



Water Crisis Response Project

WV Emergency Management Performance Grant
(EMPG Phase II)

5 August 2015



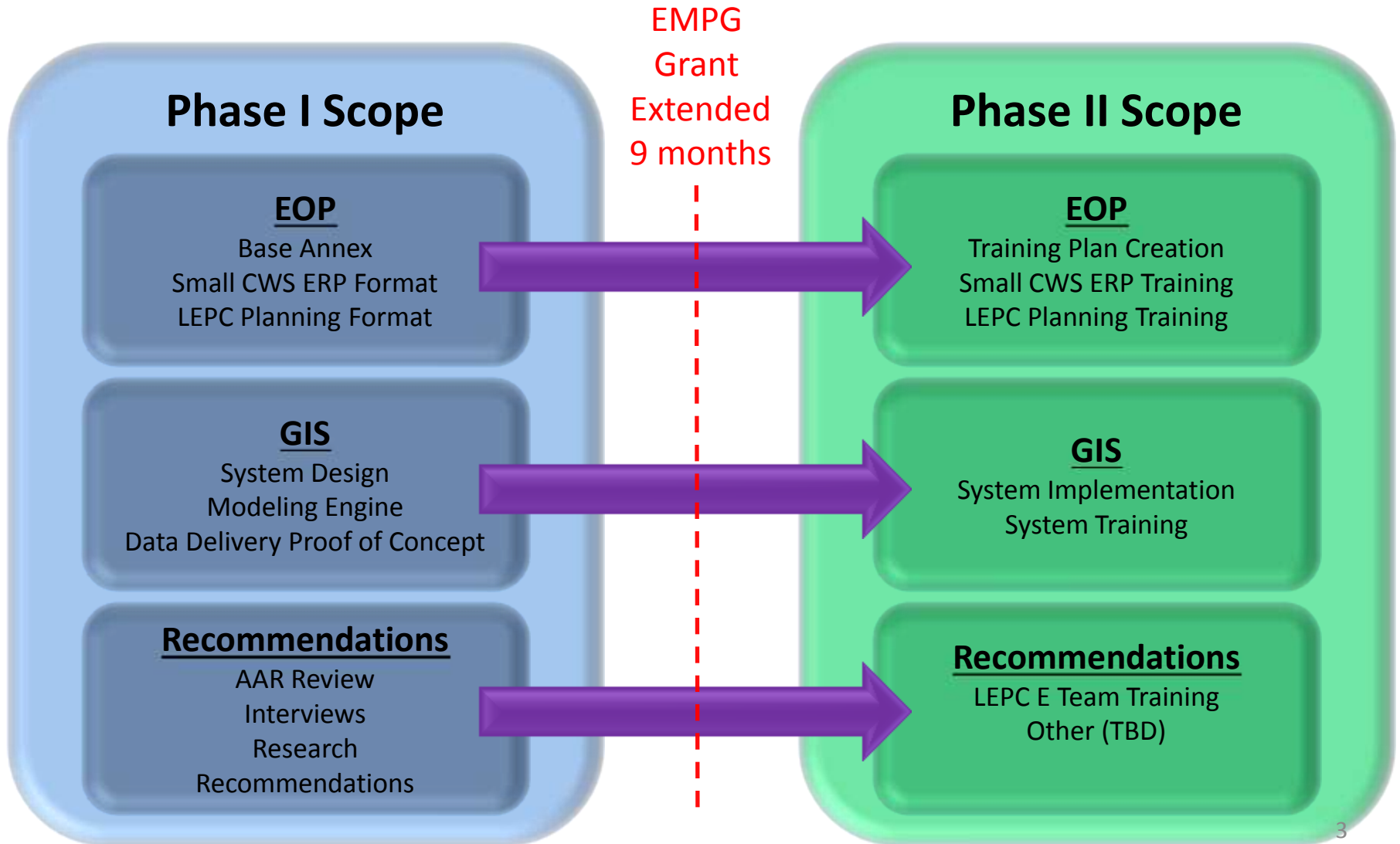
Mission

The Water Crisis Response Project Team:

- LEPC Response Plan Development and Implementation
- Emergency Response Plan for Small Community Water Systems Implementation
- Develop a Regional GIS system for tracking waterway contamination
- Develop WV Science Cell concept for EOP Annex



Regional Way Ahead





Review & Recommendation Sources

OPERATION ELK RIVER CHEMICAL SPILL
(JOC)
9 JANUARY – 24 FEBRUARY 2014



After Action Review
Emergency Response to
January 9, 2014
Freedom Industries Chemical Leak



First Hand

Interviews

- CDC ATSDR - Region 3 Director
- DEP
- DHHR
- Joint Staff

Meetings

- VOAD
- LEPC

Feedback Forms

Report to the Joint Committee on
Government and Finance
of the
West Virginia Legislature
By
The Public Water System Supply Study
Commission



Jimmy Gianato, Chairman

West Virginia Division of Homeland Security and Emergency Management
December 15, 2014



WV TAP FINAL REPORT

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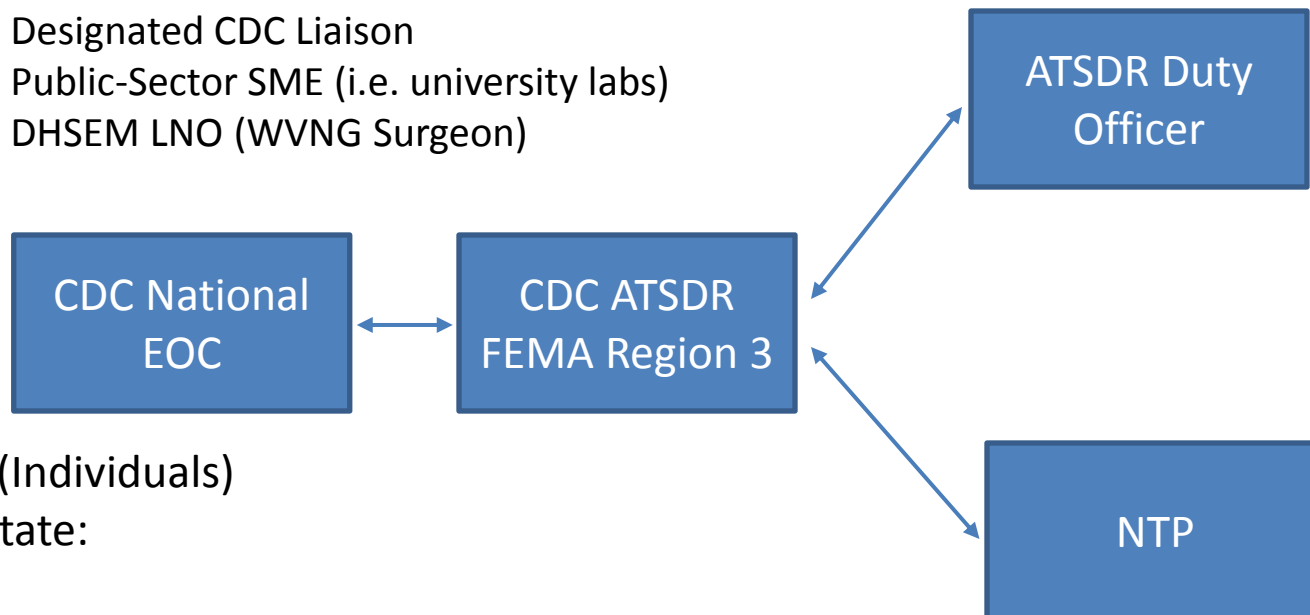
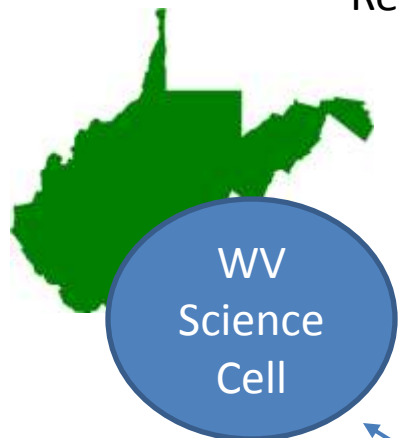
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Coordination between State and Federal Government

