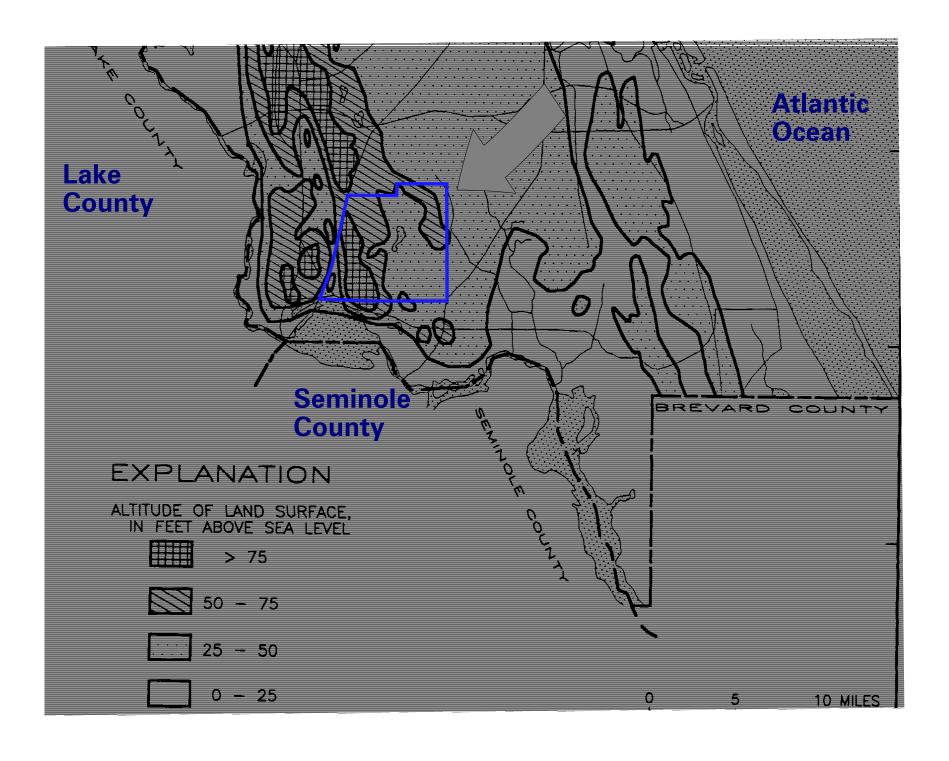
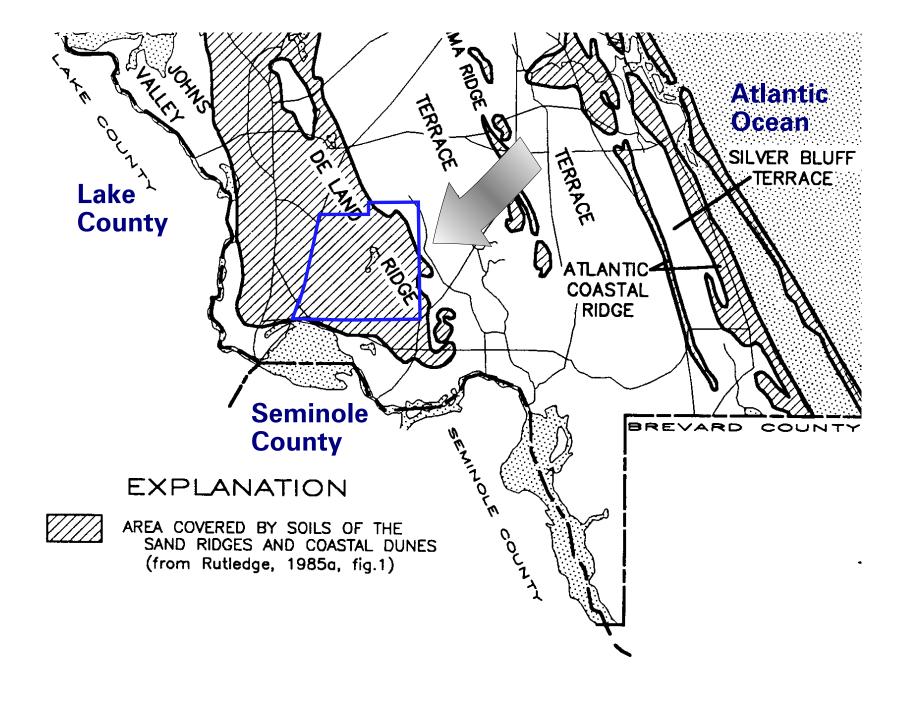
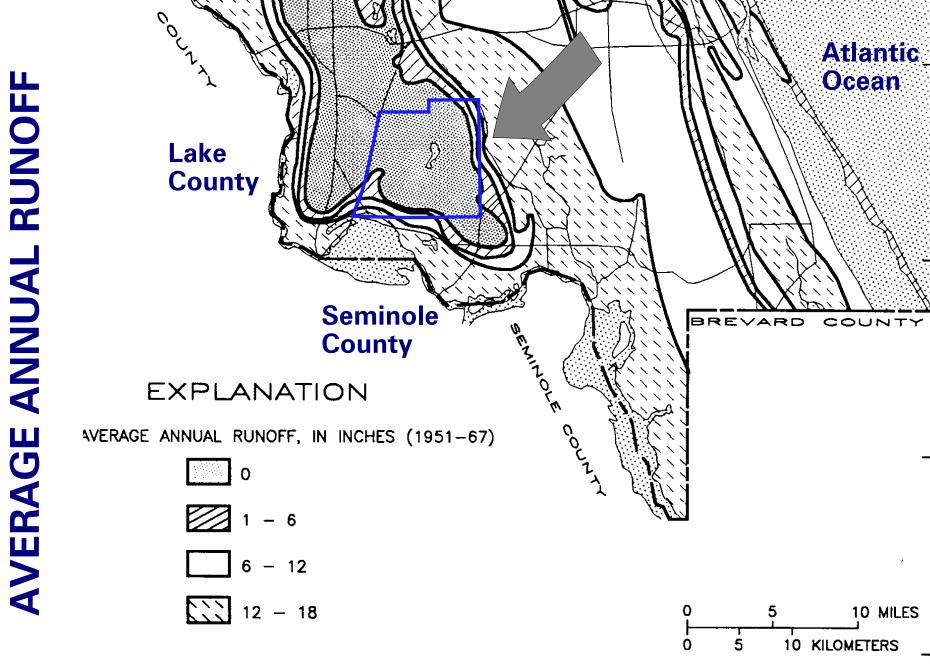
City of Deltona Stormwater Management Master Plan

