

# IDNR Water Supply Update

2014 Laboratory Symposium

September 8, 2014

Anne Lynam IDNR Water Supply Operations Section



# Today's Agenda

- Water Use Updates
- Rulemaking
- Federal Rules
- Annual Public Drinking Water Compliance Report

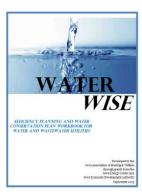
AWOP - Performance
Based Training 3:
Awarding Certificates –
Session 6, June 2014



#### Water Use Permits

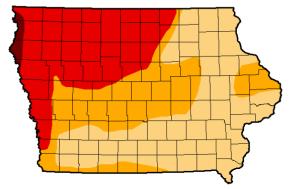


- Water Use Permit required of anyone withdrawing at least 25,000 gallons in a single day during the year
  - Many PWS have WU permits, but not everyone
  - Many non-PWS users have WU permits (recreation, industry, ag)
- The WU database is accessible via the Internet
  - Gain access to your WU permit(s) via that portal
  - Update information, provide the annual report, pay fees, etc.
- Initially, you must complete username & password
  - It's called A&A: Authorization and Authentication
  - Contact Jim, Charlotte, or Mike for more information
- ◆ Annual fee (due Dec. 1) will go to EPC in September: \$99
- A resource to develop water conservation plan: IAMU's Water Wise booklet and spreadsheet, updated Sept. 2013



## Drought Monitor: last 24 months

Dec. 25, 2012



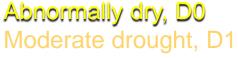
July 2, 2013





Key:

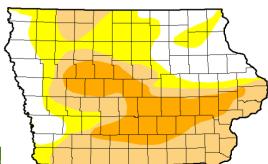




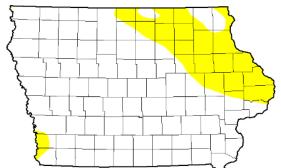
Severe drought, D2

Extreme drought, D3

Exceptional drought, D4

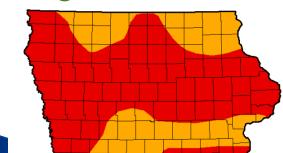


August 19, 2014









#### Iowa Rules in Process

- Public Water Supply Program Rules
  - Groundwater Rule, Lead & Copper Short-term Revisions, and many analytical methods
    - We're already implementing all of these
    - Finishing rule drafts; then technical advisory review
  - Revised Total Coliform Rule (RTCR) and additional analytical methods will be in the next package
- New Chapter 48, Geothermal Heat Exchange Borehole Rules (GHEX)
  - Minimum construction standards for GHEX boreholes





#### Iowa Rules in Process

- Water Use: Jordan Aquifer (Cambrian-Ordovician) & IAAP Des Moines & Lee Counties Protected Source
  - Direction from EPC will be sought in October regarding EO80 recommendations for the Jordan Aquifer
    - Protected source designation in parts of Linn, Johnson, and Webster Counties (means DNR must issue all well permits in delineated area)
    - ► Retain 2,000 gpm restriction on industrial and power generation
    - Change 200 ft limit on decline of groundwater piezometric head; allow more allocation where feasible
  - Iowa Army Ammunition Plant RDX Plume in parts of Des Moines & Lee Counties protected source designation
    - Will require additional well drilling protections if a well is drilled through the plume, to protect the underlying aquifer

### Sampling Reminder

- Check your permit to know when to sample!
  - TTHM & HAA5:
    - ► Sampling is in a specific MONTH now (not quarter)
    - ► Follow your approved sampling plan. Use the new "DB" code: DB01, DB02, etc. (It's a zero, not an O).
  - Lead & Copper:
    - ▶ Do you need to sample before Sept 30?
    - ► Follow your approved sampling plan
    - Send in your lead certification after you've done the consumer notice
- If you don't understand your permit, call the person listed on the letter for help
- If you receive a "monitoring reminder" letter, it means we don't have the data and you need to check it out!



