

6PPD ACTION PLAN ADVISORY COMMITTEE KICK-OFF MEETING

Virtual (Zoom)

Wednesday, January 24, 2024

10:00 a.m. to 12:00 p.m.

Facilitator: Tanya Williams

Meeting 1 of 6

Attendees

Advisory Committee members in attendance and the organizations they represent:

Vice Chairman Josh Bagley (Suquamish Tribe); **Aimee Navickis-Brasch** (Evergreen StormH2O); **Amber Lewis** (Suquamish Tribe); **Angela Bolton** (City of Mill Creek); **Catherine Gockel** (Environmental Protection Agency); **Chelsea Mitchell** (King County); **David Troutt** (Nisqually Indian Tribe); **Don McQuilliams** (City of Bellevue); **Dylan Ahearn** (Herrera); **Ed Kolodziej** (University of Washington – Tacoma); **Eli Mackiewicz** (City of Bellingham); **Fran Solomon** (Western Washington University); **Gabby Rigutto** (ChemFORWARD); **Greg Haller** (Northwest Indian Fisheries Commission); **Heidi Siegelbaum** (WSU Stormwater Center); **HollyAnna Littlebull** (Yakama Nation, University of Washington); **Jen McIntyre** (Washington State University); **Justin Greer** (United States Geological Survey); **Kathie Dionisio** (Environmental Protection Agency); **Katie Byrnes** (Washington Conservation Action); **Keith Estes** (Long Live the Kings); **Kenia Whitehead** (GSI - U.S. Tire Manufacturers Association); **Laurie Valeriano** (Toxic Free Future); **Marc Gauthier** (Upper Columbia United Tribes); **Marissa Paulling** (Northwest Indian Fisheries Commission); **Mary Rabourn** (King County); **Neil Smith** (Flexsys); **River Wan** (Pierce County); **Robert Campbell** (LANXESS Corporation); **Sean Dixon** (Puget Soundkeeper Alliance); **Seth Book** (Skokomish Indian Tribe); **Steve Laing** (Trout Unlimited); **Tanya Eison-Pelach** (Affiliated Tribes of Northwest Indians); **Taylor Aalvik** (Affiliated Tribes of Northwest Indians); **Tracey Norberg** (U.S. Tire Manufacturers Association); **Kiersten Maxwell** (University of Washington); **Rebecca Cook** (STOI); **Jamie McNutt** (Flexsys); **Jeff Durant** (Flexsys); **Caitlin Lawrence** (Washington State University – Puyallup); **Stephanie Blair** (Washington State University - Puyallup).

Washington State agency support staff in attendance:

Morgan Baker (Ecology); **Lizzy Baskerville** (Ecology); **Frances Bothfeld** (Ecology); **Madison Bristol** (Ecology); **Holly Davies** (Health); **Elinor Fanning** (Health); **Stephanie Gill** (Ecology); **Adam Hayes** (Ecology); **Cassie Horton** (Ecology); **Jillian Reitz** (Puget Sound Partnership); **Mallory Little** (Health); **Nathan Lubliner** (Ecology); **Craig Manahan** (Ecology); **Katie Pruitt** (Governor's Salmon Recovery Office); **Rhea Smith** (Ecology); **Tony Bush** (Transportation); **Tanya Williams** (Ecology); **Lindsey Bineau** (Ecology); **Monica Cornell** (Ecology); **Derek Rockett** (Ecology); **Molly Shuman-Goodier** (Fish and Wildlife, alternate for Andrea Carey).

Advisory Committee members not present:

Emily Gonzalez (Puget Soundkeeper); **Katherine Saluskin** (Yakama Nation Tribal Health), **Shirlee Tan** (Public Health Seattle King County)

Guest attendees:

Christopher Dunagan

Purpose of Advisory Committee

The purpose of the 6PPD Action Plan advisory committee is to support the development of Phase 1 of the 6PPD Action Plan, which will include recommendations to Washington's Legislature around filling 6PPD data gaps and research needs.

Advisory committee members will use their expertise to identify data gaps and research needs surrounding the 6PPD problem. Members will review scoping materials to provide feedback and insights, ensuring we are considering as many perspectives and approaches as possible.

Ecology will submit data gaps, research needs, and recommendations as part of a required update to the Legislature by December 31, 2024, as directed in Engrossed Substitute Senate Bill 5187 Section 302 (17).

6PPD Action Plan Advisory Committee Meeting Goals

During advisory committee meetings, we will meet and share expertise to support the development of the action plan. The primary goals of these meetings will be to review working documents and refine data gaps, research needs, and recommendations for inclusion in phase 1 of the 6PPD Action Plan.