Hydro-geotechnical Considerations for Modeling Stormwater Management Systems in Deltona

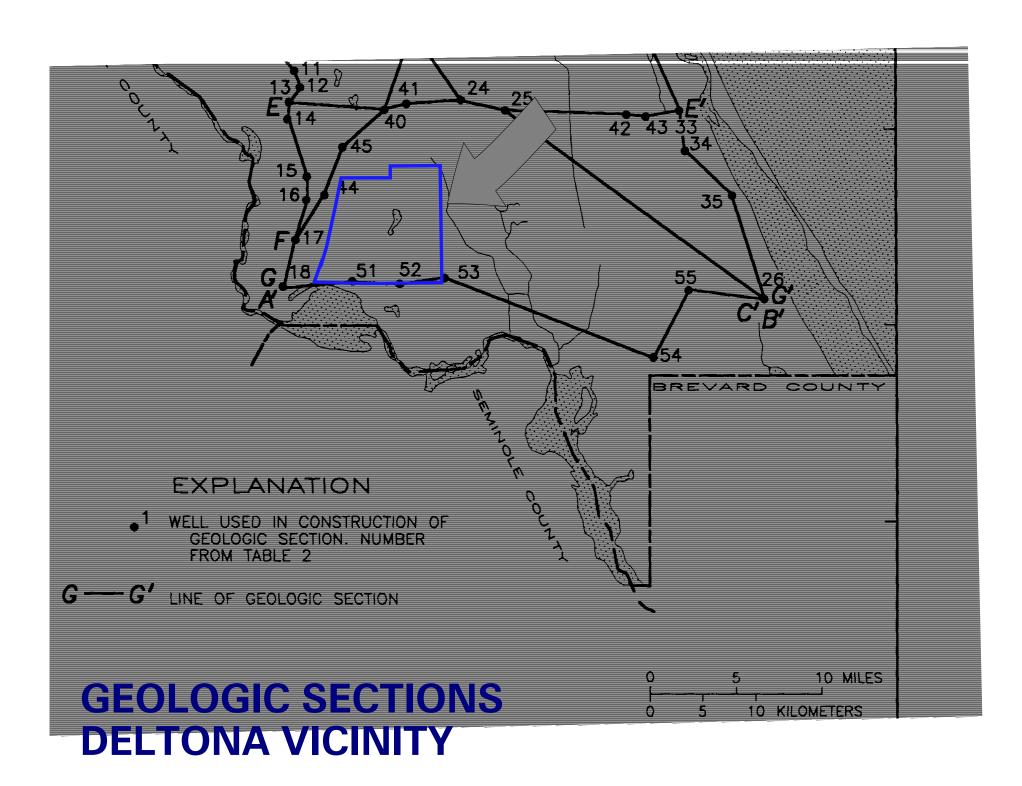
presented by
Devo Seereeram, Ph.D., P.E
Professional Geotechnical Engineer
www.iag.net/~devo
a member of the PEC Team



