Topics

• Current events
• Program overview
• 2015 Legislature - fees
• Regulatory update
• Measures – how are we doing?
Current events - 2014

• LT2 - Unfiltered systems/open reservoirs:
  – Baker City temporary UV light, permanent UV light installation
  – Portland E. coli boil water advisory
  – Bend membrane filtration construction start

• Milton-Freewater health hazard abatement action

• North coast forestry/herbicides public concerns

• Southeast Oregon drought declarations

• Clean Water Services wastewater beer brewing pilot proposal

• West Virginia chemical spill

• Toledo Ohio algal bloom

• Ebola water/wastewater concerns

• OHA/PHD leadership changes
Safe drinking water and regulatory roles

- Public water suppliers – supply safe drinking water

- **State/tribal drinking water programs** – supervise public water systems under rules no less stringent than EPA ("Primacy")

- U.S. EPA – establish national safe drinking water standards and regulations, oversee and evaluate state primacy programs
Public water systems in Oregon

- Over 2,500 public water systems subject to EPA regulations (25 or more people)
- 900 known public water systems subject only to state regulations (10-24 people)
- Public systems serve entire state population
- 90% of water systems serve fewer than 500 people
- 2,800 certified water system operators
- 100 certified drinking water labs
- 91 EPA regulated contaminants, 19 regulations
- 125,000+ test results per year
Oregon water systems by type

2,559 public water systems

- Community systems
- Nontransient noncommunity
- Noncommunity
Oregon water systems by size

2,559 water systems

- Very large (>100K pop.)
- Large (50K-100K pop.)
- Medium (10K-50K pop.)
- Small (500-10K pop.)
- Very small (<500 pop.)
Drinking Water Services Section
Center for Health Protection
Public Health Division

We assure all Oregonians safe drinking water (ORS 448)

Data Management, Compliance, and Enforcement Unit
*Unit Manager - Joe Carlson*
- EPA Standards Adoption
- Lab Certification
- Safe Drinking Water Information System Operation and Maintenance
- Compliance Assessment
- Enforcement and Judicial Action
- EPA Reporting

Protection, Planning, and Certification Unit
*Tony Fields - Unit Manager*
- Safe Drinking Water Revolving Loan Fund Administration
- Operator Certification
- Backflow Tester and Specialist Certification
- Water System Capacity Development
- Contract Administration:
  - County Health Departments
  - Water System Technical Assistance and Training

Drinking Water Services Section Administration
- Section Manager – Dave Leland
- Administrative Specialist – Diane Weiss
- Office Specialist – Carol Malka
- Drinking Water Advisory Committee

Partner Agencies and Organizations
- County Health Departments
- Oregon Dept. of Agriculture
- Oregon Public Health Lab
- Oregon Dept. of Environmental Quality
- Oregon Infrastructure Finance Authority
- Operator Training Contractor
- Technical Assistance Contractor
- Infrastructure Needs Survey Contractor

Technical Services Unit – Region 1
*Unit Manager – Kari Salis*
- Water System Contamination Investigation
- Water System Inspections
- Regulatory Consultation and Assistance
- Informal Enforcement
- Plan Review

Technical Services Unit – Region 2
*Unit Manager – Casey Lyon*
- Water System Contamination Investigation
- Water System Inspections
- Regulatory Consultation and Assistance
- Informal Enforcement
- Drinking Water Source Protection

Partner Agencies and Organizations
- County Health Departments
- Oregon Dept. of Agriculture
- Oregon Public Health Lab
- Oregon Dept. of Environmental Quality
- Oregon Infrastructure Finance Authority
- Operator Training Contractor
- Technical Assistance Contractor
- Infrastructure Needs Survey Contractor
2013-15 DWS revenue (through Dec. 2014)

2/3 is federal funds (no general funds)

- FF-EPA Primacy grant
- FF-EPA SRF setasides (31%)
- Other Funds (fees)
- MM transfer
2013-15 DWS expenditures (through Dec. 2014)

1/3 supports partners

- OHA program (41 FTE)
- Partners (20 FTE est.)
ASDWA State Drinking Water Programs’ Resources and Needs Report (Jan. 2014)

• US EPA PWSs – 152,000 (OR 2,534, 1.7%)
• Analysis gives total program FTEs (state, counties, partners, contractors, etc.) for base and comprehensive programs

• Base program:
  – Current US state FTEs – 3,100
  – Needed US state FTEs – 5,400

• Comprehensive program (including base)
  – Current US state FTEs – 3,800
  – Needed US state FTEs – 6,500
ASDWA recommendations

