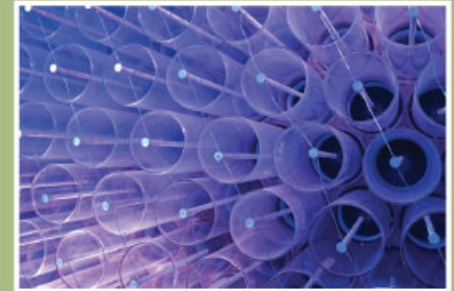
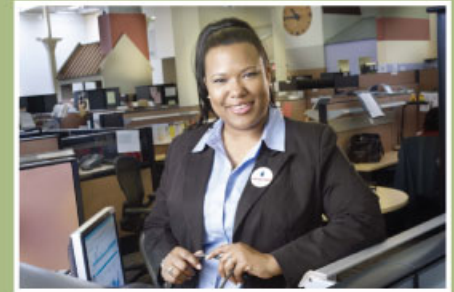




PENNSYLVANIA  
AMERICAN WATER

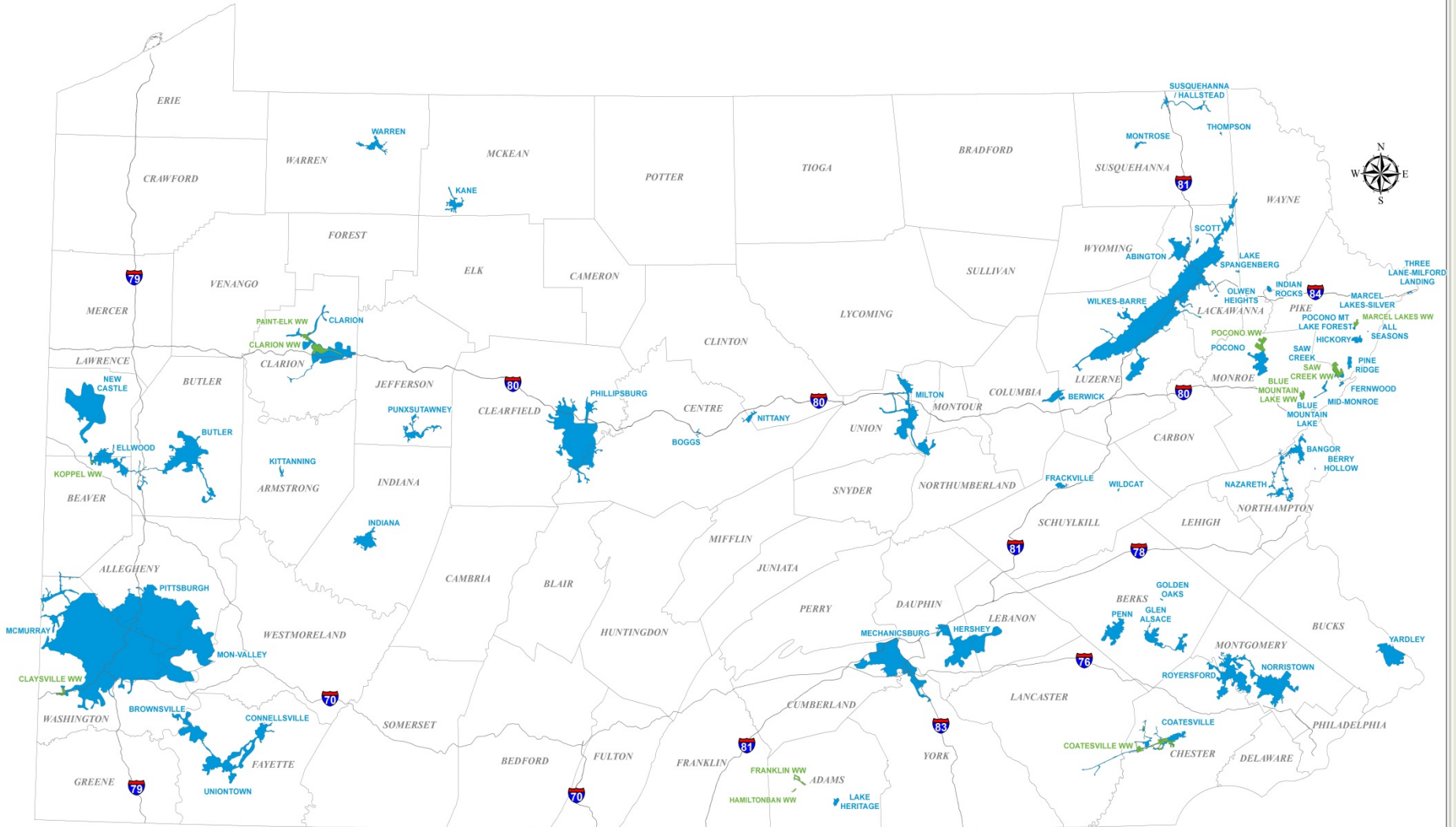
**TAC Meeting, May 18, 2015**

**Paul Zielinski, Sr. Director,  
Water Quality and  
Environmental Compliance**





# Pennsylvania American Water Service Area



Serving 17 percent of the Commonwealth's population



## Our Pennsylvania Infrastructure

### Source of Supply

- 92% surface water
- 7% groundwater
- 1% purchased water
  
- 53 regulated dams
- 135 active groundwater well sources
- 36 surface water plants

PWS – 66 total

### Storage & Transmission

- 293 water storage tanks
- 268 booster pumping stations

### Distribution System

- 10,242 miles of pipe

### Water Capacity

- 196 MGD average daily delivery



## **Distribution System Complexity**

- 1. Main Breaks**
- 2. Hydrant Flushing**
- 3. Biofilms**
- 4. Cross Connections**
- 5. Dead Ends**
- 6. Large Tanks/Mains for Fire Service**
- 7. Seasonal Customers**
- 8. Food Sources for Organisms to Grow (Source Quality)**
- 9. Varying Pipe Materials, Old Pipe**
- 10. Developer Projects**
- 11. Disinfection By-Products**
- 12. Corrosion Control**
- 13. Tank Vents, Replace Infrastructure**
- 14. Pressure Management**



**Notifications Required under DEP Proposed Mandatory Disinfectant Levels  
 Free Chlorine System (No Data for August, 2014)**

Month	Number
May, 2014	4
June, 2014	3
July, 2014	7
Sept., 2014	11
October, 2014	6
November, 2014	7
December, 2014	5
Jan, 2015	5
February, 2015	8
March, 2015	2
April, 2015	4
<b>TOTAL</b>	<b>62</b>

**NOTE: All samples were void of total coliform bacteria.**



**Notifications Required under DEP Proposed Mandatory Disinfectant Levels  
 Chloraminated Systems – April, 2014 to April, 2015 (No Data for August, 2014)**

Month	Number
April, 2014	4
June, 2014	1
July, 2014	1
Sept., 2014	2
October, 2014	4
November, 2014	4
December, 2014	5
January, 2015	4
February, 2015	2
March, 2015	2
April, 2015	4
<b>TOTAL</b>	<b>33</b>

**NOTE: All samples were void of total coliform bacteria.**





## Suggestions

- 1. Use sound science to set mandatory disinfectant levels for a distribution system. Use national experts, identify research needs, and use PA stakeholder interaction.**
- 2. Identify unwanted circumstances that may occur.**
- 3. Use Capital Funds wisely, not unnecessarily.**