

Toxic Contaminants Research Outcome

Effective date: 2016-2018

Goal: Toxic Contaminants

Outcome: Research

Long term Target:

2 year Target:

Partner contributions to 2 year target:

Management Approach 1: Supply information to make fish and shellfish safe for human consumption

Key Action <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to achieve action.</i>	Performance Target(s) <i>Identify incremental steps to achieve Key Action</i>	Partners Responsible <i>Identify responsible partner for each step.</i>	Geographic Location	Timeline <i>Identify completion date (month and year) for each step.</i>	Estimated Project Cost <i>Best estimate total cost of project (need)</i>	Available funding by Partner	Total Available Funding <i>Roll up of estimated funding</i>	Factors Influencing and/or Gap <i>ID related factor or gap in Mgmt. Strat</i>
1. Monitor levels of PCBs in fish and shellfish and issue/revise consumption advisories.	High	Bay Watershed jurisdictions, EPA, federal agencies (FWS, USGS)						
2. Move known PCB contaminated sites towards cleanup at the state and federal level.	High	Bay jurisdictions, EPA						
3. Conduct coordinated PCB monitoring to better delineate toxic contaminant sources, particularly from diffuse sources of land, release from deposits in stormwater pipes, and atmospheric deposition.	High	MDE/UMBC DDOE/USGS						
4. Summarize information from recent studies by NOAA and partners to enhance understanding of the effects of	Medium	NOAA and partners						

contaminants on shellfish and fisheries.								
5. Consider the development of a PCB mass balance model for the Chesapeake Bay.	Medium	TCW and science partners						
6. Generate further information on mercury, focused on determining whether further Chesapeake Strategies are needed to supplement national efforts to reduce its impact on fish and associated consumption advisories	High							
7. Explore the extent to which diverse populations are located in areas where fish advisories are being issued, using EPA's EJSCREEN tool.	Medium							
Management Approach 2: Understanding the influence of contaminants in degrading the health, and contributing to mortality, of fish and wildlife								
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1. Revise USGS Chesapeake Bay Science Strategy to better support information on fish conditions and put the studies in a regional context.	High	USGS						
2. Assess the effects of toxic contaminants on wildlife by summarizing existing studies	Medium	USGS and FWS						

and considering additional research activities.								
Management Approach 3: Document the occurrence, concentrations, and sources of contaminants causing fish and wildlife degradation								
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3. Better define the sources and occurrence of EDCs and other contaminant groups that are effecting the health of fish and wildlife.	High							
4. Identify settings where inputs of contaminants are expected to have the maximum impact on fish, amphibian, and other biological resources, as well as human health.	High							

Management Approach 4: Assess the relative risk of contaminants, and options for mitigation, to inform policy and prevention								
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1. Develop an approach based on the Toxic Contaminants Summary Report (CBP, 2013) to assess the relative risk of contaminants to help inform	High	TCW						

policy and prevention strategies.								
2.Share approaches for assessing relative risk with the TCW so that they can consider options for mitigating impacts of toxic contaminants.	High							

Management Approach 5: Gather information on issues of emerging concern								
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3.Propose STAC workshops to address contaminant toxicity to pollinators, and microplastics.	Medium	TCW						
4.Better delineate potential impacts of UOG activities.	Low							