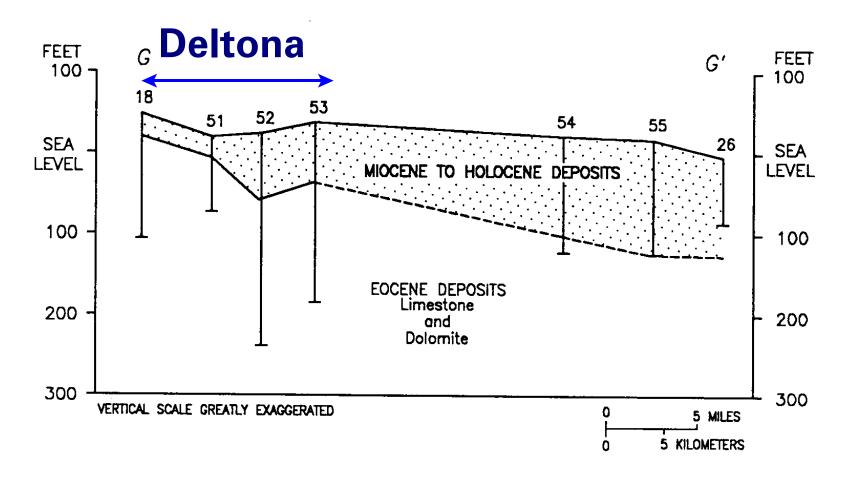




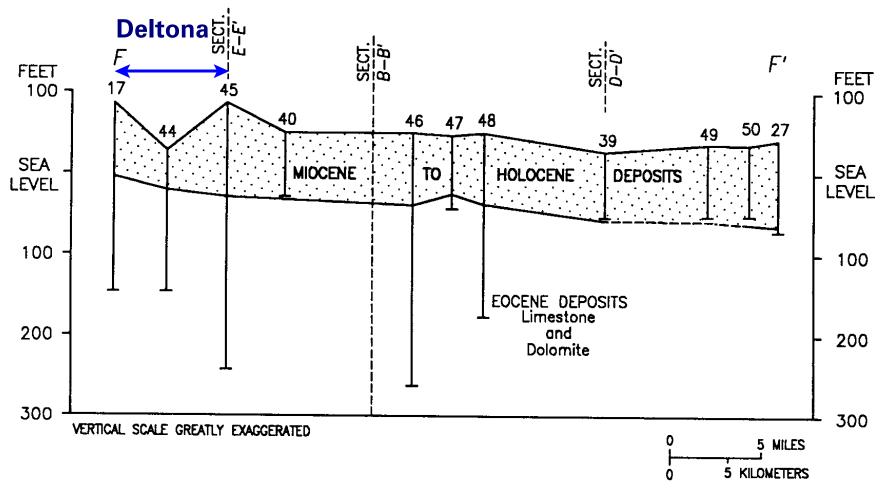
note: over 75% of the soils are Type A, excessively drained soils

