**Research Management Strategy Worksheet**

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| **Outcome** | **Baseline** | **Factors influencing the ability to meet the outcome** |
| Continually increase our understanding of the impacts and mitigation options for toxic contaminants. Develop a research agenda and further characterize the occurrence, concentrations, sources and effects of mercury, PCBs and other contaminants of emerging and widespread concern. | Ten Contaminant Groups:  1. Polychlorinated Biphenyls  2. Dioxins and Furans  3. Polycyclic Aromatic Hydrocarbons  4. Petroleum Hydrocarbons  5. Pesticides  6. Pharmaceuticals  7. Household and Personal Care Products  8. Polybrominated Diphenyl Ether Flame Retardants  9. Biogenic Hormones  10. Metals and Metalloids  What’s our baseline understanding of occurrence, concentrations, sources, and effects? (use toxic contaminants summary report as foundational material)  Are there other contaminant groups that should be considered? | Examples:   * Ability to detect toxic contaminants * Funding to monitor toxic contaminants * Too many contaminants to address |
| In addition, identify which best management practices might provide multiple benefits of reducing nutrient and sediment pollution as well as toxic contaminants in waterways. | WIPs provide baseline for nutrient and sediment reductions, but does not have any analysis of toxic contaminant reductions. Are there existing efforts that have made this connection? | Examples:   * Incomplete knowledge of the relationship between nutrient, sediment, and contaminant reductions, such as efficiency of BMPs. * Ability to determine efficiencies. * Lack of contaminant models to project benefits of toxic reductions. |

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| **Current efforts and gaps** | **Management approaches** | **Monitoring progress** |
| List existing efforts and gaps for each of the 10 contaminant groups. | List management approaches to fill gaps and carry out a research program to increase our understanding of the impacts and mitigation options for toxic contaminants. | Achieving the information necessary for a contaminant group to be considered for prevention and reduction strategy. |
| List existing efforts and gaps for understanding multiple benefits of reducing nutrient and sediment as well as toxic contaminants. | List management approaches for understanding multiple benefits of reducing nutrient and sediment as well as toxic contaminants. | Identify which nutrient and sediment BMPs  Provide multiple benefits for contaminant reduction. |
| **Assessing progress** | **Adaptively manage** | **Biennial workplan** |
|  |  | * Commitments * Actions * Resources |
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