



Overview

Regional Water Supply

Importance of the Potomac River

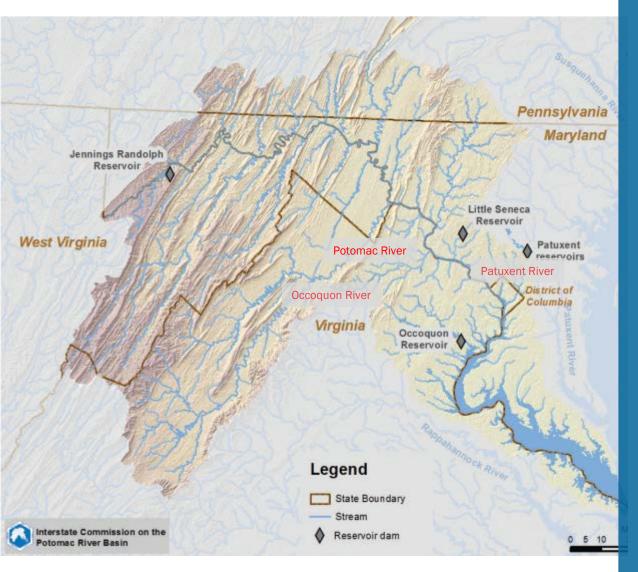
Potomac Sheen Discharge Event

 What happened, challenges, and next steps

Water Supply Resiliency

Planning and actions

Potomac River Basin Co-Op Utility Reservoirs



5 Million people in the Region rely on surface water for drinking water

- 78% Potomac
- 22% Occoquan and Patuxent

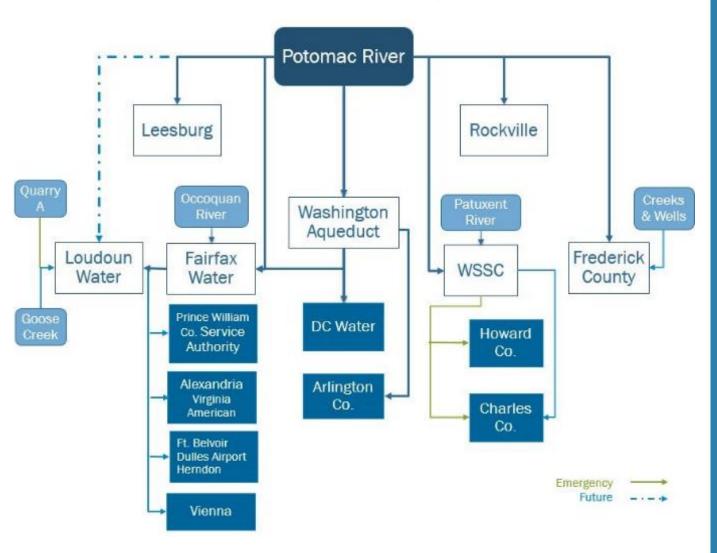
Primary Reservoirs

Daily Use

Patuxent - WSSC Occoquan - Fairfax Water

Regional Backup Supply
Jennings Randolph
Little Seneca

Regional Water Supply



Average Daily Demand 485 million gal/day

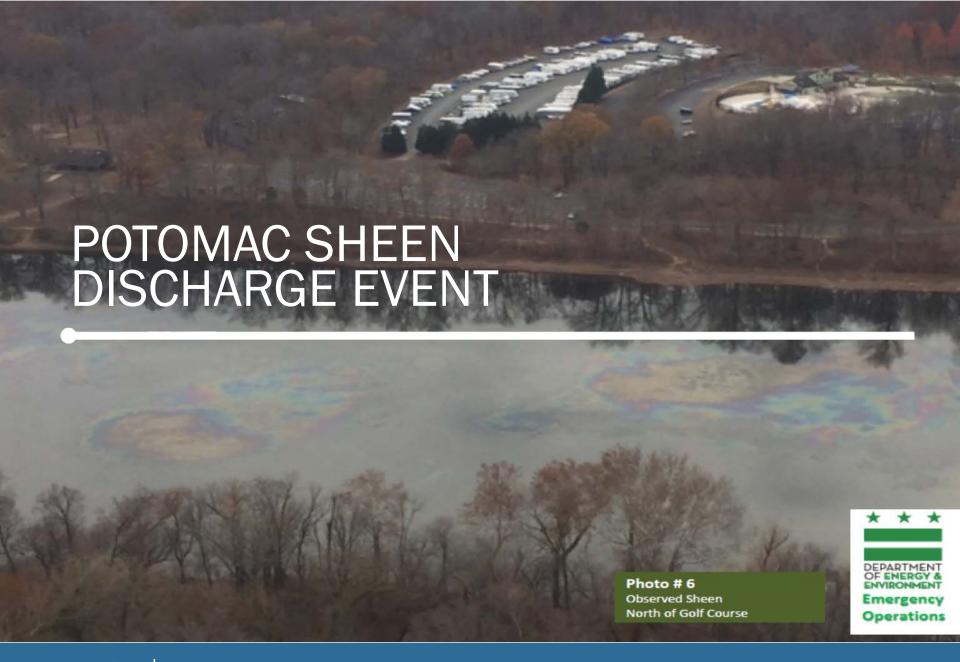
Water mains + 14,500 miles

Fire hydrants ≈ 114,000

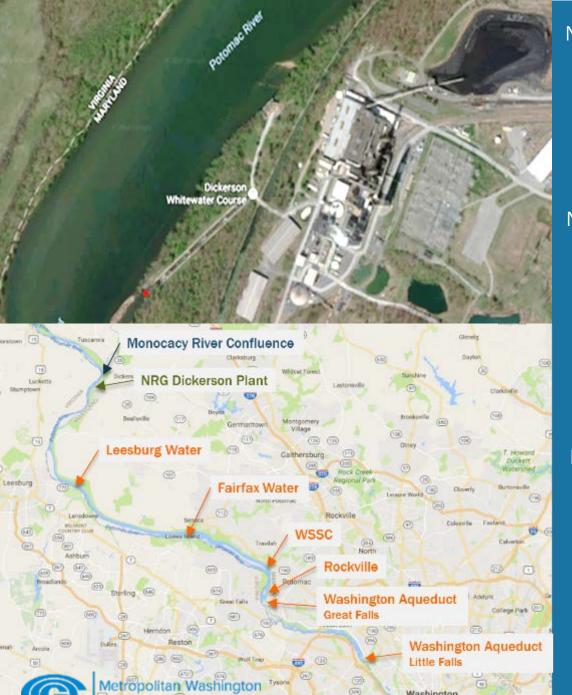
Metered accounts + 1,000,000

People served + 5,000,000









council of Governments

Nov 27 White's Ferry reports oil in the Potomac to NRG

ICPRB notifies utilities, state agencies

Utilities investigate and initiate protective actions

Nov 28 Unified Command initiated

- EPA Region 3 is lead
- Utilities not included

Utilities deploy booms

First COG regional utility call

WSSC and COG press releases

Dec 3 Boom deployment complete
Utilities survey shoreline
Unified Command continues
source search

EPA Mobile Command Post stand-up & PHILIS mobile lab deployed



November 29 – December 17

Utility water monitoring to ensure safety at water intakes Daily utility operation, laboratory and PIO coordination calls

December 5 - Late December

USCG identifies sheen - NRG

Dickerson turbine oil

NRG accepts responsibility

- Shuts down station
- Joins Unified Command
- Provides Oil Spill Response Organization (OSRO) cleanup

Federal demobilization, MDE assumes oversight

Utility Actions

Rapid Implementation

- ICPRB spill notification procedures early alert to water utilities
- Utility Emergency Response Plans actions initiated well ahead of formal Unified Command

Early, Ongoing Utility Communication & Coordination

 COG conference calls provided critical situation status and information throughout the spill response



Monitoring Technology

 Regional monitoring system performance provided real-time data

Challenges

Unified Command

- Drinking water protection objective
