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Division of Water Supply & Geoscience

NJWA Annual Fall Conference  
October 2017

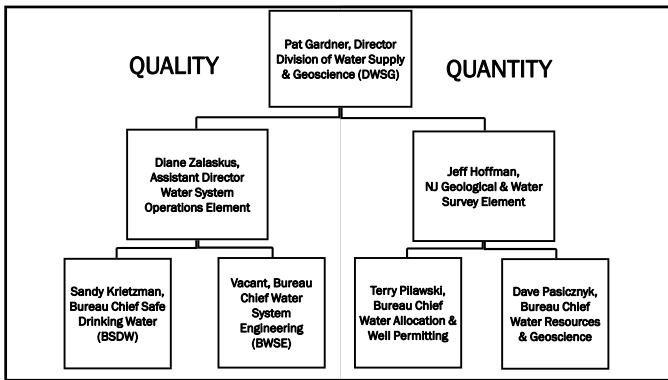
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**NOTABLE CHANGES**

- **RETIREMENTS**  
Steve Doughty  
Gale Witkowski  
Gene Callahan
- **NEW STAFF**  
Filina Poonolly  
Angela Cappetti  
Kelly Hullen  
Joe McNally  
Yoshi Nakajima  
Darlan Capellan  
Brandon Carreno
- Reorganization/Self Assessment

**NOTABLE CHANGES IN YOUR ORGANIZATION?**

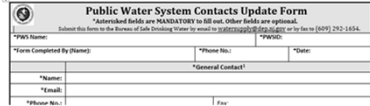


Email: [watersupply@dep.nj.gov](mailto:watersupply@dep.nj.gov)

And look for information requests in 2018!

**GENERAL CONTACT & FEE BILLING CONTACT UPDATES**

Survey Monkeys  
[www.nj.gov/dep/watersupply](http://www.nj.gov/dep/watersupply)



DWSG is relying more on email communication!

## EMERGENCY CONTACT UPDATES


**Due Today!!!**

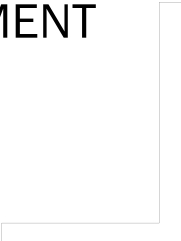
■ <https://www.surveymonkey.com/r/ERContactsUpdate2017>

## EMERGENCY CONTACT UPDATES

- ▶ **Primary:**
  - ▶ Able to make high level decisions
  - ▶ Owner, superintendent, manager or director
- ▶ **Secondary:**
  - ▶ May be the licensed operator
- ▶ **Security:**
  - ▶ Not local law enforcement
  - ▶ Primary Emergency Contact may also be listed as the Security Contact


## DWSG SELF-ASSESSMENT






## SELF-ASSESSMENT – WHY NOW?

- Tremendous focus nationwide on the water program
- Issues with staffing and resources make for challenging times
- Fresh set of eyes
- Succession planning





## PROJECT IDENTIFICATION




SUGGESTION BOX

- YOUR OPINION IS IMPORTANT

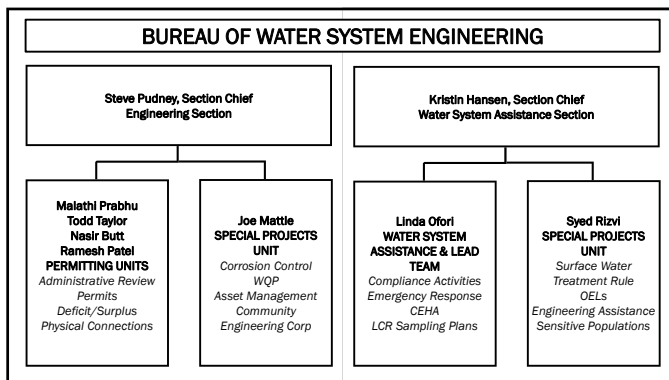
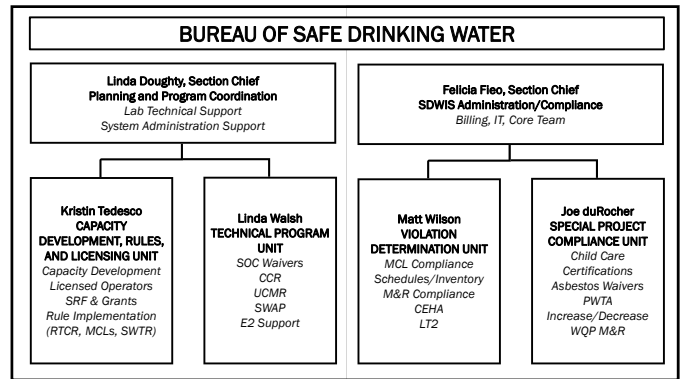




- Is there any DWSC work process to be fixed or improved?





# WHAT'S TO COME?


## ELECTRONIC MONTHLY OPERATOR REPORTS

→ STATUS UPDATE

INTERESTED?


