



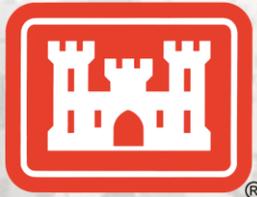
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MVD All Hazards Briefing Geospatial Tools

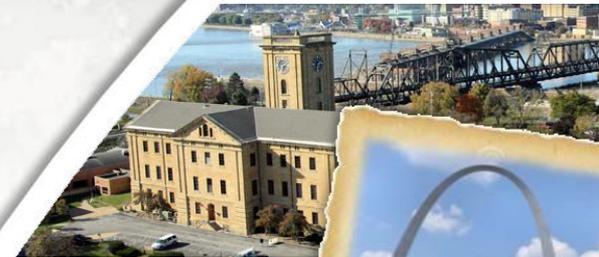
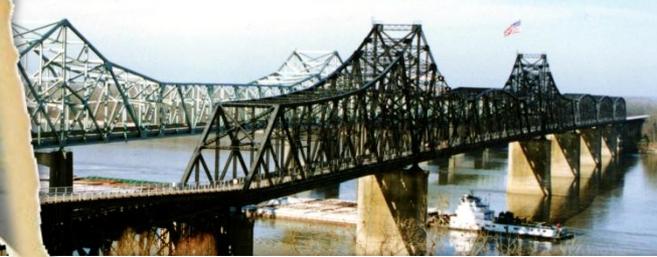
MVD Geospatial Coordinator

Mississippi Valley Division

17 June 2015



US Army Corps of Engineers
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Geospatial Tools

- MVD EGIS PDT
- National GIS Cadre – 4 Teams
- CorpsMap and other Web Viewers
- SimSuite – Forecast Modeling and Visualization
- MMC – Inundation Modeling
- MVS Photogrammetric CTX
- FreeBoard – All Hazards tracking and reporting
- UAS Systems



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MVD EGIS Information Portal

General Emergency Mgmt.