#### **Data Transmission**

- Sample comment field
  - Sample taken at 100 N 3<sup>rd</sup> St
  - ■100 N 3<sup>rd</sup> St
  - Set for 15 spaces
- ◆7<sup>th</sup> of the month
- ◆15<sup>th</sup> of the month compliance run

#### **SDWIS**

- Safe Drinking Water Information System
  - **1999**
  - EPA designing new database
- Nextgen
- SDWIS Prime
  - Cloud platform
  - May 2015 (ready for RTCR)
  - Now delayed 6-9 months
  - RTCR module for SDWIS

### Stage 2 MCL & OEL

- ▲14 TTHM MCL
  - LRAA
- **♦**2 HAA5 MCL

- Violations at 9 systems
  - Since 2013
- ◆16 OEL reports at 12 systems

## Long-term 2 ESWTR: Second Round

- Surface water and influenced groundwater systems will begin the second round of source water monitoring on a phased schedule, similar to the first round. Start date:
  - Schedule 1 (>100,000): April 2015
  - Schedule 2 (50,000 99,999): October 2015
  - Schedule 3 (10,000 49,999): October 2016
  - Schedule 4 (<10,000 & E. coli): October 2017</p>
  - Schedule 4 (<10,000 & Crypto): April 2019</p>
- SHL is certified for Crypto
- Letters have been sent to the Schedule 1 & 2 CWS as a budget & schedule reminder
- ♦ No EPA database (DCTS) this round



#### Revised Total Coliform Rule (RTCR)

- Final Rule published February 13, 2013
- ◆ Effective date is April 1, 2016
  - This rule affects all lowa systems
  - Eliminates the non-acute coliform bacteria MCL; still in effect until March 31, 2016
  - Replaces it with Level 1 Assessment, required whenever the former non-acute trigger is met
    - ► Trigger: 5.0% rule for large systems; 2 positives in small systems
    - Corrective action required if defect found
  - Acute MCL remains and includes PN; also requires Level 2 Assessment (more thorough evaluation)

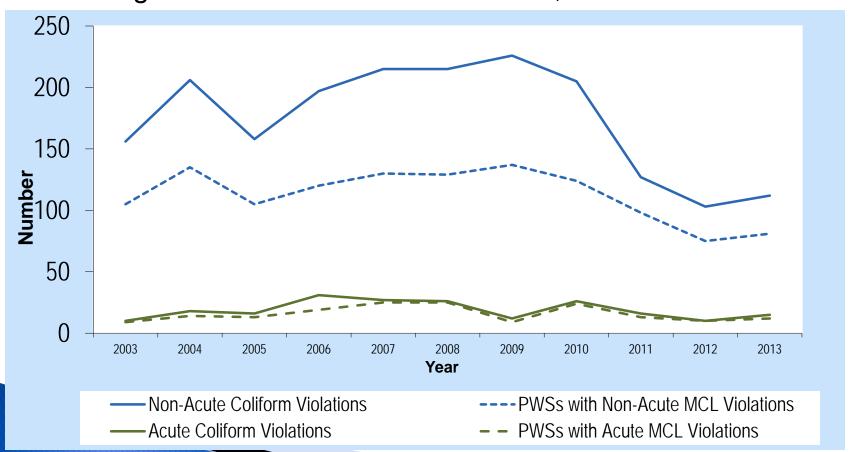
### RTCR highlights, continued

- System with more than one Level 1 Assessment in a year will also have to do a Level 2 Assessment
  - ► Likely system to do the Level 1; DNR to do the Level 2
- Several other parts to the rule
  - Routine sampling remains the same; repeat sampling is 3 samples for all systems
  - Failure to take repeats after E. coli positive is an acute MCL violation
- Seasonal systems required to have an approved start up plan & clean sample before opening
  - Seasonal defined as "depressurized" during part of the year
  - This part of the rule will require a lot of training.
  - 237 TNC in Iowa that are potentially affected



#### Iowa TCR MCL Violations: 2003-2013

- Non-acute TCR contributes the largest number of MCL violations in Iowa
- GWR helping to eliminate some problem situations
- Drought reduces TCR MCL violations; rain increases them