• Congress – funding and statute changes
  – Increase annual Primacy grants
  – Increase annual Drinking Water State Revolving DWSRF fund grants
  – Remove 10% match for DWSRF state program management set-aside
  – Increase DWSRF admin set-aside from 4% to 6%

• States
  – Implement program and process efficiencies
  – Increase fees, set new fees
  – Increase state general fund support
  – Remove hiring caps and freezes

• States/EPA
  – Set priorities
  – Exercise flexibility in SRF set-aside use
ASDWA Oregon-specific resources and needs

- Current OR total equivalent FTEs (state, counties, partners, contractors) – 60
- OR does base program functions and some comprehensive program functions
- State-specific resource needs model supplied to each state
- OR results for 2014:
  - Base program need – 100
  - Comprehensive program need – 122
- Oregon has about 50% of a comprehensive statewide program
DWS revenue and expenditure history

<table>
<thead>
<tr>
<th>Biennium</th>
<th>Total Revenue</th>
<th>Total Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>07-09 (37-50 FTE)</td>
<td>$16.0 M</td>
<td>$14.0 M</td>
</tr>
<tr>
<td>09-11 (50-41 FTE)</td>
<td>$16.0 M</td>
<td>$14.0 M</td>
</tr>
<tr>
<td>11-13 (41 FTE)</td>
<td>$14.0 M</td>
<td>$12.0 M</td>
</tr>
<tr>
<td>13-15 projected (41 FTE)</td>
<td>$18.0 M</td>
<td>$15.0 M</td>
</tr>
</tbody>
</table>
2015 Legislature

- OHA-PHD 2015-17 Governors Recommended Budget
- PHD agency bills
- Public health modernization, HB 3100
- Other legislative bills
2015-17 PHD major budget issues

- Dependency on federal funds to support core public health programs
- Dependency on medical marijuana fee support for core (but unrelated) public health programs, uncertainty of sustainability
- Loss of some federal funds in 2013-15
- Uncertainty of federal funds in 2015-17
- Changes in the health care delivery system
- Redesign of fee-based revenue structures necessary based on current demands (stay tuned...)
Drinking water fees

- Fees last raised in 1995, 2006, or 2008
- Fee-related workload constant over time – 9 FTE
  - Operator certification
  - Backflow certification and oversight
  - Plan review
  - Water system survey inspections
- Current fees now support less than half of the staff that conduct fee-related work
- Federal fund sources supported more of fee-related work over time as program costs increased
- Federal fund sources have been flat and may decline in future, no state general fund support
- **What fee revenue needed to fully maintain current staffing and current service level for fee-supported work through 2017-19?** No new positions!
<table>
<thead>
<tr>
<th>Fee type</th>
<th>Workload (FTE)</th>
<th>Current fee revenue (2013-15)</th>
<th>Fee revenue needed (2015-17) 18 months</th>
<th>Fee revenue needed (2017-19) 24 months</th>
<th>Percent revenue increase over current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator certification</td>
<td>1.8</td>
<td>$260,070</td>
<td>$407,618</td>
<td>$543,491</td>
<td>110%</td>
</tr>
<tr>
<td>Backflow tester and specialist certification</td>
<td>1.8</td>
<td>$252,220</td>
<td>$414,445</td>
<td>$552,593</td>
<td>120%</td>
</tr>
<tr>
<td>Water system survey inspections</td>
<td>3.4</td>
<td>$351,165</td>
<td>$877,913</td>
<td>$1,170,551</td>
<td>230%</td>
</tr>
<tr>
<td>Plan review</td>
<td>2.2</td>
<td>$122,535</td>
<td>$536,099</td>
<td>$714,799</td>
<td>480%</td>
</tr>
</tbody>
</table>
Modernizing the program

• State program:
  – ABC certification exams at H&R Block - now
  – Pay fees by credit card – survey inspection fees in 2015
  – E-PIPELINE newsletter posted on line with email subscription/notification – 2015
  – E-water system survey forms – date TBD
  – File imaging and records management – date TBD

• EPA program:
  – E-reporting of all compliance data and monthly reports via Compliance Monitoring Data Portal – 2016
  – New national SDWA database system (SDWIS Prime) – date TBD
EPA regulatory update

• Near future - Revised Total Coliform Rule
• Future outlook:
  – New MCLs and standards
  – Review of current rules
  – Regulatory determinations for future MCLs
  – Other issues and initiatives
Revised Total Coliform Rule - RTCR

