Washington Departments of Ecology & Health Per-and Poly-Fluorinated Alkyl Substances (PFAS) Chemical Action Plan (CAP) Advisory Committee Meeting

Ecology Headquarters Lacey WA | Thursday, October 4, 2018 9:00 am to 2:30 pm | Meeting Documents: <u>Ecology EZ View Website</u>

On October 4, 2018, Ecology and DOH met with the CAP advisory committee and other interested parties to discuss a brainstorm list of PFAS CAP goals and options. Ecology and DOH provided a list of goals and options for discussion. Participants included representatives from industry and business associations, local, federal and tribal government, water providers, environmental organizations, and others.

- Meeting agenda
- Goals and Options document

Advisory Committee Attendees (*webinar):

Jessica Bowman, FluoroCouncil

Joyce Dinglasan-Panlilio*, University of Washington-

Tacoma

Steven Gilbert, Institute of Neurotoxicology and

Neurological Disorders

Doug Kelly*, Island County Environmental Health John Lovie, Whidbey Island Water Systems Association Grant Nelson*, Association of Washington Business Rory O'Rourke, King County Dept of Natural Resources

Cheri Peele, Clean Production Action Don Robbins*, Port of Seattle Erika Schreder, Toxic-Free Future Heather Trim, Zero Waste Washington Abigail Welch, Port Gamble S'Klallam Tribe

Interested Parties (*webinar):

Frank Adamsky, Daikin America, Inc.*

Matt Bangcaya, King County Local Hazardous Waste

Management Program (LHWMP) Evan Bruning, Serlin Haley LLP*

Holli Burt, Step2*
Laura Cook*

Merv Coover, Western States Petroleum Association

Holly Davies, King County LWHMP Lauren Dempsey, U.S. Air Force* Frank Dick, City of Vancouver* Chris Generous, U.S. Navy*

Peggy Horst, W.L. Gore & Associates, Inc*

Al Innes, Minnesota DEP*

Danielle Jorgensen, Landau Associates*

Steve Korzenowski, FluoroCouncil

Evan Laganis, AGC Chemicals Americas, Inc.*
Carolyn Logue, C. Logue Public Affairs*

Kristin Marshall, Boeing*

Bryan McCulloch, DOW Chemical

Keith Petka, Chemours*

Ron Russ, Pangborn Memorial Airport*
Tim Shestek, American Chemistry Council *
Lindsay Stovall, American Chemistry Council*
Shirlee Tan, Public Health Seattle King County

Taylor Tidwell, U.S. Air Force Laurie Valeriano, Toxic-Free Future

Kathryn VanNatta, NW Pulp and Paper Association*

Sarah Wightman, Marten Law*

State Agency Staff (*webinar)

Maria Blackshear, WA Dept of Ecology (ECY)
Derrick Dennis, WA Dept of Health (DOH)*

Elmer Diaz, DOH Ellie Ott, ECY Anne Knapp, ECY Callie Mathieu, ECY Mike Means, DOH

Thatcher Montgomery, ECY*
Barb Morrissey, DOH

Kasia Patora, ECY

Brian Penttila, ECY Sean Smith, ECY Kara Steward, ECY Kari Trumbull, ECY

Bridgette Valdez-Kogle, ECY Saskia van Bergen, ECY*

Jim White, ECY Sam Wilson, ECY Ken Zarker, ECY **Agency Presentations** - Slides: <u>Ecology</u>, <u>Dept of Health</u>, <u>Economics</u> Ecology and Health presented on:

- Status of the PFAS CAP process Kara Steward, Ecology
- Update on firefighting foam and food packaging Ken Zarker, Brian Penttila, Ecology
- Update on drinking water rule and sampling Barbara Morrissey, Mike Means, Health
- Update on PFAS contamination cleanup (no slides) Jim White, Ecology
- CAP economics Kasia Patora, Ecology

Discussion of CAP Recommendations

Meeting attendees brainstormed a list of CAP Recommendation Goals missing from the draft list shared at the meeting. ECY/DOH list of CAP Goals and Options. Attendees list of goals, options, focus, other ideas:

- Add impact to orcas/wildlife.
- Reduce and eliminate the source of PFAS in products.
- Separate out fluoropolymers, not all PFAS are the same, only PFOS on the PBT list,.
- Add equity and vulnerable populations to all goals/options.
- Include historic perspective on the use of PFAS.
- Add a recommendation to identify data gaps where is more research needed.
- Coordinate testing for PFAS for all media, agencies (cross agency, cross program).
- Clarify where state and local governments would do the actions.
- Make the CAP a living document (adaptive management, accountability).
- Reconvene the Advisory Committee every 2 years.
- Regularly report back on status of implementation of all completed CAPs is there a summary of implemented CAP recommendations.
- Summarize lessons learned from developing CAPs.

