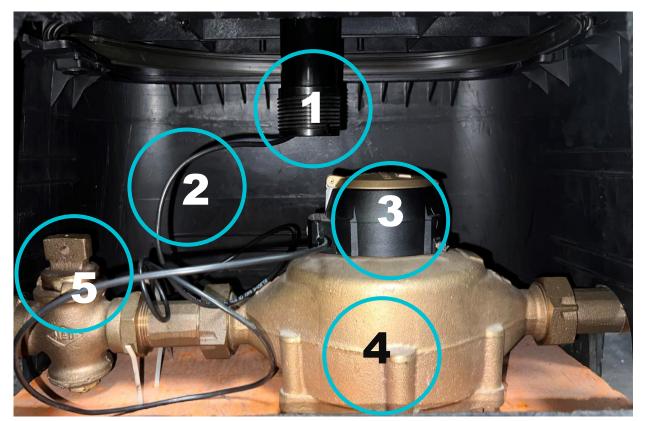


CUSTOMER ACCOUNT SERVICES

- Provide Billing & Collections services to the largest water/wastewater utility in Texas
- Read and maintain over 500,000 meters throughout the City
- Over 2 Million people served
- More than 480,000 Utility bills sent monthly



INTRODUCTION - METER AND READING DEVICE



- 1 Electronic Read Device
- 2 Connection cable
- 3 Register

- 4 Water Meter
- 5 Cut off valve

- A water meter measures the amount of water that is drawn through by the private side
- Reading devices do not measure the water usage but transmits the meter readings to radio towers
- 79% of the meters are currently read through electronic remote reading devices

METER READING PROCESS

EACH BUSINESS DAY, 22,000+ **METERS READ FOR BILLING** 44% 35% van-auto auto 11%* manual 10% Estimated

2 DATA SENT TO SERVER



3 DATA UPDATED IN BILLING SYSTEMS

Water Meter Consumption (per 1,000 gal.)		Total Amount Due	\$77.74
Current Meter Reading	200	Current Charges	\$77.93
Previous Meter Reading	196	Adjustments	\$0.00
Current Read Date	2/1/2023	Payment - Thank You	\$96.00
Previous Read Date	1/4/2023	Previous Balance	\$95.81
Billing Period		Summary of Charges	405.04

WHAT COULD IMPACT METER READING

1. DAMAGED DEVICE/CABLE (STUCK READING)

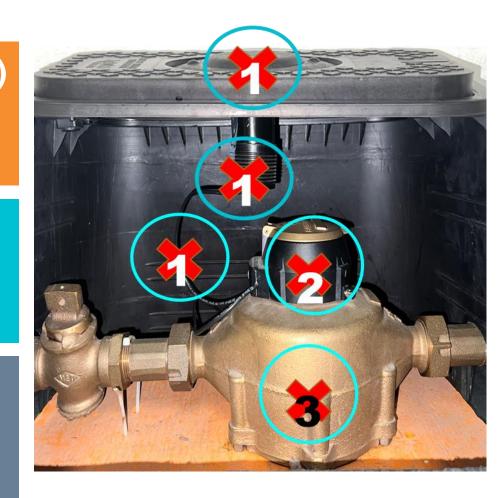
- Device replacement is required
- Manual read required for billing

2. DAMAGED REGISTER

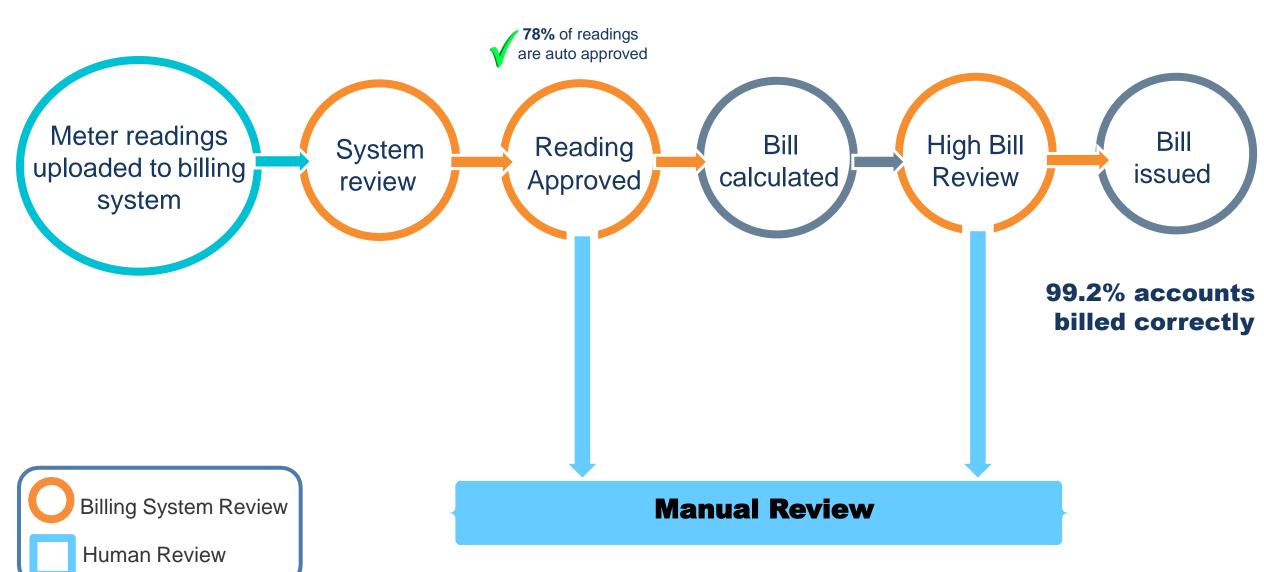
- Register Replacement is required
- Potential Estimate until replaced

