# **Spokane River PCB TMDLs**

#### November 30, 2022 Update



## PCB Human Health Impacts

- Probable carcinogens
- Immune system impacts
- Reproductive system impacts
- Nervous system impacts
- Endocrine system impacts
- Highly bioaccumulative
- Environmentally persistent





# **PCB** Pollution Sources

- Though U.S. manufacture was banned in 1979, PCBs were widely used in...
  - Electrical, heat transfer, and hydraulic equipment
  - Plasticizers in paints, plastics, and rubber products
  - Pigments, dyes, and carbonless copy paper
  - Fluorescent light ballasts, caulking, and floor finishes
  - MANY other industrial applications
- Though regulated, many goods are still allowed to contain PCB concentrations measured in parts per million, while applicable water quality standards are measured in parts per quadrillion



#### Project Overview

- EPA is developing Spokane River PCB TMDLs as a result of a litigation consent decree
  - U.S. EPA
    - Spokane County, Kaiser Aluminum, Washington Department of Ecology
  - Sierra Club, Center for Environmental Law and Policy
    - Spokane Tribe of Indians
- TMDL implementation plan will be developed by Washington Department of Ecology





### **Consent Decree Provisions**

- Address PCB-impaired waters of the Spokane and Little Spokane Rivers
  - Consent decree identifies 19 assessment units listed as Category 5 for PCBs in 2012 Washington 303(d) list
  - 2014-2018 Washington 303(d) list identifies 20 Category 5 assessment units
- Status reports to court every 180 days
   First report filed August 2022, next report due February 2023
- Final TMDLs to be issued/approved no later than September 30, 2024

S	September 2024										
su 1	n Mon 2	Tue 3	Wed 4	<sup>Thu</sup> 5	Fri 6	Sat 7					
8	9	10	11	12	13	14					
1	5 16	17	18	19	20	21					
22	2 23	24	25	26	27	<b>28</b>					
29	30	)									



## Project Extent

- Washington Department of Ecology Water Resource
  Inventory Areas
  - 54 Lower Spokane, 55 Little Spokane, 57 Middle Spokane
- Spokane River
  - Confluence with Columbia River to Washington/Idaho border
  - 19 assessment units listed as Category 5 for PCBs
- Little Spokane River
  - Confluence with Spokane River to headwaters
  - 1 assessment unit listed as Category 5 for PCBs
- TMDLs will address <u>all</u> Spokane and Little Spokane River assessment units listed as Category 5 for PCBs





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# Applicable PCB Water Quality Standards

- Spokane Tribe of Indians = 1.3 pg/L
  - Columbia River to Spokane River mile ≈35.5
- Washington = 7 pg/L
  - Spokane River mile ≈35.5 to ≈99.5
  - Entirety of Little Spokane River (≈52 miles long)
- Idaho = 190 pg/L
  - Spokane River mile ≈99.5 to Coeur d'Alene Lake
- Approvable TMDLs must...
  - Achieve and maintain all applicable water quality standards
  - Be protective of applicable downstream water quality standards





#### Anticipated Project Schedule

Year	2022			2023			2024				
Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Ancillary GIS and hydrology analysis											
Collate PCB monitoring data*											
Develop and refine technical approach											
PCB monitoring data analysis											
Public/stakeholder outreach											
Issue public comment draft of TMDLs											
Respond to public comments											
lssue final approved TMDLs											

\*possible 2023 Q1-Q3 extension to accommodate recently collected PCB data



# **Additional Project Information**

- Spokane River PCB TMDLs project website
  - <u>https://www.epa.gov/tmdl/spokane-river-pcb-tmdls</u>
  - Background information, PCB and TMDL resources, project updates
  - Interested parties can also join EPA's email list for project updates
- **Comments and Questions** 
  - Please contact Gunnar Johnson
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