Discussion of Criteria

Meeting attendees brainstormed a List of Criteria to consider as recommendations are identified for the CAP:

- Equitable who bears the cost.
- Avoid future cleanup costs.
- Costs are on responsible parties.
- Find safer alternatives using data and transparency.
- Transparency CBI issues, more transparent about availability, goal to protect public health.
- Practicality is the option practical to implement, is it do-able.
- Strategic need to do things in a certain sequence; what's going to give the biggest benefit to health.
- Meaningful.
- Prioritize the scope of options which PFAS are most impactful (to env't, community).
- Focus on high gain not all PFAS are the same some are more mobile, nontoxic; tiered approach.
- Goal about remediation there is no guidance for remediation, need more emphasis on this.
- Environmental and social justice, protect the most sensitive life stages, vulnerable populations, most sensitive ecological species.
- Will it result in the greatest possible reduction in levels of PFAS in products and biota-comprehensive/effective.
- Enforce-ability what needs to be done to be able to 'enforce' an action.
- Regulatory approach including identifying the bounds of state (and local?) regulatory authorities.
- Measurable (quantifiable solutions).
- Flexible to allow for future technologies.
- Values health benefits over costs.

Goal and Option Facilitated Discussion

The list of <u>Goals and Options</u> were reviewed by the meeting attendees. Highlights from those comments and suggestions are provided below.

Common Themes:

- Identify the source of funding for recommended actions, include legislative recommendations to provide funding, manufacturer funding, responsible party funding.
- Identify staffing resources needed to implement actions.
- Need more actions, no more testing.
- Need to test: biosolids, landfill leachate, products, industrial discharges, house dust.
- Regroup the Goals by strategy: testing, mitigation, regulations/enforcement, financial; short, medium and long term goals for actions.
- Products, look at the mercury CAP: identified product types, known alternatives, estimated quantity, alternatives.
- All goals/actions must include public participation and environmental justice/social equity.

GOAL 1 - Reduce exposure to people through drinking water.

- None of the options say "reduce," add reduction options (or change the goal).
- Connect to Goal 2 (remediation leads to exposure reduction) or merge Goal 1 and Goal 2.
- Where is the funding for connecting to a new well or other local water system or bottled water?
- Regroup by strategy: testing, mitigation, enforcement, financial (in place of the goals as listed).

GOAL 2 - Identify, prioritize, and clean up sources of PFAS contamination in drinking water.

- If this applies to groundwater and wildlife, replace "drinking water" with "environmental contamination."
- Survey AFFF use, investigate urban/nonurban watersheds.
- Focus priorities where it's harder to find clean water.
- Connect to work in other states and federal government (EPA).

GOAL 3 - Evaluate and reduce releases of PFAS to people, homes, or the environment.

- Look at surfactants cleaners, polishes, wax, cleaners, textiles, carpet. Look at product end of life second hand use. What about house dust.
- Don't recommend actions underway by others: FDA food testing; EPA PFAS in imported products; California PFAS in carpet; FAA allowed to switch to non-PFAS.
- What do we know, recommend evaluating sources we don't understand. Model how people are exposed, prioritize the path that contributes to the highest exposure.
- Industry is reducing releases, manufacturers are phasing out PFAS use (carpet).

Goal 4 - Evaluate and identify the need to regulate or reduce releases of PFAS.

- Need disclosure in purchasing.
- Focus on non-essential uses and high exposure.
- Non-point sources are difficult to regulate.

Goal 5 - Identify actions that residents can take to reduce PFAS exposure.

- Remove Goal 5 the public didn't cause the pollution, focus on actions.
- Reframe as Education and Outreach.
- Engage the public, not just educate.

Goal 6 - Identify the state's top priorities for federal agencies and industry partners.

- Collaborate with other states and organizations, like ITRC and ECOS.
- Keep an eye on actions in Europe: ECHA, REACH, Germany.
- Keep track of emerging issues.

Goal 7 - Financial Mechanism

This goal was added by the meeting attendees.

- Recommend funding from the legislature for water testing.
- Access the Hazardous Substance Tax.
- Manufacturer fund AFFF takeback.
- Chemical industry fund water testing.
- Partner with the filtration industry.

Questions:

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Project links:

- PFAS CAP advisory committee site
- Ecology's PFAS CAP site
- Health's PFAS website