- Join us on November 28, 2017
- 9:00 am - 12:00 pm

Contact Us At:  
[watersupply@dep.nj.gov](mailto:watersupply@dep.nj.gov)  
 Subject: eMOR Meeting



## LICENSED OPERATOR PROGRAM REASSESSMENT

- Evaluate all existing processes
  - *Memorialize internal process to create consistency*
- Identify opportunities for improvement
  - *Digital submissions*
  - *Electronic compliance tracking*
  - *Missing standard operating procedures or guidelines*
  - *Assess the need for rule updates*
- Consult with stakeholders
- Implement changes in the near and long term



## HARMFUL ALGAL BLOOMS

- UCMR4 will include monitoring for nine cyanotoxins and one cyanotoxin group and will occur between 2018-2020. A total of 111 systems will monitor for cyanotoxins under UCMR4 between 2018-2020.
- Seminars and Training have been held for surface water systems and more are being planned.
- DWSG will require systems to assess their vulnerability to HABs and develop emergency action plans within their Emergency Response Plans.
- DWSG hopes to create a website for water systems that contains resources for management, prevention, communication and response.

http://www.nj.gov/dep/watersupply/g\_reg-wqaa.html

### OTHER TOPICS ON TAP FOR 2018

- Capacity Development Program Updates
- Deficit/Surplus Table Updates
- Surface Water Treatment Rule
  - CT Calculation Evaluation
- Compliance & Enforcement Coordination
- SRF Intended Use Plan

### ABOUT 120 DROPS FILL WHAT?

- A. Teaspoon
- B. Tablespoon
- C. 1 ounce glass

## LEAD AND COPPER RULE SAMPLING PLANS – WHAT YOU NEED TO KNOW

NJWA Annual Conference – October 2017  
 Kristin Hansen  
 New Jersey Department of Environmental Protection  
 Division of Water Supply & Geoscience

### LEAD TEAM – COUNTY ASSIGNMENTS

Laura Shaza Rizvi, Minnie Tangasi, Samantha Dimiglio & Danielle Fadeski	Angie Daylen Ware, Kendrick Brown, Leronda Aviles & Alaina Ungarini
Atlantic	Camden
Bergen	Cape May
Cumberland	Burlington
Essex	Gloucester
Hunterdon	Hudson
Mercer	Morris
Middlesex	Passaic
Monmouth	Salem
Ocean	Somerset
Union	Sussex
	Warren

## REGULATIONS

### Brief Overview

### LEAD IN DRINKING WATER REGULATIONS

- Federal Lead and Copper Rule (LCR)
  - Effective 1991 with Revisions in 2000 and 2007
  - NJ has adopted this by reference
  
- Board of Education (BOE)
  - July 13, 2016
  
- Department of Children and Families (DCF)
  - March 6, 2017

A crosswalk of these regulations is available on our website.

### LEAD FREE LEGISLATION

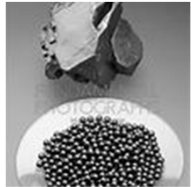
- 1986: Congress prohibited the use of pipes, solder or flux that were not lead free
  - "lead free" allowed up to 0.2% lead in solder and flux and 8% lead content of pipes and fixtures
  
- 2011: Congress passed Reduction of Lead in Drinking Water Act
  - "lead free" lowered to a weighted average of 0.25% of wetted surfaces of all plumbing products
  - Effective January 4, 2014

### WATER INFRASTRUCTURE IMPROVEMENTS FOR THE NATION (WIIN) ACT – ENACTED DEC. 16, 2016

- Requires EPA to develop a strategic plan that identifies how EPA, primacy agencies, and owners and operators of public water systems will provide targeted outreach, education, technical assistance, and risk communication to populations affected by lead in drinking water, including dissemination of information specified in Section 1414(c)(5)(C).
- EPA developed a final strategic plan that establishes procedures for ensuring that communities are provided with:
  - An explanation of potential adverse effects on human health of drinking water that contains a high levels of lead;
  - The steps that the public water system is taking to lower the concentration of lead; and
  - The possible need for home owners to seek an another water source until the lead level can be lowered.
- The notification is not intended for samples collected under the LCR but is required when EPA develops or receives certain data from a source other than a state or public water system, indicating that the drinking water of a household exceeds the action level.

### ACCORDING TO WIKIPEDIA, WHEN WAS LEAD DISCOVERED?

- A. 1986
- B. 1776
- C. 700 B.C.
- D. 7000 B.C.
- E. 9000 B.C.



## LEAD & COPPER RULE (LCR) SAMPLING PLANS

40 CFR 141.80 et. seq.

### SAMPLING PLANS

- Lead and Copper
- Water Quality Parameter

### SAMPLING PLAN GUIDANCE

- *Lead web site with pages for Water Systems, Schools, and the General Public*
- *Lead & Copper and Water Quality Parameter Sampling Plan Guidance and Templates for water systems*
- *Topic specific Factsheets*

### SAMPLING PLAN TIMELINE

- October 2015 requested all large water systems submit their WQP Sampling Plans.
- July 2016 requested all large water system submit their PbCu Sampling Plans.
- August 2016 letter sent to all community and nontransient noncommunity water systems outlining next steps.
- All large water systems were placed back on standard lead and copper monitoring.

### SAMPLING PLAN TIMELINE

- November 2016 requested all small and medium systems with CCT and previous action level exceedance submit their PbCu and WQP Sampling Plans.
- January 2017 requested all small and medium systems with CCT and no previous action level exceedance submit their PbCu and WQP Sampling Plans.
- July 2017 requested all NTNCWS schools with CCT to submit their PbCu and WQP Sampling Plans.
- Requesting sampling plans as necessary (e.g. action level exceedance).
- Currently 544 systems have been required to submit PbCu and WQP Sampling Plans.
- Next set will be receiving a letter in November 2017.