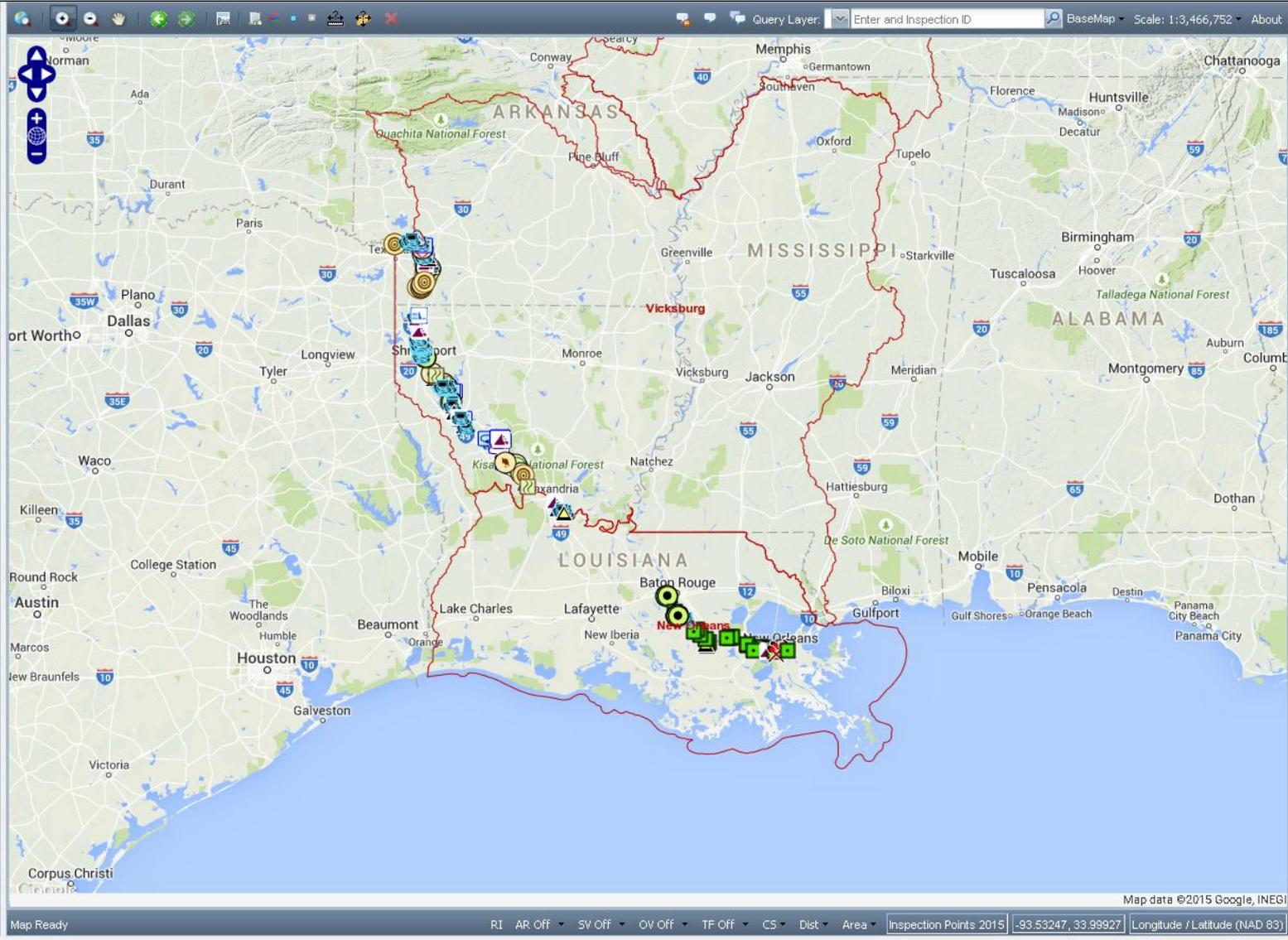
MVD CorpsMap2

Layers

Find a Layer

- Current Operations
 - Inspection Points 2015
 - Emergency Measures (2015)
 - MVD Staging Areas
 - June 7 Forecast Crest - 37.0 Shreveport
- Emergency Operations (Historic)
 - Flood Events
 - All Inspection Points
 - River Engineering
 - National Levee Database
 - MS River Levees
 - Surveys
 - Navigation
 - USACE
 - Federal
 - Political
 - FEMA Data
 - Streamgages - NOAA
 - Weather Data
 - Geodetic
 - ESRI ArcOnline Services

