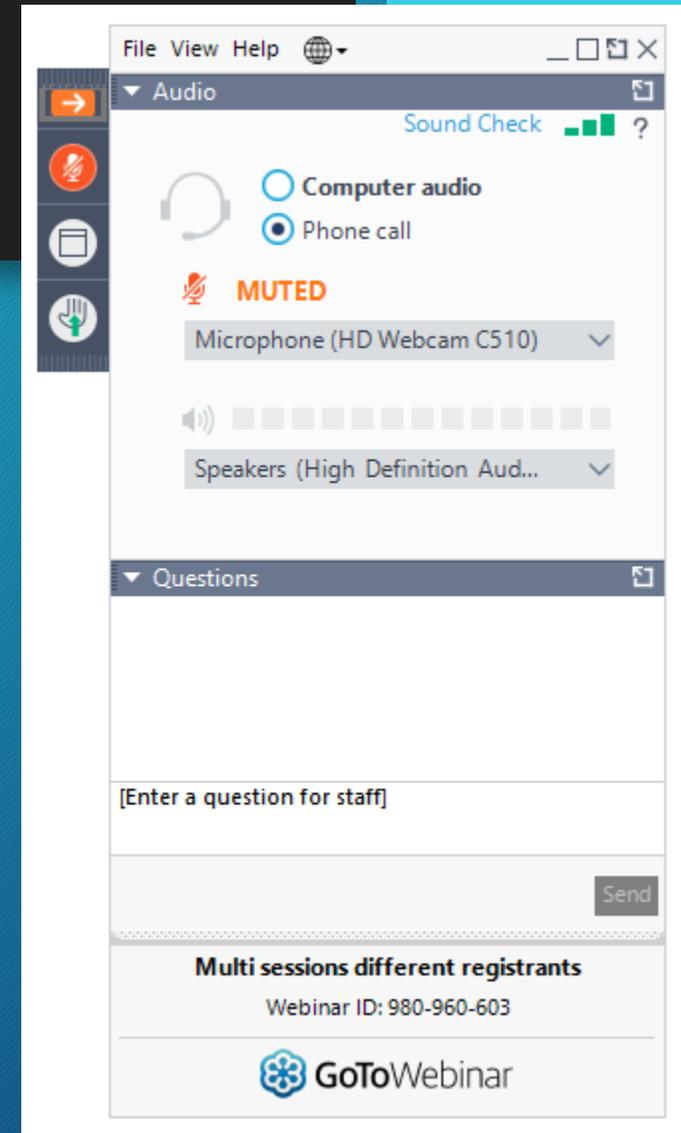


# Welcome To The Flame Retardants Webinar

The webinar will start promptly 10:00 a.m. PST.

- Please use the Go To Webinar phone number to listen and participate in the meeting.
- If during the webinar you are disconnected, or have difficulty hearing, try disconnecting and calling back in.
- For any technical support, please visit [gotowebinar.com](http://gotowebinar.com) and click on Support.