### FAILURE TO SUBMIT

- Systems and licensed operators failing to submit were referred to Enforcement.
- Enforcement issued NOVs and penalties.
- Systems placed back on standard lead and copper monitoring.
- Systems failing to respond to sampling plan deficiency letters are issued NONCS from Bureau of Water System Engineering.
- Failure to respond to NONC systems and Licensed Operators will be referred to Enforcement for enforcement actions including penalties.

### LEAD AND COPPER SAMPLING PLANS

Required for all Community & Non-Transient Non-Community Water Systems

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• General Water System Information</li> <li>• Distribution Map</li> <li>• Materials Evaluation</li> <li>• Designation of Sample Sites</li> <li>• Monitoring Schedule</li> <li>• Sampling Protocols</li> <li>• Sample Invalidation Procedures</li> </ul> | <ul style="list-style-type: none"> <li>• Action Plans                             <ul style="list-style-type: none"> <li>• Individual results greater than action level</li> <li>• 90% greater than action level</li> </ul> </li> <li>• Monitoring &amp; Reporting violation</li> <li>• Lead Consumer Notice</li> </ul> |
|--|---|

## MATERIALS EVALUATION

Build your LCR Sampling Plan on a Strong Foundation

### MATERIALS EVALUATION 40 CFR 141.86(A)

- One of the most important parts of your PbCu Sampling Plan.
- If you have not already evaluated your existing distribution system, you should start now.
- **Objective:** Identify a pool of targeted sampling sites that meet the tier criteria for lead and copper sampling.
- The water system must identify if the following categories of piping and plumbing materials are present in the distribution system:
  - Lead from piping, solder, caulking, interior lining of distribution mains and home plumbing
  - Copper from piping, service lines and home plumbing
  - Galvanized piping, service lines, and home plumbing
  - Ferrous piping material such as cast iron and steel

### MATERIALS EVALUATION

- Evaluate the entire distribution system.
- Do not just evaluate your existing sites.
  - Need to determine if there are other sites meeting the Tier requirements.
- Include the total number of Tier 1, Tier 2 and Tier 3 sites in your entire distribution system.
  - If you have a sufficient number of the highest Tier you can just include that number for now and outline a plan moving forward.
- Do you know where the lead service lines are?
  - Have a plan moving forward?
  - Start now!

### MATERIALS EVALUATION

- CWS not required to physically inspect the inside of each site, can be based on records.
- Conducting a survey.
  - Send to everyone.
- Only need BWSE 14 and 15 forms for your last sampling event.
- NTNCWS required to identify all outlets used for human consumption and identify their Tiers if different.
- NTNCWS sample taps used for human consumption first. Other taps can be used for alternates but need to make sure primary sites are consumption taps if possible.

### # SAMPLES

Population Served*	Minimum Number of Standard Sites	Minimum Number of Reduced Sites	Minimum Number of Sites in Sampling Pool
> 100,000	100	50	150
10,001 – 100,000	60	30	90
3,301 – 10,000	40	20	60
501 – 3,300	20	10	30
101 – 500	10	5	20
≤ 100	5	5	10

\*Population served only accounts for residential and non-transient population

### SAMPLING TIERS (CWS)

Tier Level	Criteria
<b>Tier 1</b>	Single-Family Structures: <ul style="list-style-type: none"> <li>• Served by a lead service line; and/or</li> <li>• Containing copper pipes w/ lead solder installed after 1982<sup>1</sup></li> <li>• and/or Containing lead pipes.</li> </ul>
<b>Tier 2</b>	Buildings, including multi-family residences: <ul style="list-style-type: none"> <li>• Served by a lead service line; and/or</li> <li>• Containing copper pipes with lead solder installed after 1982<sup>1</sup></li> <li>• and/or Containing lead pipes.</li> </ul>
<b>Tier 3</b>	Single family structures that contain copper pipes with lead solder installed before 1983.
<b>Non-Tier</b>	Structures with other plumbing materials.

<sup>1</sup>Though the effective date for the lead ban in NJ was 1987, there is still a possibility of lead solder being used in construction after this date.

### SAMPLING TIERS (NTNC)

Tier Level	Criteria
<b>Tier 1</b>	Buildings: <ul style="list-style-type: none"> <li>• Served by a lead service line; and/or</li> <li>• Contain copper pipes with lead solder installed after 1982 or contain lead pipes.</li> </ul>
<b>Tier 2</b>	Buildings that contain copper pipes with lead solder installed before 1983
<b>Non-Tier</b>	Structures with other plumbing materials

### SAMPLE SITE TIER CATEGORY

Sample Category	Description	Tier Level	
		CWS	NTNC
i	Single family residence with lead service line	1	NA
ii	Single family residence with lead solder copper piping constructed after 1982*	1	NA
iii	Single family residence with lead plumbing	1	NA
iv	Multi-family residence with lead service line	2	NA
v	Multi-family residence with lead solder copper piping constructed after 1982*	2	NA
vi	Multi-family residence with lead plumbing	2	NA
vii	Single family home with lead solder copper piping constructed before 1983	3	NA
viii	Single family home that does not meet Tier 1, 2, or 3 criteria	Other	NA
ix	Multi-family home that does not meet Tier 1, 2, or 3 criteria	Other	NA
x	Non-residential building with lead service line	2	1
xi	Non-residential building with lead solder copper piping constructed after 1982*	2	1
xii	Non-residential building with lead plumbing	2	1
xiii	Non-residential building with lead solder copper piping constructed before 1983	Other	2
xiv	Non-residential building that does not meet Tier 1, 2, or 3 criteria	Other	Other