- Water utility presence

Situational Awareness

Information sharing across agencies and timeliness - Incident Action Plans, Situation Reports, Operational status

Operations

Identifying responsible party

Delays collection & recovery



Action Steps

Prioritize Drinking Water

Develop a Non-Tidal Potomac Spill Response Plan

- Primary objectives must include drinking water
- Ensure water utility role in Unified Command
- Emphasize data collection and information sharing
- Assess potential human health effects & communicate clearly

Water Supply Emergency & Drought Management Plans

- Reviews & reports
- Updates
- Exercises

Source Water Protection Partnerships & Collaboration

Prioritize

- Protecting Drinking Water
- Preventing spills



Long-term Cooperative Water Supply Planning & Management

Ongoing Cooperative regional monitoring of source &

finished water

Collaborative training, exercises & contingency

planning

Regional communication & coordination

1970 Water supply added to ICPRB scope

1981 Water Supply Coordination Agreement

1982 Drought Response Plan

1994/04/09 Water Supply Emergency Plan Updates

2006 Regional Monitoring Network

2007 Regional Redundancy Study

2009 Mutual AID Network – NCR WARN

2013 - 2016 Emergency water supply planning

Updated source water assessment

Regional water system resiliency study



Regional Resiliency Study

Evaluated potential failure events

- Large water main breaks
- Contamination
 - Potomac River
 - Reservoir
- Loss of one or more water treatment plants
- UASI Funded



Regional Resiliency Study



High benefit-cost ratio projects

- Interconnections
 - Between utilities
 - Within utility networks
- Off-river water storage

Cost estimate

- WSSC and DC Water interconnections ≈ \$32M
- Fairfax Water quarry storage
 ≈ \$46M
- Washington Aqueduct Travilah Quarry storage ≈ \$160 - \$300M



Regional Resiliency Study

Assess

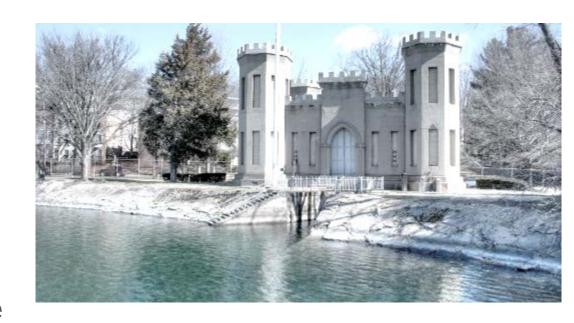
- Federal water main condition
- Water storage options
- Infrastructure improvements and source water protection needs

Evaluate

 Multiple benefits of Travilah Quarry relative to costs

Identify

Funding sources



For more information, please contact:

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