Legend Search Print Map

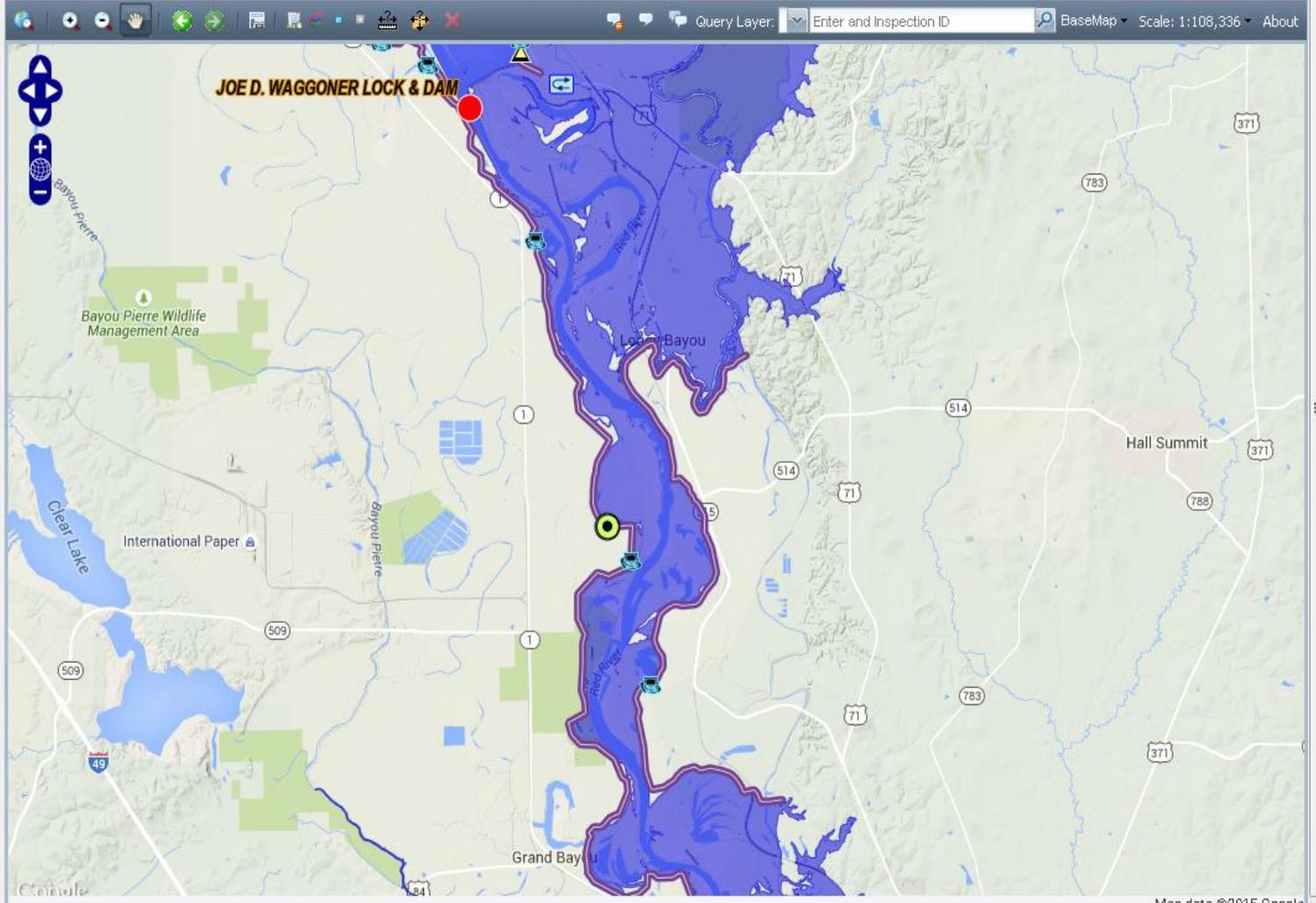


MVD EGIS Information Portal

General Emergency Mgmt.

MVD CorpsMap2

- Layers
- Find a Layer
- Current Operations
 - Inspection Points 2015
 - Emergency Measures (2015)
 - MVD Staging Areas
 - June 7 Forecast Crest - 37.0 Shreveport
 - Emergency Operations (Historic)
 - River Engineering
 - Existing Stone Paving
 - Existing ACM Revetment
 - Existing Trenchfill Revetment
 - Existing Bendway Weirs
 - Existing Dikes
 - National Levee Database
 - Levee Centerline
 - Gravity Drain
 - Floodwall
 - Levee Station Marker
 - Levee Station Marker(MVK)
 - Levee Station NLD
 - Pump Station
 - Levee Slides
 - MS River Levees
 - Surveys
 - Navigation
 - Marine Traffic
 - Lock Status
 - NID Dams USACE
 - NID Dams Non-USACE
 - USACE
 - Federal



Query Layer: Enter and Inspection ID BaseMap Scale: 1:108,336 About

Division Code	CEMVD
District Code	CEMVK
Inspection Title/Event Name	Red River Flood 2015
Inspection Area	Middle Red River Sector
Inspection Sector	Middle Red River Sector
Site ID	MRRS15Jun09-002
Feature	Levee Toe (L/S)
Deficiency	Sand Boils
Coordinate	-93°27'26.27" 32°9'32.64"
Inspection Date	06/09/2015 17:04
Inspection Remarks	.75
Initial Freeboard Height Ft	-
Map Label	RRDD boil
Priority Level	-
Assessment Type	Field Inspection
Remediation Type	-
Gage Name	-
Usace Code	-
Gage Reading	-
Station	345+00.00 RRDD
Seepage Flow Description	Cloudy
Seepage Flow Rate	Open Faucet
Sandboil Count	1
Avg Sandboil Diameter Inches	-
Avg Sandboil Throat Width Inches	-
Avg Sandboil Height Inches	-
Closeout Date	-
Resolution Date	-

FREEBOARD DETAILED INSPECTION REPORT

[View Seepage/Sandboil History](#)

Inspection Monitoring Report

no data found

Engineering Recommendations

no data found

Inspection Media

1 - 3

 <p>06/09/2015 17:05</p> <p>Signature</p> <p>CEMVK</p>	 <p>06/09/2015 16:57</p> <p>rdd boil photo 2</p> <p>CEMVK</p>	 <p>06/09/2015 16:56</p> <p>rdd boil</p> <p>CEMVK</p>
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Current UAS Systems

- MVN and MVS have fixed-wing systems in place
 - MVN – eBee SenseFly – 1.5 lb & DJI Phantom Copter
 - MVS - Altavian Nova
- MVN also has a Quad Copter (DJI Phantom)
- Extensive documentation and approval required to acquire and become operational
- Corps of Engineers EC 1110-1-106 outlines USACE guidance for acquisition and operations



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UAS Requirements

- Approval from USACE UAV PDT to Purchase
- AED – Army Aviation Engineering Directorate
 - ▶ AWR - Airworthiness Release – Approves the aircraft, Risk Assessment/SOPs, and operating region.
- FAA – Federal Aviation Administration
 - ▶ COA - Certificate of Authorization – Site level authorization
 - ▶ COA - Approval response times during emergencies vary, generally very fast during Emergency Ops.