- ### SAMPLING REQUIREMENTS
- Sample sites may not be throughout the distribution system.
  - Site selection is based solely on the Tiers/plumbing materials.
  - Sampling is conducted at the consumer's tap
  - Samples are "First Draw"
    - Must ensure water has sat undisturbed for at least 6 hours
    - But-Samples should not be taken from a location not in use for a significant period of time
  - Samples may not be taken from taps that have treatment devices designed to remove inorganic contaminants
  - Only kitchen and bathroom taps shall be sampled from residential buildings
  - Only taps typically used for human consumption shall be sampled from non-residential buildings

- ### SAMPLE SITES
- Sampling pool must be sufficiently large.
  - Alternate sites are required.
  - BWSE 56 - required any time a system changes one or more sites from one monitoring period to the next.
  - Sample site change only permitted:
    - Possible changes in construction
    - Customers no longer agree to participate
    - As a result of developing the sampling plan (identify higher Tiers are available)

### LEAD AND COPPER SAMPLING PLAN

#### SAMPLING INSTRUCTIONS

**7.b Sampling Instructions**  
(Sampling instructions/Laboratory sampling procedures are enclosed in Appendix D)

Indicate who collects the lead and copper samples at this system

Customer/Resident

Licensed Operator/System Personnel

The Licensed Operator/System Personnel is notified of the designated sampling site locations by: \_\_\_\_\_

The system ensures the Licensed Operator/System Personnel is adhering to these sampling sites and the 6-hour minimum stagnation time by: \_\_\_\_\_

Certified Lab (NTNCWS only)

Lab Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Laboratory is notified of the designated sampling site locations by: \_\_\_\_\_

The system ensures the laboratory is adhering to these sampling sites and the 6-hour minimum stagnation time by: \_\_\_\_\_

- ### SAMPLE INSTRUCTIONS
- EPA Memorandum
    - Do not recommend cleaning or removal of aerators
    - Minimum standing time of 6 hours; do not recommend pre-stagnation flushing
    - Wide mouth bottles
  - Cold water taps only
    - CWS kitchen or bathroom
    - NTNCWS taps used for human consumption
  - Draft instructions available on our website at:  
<http://www.nj.gov/dep/watersupply/doc/lead-copper-sampling.docx>

### SAMPLE INVALIDATION

**8. Sample Invalidation Procedures**  
Contact information of the responsible person to determine if request should be made to NJDEP

Name \_\_\_\_\_ Email \_\_\_\_\_  
 Title \_\_\_\_\_ Phone \_\_\_\_\_

Criteria for invalidating a sample

- The laboratory establishes that improper sample analysis caused erroneous results
- The NJDEP determines that the sample was taken from a site that did not meet the site selection criteria
- The sample container was damaged in transit
- There is substantial reason to believe that the sample was subject to tampering

Procedure for Contacting the NJDEP

Call the Bureau of Safe Drinking Water (609)292-5550

Email [wateramp@dep.nj.gov](mailto:wateramp@dep.nj.gov)

Protocol for collecting replacement sample

- We will take the replacement sample as soon as possible but no longer than 20 days after the date the NJDEP invalidates the sample or by the end of the monitoring period, whichever occurs later.
- The replacement sample will be taken at the same location as the invalidated sample or if not possible, at an approved alternate site that was not already sampled for in the monitoring period.
- We will report the results of all replacement samples to the NJDEP via E2 for calculating the 90<sup>th</sup> percentile.
- Sampling procedures outlined above in 6b will be followed.



### DISTRIBUTION MAP

**3. Distribution Map**  
 For Non-transient Noncommunity water systems, a detailed sketch may be included in lieu of a map.

Clearly identify the following water system components identified on the Distribution Map in Appendix A:

Required:	If applicable:
<ul style="list-style-type: none"> <li>EPTDS (permanent and emergency)</li> <li>Standard PBCU Sampling Sites</li> <li>Alternate PBCU Sampling Sites</li> <li>Delineation of Pressure Zones</li> <li># of Pressure Zones: _____</li> <li>All taps used for consumption/food preparation (NTNC water systems only)</li> </ul>	<ul style="list-style-type: none"> <li>Reduced PBCU Sampling Sites</li> <li>Booster Stations</li> <li>Storage Tanks</li> <li>Lead Service Lines (or delineation of area served by lead service lines)</li> <li>Delineation of areas receiving CCT</li> <li>Delineation of areas receiving no/different CCT from seasonal EPTDS</li> <li>Blow offs/flushing points</li> </ul>

## ACTION PLANS

### ALE & M&R

### REQUIREMENTS IF THERE IS AN ACTION LEVEL EXCEEDANCE (ALE)


- Notification to NJDEP and bulk purchasers
- Return to standard lead and copper monitoring
- Corrosion control treatment steps
- Conduct water quality parameter monitoring
- Source water monitoring and treatment steps
- Public education (for Lead ALE only)
- Lead service line replacement

### LEAD SERVICE LINE REPLACEMENT

- Develop a LSL Inventory now.
- Include lead goosenecks and lead-lined service lines in your inventory.
- ALE = must replace 7% annually beginning the 1<sup>st</sup> day following the monitoring period in which the ALE occurred.
- SRF funding is available – for more information contact Bureau of Safe Drinking Water.