# Flame Retardants (ESHB 2545) Stakeholder Advisory Committee

June 15, 2018

Washington Department of Health

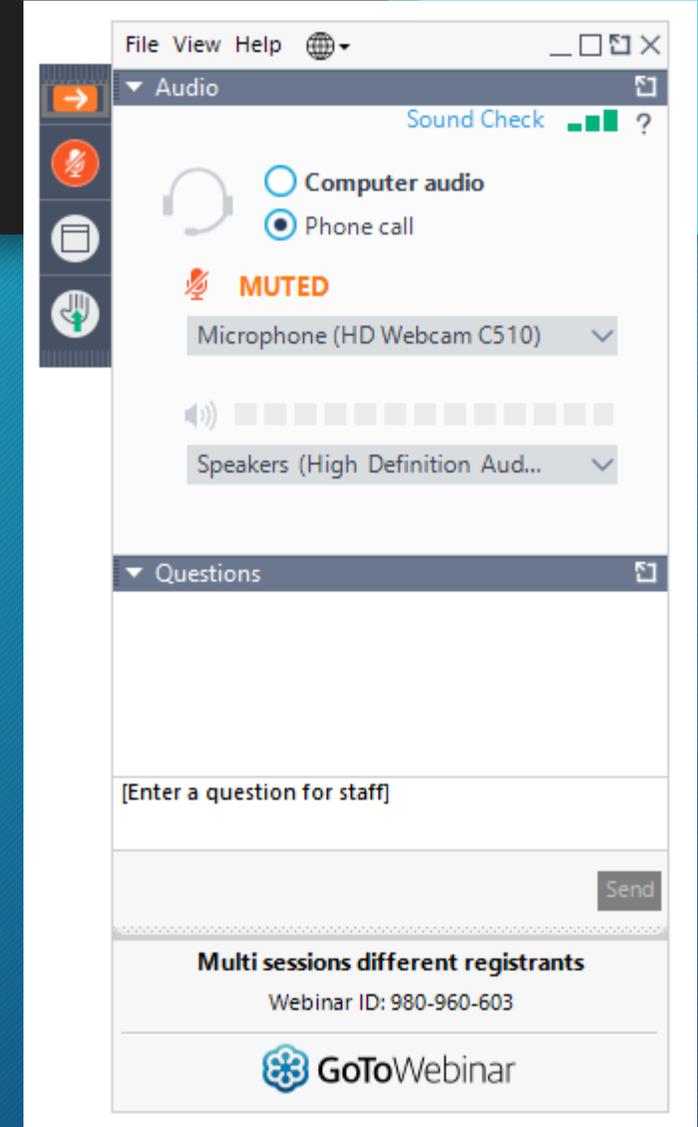
Tumwater WA

# Participating in Q&A and Group Discussion

Raise your hand by clicking on the Hand icon and we will unmute your line. After asking the question, put your hand down by clicking the hand icon again.

or

Submit a comment or question by typing into the Questions box. We will read it aloud.



# Stakeholder Advisory Members

(June 15<sup>th</sup> meeting #1)

- Vyto Babrauskas, PhD, Fire Science & Technology, Inc.
- Richard Henrich, Global Regulatory Compliance, LANXESS Solutions US Inc.
- Kimberly Bloor, Deputy State Fire Marshal
- Andrea Carey, Biologist, Washington Department of Fish & Wildlife
- Holly Davies, PhD, Local Hazardous Waste Management Program, King County Parks and Natural Resources
- Elizabeth Friedman, MD, Pediatric Environmental Health Specialty Unit, University of Washington
- Andy Hackman, Juvenile Products Manuf. Association
- A.J. Johnson, Washington Council of Firefighters
- Joe Johnson, Senior Director, Cisco Environmental Affairs
- Chief Scott LaVielle, Washington Fire Chiefs Assoc.
- Donald Lucas, PhD, Lawrence Berkeley National Laboratory (retired)
- Brad Miller, Advocacy & Sustainability, BIFMA
- Grant Nelson, Association of Washington Businesses
- Cheri Peele, MCP, Clean Production Action
- Heather Stapleton, PhD, Associate Professor, Duke University, Nicholas School of the Environment
- Shirlee Tan, PhD, Toxicologist, Seattle-King County Public Health
- Joel Tenney, Director of Advocacy, ICL (Israel Chemicals Ltd)
- Heather Trim, PhD, Executive Director, Zero Waste Washington
- Laurie Valeriano, Executive Director, Toxic-Free Future (Erika Schreder, Science Director TFF)

# Advisory Committee Introductions

Name, company or organization

Your Perspective

- Briefly, what your company or organization does
- Briefly, your experience with this issue (flame retardants in consumer products)

# Role of Stakeholder Advisory committee

To provide:

- Consultation to DOH and ECY.
  - Input on evaluations of six flame retardants.
  - Advice and expertise as we develop policy options.
  - Your perspective as we develop our recommendations.
- 
- Final Report will be authored by DOH, in consultation with ECY.

# Group Process

Together we will:

- Stick to the agenda.
- Remain respectful. Be open to other viewpoints.
- Give others a chance to share their thoughts.
- Speak clearly (always into a microphone) so those on the webinar can hear those in the room.