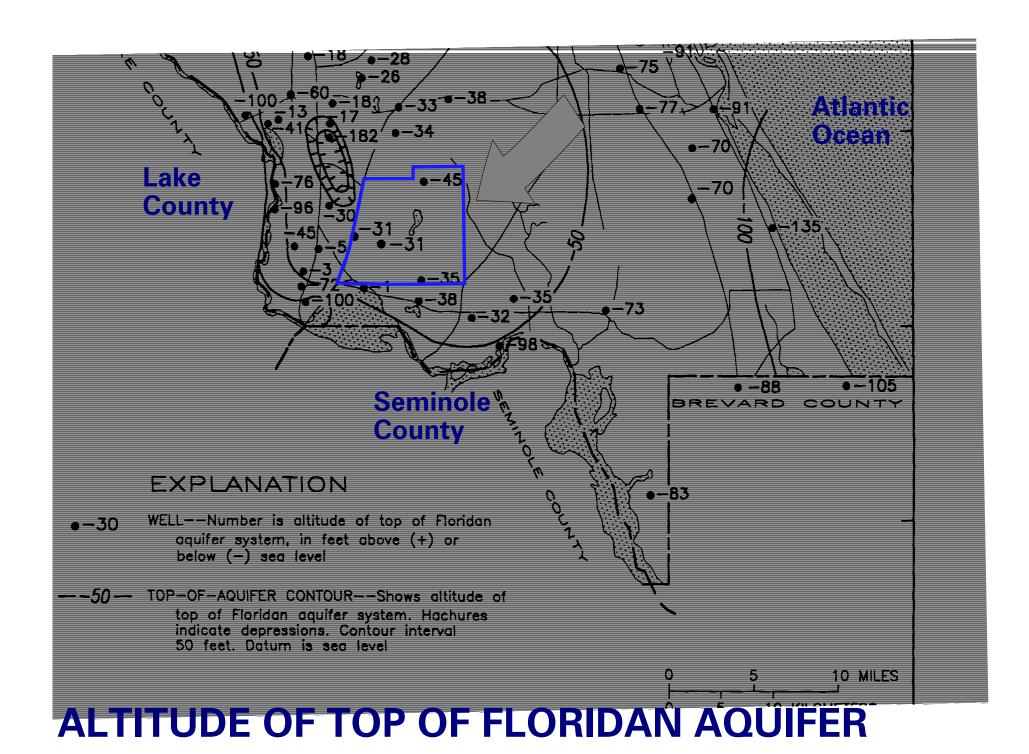


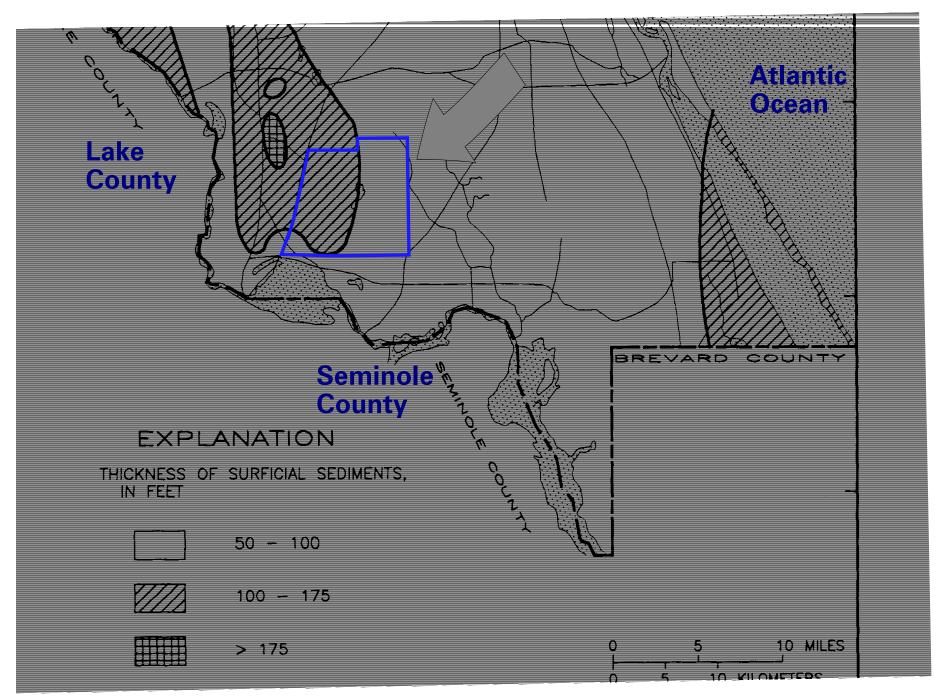
east-west transect along southern boundary of Deltona



