



One Click Away from Cyber Disaster – How to Prevent Cyberattacks on Your System

Lisa Roger

June 10, 2021

Who is the Target?

Hackers have a devastating new target



Cyberattack hits world's largest meat supplier

It might be days before production resumes after an “organized cybersecurity attack” affected IT systems in North America and Australia, officials said.

Water And Wastewater Utilities At High Risk Of Cyberattack



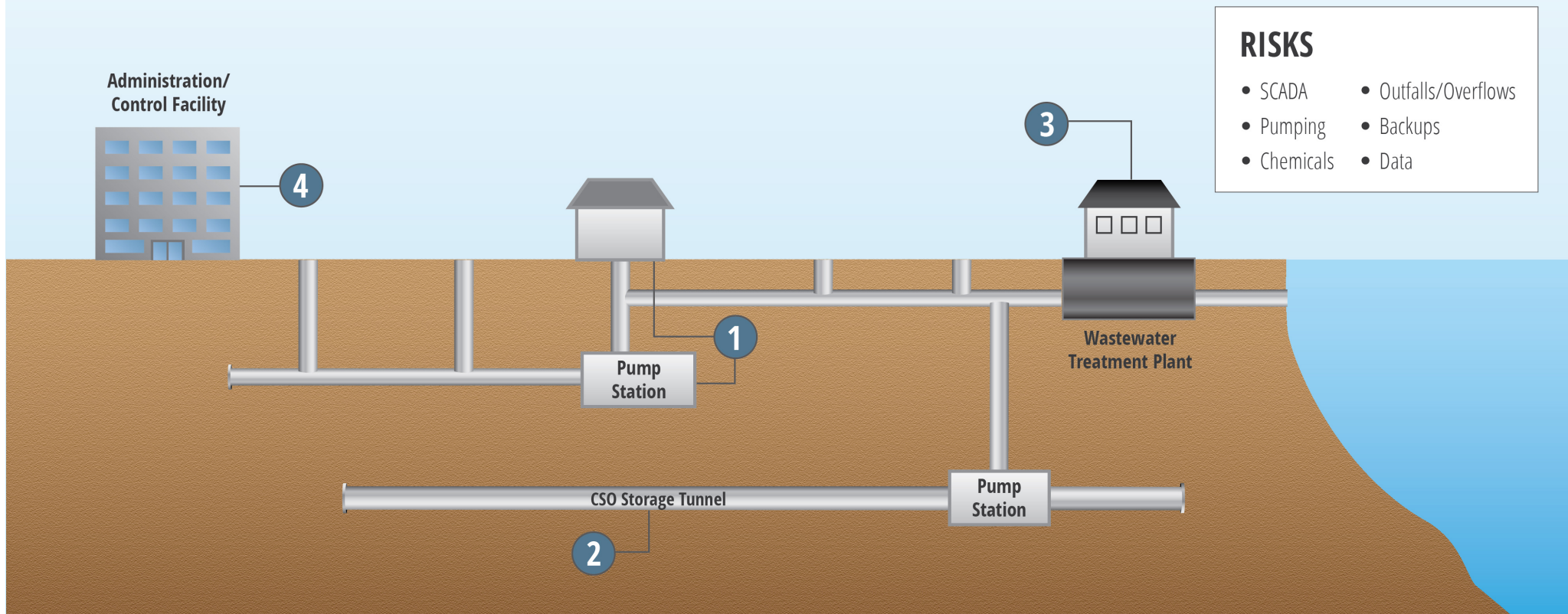
One Click Away

The 2019 report from the American Water Works Association cited cyber security as the largest threat to American critical infrastructure.

- Water is one of the 16 critical infrastructure sectors
- Colonial paid the Ransom & then got some of it back!



Risk. Bad things can happen.



Cyber Urban Legends

- We are too small to be targeted
- Insurance will always cover us
- Security is an IT problem
- We are compliant so no need to worry
- We have great cyber technology – it will warn us if something bad happens
- Cyber Attacks are complex

The National Institute of Standard and Technology (NIST)

- NIST 800-171 v2 governs over 130 controls which address your enterprise.
- **Three Core Tenants**
 - Prevent or deter attacks
 - Detect active attacks
 - Respond to minimize impact and return to a secure state
- The guidance can be daunting, and the content is often vague.

The National Institute of Standard and Technology

PREVENT



- MFA
- Pen tests
- Training
- Backups
- No generic admin passwords
- Patching
- Physical Security

DETECT



- IDPS
- Continuous monitoring
- Anti-virus

RESPOND



- Security Team
- COOP
- Insurance
- Incident Response retainers
- Reporting

May 12th, 2021, Presidential Executive Order

Five Best Practices

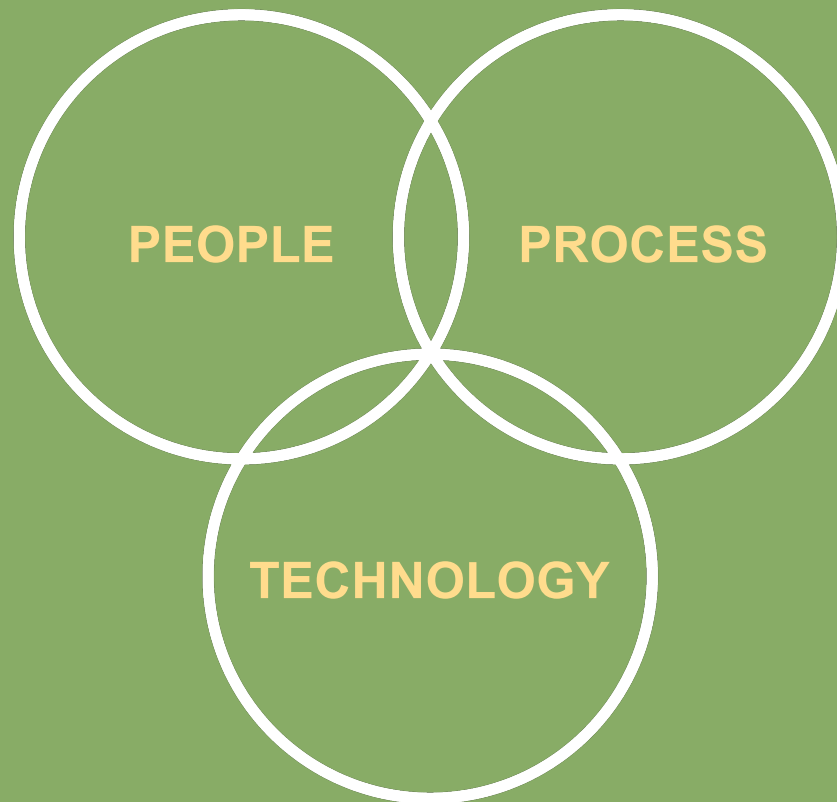
1. MFA
2. Endpoint detection and response
3. Encryption
4. Skilled Security Team
5. Empowered Security Team

Basic Hygiene:

- Backup your Data
- Update and Patch Systems
- Test your Incident Response Plan
- Pen Test
- Segment Networks



The Human Component



Personal Cyber-Hygiene



MFA and complicated password

- I love my kids
- !L0v3MyK!ds!



Validation!

- Email to phone calls
- Phone calls to call backs
- Text messages to phone calls



Gift card and Banking scams

Contact



Lisa Roger

Lroger@Dewberry.com

(703) 849-0120

<https://www.linkedin.com/in/lisa-roger-pmp-bb51014/>

Questions?

Iroger@dewberry.com