- Final rule: 2/13/13, compliance date: 4/1/16
- MCL for E. coli only!
- No MCL for total coliforms. PWSs with TC presence must “find and fix” problems
- Rule applies to all 154,000 PWSs nationally
- EPA Quick Reference Guide available
Revised Total Coliform Rule - RTCR

- Draft state rule presentation to Drinking Water Advisory Committee on 7/16/14, to EPA in August
- Adopt allowable monitoring reductions? Like TCR - no
- Final draft to DWAC in Jan. 2015
- State rule adoption during fall 2015, winter 2016
- State Primacy applications due to EPA 2/13/15, Oregon and 35 other states extended to 4/1/16
- EPA/states emphasis now is on preparing for implementation, guidance documents, data systems
- State information and outreach to prepare water suppliers well in advance of 4/1/16 effective date, stay tuned.....
# EPA Regulatory Actions (March 2015, AWWA)

<table>
<thead>
<tr>
<th>Coming out in 2015</th>
<th>Coming out in 2016 or later</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft Fourth Contaminant List (CCL4)</td>
<td>Proposed Long-Term Lead and Copper (LT-LCR) Revisions</td>
</tr>
<tr>
<td>Proposed 4&lt;sup&gt;th&lt;/sup&gt; Unregulated Contaminant Monitoring Rule (UCMR4)</td>
<td>Proposed Perchlorate Rule</td>
</tr>
<tr>
<td>Final recommended fluoride level for drinking water (from HHS)</td>
<td>Proposed Carcinogenic VOCs (cVOCs)</td>
</tr>
<tr>
<td>Second Round of LT2ESWTR monitoring</td>
<td>Third Six-Year Review of Existing Regulations</td>
</tr>
<tr>
<td>Something on storage tanks?</td>
<td>Final CCL4</td>
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<tr>
<td>Health advisories for cyanotoxins</td>
<td>Final UCMR4</td>
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<tr>
<td>Guidance on Legionella treatment</td>
<td>Hexavalent chromium rule?</td>
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<tr>
<td>Final Third Regulatory Determination</td>
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<tr>
<td>Report from NDWAC lead and copper working group</td>
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</tbody>
</table>
Immediate key initiatives

• Algal toxins – EPA focused on analytical methods. Health advisory levels for microcystin-LR and cylindrospermopsin in May 2015

• Legionella – EPA workgroup on effective secondary treatment technologies. Draft guidance for states and facilities by end of 2015
Measuring progress
Oregon waterborne outbreaks

Total Cases, 28 Outbreaks-9,000 sickened (CDC)
Baker City *cryptosporidiosis* outbreak
Summer 2013
Safe drinking water standards

Year

No. of EPA regulated contaminants

Oregon accomplishments

• ORS 448, Oregon program restart, 1981
• Primacy since 1986
• **200 water systems using unfiltered surface water sources installed treatment, connected to others, drilled wells**
• 130 systems installed corrosion control treatment to reduce lead levels at the tap
• 50 systems took action to meet the arsenic MCL
• Other systems dealt with coliform bacteria, nitrate, DBPs, VOCs, SOCs…
• $300M in revolving fund assistance to 150 communities since 1998!
• Oregon has adopted all current EPA rules, RTCR is next
OR compliance trends
Large water systems consistently meet standards

Measure #1-% of OR population served by community systems that meet health-based standards throughout the year

<table>
<thead>
<tr>
<th>Fiscal Year (July-June)</th>
<th>Oregon</th>
<th>USA</th>
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<tbody>
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<td>1994</td>
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<td>2014*</td>
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<tr>
<td>Goal</td>
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</table>

*Portland coliform events
OR compliance trends
Small systems do not always meet standards

Measure #2-% of OR community systems that meet health-based standards throughout the year

Fiscal Year (July-June)

- Oregon
- USA
Oregon priority noncomplier water systems
(>10 points)
Organizational performance level survey

1. Reactive and variable outcomes; many problems, little standardized work
2. Awareness of need for more consistent outcomes; glitches occur frequently, sometimes serious
3. Consistent outcomes; some glitches occur; usually not serious
4. Outstanding outcomes; but not quite always automatic
5. Seamless; transparent; automatic excellent outcomes
OHA/Co HD/ ODA performance level survey results

Feb 2015 – 40 responses, overall aver. 3.21
Feb 2011 – 72 responses, overall aver. 3.30
(Nov 2012 – 87 PWS responses, overall aver. 3.13)

Essential functions – in priority order

* 30 or more responses in 2015

2011  2015
Questions?