About Action Plans

An action plan is a streamlined and action-oriented plan that allows flexibility in addressing emerging chemicals of concern. It is a new process that is intended to be concise and focus on recommending actions for chemicals, like 6PPD, which do not meet the persistent, bioaccumulative, and toxic (PBT) criteria. The 6PPD AP will be our second action plan.

Action plans do not follow the same process as chemical action plans (CAPs). CAPs are comprehensive plans that directly target persistent, bioaccumulative toxins or metals of concern, and they are required to meet all components in [WAC 173-333](#).

Meeting Notes

The 6PPD Action Plan advisory committee kick-off meeting began at 10:02 a.m. with 65 attendees. We provided a brief overview of the agenda and encouraged all participants to introduce themselves, including answering an icebreaker question. We asked new participants to provide their name and email address if they were interested in becoming an advisory committee member. We will add interested individuals to the agency's active directory, email list, and Microsoft Teams channel for the action plan.

Ecology gave an overview of our purpose, including how advisory committee members will help identify data gaps, research needs, and recommendations around 6PPD. This will support an update to the Legislature that provides a clear path forward to make progress around 6PPD. We also provided a brief overview of 6PPD and 6PPD-quinone, including what is currently known

about these chemicals. We discussed potential challenges around implementing stormwater best management practices, including costs of installation and aging infrastructure.

Each agency then gave an update on the work they are performing to address 6PPD.

- **Tanya Williams, Ecology:** Ecology is working on an alternatives assessment to identify safer alternatives to 6PPD, identifying stormwater best management practices to manage 6PPD-quinone before it reaches waterways, and developing scientific methods to measure 6PPD-quinone in the environment. We are also considering a process to determine designation of 6PPD as a hazardous waste (including implications of such a designation). We consult with Washington's Tribal partners as we consider approaches to solving the 6PPD problem.

Additionally, the Safer Products for Washington Program determines chemicals that are a high priority due to toxicity; identifies priority products that contain them; determines regulatory actions based on feasible and available safer alternatives; and adopts rules. Senate Bill 5931 proposes to add 6PPD as a priority chemical and tires as a priority product to the Safer Products law. The bill vote is expected on Friday, January 26, 2024. We will keep the group updated as we learn more.

- **Katie Pruitt, Governor's Salmon Recovery Office (GSRO):** GSRO is coordinating the State's response to salmon recovery through enhanced commitments and coordination across agencies and programs to strengthen science, monitoring, and accountability.
- **Elinor Fanning and Mallory Little, Department of Health (DOH):** DOH is evaluating research findings that are available for 6PPD-quinone and other possible transformation products. There are little known impacts on mammalian and human health impacts associated with 6PPD-quinone exposure. DOH will continue to evaluate data as it becomes available to further research human health exposure potential and other sources besides tires (air, consumer products, and more). The agency is looking at Environmental Justice concerns associated with potential exposure and prioritizing drinking water and fish consumption.
- **Jillian Reitz, Puget Sound Partnership (PSP):** PSP partners with businesses and state, Federal, and Tribal government agencies. The agency charts the course by convening experts to write plans and implement the 2022-2026 Action Agenda for Puget Sound, which addresses toxic pollutants, including 6PPD. PSP has a shared system of science and monitoring and engages in several workgroups, including the 6PPD subgroup of the Stormwater workgroup.
- **Molly Shuman-Goodier, Washington Department of Fish and Wildlife (WDFW):** WDFW conducts long-term monitoring of marine and anadromous species in Puget Sound. The agency also collaborates with NOAA NWFSC chemists to develop methods for measuring tire-related compounds. WDFW also monitors for the presence of 6PPD-quinone and other tire-related compounds.

- **Tony Bush, Washington State Department of Transportation (WSDOT):** WSDOT is engaging in research around best management practice effectiveness, including researching bioretention planter boxes and the use of bioretention soil mix (BSM). WSDOT is also conducting community outreach. WSDOT has \$500 million for standalone stormwater retrofit projects that will incorporate green stormwater infrastructure (GSI), Tribal Treaty Rights, and cost-effective solutions. WSDOT attends federal, state, and Tribal working groups to determine how to spend WSDOT stormwater retrofit funds.

We provided an overview of the objectives for Phase 1 of the 6PPD Action Plan. These objectives include identifying data gaps and research needs, working with communities to identify immediate needs and areas that need further research, and using these recommendations to develop budget requests to the Legislature. We also answered questions from the committee that were submitted prior to the kick-off meeting.

Advisory committee roles and timeline

We discussed the role of the advisory committee, scoping document, scoping timeline, and the April 17 deadline to finalize comments. We encouraged participants to submit input and recommendations as early as possible to ensure consideration for the final document.