### TRUE OR FALSE?

The first Monopoly Game was based on Philadelphia?



## WQP SAMPLING PLAN

## WATER QUALITY PARAMETER MONITORING

- **Initial:** Determine what CCT will be effective
- **Follow-up:** Verify that the CCT is operating as expected and determine operational levels
- **Optimal:** Ongoing assessment that CCT is operating correctly

Sampling can be conducted by a NJ certified laboratory or an Approved Person

## WQP SAMPLING

- Must sample from all active EPTDS and interconnections with CCT.
- Sample from designated number of sites within the distribution system based on population.
- REMEMBER: if a system has TPs with and without CCT they will need to have both initial and follow-up WQP Sampling Plans.

## WQP SAMPLE SITES

- Justification of site selection needs to be clear.
- Need to represent entire distribution system.
- Can not be too close to the entry points to the distribution system: treatment plants and interconnections.

System (Pop.)	# of Sites (Routine)	# of Samples	Reduced # Sites
> 100,000	25	50	10
10,001 to 100,000	10	20	7
3,301 to 10,000	3	6	3
501 to 3,300	2	4	2
101 to 500	1	2	1
< 100	1	2	1

## INITIAL WQP MONITORING - WQP PARAMETERS & FREQUENCY

Point of Entry	Distribution Taps
----------------	-------------------

- Twice within 6 months from the beginning of the monitoring period in which the system exceeds the AL
  - pH
  - Alkalinity
  - Calcium
  - Conductivity
  - Temperature
  - Additional Analytes for CCTR:
    - Iron
    - Manganese
    - Aluminum
    - Chloride
    - Sulfate
- Required # of distribution taps is based on population - 40 CFR 141.82(a)(2)
  - Twice within 6 months from the beginning of the monitoring period in which the system exceeds the AL
    - pH
    - Alkalinity
    - Calcium
    - Conductivity
    - Temperature
    - Additional Analytes for CCTR:
      - Iron
      - Manganese
      - Aluminum
      - Chloride
      - Sulfate

## FOLLOW UP WQP MONITORING - WQP PARAMETERS & FREQUENCY

Point of Entry	Distribution Taps
----------------	-------------------


- Every 14 Days
  - pH
  - Alkalinity (if adjusted)
  - Calcium (if adjusted)
  - Orthophosphate (if adjusted)
  - Silica (if adjusted)
- Required # of distribution taps is based on population - 40 CFR 141.82(a)(2)
  - 2 sets of samples collected on different days (should account for seasonal variability) within each 6 month monitoring period
    - pH
    - Alkalinity
    - Calcium (if adjusted)
    - Orthophosphate (if adjusted)
    - Silica (if adjusted)

## OPTIMAL WQP MONITORING - WQP PARAMETERS & FREQUENCY

Point of Entry	Distribution Taps
----------------	-------------------


- Every 14 Days
  - pH
  - Alkalinity (if adjusted)
  - Calcium (if adjusted)
  - Orthophosphate (if adjusted)
  - Silica (if adjusted)
- Required # of distribution taps is based on population - 40 CFR 141.82(a)(2)
  - Standard: Twice within 6 months monitoring period
  - Reduced # of sites twice within each 6 month monitoring period
  - Reduced # of sites twice within Annual or Triennial period
  - The analytes:
    - pH
    - Alkalinity (if adjusted)
    - Calcium (if adjusted)
    - Orthophosphate (if adjusted)
    - Silica (if adjusted)

## SINGLE EXCURSION – WHEN ON OPTIMAL




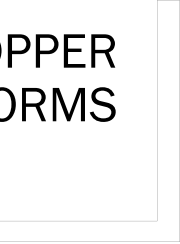
- Only for systems on Optimal Monitoring.
- Incurred when any daily value for a parameter is below the minimum value set by NJDEP.
- Action Plan
  - *The system must:*
    - Outline steps to confirm, inspect, and adjust treatment units as necessary.
    - Collect WQPs IMMEDIATELY following an excursion.

## TREATMENT TECHNIQUE VIOLATION




- Only for systems on Optimal WQP Monitoring.
- Incurred when excursions occur on more than nine days within a 6 month monitoring period.
- Action Plan
  - *The system must:*
    - Report the violation to the NJDEP within 48 hours of determining the noncompliance.
    - Deliver a Tier 2 public notification to the customers within 30 days.
    - Submit copy of the Tier 2 Public Notice and a Public Notice Certification Form to the NJDEP within 10 days of completing the public notice.
    - Include a discussion of the violation in the system's CCR (if applicable)
    - Provide NJDEP with a report outlining the source of the Treatment Technique and steps taken toward remediation.
    - RETURN to standard WQP monitoring and Lead and Copper tap monitoring (every 6 months at the standard # of sites)