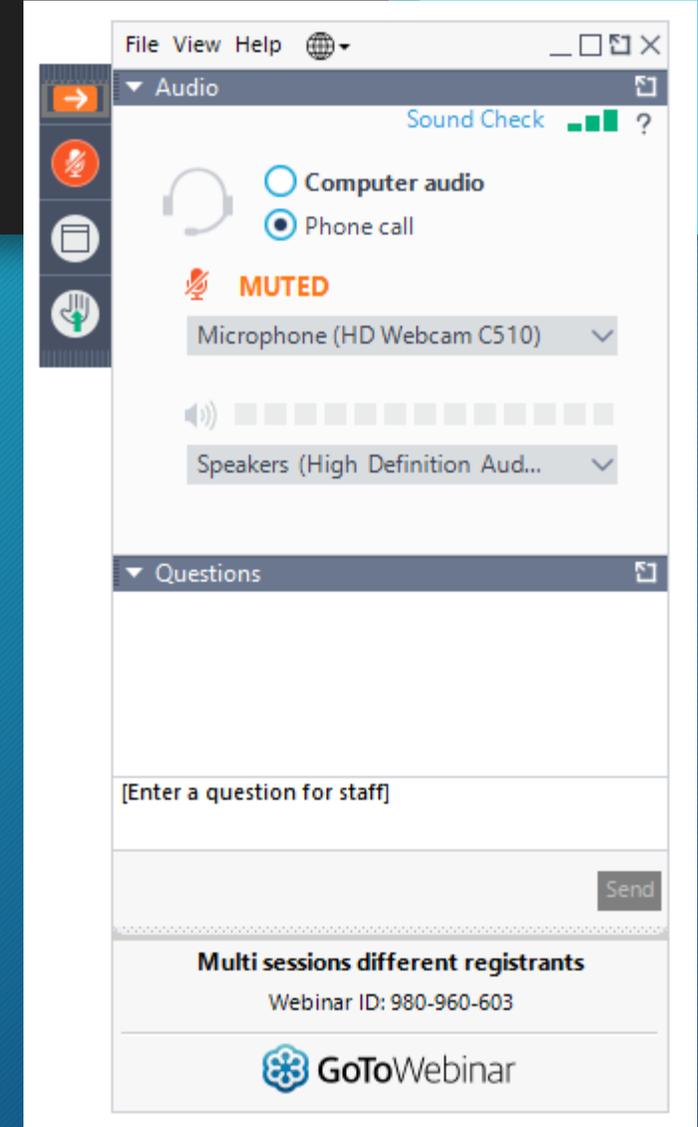


# Questions on role of Stakeholders?

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# ESHB 2545

## Historical context, Review of charge, Implementation timeline

Barbara Morrissey, Toxicologist

Office of Environmental Public Health Sciences

[Barbara.Morrissey@DOH.WA.GOV](mailto:Barbara.Morrissey@DOH.WA.GOV)

(360) 236-3368



# Washington Policy Action - Flame Retardants

2006	State-wide Chemical Action Plan for PBDEs completed (ECY/ DOH)
2007	Washington passes ESHB 1024 banning PBDEs in a number of consumer products; required agencies to identify a safer alternative before some restrictions could take effect.
2008	Alternative assessment on decaBDE completed (DOH/ECY)
2008	Washington passes the Children's Safe Product Act (CSPA) requiring disclosure of "chemicals of high concern to children" in covered children's products.
2011	Ban on decaBDE in TV, computers, upholstered furniture becomes effective.
2014	Report to legislature on flame retardant market replacements (ECY)
2016	Washington passes ESHB 2545 restricting TDCPP, TCEP, decaBDE, HBCD, additive TBBPA in children's products and residential upholstered furniture. Law directs agencies to further evaluate 6 flame retardants: IPTPP, TBPH, TBB, TPP, TCPP, and V6.

