

Update of projects in WV Eastern Panhandle

- Berkeley County Water Resources Assessment
- Jefferson County Water Resources Assessment
- Morgan County Water Resources Assessment

Berkeley County Water Resources Assessment

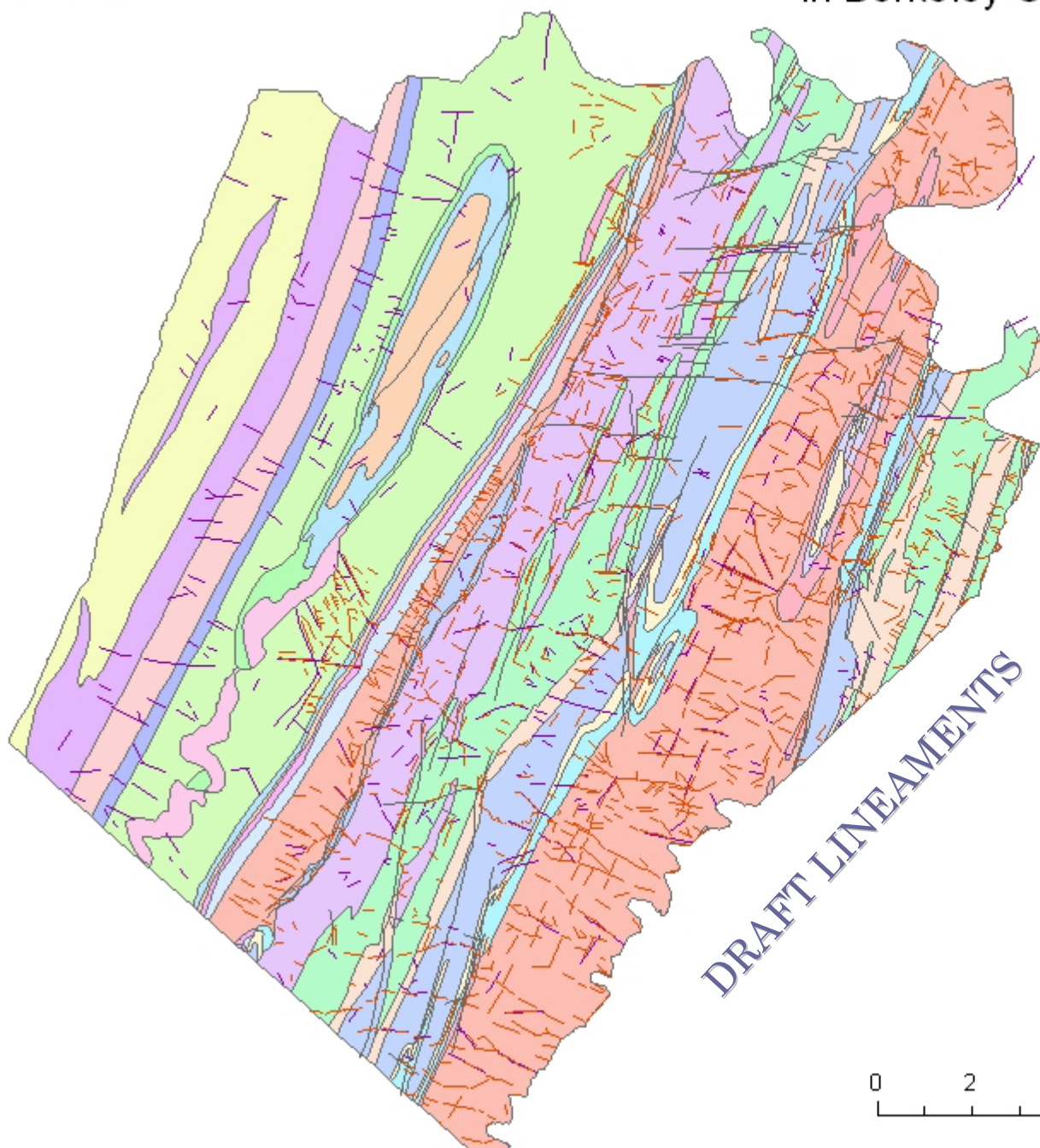
- Aquifer characterization
 - 160 pumping tests completed
 - Analysis of pumping tests begun
 - Pursuing locations for final round of pumping tests



Berkeley County Water Resources Assessment

- Fracture-trace delineation complete
 - Identified significantly more lineaments than previously identified
 - Identified many previously identified features
 - Some previously identified features not identified
 - Ground-truthing needed to determine if surface expressions have been modified

Preliminary Lineaments mapped by the USGS in Berkeley County in 2003



EXPLANATION

- USGS Lineaments
- Fractures from Hobbs
- Faults from 1968 Geology of WV

Geology of Berkeley County

MAP_UNIT

- Cc
- Ce
- Db
- Dbh
- Dch
- Dhs
- Dmn
- Dmt
- Dohl
- Mp
- Ob
- Obps
- Obrr
- Obs
- Om
- Omc
- Osp
- Otbr
- Qal
- Sme
- St
- Stw

0 2 4 8 Miles

Jefferson County Water Resources Assessment

- Proposal to do county-wide fracture-trace delineation and analysis of aquifer hydraulic properties at 200 sites has been endorsed by Jefferson County Water Advisory Committee and will be presented to County Commission



Morgan County Water Resources Assessment

- Proposal presented to Eastern Panhandle Conservation District to characterize aquifer in eastern Morgan County
- Hydraulic properties, major-ion chemistry, nutrients, and bacteria at 90 sites
- Trace metals and pesticides at 15 sites

In Summary

When completed, these three projects, in combination with the Leetown Project, will provide characterization of a significant amount of the karst aquifer in West Virginia's eastern panhandle

