

Water Security Initiative Program Review

W-SMART 2011 International Workshop on Eco-Risks & Contingency Management

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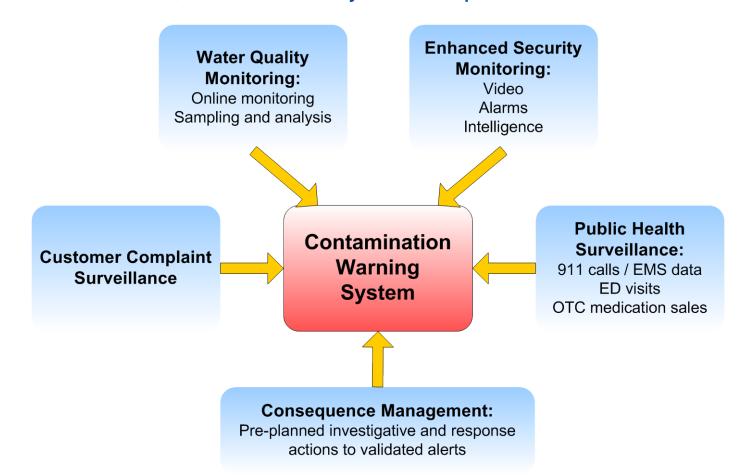
Background

- The Water Security initiative (WSi) is an Environmental Protection Agency program that addresses the risk of contamination of drinking water distribution systems
- The WSi comprises work in three areas:
 - 1. <u>Develop a conceptual design</u> for a contamination warning system (CWS) that achieves *timely detection* and *appropriate response* to drinking water contamination incidents to minimize public health and economic impacts;
 - **2.** <u>Demonstrate</u>, test, and evaluate the conceptual design in CWS <u>pilots</u> at drinking water utilities;
 - 3. <u>Issue practical guidance</u> and conduct outreach to promote voluntary national adoption of effective and sustainable drinking water CWSs.



1. Conceptual Design

- Enhanced *monitoring and surveillance components* collect, integrate, analyze, and communicate information.
- Consequence management is the response mechanism for validated alerts, as detected by the components.





2. Demonstration Pilot Timeline



United States Environmental Protection Agency

3. Published Guidance Documents

Products are available on the EPA WSi website:

Water.epa.gov/infrastructure/watersecurity/index.cfm

- 1. WaterSentinel System Architecture, EPA-817-D-05-003, December 2005
- 2. Water Security Initiative: Interim Guidance on Planning for Contamination Warning System Deployment, EPA-817-R07-005, May 2007
- 3. Water Security Initiative: Interim Guidance on Developing an Operational Strategy for Contamination Warning Systems, EPA-817-R-08-002, September 2008
- 4. Water Security Initiative: Interim Guidance on Developing Consequence Management Plans for Drinking Water Utilities, EPA-817-R-08-001, September 2008
- 5. Water Security Initiative: Cincinnati Pilot Post-Implementation System Status, EPA-817-R-08-004, September 2008

United States Environmental Protection

WSi Pilot Exercises

Potential Opportunities for W-SMART Full Scale Exercise Involvement

- San Francisco Public Utilities Commission
 - Table-top exercise: February, 2009
 - Functional Exercise: April 2010
 - Full Scale Exercise: February 2012
- New York Dept. of Environmental Protection
 - Seminars and workshops: 2010
 - Functional and Full Scale Exercises: 2011/2012
- Philadelphia Water Department
 - Seminars and workshops: 2010
 - Functional and Full Scale Exercises: 2011/2012
- Dallas Water Utilities
 - Seminars and workshops: 2010-2011
 - Functional and Full Scale Exercises: 2012



Thank you!

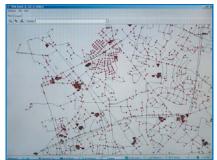












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