

Developing Tools to Facilitate Field Data Collection Activities



**R5/R7 RRT Meeting
St. Louis, MO
November 17, 2010**

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
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Tools

- **GPS**
- **GeoSetter**
- **Google Earth**
- **CapturX Pens**



Background

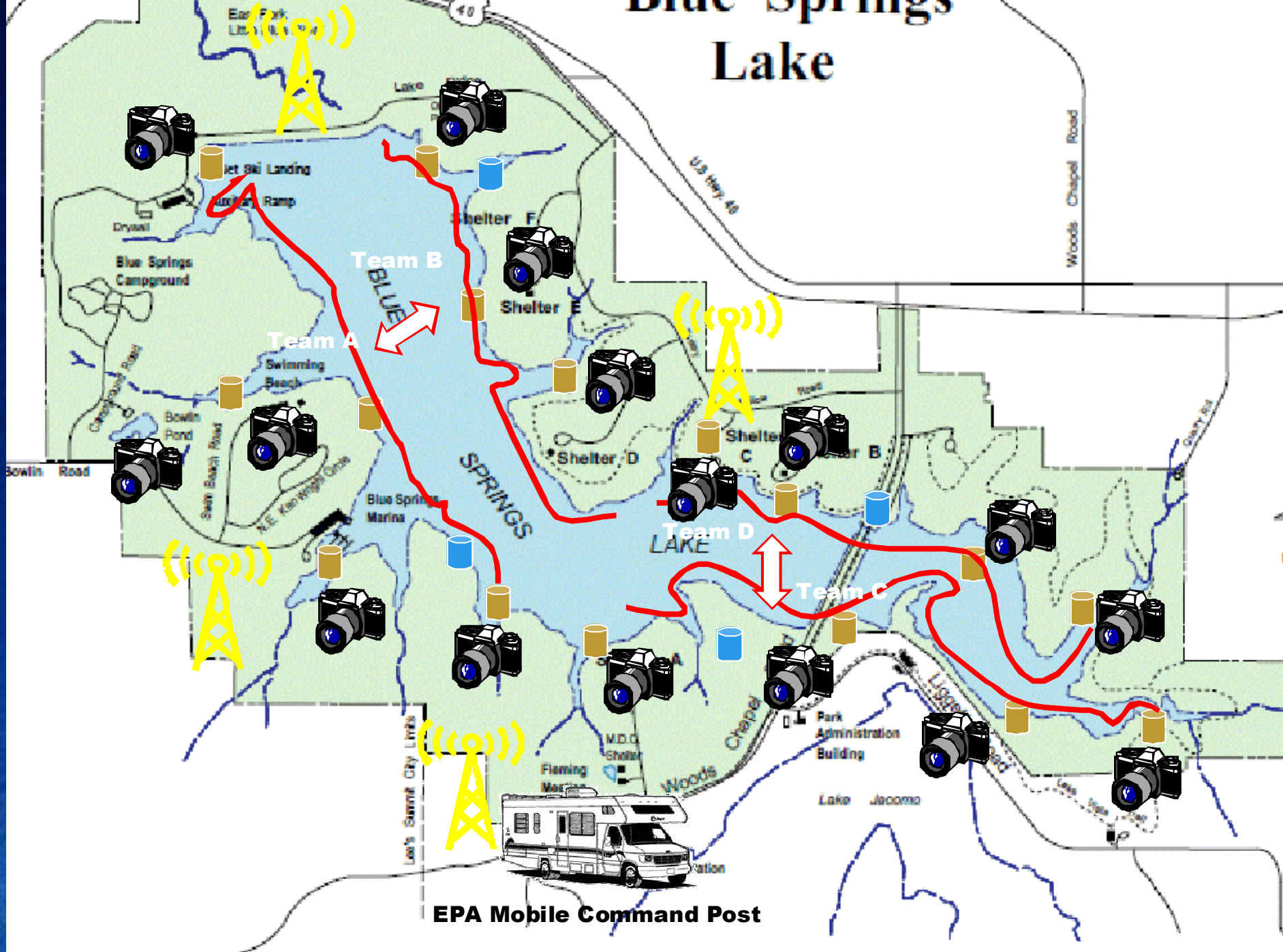
- **Missouri and Iowa Flood responses of 2008 prompted re-evaluation of field transfer of field data**
- **Water Operations Exercise (Blue Springs Lake), spring 2009**