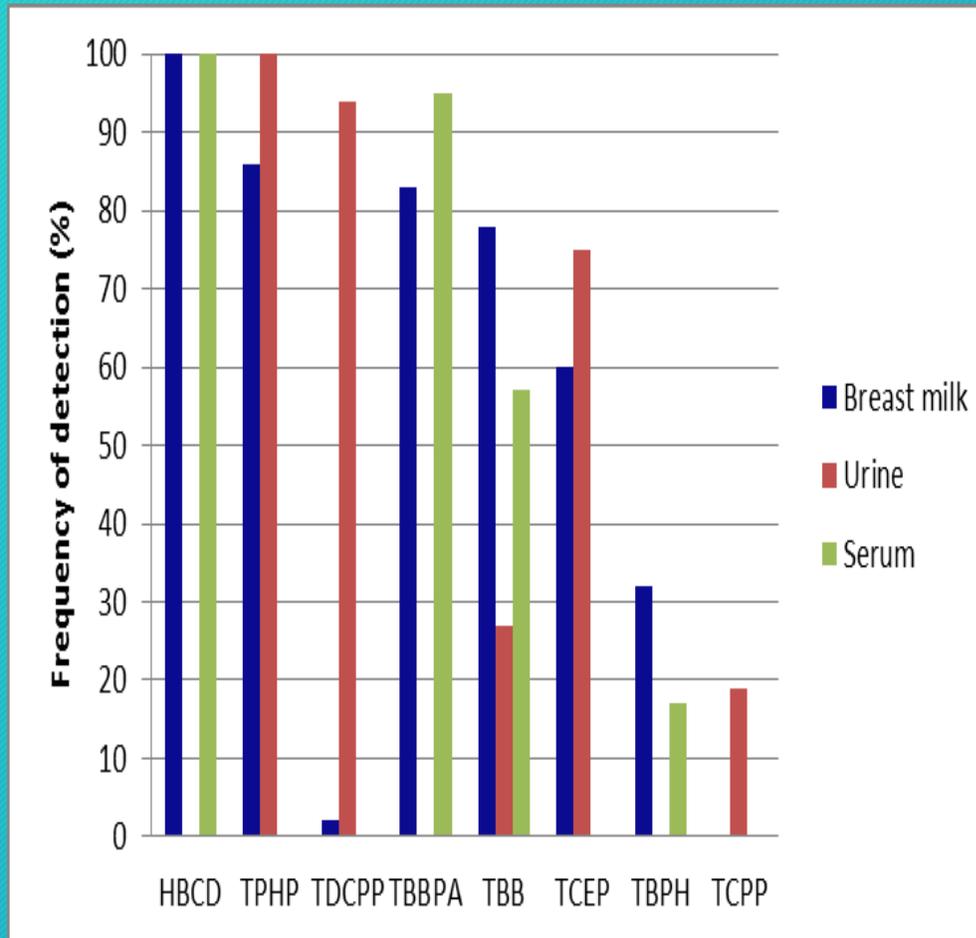
# DOH reviewed flame retardant exposure studies (in 2015)

- Looked for evidence of exposure in the general population and in children
  - Biomonitoring studies
  - Environmental sampling of indoor air and dust
- Focused on current uses (not PBDEs)