NOTAM – Notice to Airmen posted by USACE



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MVD UAV Systems

New Orleans



St Louis



U.S. ARMY

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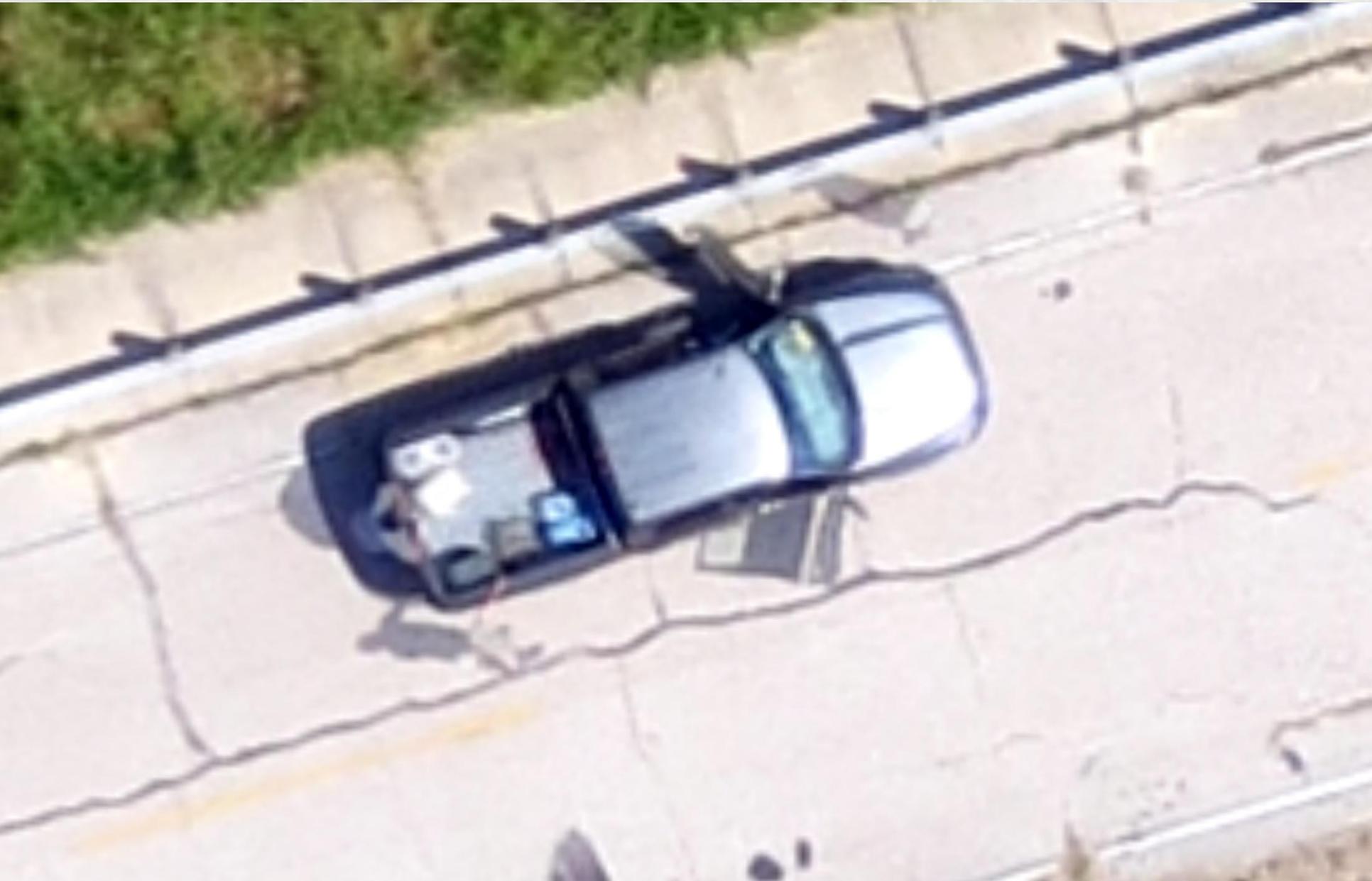


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UAS Photo - Joe Pool Lake - SWF



UAS Photo - Joe Pool Lake - SWF



Questions ?



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