DNR Update
SHL Annual Laboratory Symposium
September 26, 2019
Ankeny, Iowa
Ransomware

Ransomware / IT Security

- Iowa Certified Lab (out of state lab) was hit by ransomware in 2019
- FBI received 10 reports of ransomware in Iowa in 2018
- Usually by “phishing” attacks
- Back-up your data
- Invest in firewalls & spam filters
- Invest in cyber insurance
  - Average data breach 3X cost of a fire loss
- Never pay a ransomware demand
  - Malicious files are often planted in the system to mine data

- Story on KCCI TV – 9/3/2019 search on ransomware

- https://www.kcci.com/article/fbi-10-reports-data-held-for-ransom-in-iowa-number-could-be-higher/28849767
Ransomware

• Backups are essential
• Backup – Take a look at what is being done
  o Are the application programs being backed up or just the files?
  o Are your computers/servers exactly duplicated? (mirrored)
  o Is there a physical copy of the backup (DVD) that is stored someplace?
    • Where is it stored?
    • If it is stored in the lab, what happens if there is a fire?
    • If your IT provider is providing backup services, how are they providing this service? Hard copy, server at provider’s office, the cloud?
    • Rhetorical question – Where is the cloud?
    • Is there redundancy? Perhaps more than one backup system is prudent
Misapplication of Fees

- Discovered that a discount was being provided that was not allowed by rule.

- Basic WW & 4 IOCs were selected
  \[400 + 4 \times 400\]

- OLD Maximum paid $1600
- NEW Maximum paid $2000

- New maximum effective 2/3/2020
NPDES

- 2017 MUR will be adopted in IAC Chapter 63 in 2020

- Please note the new way that CWA Standard Methods are being referenced by EPA
  - TSS SM 2540 D-2011
  - Year of approval is now referenced rather than the method
  - This will be reflected in the analyte/method list in the database
Water Supply

• Manganese Protocol
  - February 2019 EPA R7 advised DNR to require PWS to require Tier 1 PN for colored water complaints
  - Health Advisory for Mn, but no MCL for states to enforce
  - Problematic for states to address
  - DNR developed a Mn protocol
  - DNR will be sampling PWS during the sanitary survey inspection
  - 3 years – July 1, 2019 to June 30, 2022
  - Characterization of the issue across the state
  - Mn Protocol presentations/training is being presented at association & operator trainings
Water Supply

• Manganese Protocol – Key issues for Labs

  o 24-hour notification required for a contaminant which exceeds a HA per Subparagraph 567 IAC 83.6(6)a(1)
  o Memo issued by DNR LabCert 3/5/2019, Effective date 4/3/2019
  o Taste, odor, discolored drinking water complaints from private citizens
  o Refer the home owner to the appropriate DNR regional field office or county sanitarian to make sure the loop gets closed.
Water Supply

- PFAS
- Ubiquitous in consumer products & environment
- Fire fighting foam - FF Training facilities, National Guard Bases, Airports
- https://www.epa.gov/pfas

Proposed Methods
- Drinking water
  - Method 537
  - Final method will be approved under part 40 CFR part 141
- RCRA (SW-846 – Update VII, Phase II )
  - Methods 8327, 3512
  - Public comment period closed 8/23/2019

- DNR is not offering any methods for certification at this time
- Better Living Through Chemistry?
Water Supply

- Perchlorate – Proposed Rule
- Comment period closed 8/26/2019
- MCL & MCLG  56 ppb
- Alternate regulatory options for MCL & MCLG
  - 18 ppb
  - 90 ppb
  - Withdraw EPA’s 2011 determination to regulate perchlorate in drinking water

- https://www.epa.gov/dwstandardsregulations/perchlorate-drinking-water