Recommended WV Science Cell Members:

- BPH
- DEP
- WVDA
- Designated CDC Liaison
- Public-Sector SME (i.e. university labs)
- DHSEM LNO (WVNG Surgeon)



CDC Program Resources (Individuals)
Potentially Available In-State:

- CEFO
- EIS
- PHAP
- PHPS
- PMF



WV Science Cell

BPH

Effects on Public Health

DEP

Effects on the Environment

WVDA

Effects on Agriculture

CDC Liaison

Connection to CDC

Public Sector SME

Specialized Expertise

Private Sector SME

Specialized Expertise

DHSEM LNO

Tie-in to Operational Response

Others

Other Federal Liaisons
Other Experts

Tasks

- Interface with State Leadership
- Interface with CWS Engineers
- Sampling Guidance and Assistance
- Testing Guidance and Assistance
- Data Management and Tracking
- Interface with Federal Counterparts
- Expert Technical Advice Regarding the Effects of Disasters on:
 - * Public Health *
 - * The Environment *
 - * Agriculture *
 - * Infrastructure *
 - * Veterinary *



GIS:

Incident Command Tool for Drinking Water Protection (ICWater) Overview

- Designed to model drinking water contamination using USGS real-time flow information for a rapid, effective emergency response
- ArcGIS desktop extension
- Developed under government contract for US Forestry Service
- DTRA currently maintains, trains, and distributes the software to federal, state, and local users

