Geotechnical Ground Truthing
Sink Hole in Leaking Retention Pond

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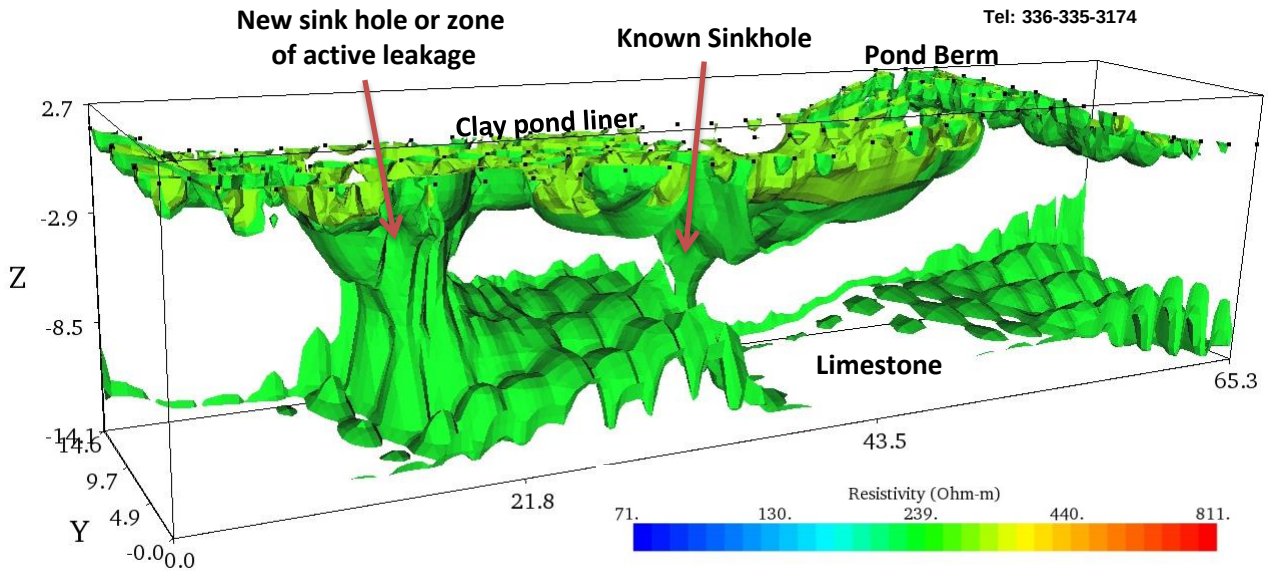
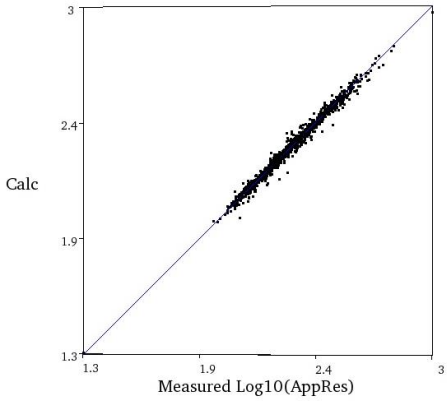


SuperStingR8 and resistivity cable

Location of known sinkhole



Iteration No. 4 RMS = 4.1% L2=0.7

Objective: Map the extent of a sink hole and locate zones where water is leaking from a pond
Date: January 20, 2015
Site: Retention pond and sink hole near Lenoir City, Tennessee, USA
Instrument: SuperStingR8 with 112 total electrodes arranged in a 4x28 3D grid with 16x8ft spacing
Software: EarthImager 3DCL with finite element 3D terrain correction
Results: The subsurface extent of a known sink hole as well as an unknown sink hole or zone of active leakage were imaged in 3D. Both features extend through a surface clay layer and into the underlying higher porosity limestone.

Courtesy of Eric Cross at Pyramid Environmental and Engineering P.C.