## LEAD AND COPPER FORMS





## LEAD AND COPPER FORMS



<p><b>Community Water System</b></p> <ul style="list-style-type: none"> <li>■ Lead and Copper Sampling Pool Certification BWSE - 14</li> <li>■ Lead and Copper Sample Site Certification BWSE - 15</li> <li>■ PbCu Sample Location Spreadsheet BWSE - 18</li> </ul>	<p><b>Non-Transient Non-Community Water System</b></p> <ul style="list-style-type: none"> <li>■ Materials Evaluation Survey BWSE - 17</li> <li>■ Lead and Copper Sample Site Certification BWSE - 15</li> <li>■ PbCu Sample Location Spreadsheet BWSE - 18</li> </ul>
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## LEAD AND COPPER FORMS - ADDITIONAL



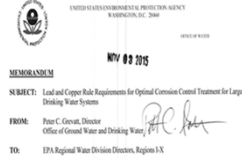
- Change in Sample Site Location between monitoring periods.
- Noncompliance Monitoring
- Suspension of Lead and Copper Sampling
- Lead Consumer Notice Certification
- PE Certification Form
- Installation of CCT
- Optimal WQP Recommendation
- Coming Soon: CCT Recommendation

## MOVING FORWARD




## CHANGES IN SOURCE AND TREATMENT

"Due to the unique characteristics of each PWS it is critical that public water systems, in conjunction with their primacy agencies and, if necessary, outside technical consultants, evaluate and address potential impacts resulting from treatment and/or source water changes."



## CHANGES IN SOURCE AND TREATMENT

- CCT Recommendation due following any action level exceedance or proposed treatment/source change that may affect water corrosivity.
- EPA: Optimal Corrosion Control Treatment Evaluation Technical Recommendations for Primacy Agencies and Public Water Systems  
<https://www.epa.gov/dwreginfo/optimal-corrosion-control-treatment-evaluation-technical-recommendations>
- CCT Recommendations and setting of WQP minimums (Optimal) have been transferred to Engineering under Bureau of Water System Engineering.

## NEXT STEPS & LESSONS LEARNED

- Continuing to review sampling plans
- Systems may be placed back on standard lead and copper monitoring
- No systems being placed on Triennial monitoring at this time.
- Compliance will be run on all requirements.
  - Violations will be issued
- Continuing to develop guidance as needed.
- Licensed Operator issues.

## EPA LONG-TERM REVISIONS


- EPA is considering Long-Term revisions to improve public health protection by making substantive changes and to streamline the rule requirements.
- Key Principles for LCR Revisions:
  - Focus on Minimizing Exposure to Lead in Drinking Water
  - Clear and Enforceable Requirements
  - Transparency
  - Environmental Justice and Children's Health
  - Integrating Drinking Water with Cross-Media Lead Reduction Efforts

## RESOURCES - CONSUMER

- DEP:
  - <http://www.nj.gov/dep/watersupply/dwc-lead-consumer.html>
  - [http://www.nj.gov/dep/watersupply/dwc\\_systems.html](http://www.nj.gov/dep/watersupply/dwc_systems.html)
- EPA:
  - <https://www.epa.gov/lead>
- Lead Free Legislation:
  - <https://www.epa.gov/dwstandardsregulations/section-1417-safe-drinking-water-act-prohibition-use-lead-pipes-solder-and>
- NJ Certified Laboratories
  - [http://datamine2.state.nj.us/DEP\\_Opra/OpraMain/categories?category=Certified+Laboratories](http://datamine2.state.nj.us/DEP_Opra/OpraMain/categories?category=Certified+Laboratories)

## RESOURCES - SCHOOLS/CHILD CARES

- DEP:
  - <http://www.nj.gov/dep/watersupply/dwc-lead-schools.html>
  - <http://www.nj.gov/dep/watersupply/pdf/ntnc-school-crosswalk.pdf>
- BOE:
  - <http://www.state.nj.us/education/lead/>
  - [leadtesting@doe.state.nj.us](mailto:leadtesting@doe.state.nj.us)
- DCF:
  - <http://www.nj.gov/dcf/about/divisions/ol/>




### Lead Team

Bureau of Water System Engineering

Remember, when contacting the Bureau please reference the following:


- PWSID Number
- Letter Number

Division of Water Supply & Geoscience  
 Bureau of Water System Engineering  
 Mail Code 401-04Q  
 401 E. State Street - P.O. Box 420  
 Trenton, New Jersey 08625-0420  
 Tel #: (609) 292-2957 - Fax #: (609) 633-1495  
[watersupply@dep.nj.gov](mailto:watersupply@dep.nj.gov)







# REMINDERS



### DRINKING WATER WATCH


- ◆ "Water Watch" is a web application available on the Division's website used to view monitoring schedules and results.
- ◆ [www.nj.gov/dep/watersupply/waterwatch](http://www.nj.gov/dep/watersupply/waterwatch)
- ◆ "Live" information:
  - ◆ inventories
  - ◆ analytical data
  - ◆ monitoring schedules






ALL PAPER COMPLIANCE FORMS CAN BE SUBMITTED VIA EMAIL (INSTEAD OF SNAIL MAIL) TO [WATERSUPPLY@DEP.NJ.GOV](mailto:watersupply@dep.nj.gov)


**THIS INCLUDES CCRs, TU FORMS, LEAD CONSUMER NOTICE CERTIFICATION FORMS**






### NOTE!

THE WATER SUPPLY BOX IS SET WITH A ONE TIME AUTOMATIC REPLY. IF YOU ARE SENDING MULTIPLE EMAILS REQUEST A READ RECEIPT FOR EVERY EMAIL!



