

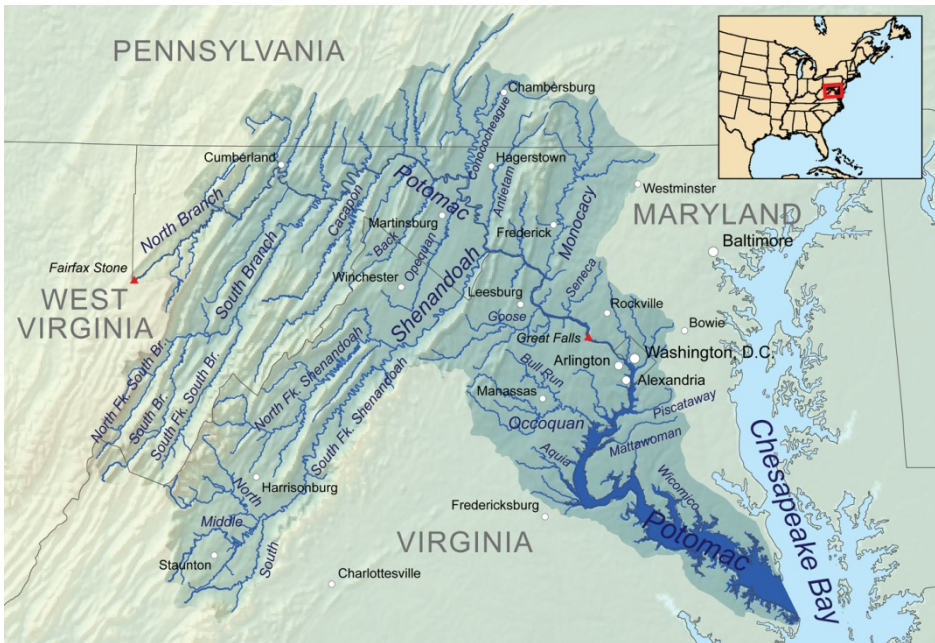
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One Region Moving Forward



Update on Potomac
Source Water
Assessment and
WRF 4581

Project Goals



- **Develop a methodology** for identifying and organizing possible sources of contamination that for regional drinking waters intakes - Source Water Assessment
- **Develop an information system** to facilitate methodology application and fast access to potential source of contamination data - Improve Response Capabilities.
- **Calibrate the methods** developed based on efforts by Greater Cincinnati Water Works and other partners.
- **Use tools to update Potomac Source Water Assessment.**