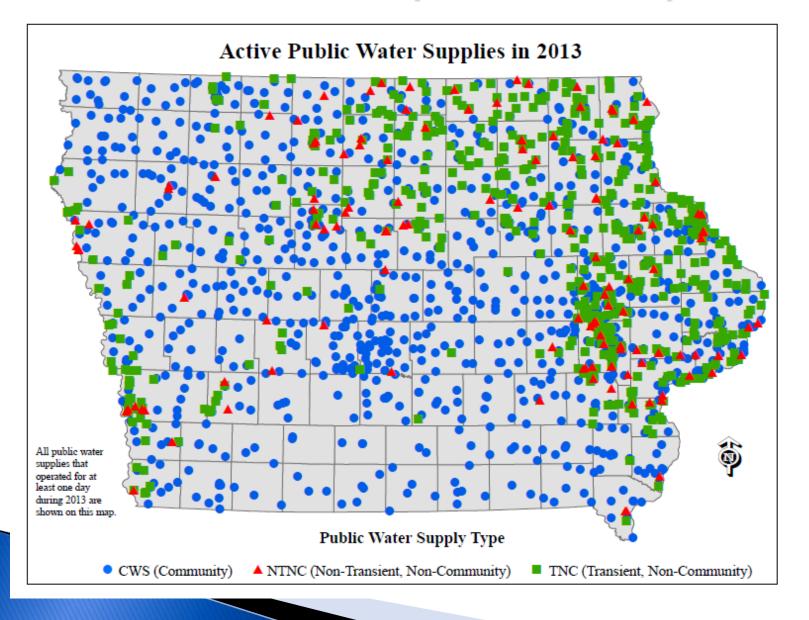
### Using Iowa 2013 violation data:

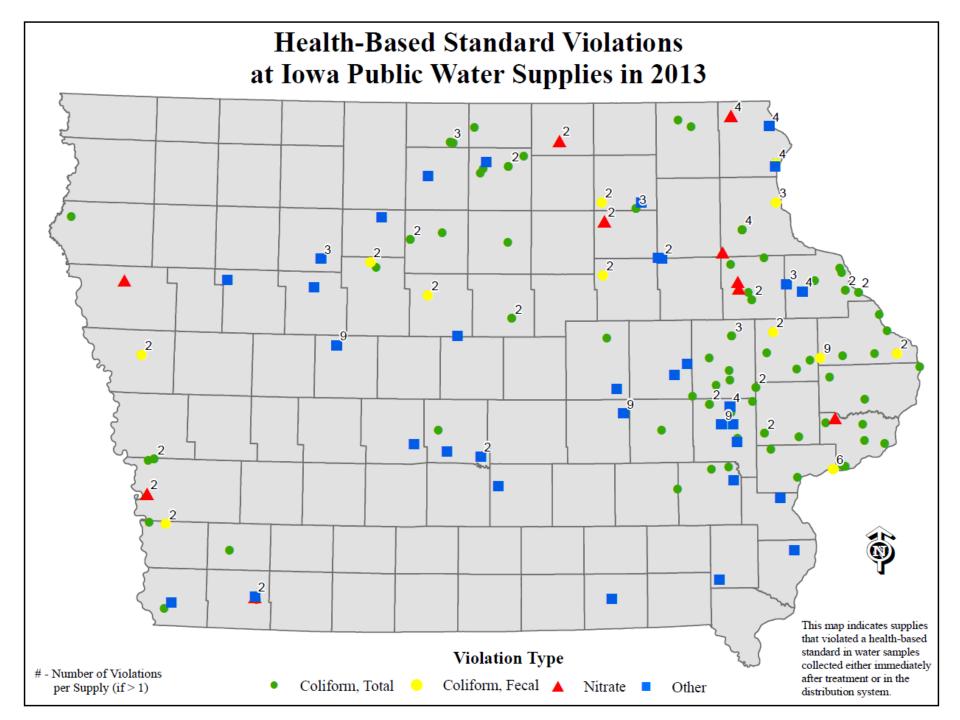
- 103 Level 1 Assessments
- ■31 Level 2 Assessments
- 112 Systems requiring at least one assessment
  - ▶ 18 are seasonal TNC
  - ▶ 1 is seasonal NTNC
- We have 237 seasonal systems under the current definition of operating season, all of which need start up plans.
  - Some are likely pressurized year-round, so those would fall off this list.
  - ▶ 230 are TNC and 7 are NTNC (all schools)

