



Technical Track Work Group

Report Out
August 22, 2012



Agenda

- Work Group Meetings Held
- PCB Workshop Follow-up



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Work Group Meetings

- June 21st
 - Reviewed workshop feedback information
 - Discussed next steps relative to developing work plan objectives based on Workshop learnings
- July 19th
 - Discussed potential work plan objectives and technical advisor concept based on Workshop learnings
 - Drafted presentation to Task Force
- August 8th
 - Review and finalization of documents for presentation to Task Force
 - Discussions with Ecology staff on permit compliance questions



Agenda

- Work Group Meetings Held
- PCB Workshop Follow-up



Workshop Follow-up

- Technical Sessions Key Points
- Brainstorming Sessions Key Points
- Participant Evaluations
- Work Group Analysis
- Financials



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Workshop Follow-up

- Technical Sessions Key Points
 - Ecology Investigations
 - About 90% of the PCB in river samples are in the dissolved fraction
 - Only 43% of the PCB loading into the river has been identified thus far
 - Stormwater is the largest identified PCB source to the river identified thus far



Workshop Follow-up

- Technical Sessions Key Points
 - Ecology Investigations
 - Stormwater sediment samples are difficult to collect as is flow data
 - Levels of concern are at ultra low levels with respect to analytical methods
 - PCB homologue patterning may be needed for source tracing



Workshop Follow-up

- Technical Sessions Key Points
 - Local Source Identification
 - City of Spokane
 - Focus on sediment removal from storm catch basins
 - Developing “zones” to focus source identification
 - Expanding to stormwater sampling
 - Kaiser Aluminum
 - Focus on developing improved sampling and investigation methods to more readily identify internal sources for removal



Workshop Follow-up

- Technical Sessions Key Points
 - Other Watersheds
 - Delaware River
 - TMDL in place with non-numeric limitations
 - Focus is on Minimization Plans and Effectiveness Monitoring
 - Minimization Plan approaches have included PCB source material removal (PCB transformers), PCB track down studies, and sediment removal
 - Top 10 PCB sources have reduced discharges by 46%



Workshop Follow-up

- Technical Sessions Key Points
 - Other Watersheds
 - Portland Harbor
 - Upstream load is largest PCB loading to harbor
 - PCB loading from stormwater varied greatly by land use type
 - PCB reduction efforts have focused on sediment remediation and source control
 - Biological and surface water testing used to help identify localized source contribution



Workshop Follow-up

- Technical Sessions Key Points
 - Aerial Deposition
 - The level of importance of aerial deposition likely varies from region to region based on contribution from other sources
 - Deposition can be from local sources as well as long range sources and is important especially for non-point sources
 - Active and passive monitoring can be used to quantify ambient air levels



Workshop Follow-up

- Technical Sessions Key Points
 - Aerial Deposition
 - Land use influences sequestration efficiency
 - Snow is 100 times more effective than rain for scavenging PCB
 - Global or regional sources may set a “floor” for local reduction efforts



Workshop Follow-up

- Technical Sessions Key Points
 - Stormwater
 - PCB levels in stormwater have been reported to range from 8 ng/L to 160 ng/L
 - Ecology has measured levels as high as 745 ng/L
 - Land use type (open areas, residential, industrial) can generate different loading levels
 - In-line storm sewer sampling critical for source identification tracking efforts



Workshop Follow-up

- Technical Sessions Key Points
 - PCB Analysis
 - Only Method 1668 can provide pg/L data
 - Less than 10 laboratories in North America are capable of running Method 1668
 - No analytical confidence below 3 pg/L for Total PCB (without pre-concentration)
 - Data with Total PCB levels below 1,000 pg/L is variable and highly blank influenced



Workshop Follow-up

- Technical Sessions Key Points
- Brainstorming Sessions Key Points
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Workshop Follow-up

- Brainstorming Sessions
 - Use of a Model
 - Evaluate early on if a model will be selected and used, so data collection supports model needs and is integrated
 - Task Force Technical Expert Capability
 - Water quality modeling
 - Sediment expertise
 - PCB sampling and results interpretation



Workshop Follow-up

- Brainstorming Sessions
 - Analytical Methods
 - Use one standard analysis methodology so all data is comparable
 - Source Identification
 - Develop source inventory
 - Conduct air monitoring to quantify level of impact



Workshop Follow-up

- Technical Sessions Key Points
- Brainstorming Sessions Key Points
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Workshop Follow-up

- Attendee Evaluations
 - 91% of attendees said they now have a better understanding of Spokane River toxics related issues
 - 96% of attendees rated the workshop format and presentations as good to excellent



Workshop Follow-up

- Technical Sessions Key Points
- Brainstorming Sessions Key Points
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Work Group Analysis

- Work Plan Objectives Concepts
 - High Level Concepts
 - Phase 1
 - Setting up framework for proceeding with data collection, analyses, and other efforts
 - Future Phases
 - Identify time specific and/or task specific work plans



Work Plans

- Technical Advisor Concept
 - High Level Concepts
 - Functions to be performed
 - Skill sets and experience needed
 - Concept serves as starting point for preparation of a Request for Proposals (RFPs)



Workshop Follow-up

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Workshop Follow-up

- Financial
 - Income
 - \$8,500 from 7 sponsors
 - \$2,897 from registrants
 - Expenses
 - \$3,161 for workshop meals
 - \$4,143 for speakers
 - Fund Balance
 - \$4,093 for future use



TWG Report Out

Questions?