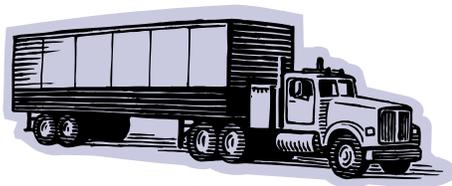


UTAH DEPARTMENT of  
ENVIRONMENTAL QUALITY  
**DRINKING  
WATER**

# Sandy City, Utah Drinking Water Contamination February 2019 Event

# Sandy City Event #1 – Fluoride Overfeed

## Hydrofluorosilicic Acid Injection – Process



### BULK DELIVERY

Shutoff Valve, Spill Containment, Backflow Preventer, Anti-siphon Device



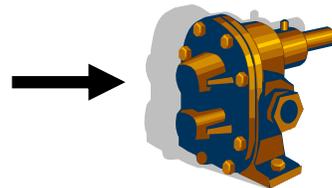
WELL OR WATER MAIN FLOW



Primary Control



**FEED PUMP**  
Shutoff Valve, Backflow Preventer, Anti-siphon Device



**TRANSFER PUMP**  
Shutoff Valve



**DAY TANK**  
Level Measurement, Scale, Spill Containment, Vent



**BULK TANK**  
Level Measurement, Vent, Spill Containment

# Sandy City 2019 Event: Feed Pump Failure Root Cause

## Lock Out Controls

- Leak Detected
- Well No Flow
- Shower Switch
- SCADA Alarm

**PUMP STARTS**

## Override Actions

- No leak detected continuous
- HOA switched to hand Dec, 2018
- Shower switch cleared after Jan 27, 2019
- Com failure cleared SCADA alarm Feb 6, 2019

# Sandy City Event #1 – Fluoride Overfeed

Figure 4-5: Fluoride concentrations and gallons used at a home on Ryan Park during event

