

## SRSP Outline for SRRTTF Long-term PCB Monitoring

### Draft Objectives and Options for Consideration – July 31, 2017

#### Goal

- Demonstrate measurable progress

#### Objectives

- Satisfy SRRTTF Comp Plan requirements
- Demonstrate in-river trends/central tendency over time
- Understand changes from point sources and stormwater/CSOs
- Understand relationship between water column, sediment and fish tissue levels
- Ensure monitoring plan is cost effective and achievable with anticipated resources and budget

#### Considerations

1. SRRTTF Comp Plan elements related to PCB long-term monitoring:
  - a. 6.1 Implementation Effectiveness Assessment – conducted five years after issuance of Comp Plan.
    - i. Assess 1) PCB loading to the Spokane River from the primary delivery mechanisms, and changes in loading over evaluation period, and 2) Spokane River PCB concentrations, and changes in concentration over the evaluation period. In-river concentrations will be assessed via review of long-term river monitoring data to be collected by the Task Force and/or Ecology.

#### Long-term Monitoring Elements

- In-river water column analysis (satisfies part of Comp Plan 6.1)
  - Possible locations:
    - Lake Coeur d’Alene
    - State line
    - Nine Mile
    - Downstream of Little Spokane River confluence
  - Frequency options:
    - Multiple locations, less frequently
    - Low flow and wet weather conditions
- Fish tissue analysis
  - Develop a QAPP to more accurately evaluate the relationship between PCBs in fish tissue and PCBs in the water column, including key parameters such as spatial and temporal comparisons, age of fish, indicator species of fish, etc.

## Source Tracing and Special Study Monitoring Elements

- Groundwater analysis to trace and identify loading sources (satisfies part of Comp Plan 6.1)
  - Possible locations:
    - Mirabeau
    - Trent Bridge
    - Upriver Dam, downstream
    - Green St Bridge
  - Consider use of upgradient Kaiser groundwater data
- Sediment analysis to understand the relationship between in-river water column, fish tissue and sediment levels.
  - Initiate this study if no connection is established between fish tissue and water column under the long-term monitoring fish tissue analysis.
  - Or, consider incorporating sediment analysis into the fish tissue and water column analysis as part of the long-term monitoring to understand the relationship between all three. If this is done, additional indicator species, such as suckers, may need to be added.