# GEOSPATIAL SECTION OVERVIEW

LEVERAGING TECHNOLOGY AND RESOURCES FOR QUALITY RESULTS

Earnest M. McCarty, Jr. (Mack)

Professional Land Surveyor / Certified Federal Surveyor

29 August 2017





#### LRH GEOSPATIAL TEAM

## Earnest M. McCarty, Jr. (Mack) Professional Land Surveyor / Certified Federal Surveyor

#### Staff Resources

6 Licensed Geospatial Professionals (PE, PS, GIS-P, CFEDS)

3 Certified FAA-107 UAS Pilots

We can field 5 three man survey crews or 8 two-man crews all with experienced staff if needed.

Additional Information can be found at:

https://gis.lrh.usace.army.mil/





### LRH GEOSPATIAL TEAM SERVICES AND DELIVERABLES

#### SERVICES:

- BOUNDARY
- TOPOGRAPHIC
- DEFORMATION
- LIDAR SCANNING (Mobile and Terrestrial)
- AERIAL IMAGERY
- AERIAL MAPPING
- CONTROL SURVEYS
- DISPACMENT MONITORING

#### DELIVERABLES:

- BOUNDARY MAPS
- CONTOUR MAPPING
- DEFORMATION REPORTS
- AERIAL VIDEO (INCLUDING LIVE FEED)
- ORTHOPHOTO
- VOLUME CALCULATION
- AERIAL CROSSING ELEVATIONS





#### LRH COVERAGE





# LRH GEOSPATIAL TEAM WORK FOR OTHERS PROGRAM (WFO / ISS)

Long Standing History of Support Others

- LRD
  - Routinely work with sister districts to complete Geospatial Projects
- SWF
  - Grapevine Lake Deformation Survey
- SPA
  - Completed Instrumentation & Deformation at five projects recently.
- SPK
  - Boundary Surveys at Various Projects
  - Dam Safety Survey at Isabella Lake





# LRH GEOSPATIAL TEAM WORK FOR OTHERS PROGRAM (WFO / ISS)

Long Standing History of Support Others

- Department of Energy
  - LRH preformed projects across the nation for DOE
- US Forest Service
  - Wayne National Forest
  - Mongahela National Forest
- Dam Safety Production Center Mandatory Center of Expertise – Huntington, WV
  - Working directly with National Dam Safety teams on process and procedures for surveying and geospatial project.





### ADVANTAGES TO UTILIZING USACE STAFF FOR PROJECTS RATHER THAN CONTRACTING.

- Project Turnaround
  - In immediate situations projects can be turned around in the typical time a task order or contract can be issued.
- Project Flexibility
  - Ability to modify and adapt project scopes on the fly in the field without the use of COR or additional fees.
- Project Budget
  - Project funds required for Contracting, Contract
     Management and COR functions can be redirected.
  - Mobilization of fully functional crew to anywhere in the nation can be completed for \$10K or less.