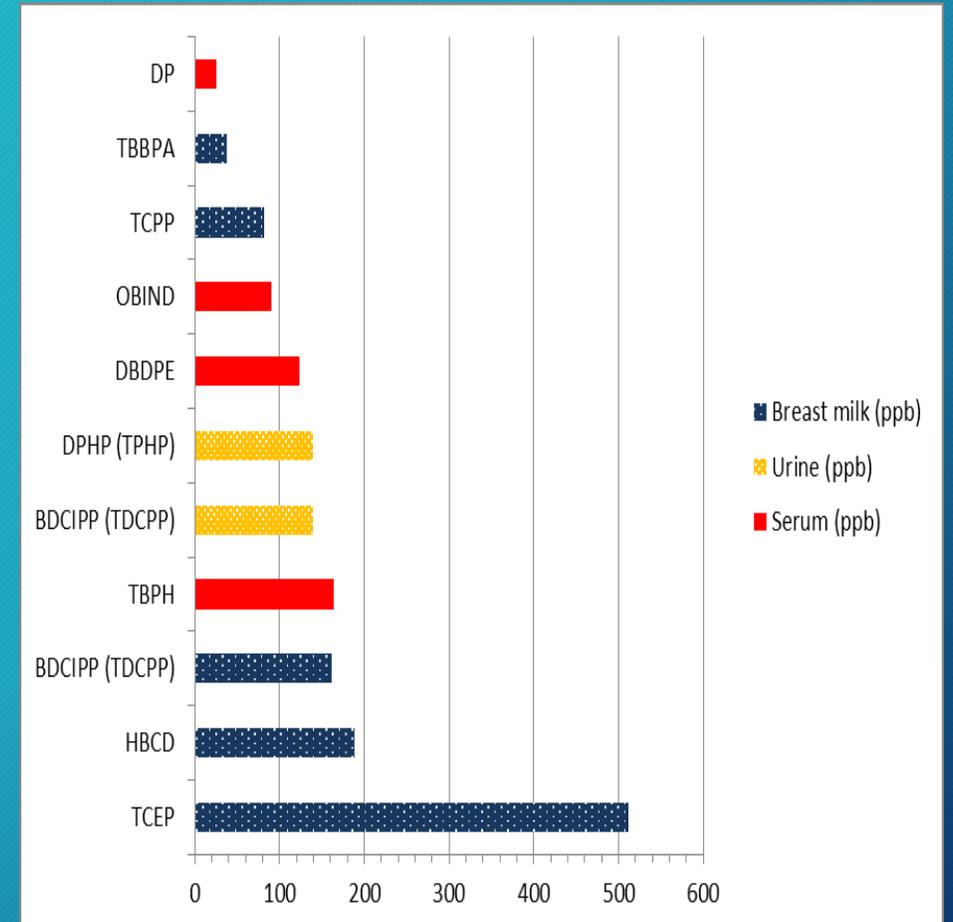


# Flame retardants found in U.S. biomonitoring studies

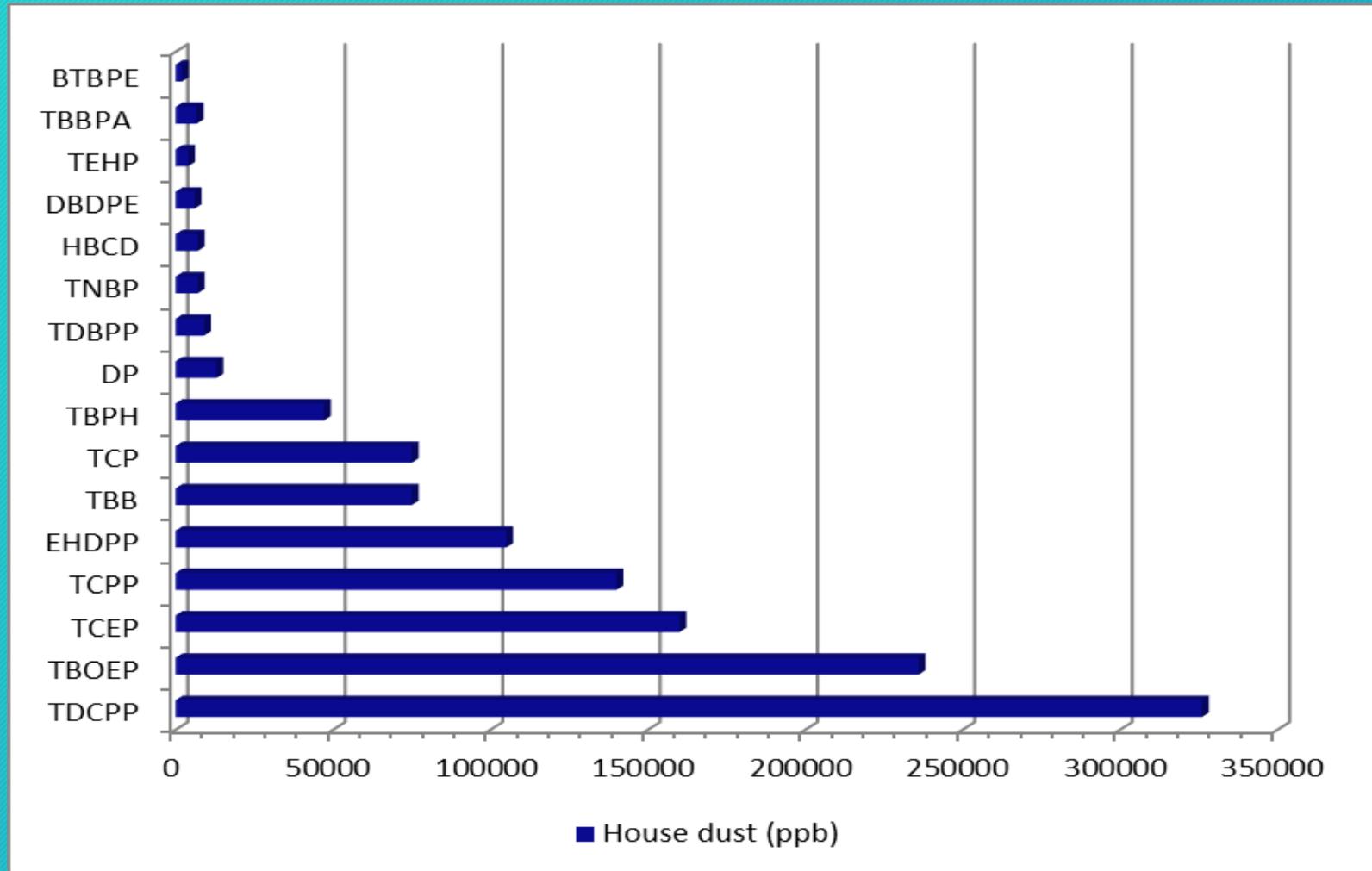
## Most frequently found



## Found at highest levels



# Most Prevalent Flame retardants in U.S. house dust (maximum levels reported)



# DOH 2015 Review - Summary

- Majority of the flame retardants found in people and house dust are additive flame retardants with home uses.
- A number of flame retardants detected in children and pregnant and nursing moms, were rated by EPA as high hazard for reproductive, developmental, or systemic toxicities.
- Unavoidable and unwanted exposures continue in people

# Implementation of ESHB 2545

# ESHB 2545 - Flame Retardants in Furniture and Children's Products

2016 Amendments to Children's Safe Product Act (RCW 70.240.035)

## Step 1

- Evaluate whether six flame retardants meet criteria for the Children's Safe Product Act (CSPA) disclosure list (*Chemicals of High Concern for Children*).

## Step 2

- Recruit stakeholders for advisory committee.
- Evaluate, in more depth, potential for health impacts and investigate policy options for reducing impacts.
- Report findings and recommendations to legislature.

# Progress to Date

## Step 1: *Completed*

- Department of Ecology - lead agency
- CSPA rule update was adopted September 2017
- 12 flame retardants added to reporting list
- <https://fortress.wa.gov/ecy/publications/documents/1704021.pdf>

## Step 2: Starting June 2018

- Department of Health - lead agency
- Anticipate 3 stakeholder meetings
- Anticipate Legislative Report by December 2018

## Flame retardants added to CSPA

IPTPP ✓

TBPH ✓

TBB ✓

TPP ✓

TCPP ✓

V6 ✓

TDBPP

TCP

EHDPP

SCCPs

TNBP

DBDPE

# RCW 70.240.035 - Stakeholder Advisory Committee

- Create a stakeholder advisory committee for each flame retardant chemical to provide stakeholder input, expertise, and additional information in the development of recommendations.
- Include specific categories of stakeholders:
  - Large and small business sectors;
  - Community, environmental, and public health advocacy groups;
  - Local governments;
  - Affected and interested businesses;
  - Public health agencies.
  - Optional: relevant state agencies and other technical experts