- **For more information:**

<http://eh2o.saic.com/SectionProjects/Transport/Surface/ICWater/ICWater.aspx>

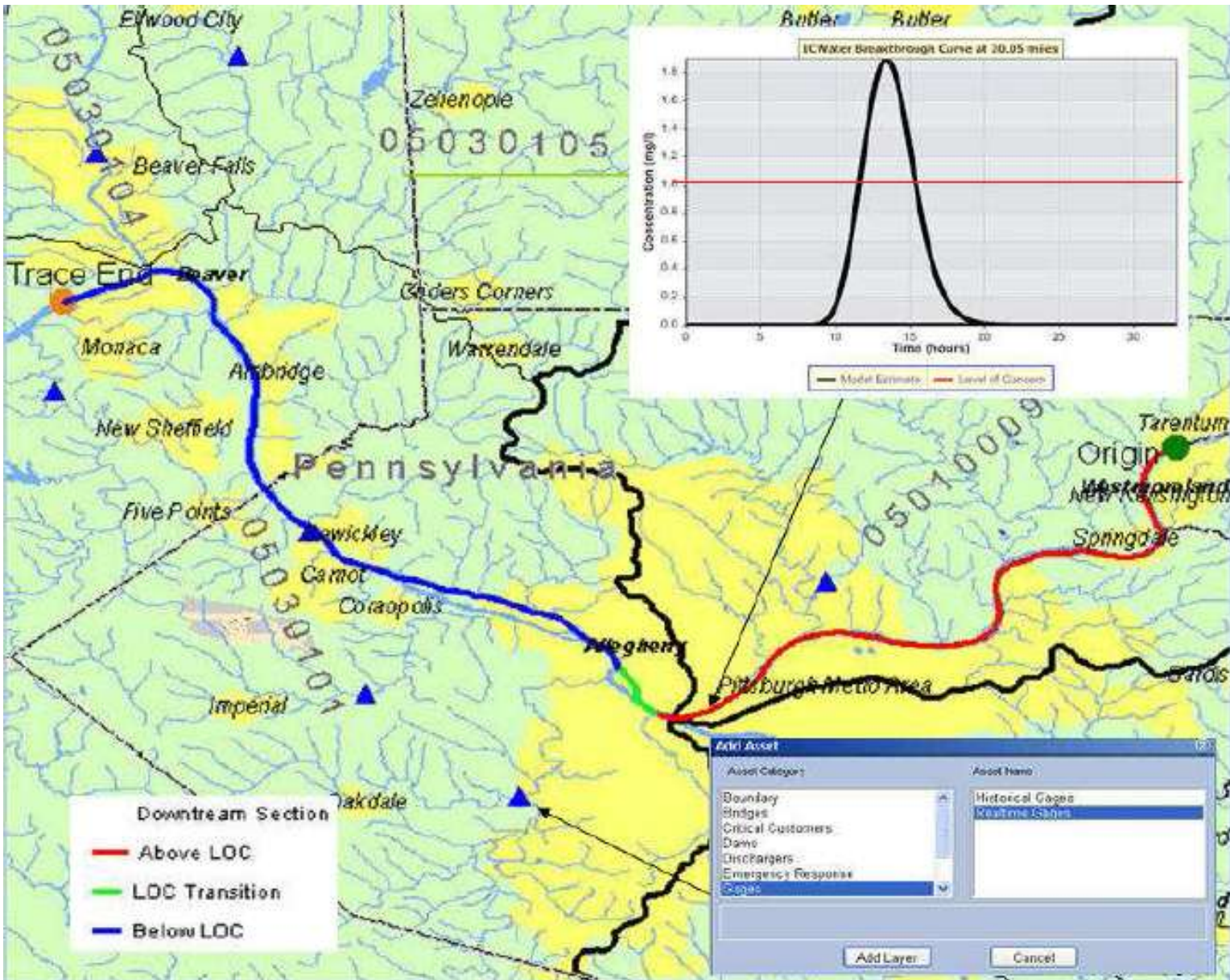
http://www.stream.fs.fed.us/news/streamnt/pdf/SN_01_07.pdf

<http://www.fs.fed.us/pnw/news/2006/01/ICwater.shtml>

<http://www.aip.org/dbis/stories/2006/15252.html>



ICWater Overview





EMPG WATER CRISIS RESPONSE PHASE II



Statement of Work:

Implement CWS ERP, LEPC EOP, GIS server integration and implementation, LEPC & CWS ERP training, WV Science Cell Development. Develop GIS application for water contamination response using HSIN and/or WVCOP.

Phase II Objectives

1
CWS ERP

2
LEPC EOP

3
LEPC / CWS ERP
Information Collection
& Plan Development

4
**GIS
Development**

5
**WV Science Cell
Development**

6
**Table Top
Exercise**

Phase II Milestones

MILESTONE 1.1:
Review with DHHR

MILESTONE 1.2:
BETA test format
with WVAM

MILESTONE 1.3:
Statewide
Implementation

MILESTONE 2.1:
Create Fillable Form
& Instructions set

MILESTONE 2.2:
BETA Test format
with Cabell County
LEPC

MILESTONE 2.3:
Statewide
Implementation

MILESTONE 3.1:
Develop Regional
Plan

MILESTONE 3.2:
Hire / Train Support
Staff

MILESTONE 3.3:
Conduct Training by
DHSEM Regions

MILESTONE 4.1:
Identify Server
Requirements /
Acquisition

MILESTONE 4.2:
GIS System
Development /
Fielding

MILESTONE 4.3:
Field Testing &
Demonstration

MILESTONE 5.1:
Concept
Development

MILESTONE 5.2:
Review by State
Leadership

MILESTONE 5.3:
Annex Development
for updated State
EOP

MILESTONE 6.1:
Develop Discussion
Based Exercise

MILESTONE 6.2:
Develop Participant
List

MILESTONE 6.3:
Exercise



LEPC Regional Map EMPG PHASE II



Two Training Sites in Each WVDHSEM Region