Water Ops Exercise

- **tools to utilize**
 - **geo-tagging photos**
 - **collecting/transmitting gps route files**
 - **collecting/transmitting recon/recovery data**
 - **field sheets/MS Word form**
 - **Excel spreadsheets**
 - **MS Access**
 - **ArcPad**
 - **Google Forms**
- **VHF radios will be used for all exercise comms**

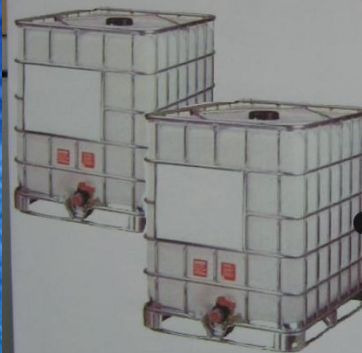
Blue Springs Lake



Posters

- Posters will be placed on shore with relevant information to be recorded and reported to MCP

One 500-gallon white steel propane tank; contents undetermined

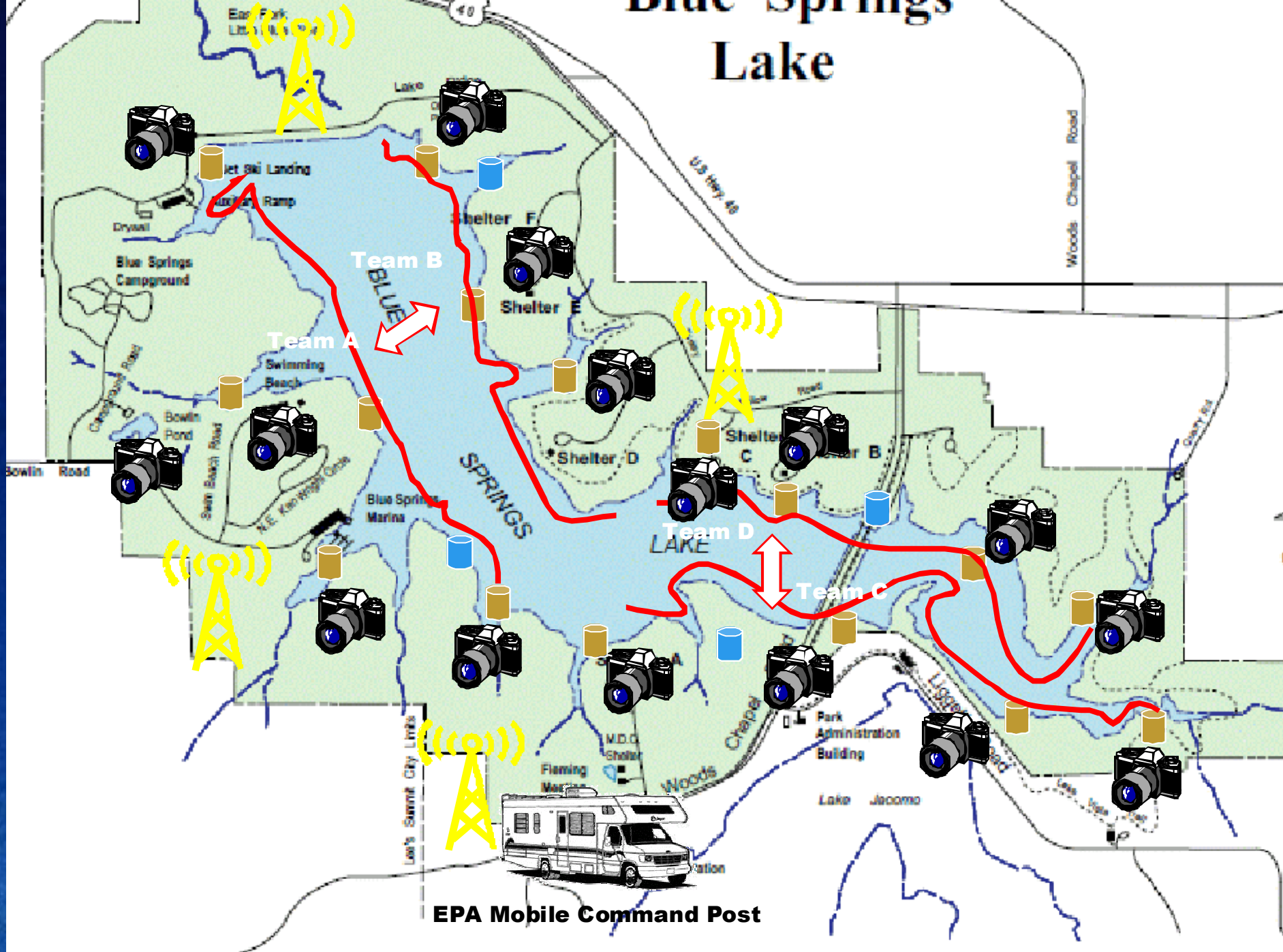


Two 265-gallon white plastic totes each approximately 1/2 full liquid

Multiple smaller containers mixed in 50-yard long debris field (5-gallon buckets, 1-gallon jugs, 1-quart oil containers, etc.)