# RCW 70.240.035 - For each chemical...

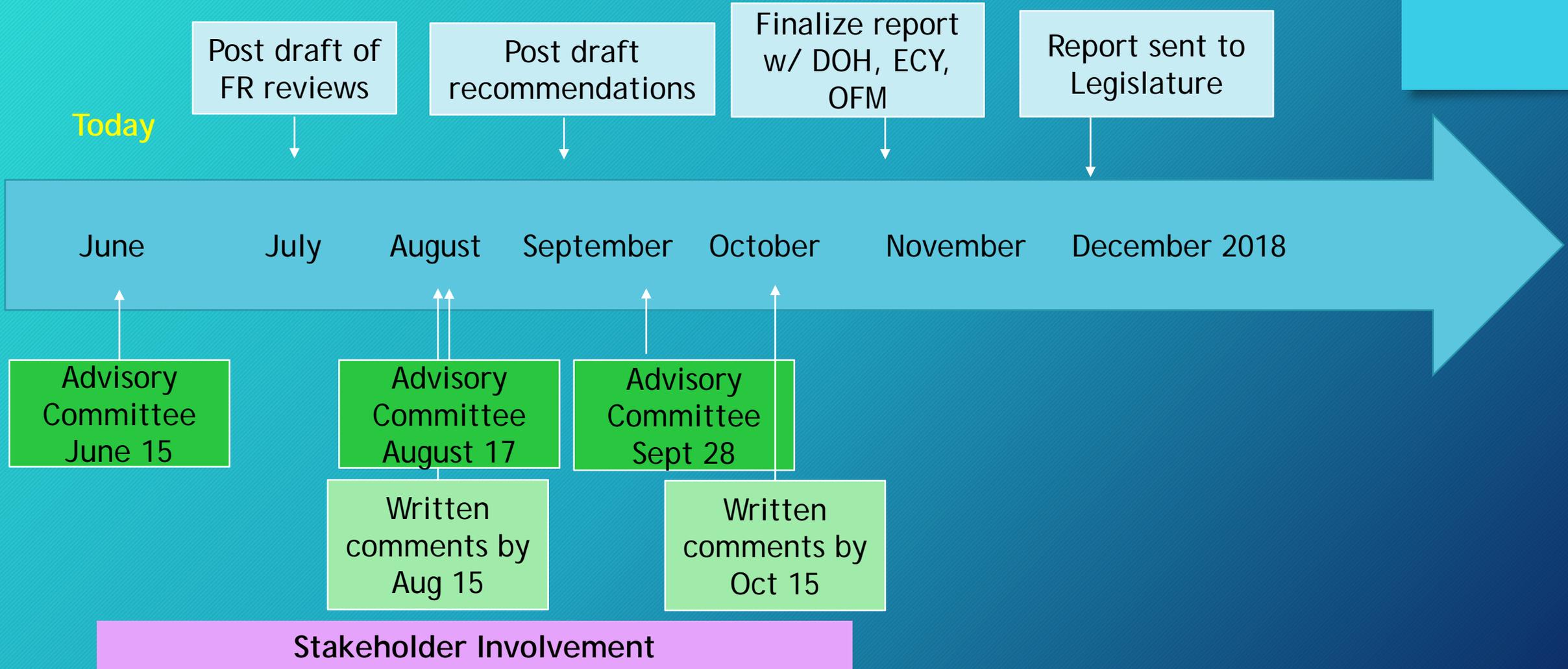
- (a) Chemical name, properties, uses, and manufacturers;
- (b) An analysis of available information on the production, unintentional production, uses, and disposal of the chemical;
- (c) Quantitative estimates of the potential human and environmental exposures associated with the use and release of the chemical;
- (d) An assessment of the potential impacts on human health and the environment resulting from the quantitative exposure estimates referred to in (c) of this subsection;

# RCW 70.240.035 - Developing Policy Options

(4)(a) The department of health must submit to the legislature recommendations on policy options for reducing exposure, designating and developing safer substitutes, and restricting or prohibiting the use of the flame retardant chemicals ...

- Rely on credible scientific evidence.
- Consider quantitative information on exposures to the chemical under its intended or reasonably anticipated conditions of use.
- Consider uses in children's products, residential upholstered furniture, or other commercial products or processes.

