Appendix C

Simulated Change in the Potentiometric Surface within the North Florida-Southeast Georgia Regional Groundwater Flow Model Area

Technical Memorandum
North Florida Regional Water Supply Plan
Simulated Change in the Potentiometric Surface
within the
North Florida-Southeast Georgia Regional Groundwater Flow Model Area
January 6, 2017

Changes in the potentiometric surface of the Floridan aquifer resulting from projected 2035 groundwater withdrawals, were simulated with the North Florida-Southeast Georgia regional groundwater flow model (NFSEG). The following figures depict simulated changes in the Upper Floridan aquifer levels for the following scenarios.

- Figure C1: Differences between 2009 estimated water withdrawals and 2035 projected water demands within the North Florida regional water supply planning boundary area with pumping held at 2009 levels outside the planning area
- Figure C2: Same as the scenario represented in Figure C1 but with water resource development (WRD) projects included in the simulation
- Figure C3: Differences between 2009 estimated water withdrawals and 2035 projected water demand within the entire NFSEG domain
- Figure C4: Same as the scenario represented in Figure C3 but with WRD projects included in the simulation

A decrease (drawdown) of the simulated potentiometric surface is indicated by the blue colors or positive numbers while the increase (rebound) in the simulated potentiometric surface is indicated by the yellow and green colors or negative numbers.

Figure C1: Change in Upper Floridan aquifer from 2035 withdrawals within the North Florida regional water supply planning boundary.