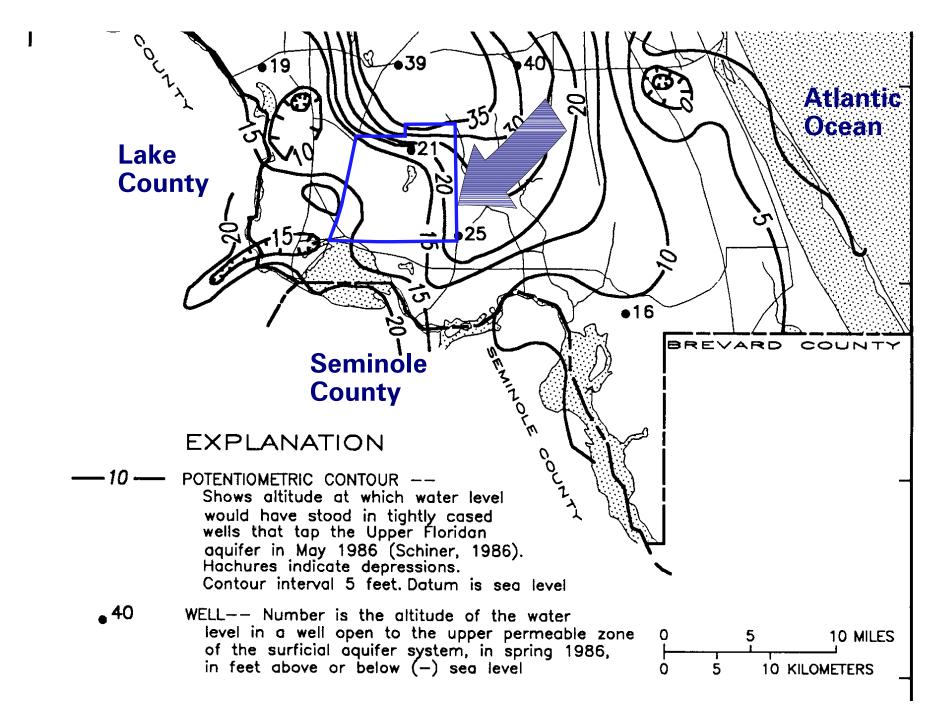
north-south transect along western boundary of Deltona