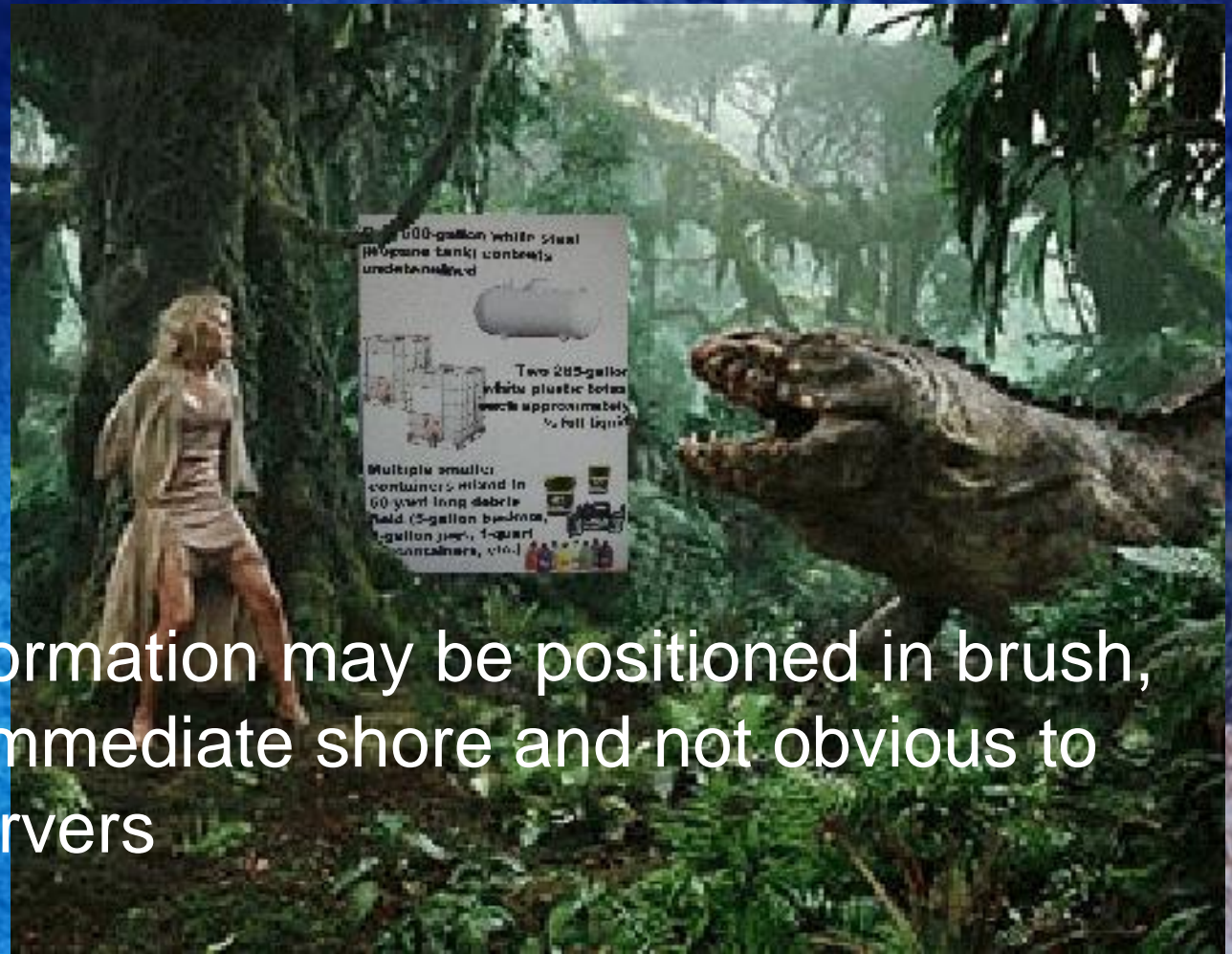


Blue Springs Lake



EPA Mobile Command Post

Posters On Shore



- Some information may be positioned in brush, away from immediate shore and not obvious to casual observers

Data Collection Tools

- Pre-exercise training was offered over last 2 weeks and will be reviewed again Tuesday am:
 - Geo-Setter photo tagging w/ GPS track recording
 - ArcPad (limited to 5 licenses)
 - Google forms
 - MS Access
 - MS Excel
 - Field Sheet forms

Data Collection Tools

- Pre-exercise training was offered over last 2 weeks and will be reviewed again Tuesday am:
 - Geo-Setter photo tagging w/ GPS track recording ✓
 - ArcPad (limited to 5 licenses) ✗
 - Google forms ✗
 - MS Access ✓
 - MS Excel ✗
 - Field Sheet forms ✓
 - *Capturx Pen* ✓



Overview: Viewing Ink, Data

Toggle between ink and converted data

- all the benefits of converted, formatted, searchable data
- while still able to view, print, store original handwriting

The screenshot illustrates the 'Show Ink' feature in a data capture application. A red circle highlights the 'Show Ink' button in the top right corner of the application window. Below this, two side-by-side spreadsheets demonstrate the toggle between converted data and original handwriting.

Left Spreadsheet (Converted Data):

Question	Rating
Did the presentation topic meet your expectations based on the description?	1.00
Did the material cover all the subjects?	2.00
Was the material clear?	3.00
How effective was the presenter in communicating the material?	3.00
Would you recommend this session to a colleague?	4.00

Right Spreadsheet (Original Handwriting):

Question	Answer
Did the presentation topic meet your expectations based on the description?	1
Did the material cover all the subjects?	2
Was the material clear?	3
How effective was the presenter in communicating the material?	3
Would you recommend this session to a colleague?	4

Additional feedback text: "The slides were difficult to follow. The A/C was loud so I couldn't hear very well"

Blue arrows indicate the toggle between the converted data view (left) and the original handwriting view (right).

Review of epaosc.net Web Sites

- Missouri 2008 Flood Response
- EPA Blue Springs Lake Water Ops Exercise
- EPA/MDNR (Water) Table Rock Lake Exercise
- Iowa 2010 Flood Recon and Recovery
- EPA R4 Deepwater Horizon

For additional info or access:
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The End