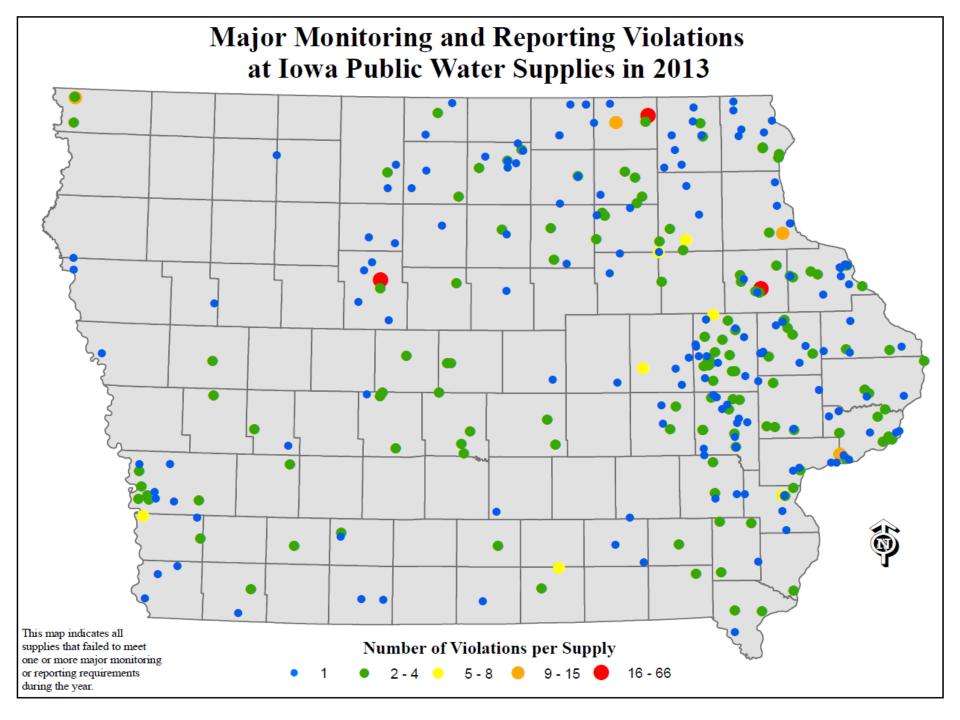
### RTCR – Maintaining Compliance

- Sample plan must be current and accurate
- Take the samples using proper technique from sample plan sites, on time
  - Sample early in period
  - Sample early in the week
  - Sample from appropriate, clean locations
  - Train your backup sampling person
- Inspect the parts of your system that could have sanitary defects and fix when needed
  - Well cap sealed, vent screened, electrical conduits sealed, storage reservoir screens intact, etc.
- More training on this rule in 2015

### 2013 Annual Compliance Report







#### What to do when you move on...

- Please leave the information for the person who follows you
  - Sampling Plans:
    - ► Bacteria Sampling Plan (all systems)
    - ► Lead & Copper Sampling Plan (CWS and NTNC)
    - ▶ Disinfectants/Disinfection Byproducts Sampling Plan (that you've just updated; only required for CWS and NTNC that use disinfected water)
  - Monthly Operation Reports:
    - ▶ On-site testing SOP
  - Operation Permit:
    - ► Current permit
    - ► Name of the laboratory you use, contact person, phone number
  - Standard Operating Procedures:
    - ► Maintaining your equipment: how to, schedules, purveyors, etc.
    - ► Flushing practices
- Notify the FO that you're moving on within 30 days

### **DNR Staff Update**

- Water Supply moved back to the Wallace Building in January
  - ■502 E. 9<sup>th</sup> St, Des Moines, Second floor north side
- Reorganization of Agency: now 2 Divisions
- Reorganization of Environmental Services Division
  - Now 4 bureaus: Air, Land, Water, and Field Services
- Iowa Geological Survey moved to the Univ. of Iowa
  - Eight DNR staff from IGS were hired at the University
  - All remaining staff were offered positions; most in Des
    - Moines; some people will retire
  - Move was completed by April 15

#### Reminder – sign up for WS Listserv

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# Questions?

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