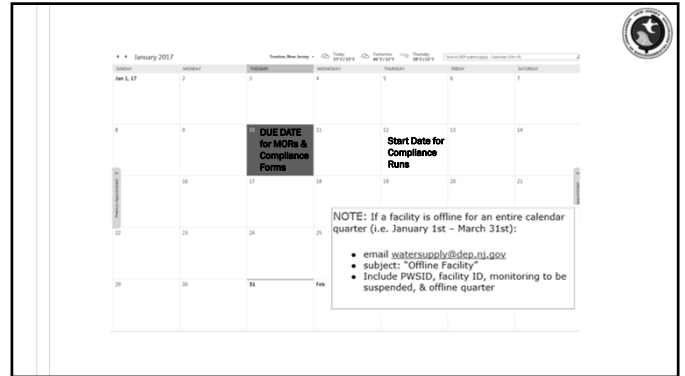


### SUBMITTAL DOS AND DON'TS

- Do send only one way (email, fax, mail, E2)
- Do note that email is most reliable  
[watersupply@dep.nj.gov](mailto:watersupply@dep.nj.gov)
- Don't cc multiple people on the email
- Do fax to 609-292-1654 number
- Do take note that E2 submittals of other information may come soon but we are not there quite yet.

### WHAT IS THE MOST EFFECTIVE METHOD OF NOTIFYING NJDEP THAT A TREATMENT PLANT IS OFFLINE?

- A. Email the water supply box [watersupply@dep.nj.gov](mailto:watersupply@dep.nj.gov)
- B. Mark the TP as offline on the Monthly Operator Report
- C. Contact the Bureau of Water System Engineering
- D. Other



### WQP COMPLIANCE

- Coming soon! Out of service facility form.
- WQP M&Rs gets SOX'd after the next round of 6-month samples (if none are missed)
- WQP monitoring periods begin (most always) 01/01/year or 07/01/year.
- Going from follow-up to optimal – the monitoring period will reset.
- Follow-up period - 06/25/17 - 07/08/17
- Optimal period starts 07/01/2017!

## REVISED TOTAL COLIFORM RULE

NJ Safe Drinking Water Act N.J.A.C. 7:10

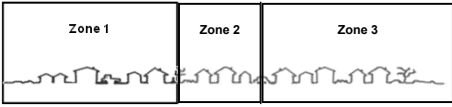
### RULE TIMELINE

- Stakeholder Meetings: Summer 2014
- Proposal published in NJR on March 20, 2017
- Public Hearing held April 10, 2017
- 60 Day Comment Period closed May 19, 2017
- Adoption anticipated in 2017

### PROPOSED AMENDMENTS

1. Seasonal water system start-up procedures
2. Required contents of assessment forms
3. Qualifications of individuals approved to conduct Level 2 assessments
4. Extension of the 24-hour time frame for collecting repeat samples

### RTCR SAMPLE SITING PLANS



Systems must collect total coliform samples at sites which are representative of water throughout the distribution system. This means all required RTCR samples cannot be collected from only one portion of your system.

### RTCR SAMPLE SITING PLANS

Systems must collect total coliform samples at regular time intervals throughout the month

Exception: ground water systems serving <4,900 persons can collect all required samples on a single day if taken from different sites.

ALSO NOTE THAT. . .

- Monitoring (Type 3A) and Reporting (Type 4B) violations will be tracked separately.

Individual Violations					
Violation Status	Analyte	Violation Type	Violation Name	Monitoring Period	Sample Point ID
Y	E. COLI	4B	REPORT SAMPLE RESULT/FAIL MONITOR RTCR	AUG2016	DS
Y	E. COLI	3A	MONITORING, ROUTINE, MINOR (RTCR)	AUG2016	DS

- Monitoring violations require Tier 3 PN

### INVESTIGATION OF SANITARY DEFECTS

- When monitoring results show vulnerability to contamination, water systems must investigate and correct sanitary defects.
  - Level 1 assessment (basic, self-assessment)
  - Level 2 assessment (detailed)
- Level of assessment is based on the severity and frequency of potential contamination
- Coming soon! Updates to NJDEP Assessment Forms.

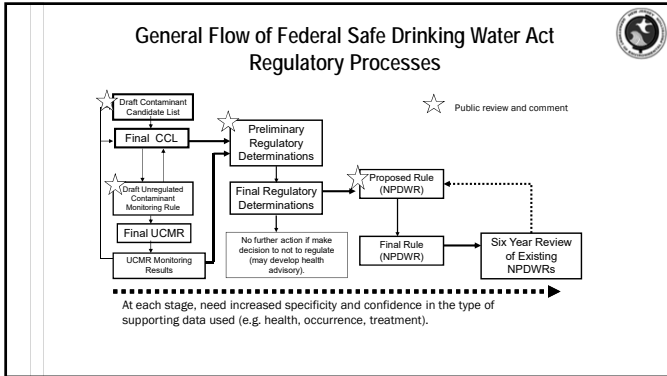
# UCMR

UNREGULATED CONTAMINANT MONITORING RULE

### UCMR: WHAT IS IT?

UNREGULATED CONTAMINANT MONITORING RULE

- U.S. Environmental Protection Agency
  - New list of up to 30 unregulated contaminants every 5 years
  - Public water systems > 10,000 must monitor
  - 800 small systems nationwide
  - Few very small systems for micro
- To provide baseline occurrence data that the USEPA can combine with toxicological research to make decisions about potential future drinking water regulations.