3. DAMAGED METER

- Meter Replacement is required
- Potential Estimate until replaced



WATER BILL QUALITY REVIEW



0.8% INCORRECT BILLS

1. AGING INFRASTRUCTURE

Automated meter reading devices pass their 20-year life expectancy

Increased number of damaged or failed component devices

2. HUMAN PERFORMANCE

Error in visual meter reading

Incorrect account analysis

Error in installation of meter reading device components

3. METER READING ESTIMATES

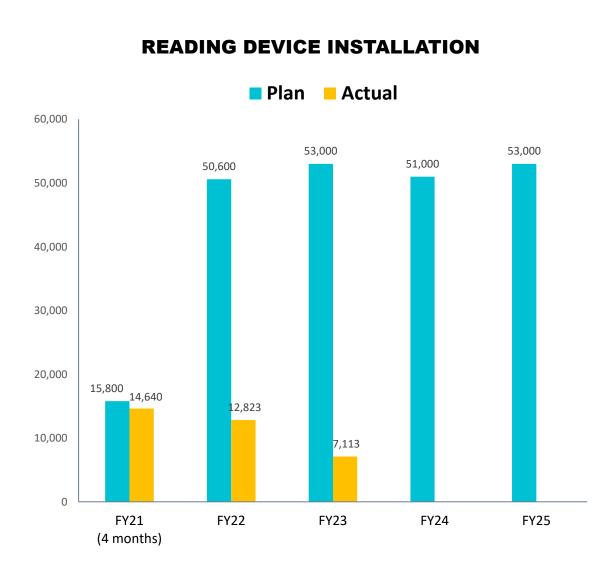
Increased demand and time constraints

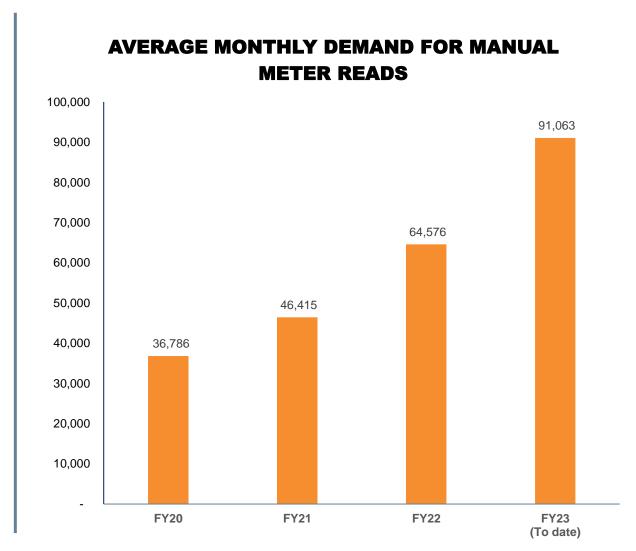
Inclement weather

Damaged components

Inaccessible or covered meters

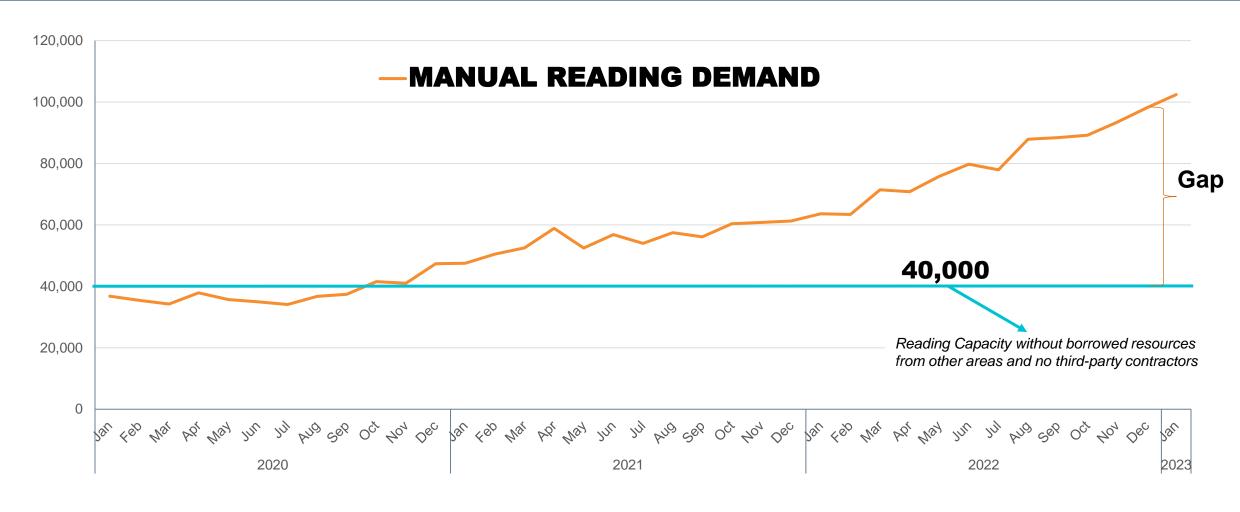
AGING READING DEVICES | REPLACEMENTS





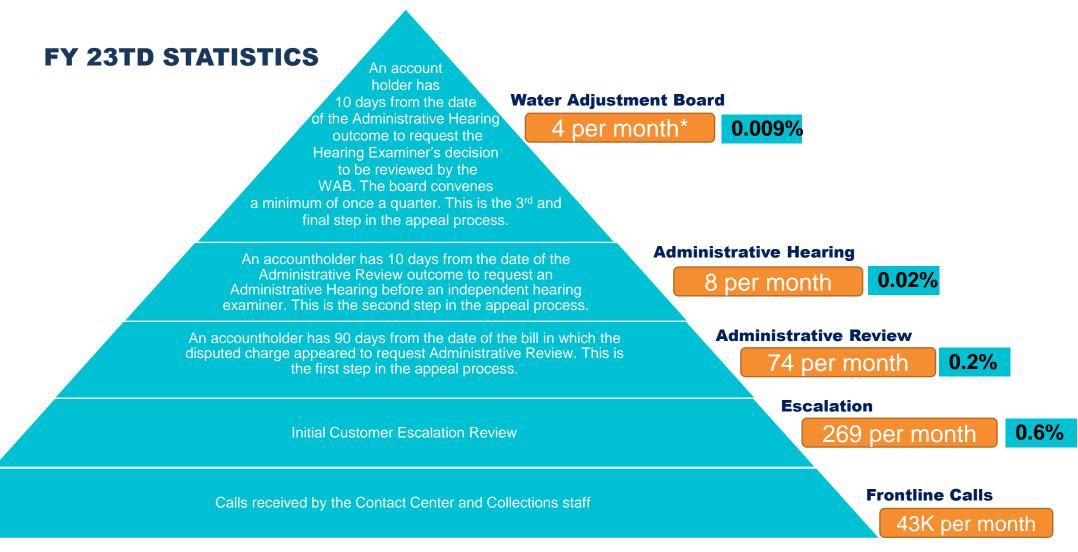
• The actual replacement plan was in place for 10 years

EFFECTS OF AGING READING DEVICES





BILL DISPUTE PROCESS* (ORDINANCE CH. 47-70.1, 47-75.2)



*monthly averages

TOP 6 CAUSES OF HIGH USAGE

CAUSE	RATE	EXTRA COST (as of 04/01/2022)
1. LEAKING TOILET	@ ½ gal per minute 21,600 gals per month (can be much higher)	\$484
2. WATERING GARDEN/GRASS	@ 5 gals per minute 1/2 hour per day 4,500 gals per month	\$89
3. PRIVATE LINE BREAK (underground)	1 Week @ 7.5 gals per minute75,600 gals per week 1 month @ 7.5 gals per minute324,000 gals per month	\$2,046 \$9,064
4. HOSE LEFT ON (one night)	@ 5 gals per minute for 9 hours 2,700 gals in one night	\$37
5. IRRIGATION SYSTEM LEAK (underground)	@ 1 gal per minute43,200 gals per month	\$1,081
6. POOL FILL	20,000 gallons (varies from 10,000 to 30,000+)	\$427

CUSTOMER SERVICE IMPROVEMENTS

1	Service Level Improvement	 Contact Center operational process improvements Reinstituted Customer "Chat" feature Realigned Call routing mechanics allowing more calls to be taken
2	Hiring and Retention	 Staffing level continue to improve with quick hiring process Adopted continuous recruitment plan (Improved retention percentage) Enhanced training for new and existing employees
3	Process Improvement	 Reduce increasing number of consecutive estimates by prioritizing Enhanced bill presentation to customers when a bill is estimated System and internal controls in place to minimize billing errors
4	Meter Reading	 Replace the obsolete Automated Meter Reading Infrastructure (AMI)* Procuring third party meter reading contract to meet rising demand

*supply chain issue

thank you!



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