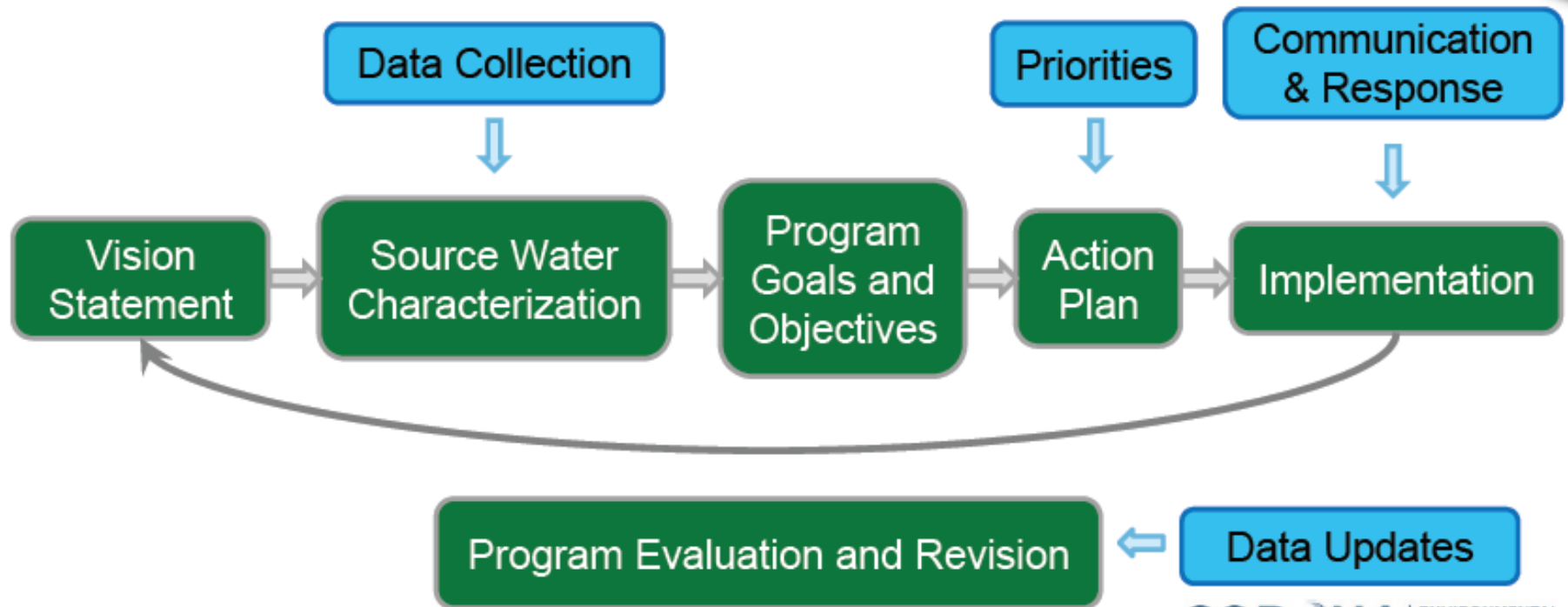
Project and Research Partners



- MWCOG
- ICPRB
- Fairfax Water
- Loudon Water
- Washington Aqueduct
- City of Rockville
- WSSC
- DC Water
- City of Leesburg
- PWCSA
- AWWA
- West Virginia American Water
- Greater Cincinnati Water Works
- Aqua America, Inc.
- Corona Env. Consulting



AWWA G300: Elements of a Source Water Protection Program



Completed Task



- Preliminary data sources list
- Participant scoping workshops
- Preliminary information system development
- Requirements workshops
- Methodology & information system development
- WaterRF 4581: Draft Report outline & PAC discussion

Potomac Basin Status



2016 Timeline

- Susceptibility Analysis - February
- Draft report – March
- Final report – April

In Progress

- Delineating zone of concern and drainage area
 - Proposed method agreed to
 - Mapping to determine area
- Collecting data

Next Steps

- Analyzing imagery – will begin now that zone of concern is known.
- Incorporating data into GIS
- Assessing data gaps
- Methodology evaluation

Challenges

Static Data

- How long is a POI relevant?
- Updating details and newly received information
- Time needed to update/collect/access information

Organization of Data

- Repeating a point to indicate different features
- Spatial variability in POIs for one facility
- Performing searches to find specific information

Accessing Important Details

- Storing important information
- Organizing details to make them easily accessible

Data Collection



To Date

- Known potential sources of contamination
- Above ground storage tanks
- Oil / gas wells, processing plants, storage sites, pipelines
- Mining operations
- Wastewater treatment plants, lift stations, CSOs / SSOs
- Industrial & point source discharges, toxic releases
- Hazardous waste sites (storage, handling, cleanup sites)
- Hazardous chemical storage & transportation routes
- Mobile sources: road, rail, barge
- Power plants
- Gas stations
- CAFOs
- Slurry ponds (power or agricultural)
- Leaking underground storage tanks

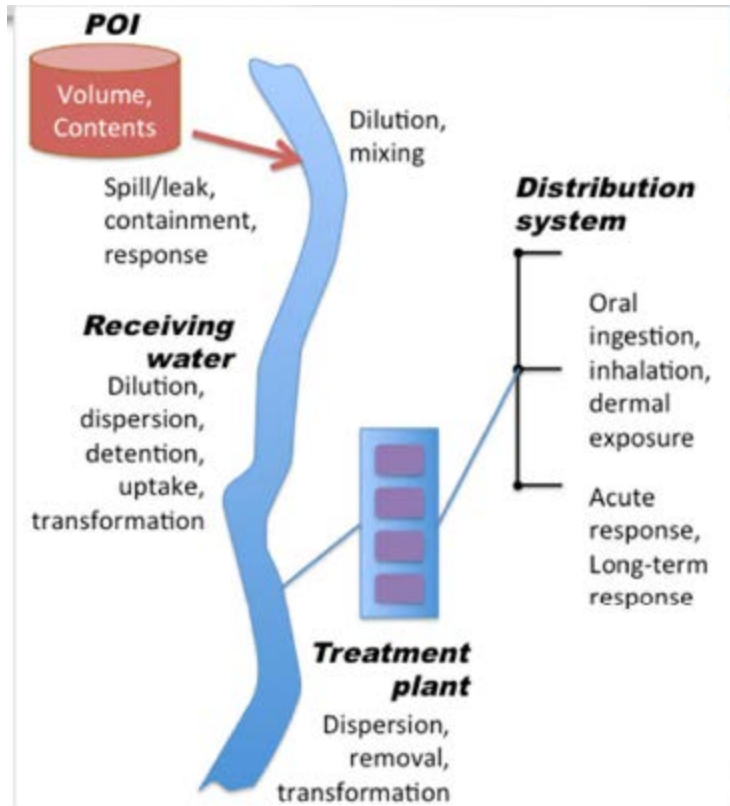
Questions: Data Priorities & Limitations



What data are most usable and relevant to the Potomac Basin drinking water community?

- Which data are priorities?
- Focus more on non-point sources?
- How do we fill in the gaps for tanks with unknown contents?
- How do we work with utilities to further what is known?
- Are there confidential data that should be pursued?
- Questions, comments or suggestions?

Suggestions for EPA and State/District Assistance



- Filling data gaps
- Identifying target data bases
- Contaminant verification: Treatability, toxicity, fate and transport.
 - The EPA data base only contains treatability information for 64 chemicals
 - EPA has several bench-scale treatability studies, pilot treatability, and technology updates that can be reviewed to supplement missing data.

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