



1



2

9-11

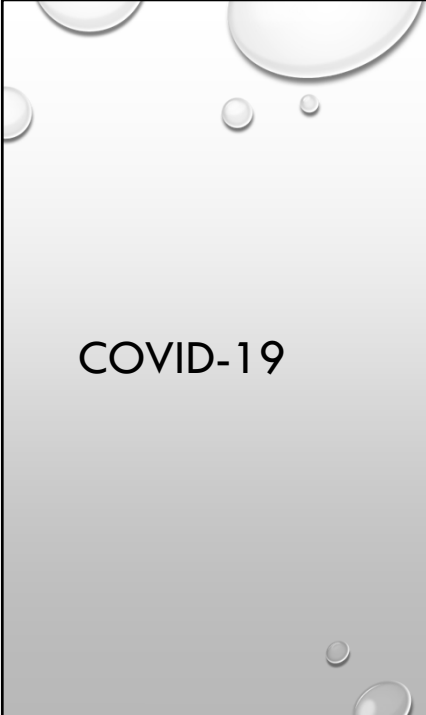
- SECURITY
- VULNERABILITY
- EMPLOYEE SAFETY

3

SUPERSTORM SANDY

- RESILIENCY
- REDUNDANCY
- EMERGENCY SYSTEMS
- COMMUNICATIONS

4



## COVID-19

- VALUE OF OUR OPERATORS
- IMPORTANCE OF TRAINING
- IMPORTANCE OF SUCCESSION PLANNING
- IMPORTANCE OF A DIGITAL CAPABILITIES AND REMOTE SYSTEMS

5



## LEGISLATIVE AND REGULATIVE CHANGES

- Safe Drinking Water Act (SDWA), 1974
- Interim Primary Drinking Water Standards, 1975
- National Primary Drinking Water Standards, 1985
- SDWA Amendments, 1986
- Surface Water Treatment Rule (SWTR), 1989
- Total Coliform Rule (TCR), 1989
- Chemical Contaminant Rules Phase I, 1989
- Lead and Copper Regulations, 1990
- Chemical Contaminant Rules Phase II, 1992
- Chemical Contaminant Rules Phase IIb, 1993
- Chemical Contaminant Rules Phase V, 1994
- SDWA Amendments, 1996
- Information Collection Rule, 1996
- Interim Enhanced SWTR, 1998
- Stage 1 – Disinfectants and Disinfection By-Products (D-DBP) Regulation, 1998
- Drinking Water Contaminant Candidate List, 1998
- Unregulated Contaminant Monitoring Regulations, 1999
- Radionuclides Rule, 2000
- Lead and Copper Rule — action levels, 2000
- Filter Backwash Recycling Rule, 2001
- Long Term 1 Enhanced SWTR, 2002
- Unregulated Contaminant Monitoring Regulations, 2002
- Drinking Water Contaminant Candidate List 2, 2005
- Long Term 2 Enhanced SWTR, 2006
- Stage 2 D-DBP Rule, 2006
- Ground Water Rule, 2006
- Aircraft Drinking Water Rule (ADWR), 2009
- Drinking Water Contaminant Candidate List 3, 2009
- Revised Total Coliform Rule (RTCR), 2013


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## LEGISLATIVE AND REGULATIVE CHANGES

- WATER QUALITY ACCOUNTABILITY
- PFAS AND PFOS
- LEAD SERVICE LINE REPLACEMENT

7



## THE WEATHER

- 2020 NJ SCIENTIFIC REPORT ON CLIMATE CHANGE KEY FINDINGS FOR WATER RESOURCES: SUPPLY AND QUALITY
  - WATER SUPPLIES WILL BE STRESSED FROM THE INCREASE IN THE GROWING SEASON AND EXTREME TEMPERATURES EXPECTED DUE TO CLIMATE CHANGE.
  - RISING SEA LEVELS MAY LEAD TO INCREASED SALTWATER INTRUSION IN NEW JERSEY AQUIFERS WHERE WELLS ARE OVER PUMPED.
  - FRESHWATER INTAKES AND AQUIFER RECHARGE AREAS MAY BE THREATENED IF SEA-LEVEL RISE PUSHES THE SALT FRONT FURTHER UPRIVER.
  - COMBINED SEWER OVERFLOW COMMUNITIES MAY BE FURTHER CHALLENGED AS SEALEVEL RISE AND/OR INCREASED RAIN EVENTS SUBMERGE DISCHARGE POINTS THAT ARE CURRENTLY ABOVE THE WATERLINE.
  - SURFACE AND GROUNDWATER QUALITY WILL BE IMPAIRED AS INCREASED NUTRIENTS AND CONTAMINANTS ENTER WATERS DUE TO RUNOFF FROM MORE INTENSE RAIN EVENTS.

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# THE WEATHER

- IT'S GETTING HOTTER
- IT'S GETTING WETTER
- IT'S GETTING DRYER
- IT'S GOING TO BE HARD ON US ALL

9



# INNOVATIONS

- AUTOMATION AND SYSTEM CONTROLS
- WORK ORDER SYSTEMS
- REMOTE ACCESS
- REMOTE CONTROL
- DIGITAL COMMUNICATIONS
- SUSTAINABILITY

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