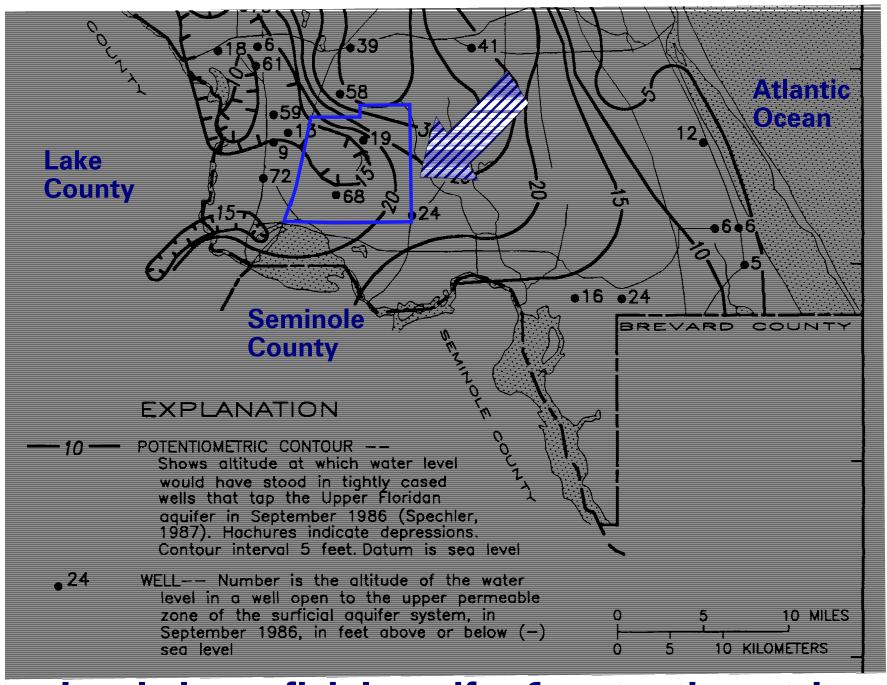




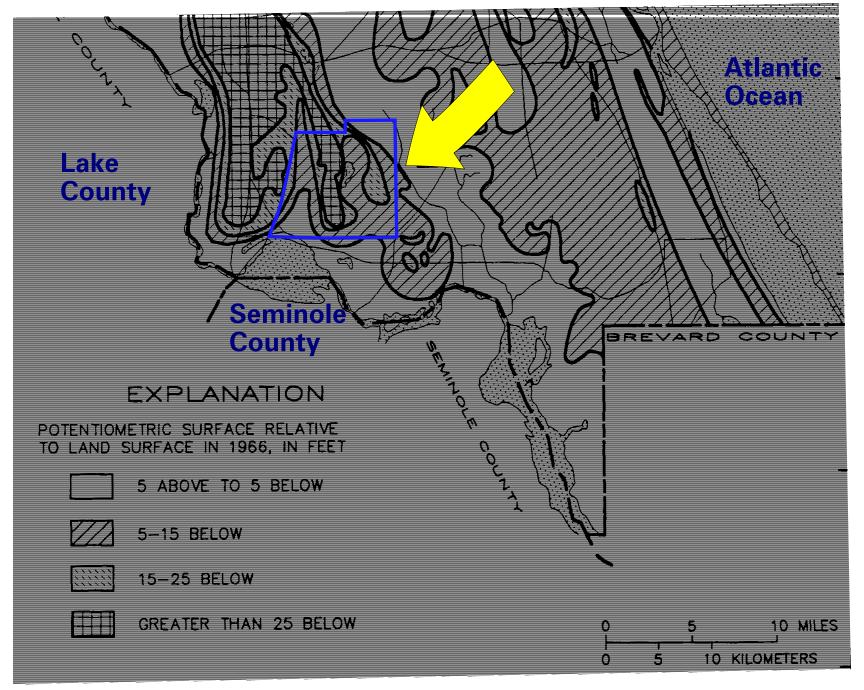
THICKNESS OF SEDIMENTS OVERLYING FLORIDAN AQUIFER



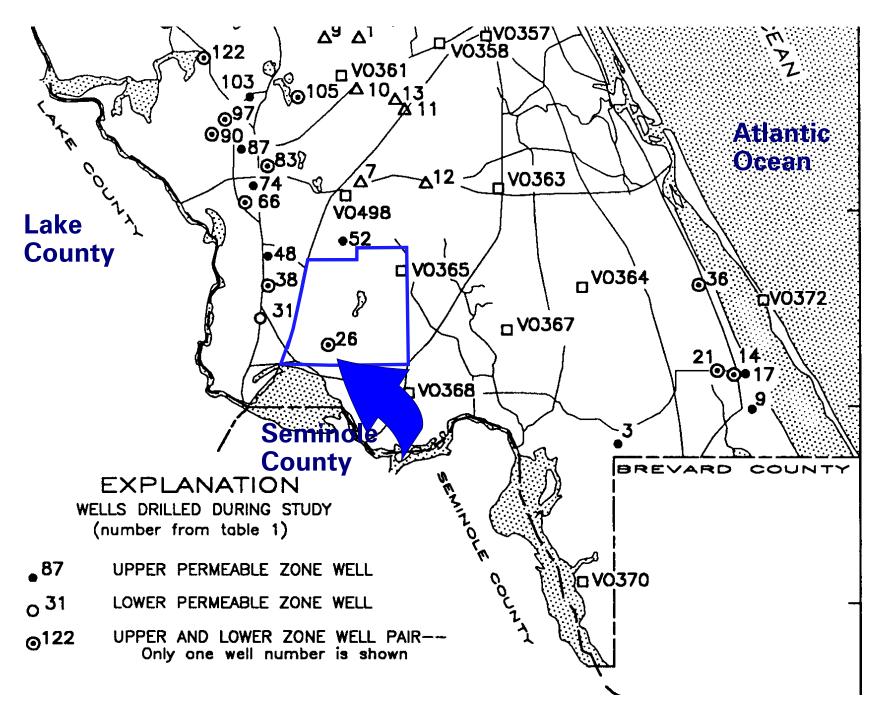
water levels in surficial aquifer & potentiometric surface - may 1986