### UNREGULATED CONTAMINANT MONITORING RULE

- UCMR 1: 2001-2005
- UCMR 2: 2008-2010
- UCMR 3: 2013-2015
- UCMR4: 2018-2020

### PROPOSED UCMR4 ANALYTES

- 10 cyanotoxins
- 2 metals
- 8 pesticides
- 1 pesticide manufacturing by-product
- 3 brominated haloacetic acid groups
- 3 alcohols
- 3 semivolatile chemicals

<https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-rule>

### UCMR4 REMINDERS

- SDWARS (not DWW)
- Cyanotoxin Schedules
- Raw/Influent GW points
- Linda Walsh, NJDEP  
[Linda.walsh@dep.nj.gov](mailto:Linda.walsh@dep.nj.gov)
- EPA  
[UCMR4@glec.com](mailto:UCMR4@glec.com)  
[ucmr\\_sampling\\_coordinator@epa.gov](mailto:ucmr_sampling_coordinator@epa.gov)

# MCL DEVELOPMENT

NJ Safe drinking water act N.J.A.C. 7:10

### DRINKING WATER QUALITY INSTITUTE (DWQI)

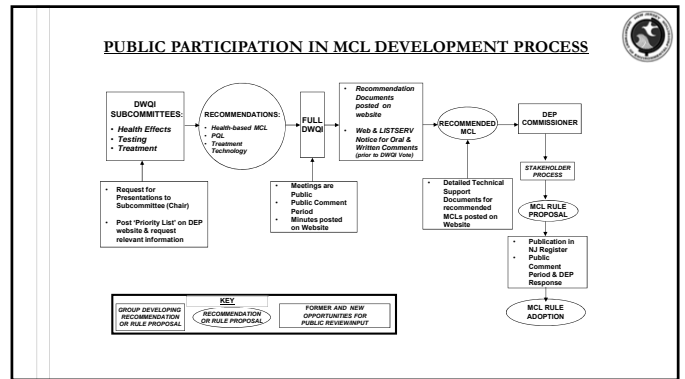
- ◆ Established under 1984 SDWA and charged with recommending MCLs
- ◆ Testing, Treatment & Health Subcommittees
- ◆ Meeting information including agendas at:  
[http://www.nj.gov/dep/watersupply/g\\_boards\\_dwqi.html](http://www.nj.gov/dep/watersupply/g_boards_dwqi.html)



## UPCOMING MEETINGS

**Tuesday**  
**November 28, 2017**  
**1:00 PM**  
**USGS NJ Water Science Center, Lawrenceville, NJ**

[http://www.nj.gov/dep/watersupply/g\\_boards\\_dwqi.html](http://www.nj.gov/dep/watersupply/g_boards_dwqi.html)



## NJ STANDARDS IN DEVELOPMENT

CONTAMINANT	STAGE IN PROCESS
PFNA 1,2,3 - TCP	Proposed August 7, 2017
PFOA	DWQI recommended MCL to DEP commissioner
PFOS	Now with DWQI subcommittees for evaluation of appropriate MCL
Chrome (VI) Chlorate Tertiary butyl alcohol 1,4 dioxane	Potential contaminants for review by DWQI

- ## PROPOSED SDWA AMENDMENTS AUGUST 7, 2017
- ◆ Testing for 1,2,3-Trichloropropane (1,2,3-TCP) Statewide
  - ◆ Testing for Ethylene Dibromide (EDB) and 1,2 Dibromo-3-Chloropropane (DBCP) Statewide
  - ◆ Testing of radiological contaminants for non-transient non-community water systems
  - ◆ Testing for Perfluorononanoic Acid (PFNA) Statewide

- ## SOC WAIVERS
- ◆ 2014-2016 Compliance Period
    - ◆ Issued and viewable on DWW
  - ◆ 2017-2019 Compliance Period
    - ◆ Letter Dated September 11, 2017
    - ◆ NJ Well Vulnerability Questionnaire for any wells not listed due 11/6/2017
    - ◆ Upcoming Screening Sampling Program starting Spring 2018

# NJ STATEWIDE WATER SUPPLY PLAN

[WWW.NJ.GOV/DEP/WATERSUPPLY/WSP.HTML](http://WWW.NJ.GOV/DEP/WATERSUPPLY/WSP.HTML)

Released October 5, 2017  
Last Updated in 1996

## INCIDENT REPORTING



- ▶ Within 6 hours to the NJDEP hotline.  
*1-877-WARN DEP (1-877-927-6337)*  
*Case Number from hotline*  
*Request immediate DEP consultation if needed.*
- ▶ Follow up call to Bureau of Water System Engineering during business hours.
- ▶ Submit supporting form(s) as soon as possible.

**[wsemergency@dep.nj.gov](mailto:wsemergency@dep.nj.gov)**

## 2017 SUMMARY



- Lead and Copper
- RTCR Implementation & Sampling Plans
- MCL Rule Proposal
- LT2 Schedule 4 Round 2
- Consumer Complaints

## Questions?



Division of Water Supply & Geoscience  
Mail Code 401-04Q  
401 E. State Street - P.O. Box 420  
Trenton, New Jersey 08625-0420  
<http://www.nj.gov/dep/watersupply/>  
[watersupply@dep.nj.gov](mailto:watersupply@dep.nj.gov)