

Science Advisory Board

SAB Risk Forum – White Papers

Initiated by Beth Power and Paul West

Objective: to address and come to consensus, through science, practise and regulatory input, on common issues of concern for practitioners of risk assessment in BC.

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Papers currently listed on the SAB website:

1. Use of Weight-of-Evidence in Risk Assessment
2. Small Water Courses – CSR Application
3. COPC Screening – Applicable Standards
4. COPC Screening – Unregulated Substances
5. COPC Screening – Use of Statistics
6. COPC Screening – Multipathway Exposure
7. COPC Screening – Food Chain Uptake
8. Drinking Water – Risk-based vs Aesthetic
9. Drinking Water – Groundwater to Tap
10. Drinking Water – Evaluation Pathways

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Some success in the process:

1. Use of Weight of Evidence in Risk Assessment
 - Guidance has been developed
2. Water Course – CSR Application
 - Technical Guidance 15
 - Remaining uncertainties – what constitutes ‘aquatic life’, ‘maintained’ or ‘succeeded’ watercourses
3. Drinking Water – Aesthetics
 - Interim risk-based DW standards for Al, Mn, Fe

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Papers significantly impacted by TG 6:

1. Drinking Water – Groundwater to Tap
2. Drinking Water – Evaluation Pathways

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Some remaining 'low hanging fruit':

1. Water Course – CSR Application
2. COPC Screening – Unregulated Substances
3. COPC Screening - Applicable Standards
4. COPC Screening – Food Chain Uptake
5. COPC Screening – Use of Statistics

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Water Course – CSR Application

1. Recommendations to come



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COPC Screening – Unregulated Substances

1. Identify screening criteria and guidelines from other jurisdictions
2. Substances for which there are standards in other media are still scheduled substances and warrant further consideration
3. Example 2 – add an additional part to the example where you exceed both background reference concentrations and standards
4. Do not agree with PAH example – think that fluoranthene should be considered as a COPC
5. Think further clarification of higher should be provided (i.e., appropriate summary statistic) and establish an appropriate protocol for documentation of rationale for inclusion or exclusion
6. Recommendation to CSAP BCMOE to document unscheduled substances in instrument (currently a separate letter)

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COPC Screening - Applicable Standards

1. Recommendations – agreed with recommendations for soil, sediment, and air
2. Would like further information on the 10X factor provided in WHO (conversion of DW to recreational use in surface water)

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COPC Screening – Food Chain Uptake

1. Develop “bioaccumulation filter” to help screen COPCs for food chain uptake (either eco or HH)

Example:

Class 1 - no/limited bioaccumulation/metabolized chemicals (PAHs)

Class 2 – bioaccumulatives

Class 3 – biomagnifying chemicals

Review CEPA, other jurisdictions

2. Consider background exposure (multiple media)

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COPC Screening – Use of Statistics

1. Recommendations to come



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Today's Objective:

To come to a science-based consensus on recommendation(s) for these last remaining White Papers for presentation to the MOE and CSAP.