Next steps

We invited advisory committee members to review documents in the Teams channels, provide input for the focus area(s) they are interested in, or comment on existing recommendations. We reminded participants that we will convene for our second meeting on February 13.

Subgroup breakout session

To close the meeting, we created six subgroup breakout rooms in the following focus areas: stormwater BMPs; safer alternatives; monitoring and sampling; fate and transport; solid waste; ecotoxicology; and human health. Committee members met with the respective sub-group leads for 15 minutes to introduce themselves.

Feedback/Comments Received from Chat

Name	Input	Focus Area
HollyAnna Littlebull	For the slide that mention tribes, need to add "plants of usage", I am guilty of placing plant fibers in my mouth when making baskets. Some plants of usage are gathered near water sheds. I have stopped placing them in my mouth because I wondered if I am poisoning myself.	Human Health
Angela Bolton	Short answer regarding air, yes, we know that is a source reservoir.	Fate and Transport

Name	Input	Focus Area
Sean Dixon	I think we'd all love to know if there's 6PPDq in our IPAs, mulled wine, or coffee?	Human Health
Mary Rabourn	Another household dust study? body burden study?	Human Health
Mary Rabourn	Is there a map of the tire 'journey' from production to recycle/disposal/wastewater-stormwater and with contact species/humans?	Solid Waste, Stormwater, Human Health
Elinor Fanning	Most of the published house dust studies that have analyzed for 6PPD/6PPDq were performed in China. While those show that these chemicals are commonly detected in indoor environments, use patterns of PPD chemicals and other factors may limit extrapolation to WA settings. DOH is interested in air/dust/biomonitoring here.	Human Health
Eli Mackiewicz	I attended a microplastics presentation in Oregon last year and they indicated that craft beer was tested and is full of microplastics so if 6ppd-q acts like a microplastic in the environment, it's probably in everything.	Human Health
David Troutt	How much is needed to retrofit enough systems for each watershed important to the Tribes would it cost? I would like to know what % of the current funding would address the larger problem.	Stormwater Retrofits
Lizzy Baskerville	Since increasing green stormwater infrastructure is one of the immediate actions, we can take to reduce 6PPD in our waterways, I'm wondering are there any landscape architecture representatives in this committee?	Stormwater Best Management Practices, Stormwater Retrofits
Laurie Valeriano	California is proposing PPD derivatives to address regrettable substitutes.	Alternatives

Name	Input	Focus Area
David Troutt	I want to go BIG with the budget request. Let's propose a stormwater retro fit schedule to get 80% of the most important systems set up to remove 6PPD-q in the next biennium! We do not have time on our side. Every time it rains salmon are dying.	Stormwater Best Management Practices, Stormwater Retrofits
Eli Mackiewicz	From the Stormwater retrofit side, the 60/40 bioretention mix still has the copper export issue. Capturing 6ppd while discharging copper isn't a great fix. But we're looking at new BMPs and may have those data ready for evaluation soon. But probably not in time to make any estimates on cost before the next biennium, unfortunately. It's a tough nut to crack	Stormwater Best Management Practices, Stormwater Retrofits
Angela Bolton	This is where partnering with wastewater management/point source dischargers would be helpful, in my opinion, since copper is a significant concern for discharge of final effluent.	Wastewater
Mary Rabourn	I'd like to see the labor and production connections too. We have many communities working in tire recycling/reuse.	Human Health, Solid Waste
David Troutt	I need to leave at 1130 for another meeting. I am excited about this effort and will continue to participate AS LONG AS we are allowed to be bold and aggressive. If this gets softened and delayed and muted through a State process then I will respectfully step aside and spend time on bold initiatives and actions in forums that are bold. Mahalo all.	General

Name	Input	Focus Area
Sean Dixon	One way I think we can be bold is to try to not let the need to fill data gaps lead to delay - there's a ton that we can do even while we're working on more research. And there's a ton of vital/interesting research we could probably think of. AND coho need some help now. All of the above!	General

Links/Resources Shared in Zoom Chat

- Learn more about Washington State's 6PPD work on our ["Addressing 6PPD" project page](#).
- [WSDOT Stormwater Retrofit Prioritization WORKING DRAFT Web Map](#)
- [WSDOT Stormwater Retrofit 2023/2024 Prioritization Update Survey123](#)
- [California is proposing PPD derivatives to address regrettable substitutes](#)
- [Link to the Teams channel](#).
- View presentations, meeting notes, and other 6PPD action plan materials on our project ["6PPD Action Plan" page](#).

Action Items

- Review scoping documents in the Teams channels and provide input for the focus area(s) you are interested in, or comment on existing recommendations.
- Add references that support your recommendations.
- Let us know if you are having difficulty accessing the Teams channel.