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## **General Observations**

- Hydraulic gradient in shallow groundwater ~180 degrees.
- Rapid water level response to overland flow events.
- Direct connection between sinkhole and EAR-1 (i.e., fish & tadpoles).



# **\$EPA**

### EAR Site Characterization and Monitoring Network

- Blue River Stream Gages (USGS)
- Far & Far Field ERI survey
- Weather Stations & Precip collectors
- GW/SW sampling
- SW autosamplers
- Deep & intermediate wells (Q4FY21)
- Weirs (Q4FY21)











Electrical Resistivity Imaging (ERI) and

**Transient ERI Surveys** 

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# **\$EPA**

- ERI Data Density
  - 5:1 ratio (Length:Depth)
  - 28 surveys
  - ~2,600 data points / survey
  - >72,000 total data points
- Transient ERI
  - Stationary electrodes
  - Repeated measurements

Precar Site ERI Lines

Immer electrode spacing lines (-250 m long)

Immer ele



















# **SEPA**

### Tasks To Be Completed

- Install and log deep wells (10/2021).
- Install additional surface water autosamplers (BMS, SCS).
- Expand TERI and ERI survey network near and far field.
- Incorporate microbial sampling.
- Continue GW/SW sampling.
- Install pore water samplers.
- Assist OSU/ECU with tracer studies.