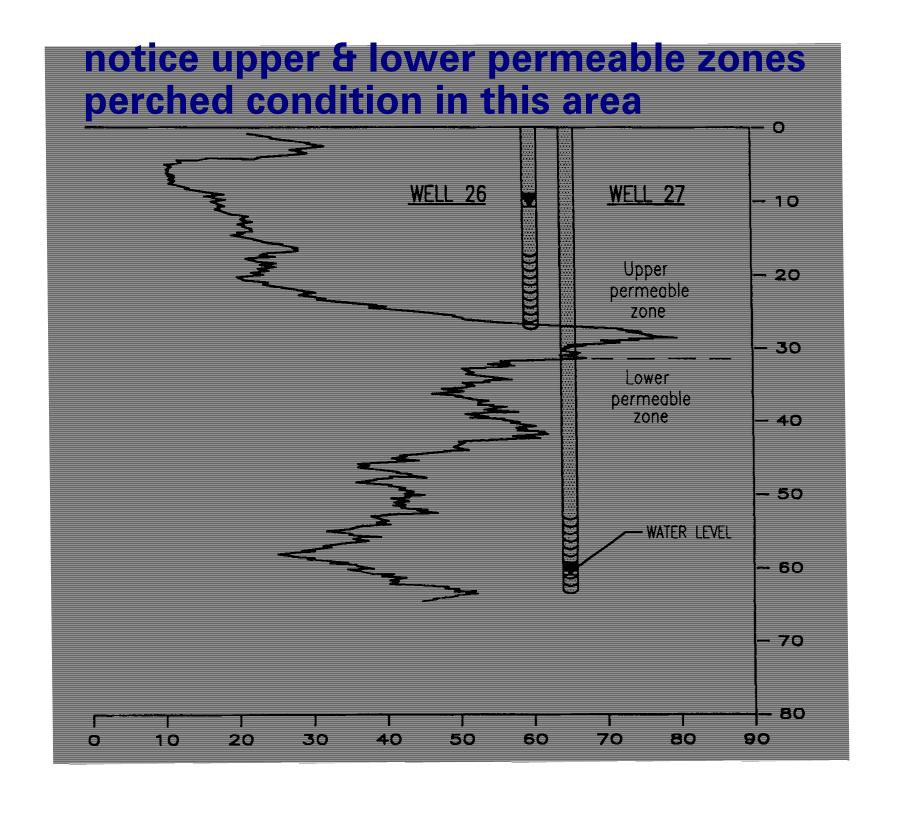
water levels in surficial aquifer & potentiometric surface - september 1986

