The mission of the Office of Drinking Water is to protect public health by ensuring that all people in Virginia have access to an adequate supply of affordable, safe drinking water that meets federal and state drinking water standards.
MAINTAINING THE PROGRAM

• VOP Committee composed of representatives from six field offices and the Central Office
  • David Dawson, PE - Abingdon Field Office
  • Thomas Thompson, PE - Lexington Field Office
  • Dixon Tucker, PE - Southeast Virginia Field Office
  • Nyibe Smith - Richmond Field Office
  • Bernard Proctor, PE - Danville Field Office
  • Akshay Jain - Culpeper Field Office
  • Susan Miner, CapDev - Central Office
  • Aaron Moses, PE, Central Office
  • Robert Edelman, PE, Central Office
MAINTAINING THE PROGRAM

Relationships with other functions
• VOPC is doing Waterworks Recognition
• VOPC working cooperatively with Capacity Development
• VOPC does not attempt to work with Operator Certification
MAINTAINING THE PROGRAM

• One VOPC team member from each of six offices.
• Three CO representatives.
• Team turnover usually by attrition - five offices have changed team members, some multiple times.
• Team is responsible for implementation at each of six offices.
MAINTAINING THE PROGRAM

• Prepared Annual Report/Status Component
• Identified Performance Award Recipients
VOP Goals
Effective January 1, 2013
Proposed Changes

Clarification (Individual unit preferred, or other combinations as currently monitored)

  Monthly evaluation period

  • Effluent turbidity ≤ 1.0 NTU 95 % of time when average raw water turbidity for month ≤ 10.0 NTU
  • Effluent turbidity ≤ 2.0 NTU 95 % of time when average raw water turbidity for month > 10.0 NTU
VOP Goals
Effective January 1, 2013
Proposed Changes

Filtration (Individual Filters)

monthly evaluation period

- Filtered water turbidity ≤ 0.10 NTU 95% of time
- Filtered water turbidity ≤ 0.30 NTU 100% of time
VOP Goals
Effective January 1, 2013
Proposed Changes

Filter Backwash
Annual evaluation period

• Backwash recovery period $\leq$ 15 min. (return to $\leq$ 0.10 NTU) in 95% of backwashes
• Peak turbidity $\leq$ 0.3 NTU during backwash recovery period in 95% of backwashes
• Filtered water turbidity $\leq$ 0.10 NTU 95% of time a filter is placed into service following a backwash
PWS Status

121 Treatment Facilities

39 Met Clarification, Filtration and Backwash Goals - Gold Award (32%)

24 Met Filtration; and Clarification or Backwash Goals - Silver Award (20%)

21 Met Filtration Goals - Bronze Award (17%)
### Virginia Weighted WTP Ranking Criteria

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>MEASUREMENT</th>
<th>Revised Factor Eff. 2013</th>
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<tr>
<td>Clarification goals</td>
<td>Clarifier months</td>
<td>Fraction of total clarifier-months goal was met</td>
<td>3 4</td>
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<tr>
<td>Filtered turbidity ≤ 0.1 NTU, 95% of readings</td>
<td>Filter months</td>
<td>Fraction of total filter-months goal was met</td>
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<tr>
<td>Filtered turbidity ≤ 0.3 NTU, 100% of readings</td>
<td>Filter months</td>
<td>Fraction of total filter-months goal was met</td>
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<tr>
<td>Placed in service after backwash with filtered turbidity ≤ 0.1 NTU, 100% of backwashes</td>
<td>Filter months</td>
<td>Fraction of total filter-months goal was met</td>
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<tr>
<td>Backwash recovery period peak turbidity ≤ 0.3 NTU, 100% of backwashes</td>
<td>Filter months</td>
<td>Fraction of total filter-months goal was met</td>
<td>1 0</td>
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<tr>
<td>Backwash recovery period ≤ 15 minutes, 100% of backwashes</td>
<td>Filter months</td>
<td>Fraction of total filter-months goal was met</td>
<td>1 0</td>
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</table>
Waterworks Recognition Program

Traditionally, awards are presented to recipients at a lunch ceremony hosted by Southeast Rural Community Assistance Project in Roanoke, and are presented in person or mailed to waterworks unable to attend. Due to COVID-19, this year’s ceremony was canceled and 2019 VOP Awards were mailed, with a few instances where Awards were presented in person, observing recommended health precautions.
Waterworks Recognition Program

• Bronze - meets criteria for filtration
• SILVER - meets criteria for BRONZE award and meets clarification goals, OR
• SILVER - meets criteria for BRONZE award and meets all 3 backwash goals
• GOLD - meets all criteria
# Waterworks Recognition Program

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</tr>
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</table>
WTP INSPECTIONS

• Annual
• Major vehicle for VOP technical assistance
• Encourage discussion of VOP R+R results for previous 12 months
• Encourage discussion of TURBOP results for previous 12 months (when available)
AWOP IMPACT

- Progress towards achieving each AWOP goal for WTPs is observed in each Field Office
- State-wide progress for individual goals noted in following slides.
Status Component: Looking Forward

- Targeted technical assistance via Sanitary Surveys and other meetings with WTPs.
- Annual VOP data review letter to WTPs, OR
- Notify WTPs of rank in sanitary surveys.
- Targeted technical assistance or intervention at low-performing WTPs.
VOP: Looking Forward

- Interest in DBP PBT, DS Optimization...
- Continue quarterly (?) AWOP meetings with EPA Region 3
- Continue sharing lessons learned
VOP: Looking Forward

- Maintaining the existing VOP
  - Turbidity Goals for SWTPs
- Waterworks Awards Program
- Outreach
- Look into ramping up Distribution System Optimization