## SAWS Resiliency Briefing

Steve Clouse Chief Operating Officer

Municipal Utilities Committee Meeting November 29, 2022





### Community Emergency Preparedness Recommendations

Recommendation	Status
#1	Complete
#2	Complete
#3	Complete
#4	Complete
#5	Complete
#6	Complete
#7	Complete
#8	Complete
#9	Complete
#10	Complete
#11	Complete
#12	Complete
#13	Complete
#14	Complete
#15	Complete
#16	Complete

#### All 16 recommendations have been addressed.

#### Remaining from last update: Recommendation #12

Increase the number of agents available to take calls during an emergency in lieu of automated machines. Identify critical staff to communicate with the public.

12.A Consider 3rd party live chat services that can be provided critical messaging and provide base intake tasks for customer concerns.

12.B Consider how 311 operators can be integrated with this solution.

12.C Develop a contingency plan for instances when outages disrupt local customer service. Consider 3rd party services based outside of San Antonio being activated in case of emergency.

SAWS has deployed a real-time, self-service outage map that can be utilized during emergencies. SAWS has chosen to implement automated answering systems that will be capable of handling large volumes of inquires and improved messaging through the use of AI software.

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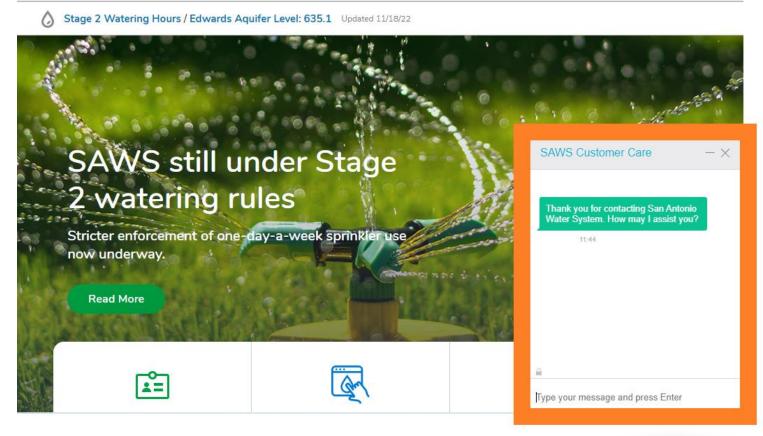
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### Enhanced Customer Service

SAWS is implementing automated answering systems that will be capable of handling large number of inquiries and improved messaging through the use of AI software.



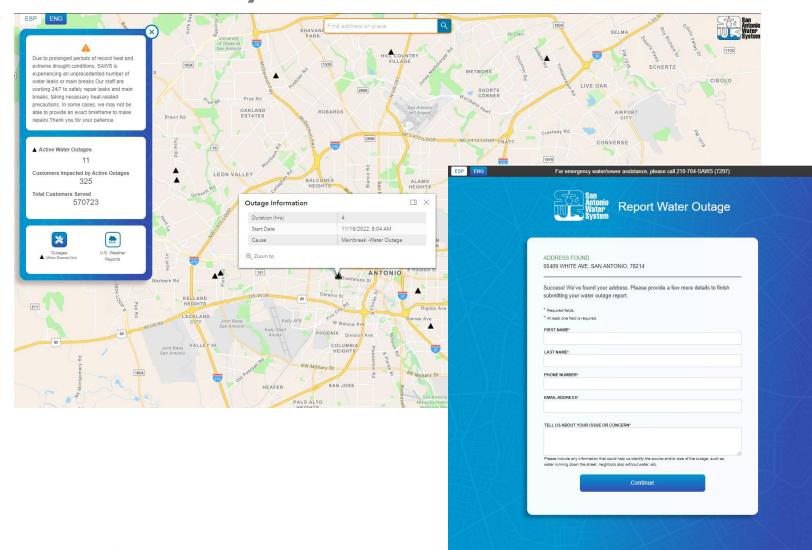


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Manual Contractor Statement

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New web-based platform for customers to get status and report water service outages.

#### https://outagemap.saws.org/OutageMap



### **CPSE and SAWS Collaboration**

SAWS and CPSE have worked together to establish specifications and site designs for natural gas generators

**SAWS** will procure and install the generators

• Anticipated total capital cost for the acquisition and installation is ~\$97M

**CPSE** will operate and maintain the generators

- Providing SAWS resiliency service electricity when there is an CPSE system outage
- Allows CPSE to operate the generators at any other time that CPSE deems beneficial

A Joint SAWS-CPSE Board meeting was held on September 21,2022 approving a tolling agreement for natural gas generators



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Wheels supported Tribulations Induction States

### Natural Gas RFP and Diesel Site Summary



- 15 Stations will use generators for distributed energy benefit
- Modular generators
- 4 Firms submitted proposals
- SAWS Board consideration for award in January, installations 2024 and 2025
- Diesel systems will begin installation after 2025

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### Bulk Water Distribution Plan



Coordination with SAPD and COSA OEM on traffic plans.

Emergency water distribution will not be necessary after generator installations.

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### System Weatherization – Potable Water Ready

- Teams identified freeze vulnerabilities and implemented preventive actions.
- Exposed assets at water facilities were securely wrapped with 7/16in.thick foam padding and 12mil black poly wrap.
- Most vulnerable, critical assets were insulated and protected with electrical heat trace tape.



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### System Weatherization – Wastewater

#### **Insulation Protection**

Treatment Plants were insulated with foam padding throughout the facilities.





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### Asset Protection Response - Wastewater

#### **Additional Protection Methods**





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# Asset Protection Response

#### Inventory





Added inventory storage sites to house additional heat protection equipment.

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### Asset Protection

Work Orders & Documentation

Created yearly preventative maintenance (PM) work orders for 54 critical sites to be initiated every fall to be prepared for the winter season.



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### **Additional Freeze Protection Steps**

#### Staff Protection



"Head to toe" improvements in warehouse inventory for field staff



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Protection measures to help navigate the city safely.

- Tire Chains
- Auxiliary Fuel Tanks
- Diesel Fuel Additives

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