Safety topics in wastewater conveyance and treatment

**Safety in the sewage**

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Effective Utility Management Workshop

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- Senior Safety Specialist Metropolitan Council Environmental Services
  - ~500-600 employees
  - 9 treatment plants using a variety of technologies
  - 70 lift stations
  - 600 miles of interceptor piping
  - Various meters, regulators, and maintenance structures
My path to safety as a career

MCES vision for safety
Sources of information. In a pithy nutshell.

- Them’s the rules
- What other people have learned
- What our people have learned

Safety issues in wastewater

(In no particular order)
The Hierarchy of Controls

- Elimination
- Substitution
- Engineering Controls
- Administrative Controls
- PPE

OSHA Recordkeeping

- 300 Log
- 300A Summary
- 300 Incident Report
Personal Protective Equipment

Slips, trips and falls
Confined Space Entry/Fall Protection

Hazcom/Right to Know/General Chem Safety
Hot Work

Any work that produces heat or sparks
- Welding
- Torch Cutting
- Brazing
- Grinding
- Soldering

Lockout/Tagout
Hearing Conservation

Respiratory Protection
Lab Safety

Other Hazards

- Heat/Cold
- Non-ionizing radiation
- Machine Guarding
Construction Safety

- Coordination between contractor and your staff
- Silica (also general industry)
- Fall protection
- Excavation safety

How MCES works to advance safety

- Communication across all levels
  - Includes discussions with frontline staff about their preferences and suggestions for improvement as well as Business Unit management
  - Key Performance Indicators
    - SOS Reports/Recordable Incidents 72/7
  - Safety teams
  - Safety committees
  - EHS Steering team
Collaboration: sharing learning across the organization

- Helping to inform engineering safety by design
- Developing, revising or delivering training
- Helping capture institutional knowledge with JHAs, energy control logs, and SOPs (written by PXA group)
- Team work to solve problems

Questions?

Thank you!