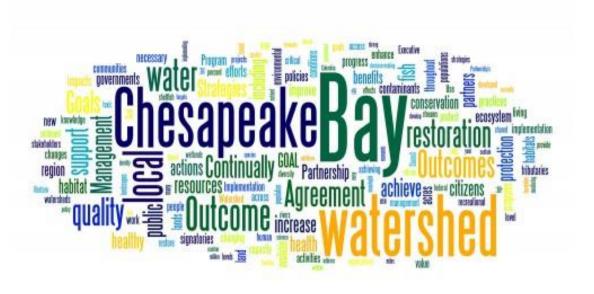


## Contaminant Research Outcome



Updating the Management Strategy and Work Plan

Scott Phillips, USGS and TCW Vice Chair

Water Quality Goal Team, Sept. 2018



## Contaminant Groups and Strategies

Widespread Severity and Occurrence

**Local Effects** 

**Mercury** 

**PCBs** 

Dioxin, Petroleum, Insecticides, Metals

PAHs

More information needed

Pesticides
Herbicides
Pharmaceuticals
Hshld/Personal Care
Flame Retardants
Biogenic Hormones

Policy/Prevention Strategies

Potential policy strategy: what else needed?.

Local impairments and TMDLs

Research Agenda:

Effects, occurrence, sources, Co-benefits



# Organizing Issues

- Fish and shellfish safer for human consumption;
- Contaminants degrading the health, and contributing to mortality, of fish and wildlife;
- Occurrence, concentrations and sources;
- Assess relative risk of contaminants, and options for mitigation, to inform policy and prevention strategies,
- Issues of emerging concern



## **Major Revisions**

- Keep framework of our 5 issues
- Added two new factors
- Major revisions to organizing issues:
  - -Mercury: data gathering and status
  - Co-occurrence of contaminants, nutrients, and sediment
  - Less focus on relative risk; more on options for management: WWTPs, Ag, and urban
  - Additional issues of emerging concern



## Implications for mitigation to inform policy and

prevention strategies

### What we learned

- Difficultly for relative risk; Interest in co-benefits
- Synthesis and implications
- Interaction with WQ GIT and teams

### **Revisions**

- Modify to focus on management implications
- More emphasis on mitigation studies
- Effectiveness of BMPs
- Use of CBP tools (CAST) and connect with source teams





### Issues of Emerging Concern

#### What we learned

- Microplastics
- UOGs

#### Revisions

- HABs
- PFASs
- Road Salts
- Coal ash