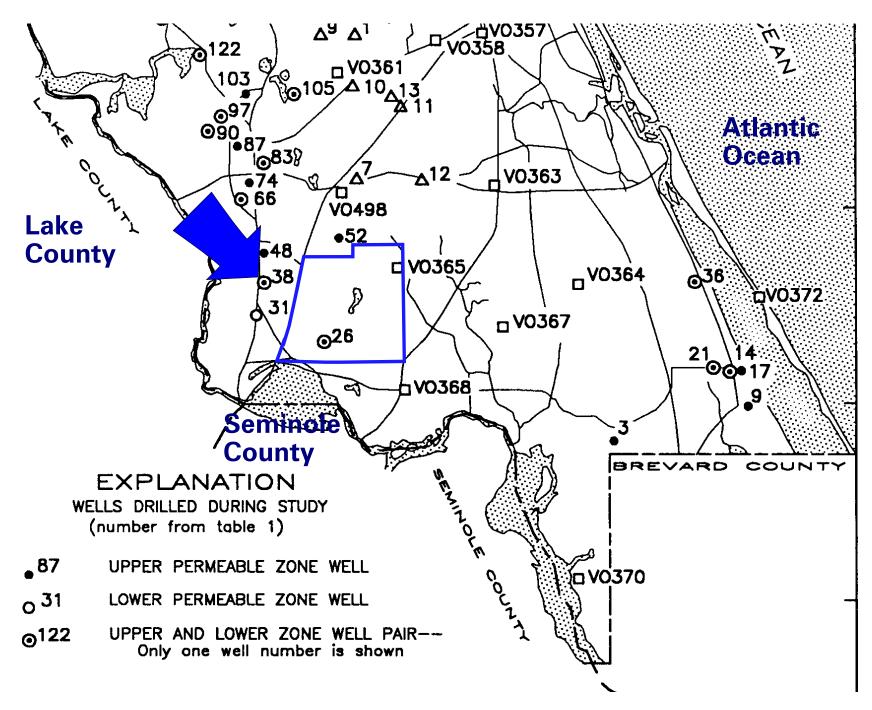


Depth from land surface to potentiometric surface feasibility of drain wells



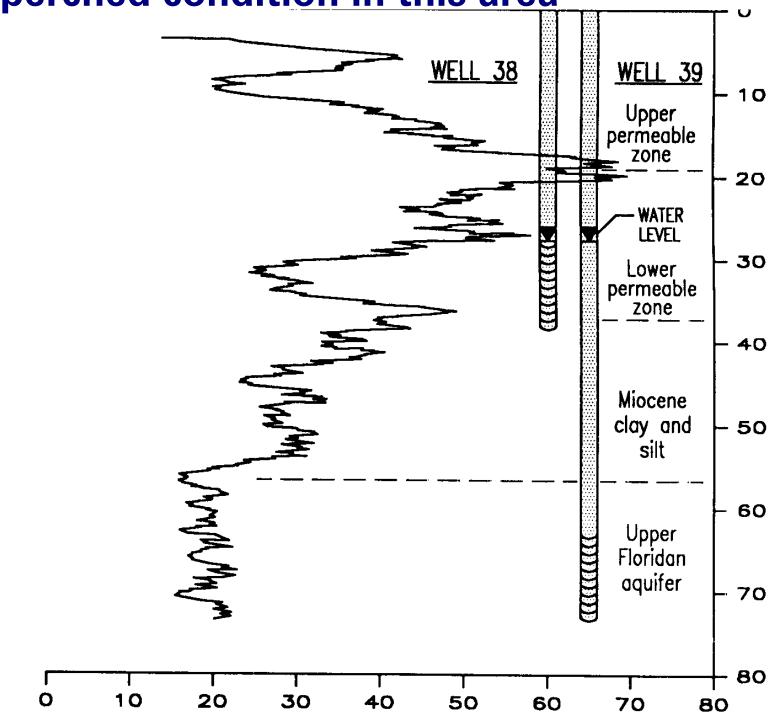
Locations of test wells in Deltona area

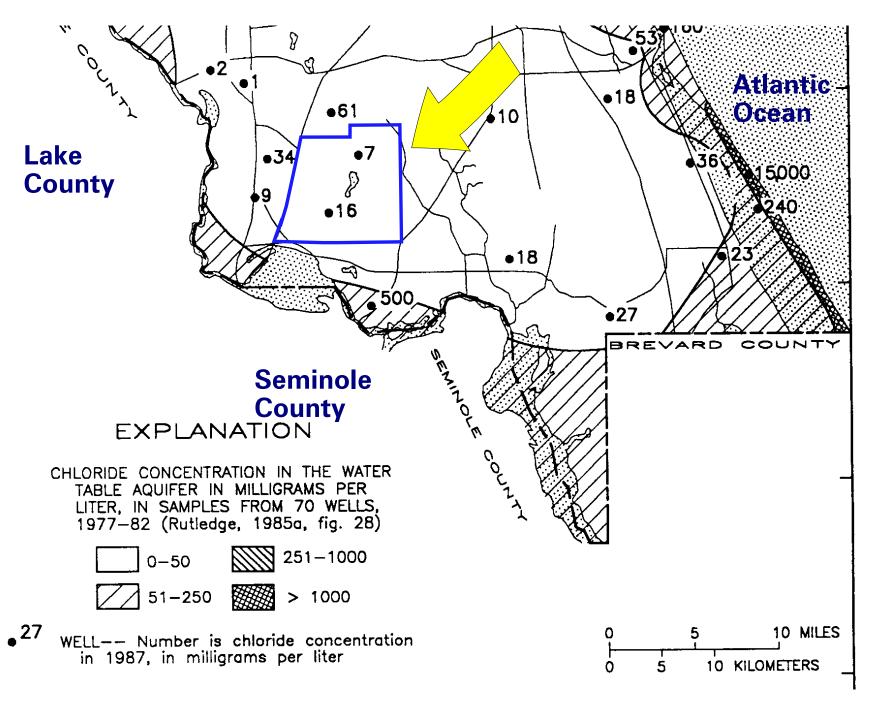




Locations of test wells in Deltona area

notice upper & lower permeable zones no perched condition in this area





WATER QUALITY IN THE SURFICIAL AQUIFER IS GOOD