# Anticipated Project Timeline

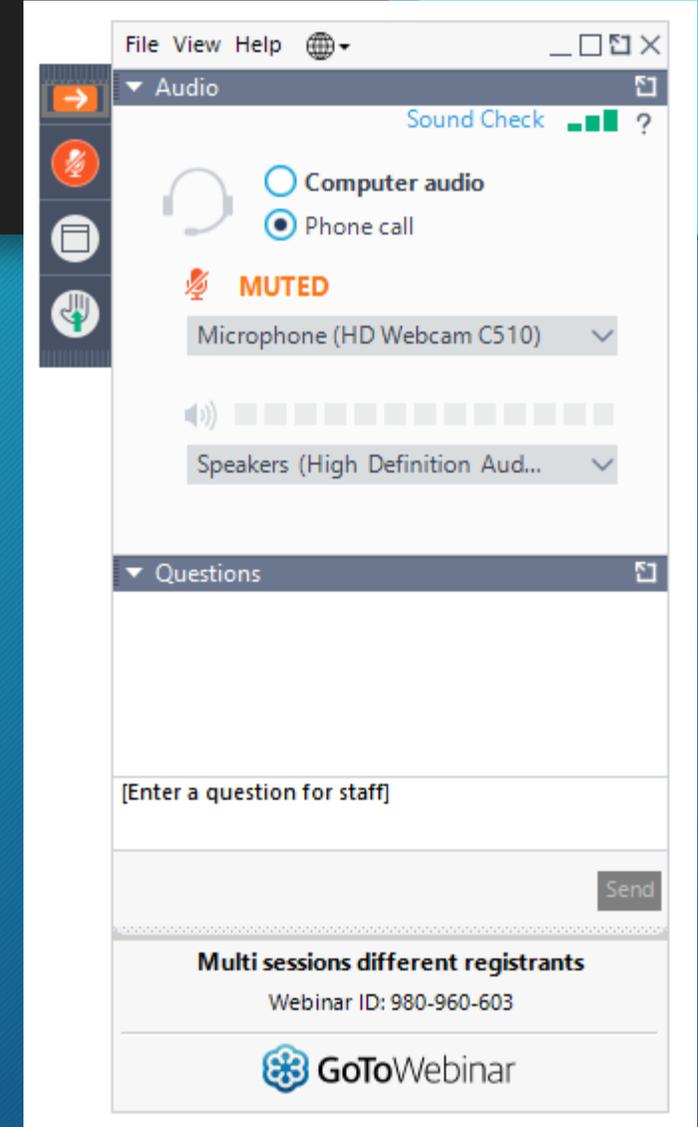


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# Guiding Principles and Agency Goals

Lauren Jenks, Director  
Office of Environmental Public  
Health Sciences  
Washington Dept of Health

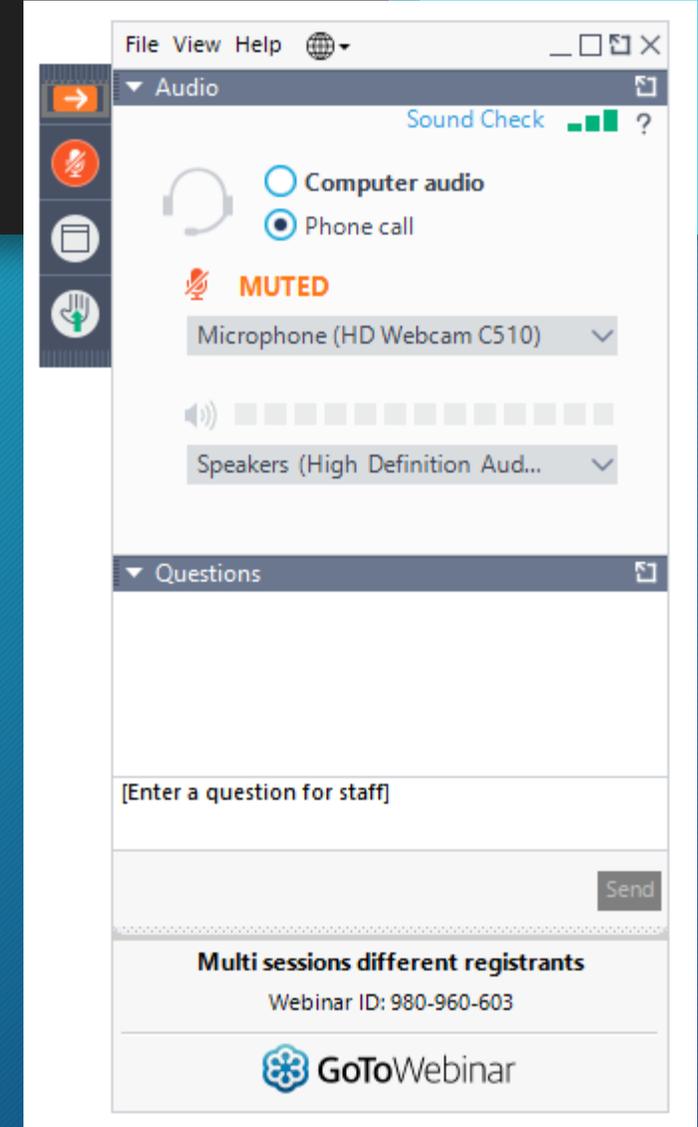
Darin Rice, Program Manager  
Hazardous Waste and Toxics  
Reduction  
Washington Dept of Ecology

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10 Minute Break