

# Appendix K

## Spreadsheets for Calculating Risk-Based Concentrations for Sediment and Tissue

### K.1 Introduction

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This appendix contains spreadsheets to use as a resource for calculating risk-based concentrations for:

- Sediment. To calculate risk-based sediment concentrations protective of human health and higher trophic levels using site-specific BSAFs (Chapter 9, Option 2 and Figure 9-3).
- Sediment. To calculate risk-based sediment concentrations protective of human health using the incidental sediment ingestion and dermal contact pathways (Chapter 9, Options 1 and 2).
- Tissue. To calculate risk-based tissue concentrations protective of human health and higher trophic levels using the consumption of fish and shellfish pathway (Chapter 9, Option 2).

These spreadsheets were used in conjunction with the recommended exposure parameters in Chapter 9 (Table 9-1 and Table 9-3) to calculate the risk-based values for sediments and tissues presented in Chapter 9 (Table 9-2 and Table 9-4). The values in Tables 9-2 and 9-4 for each exposure parameter can be modified to calculate site-specific values upon approval by Ecology, as discussed in Appendix E. In addition, the spreadsheet can be used to conduct a sensitivity analysis to determine the effect that varying specific parameters would have on the resulting tissue and sediment concentrations. Such an evaluation would be useful, for example, to determine whether risk-based sediment concentrations would be below background regardless of how a particular parameter is modified (assuming a reasonable range).

The spreadsheets can be accessed here:

[http://www.ecy.wa.gov/programs/tcp/smu/sed\\_standards.htm](http://www.ecy.wa.gov/programs/tcp/smu/sed_standards.htm)