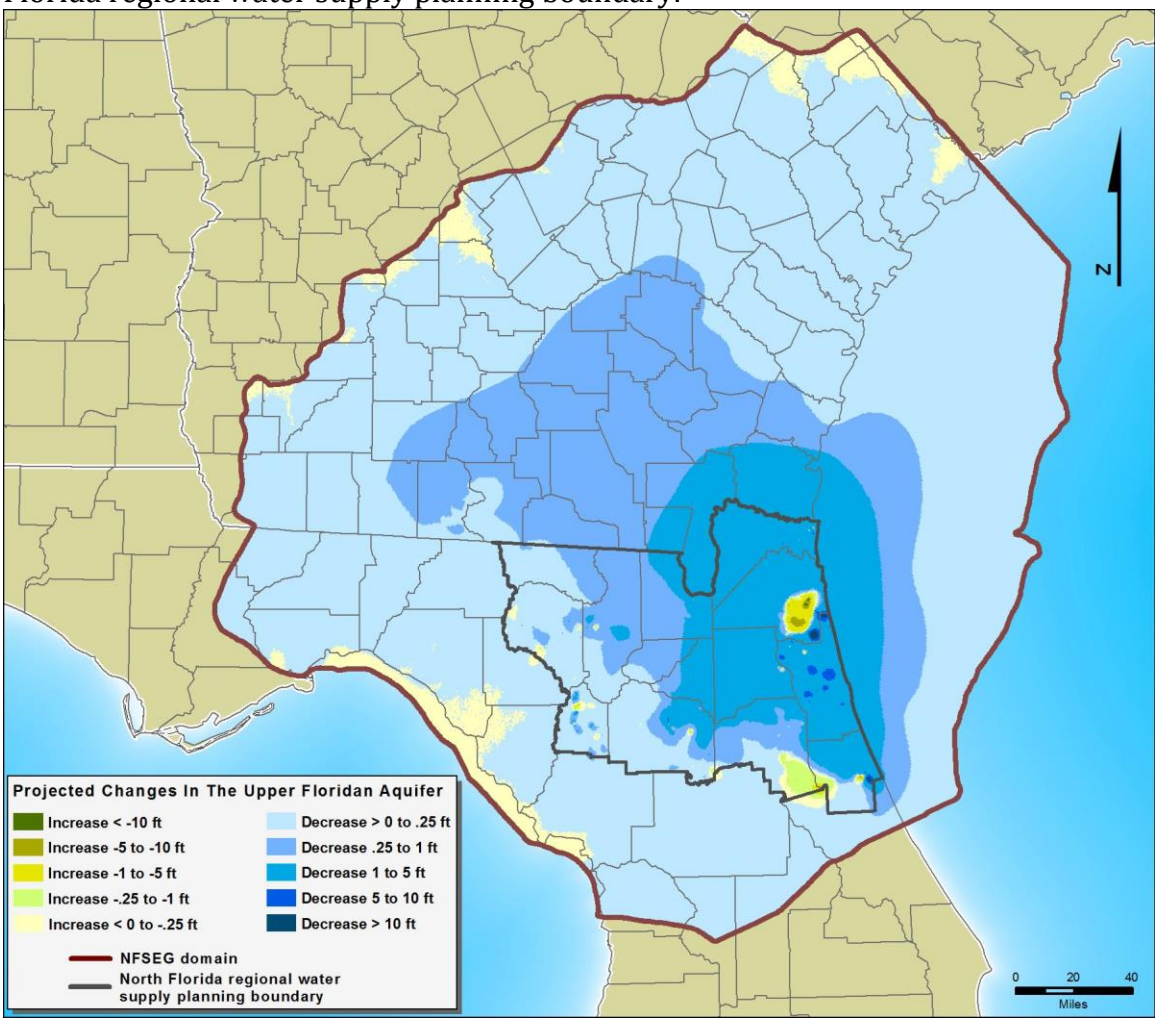

Figure C2: Change in Upper Floridan aquifer from 2035 withdrawals with water resource development projects included within the North Florida regional water supply planning boundary.

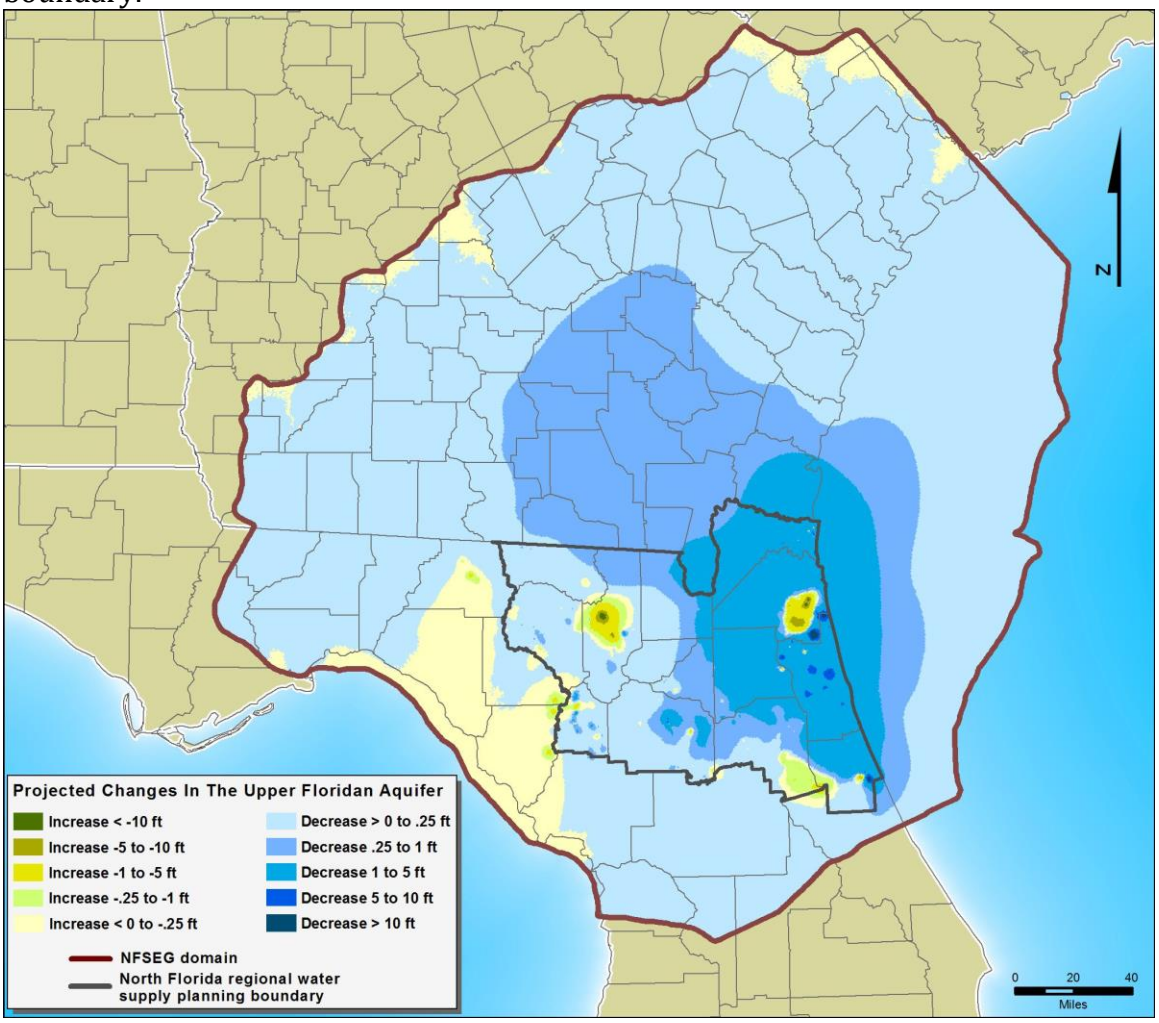

Figure C3: Change in Upper Floridan aquifer from 2035 withdrawals within the NFSEG domain.

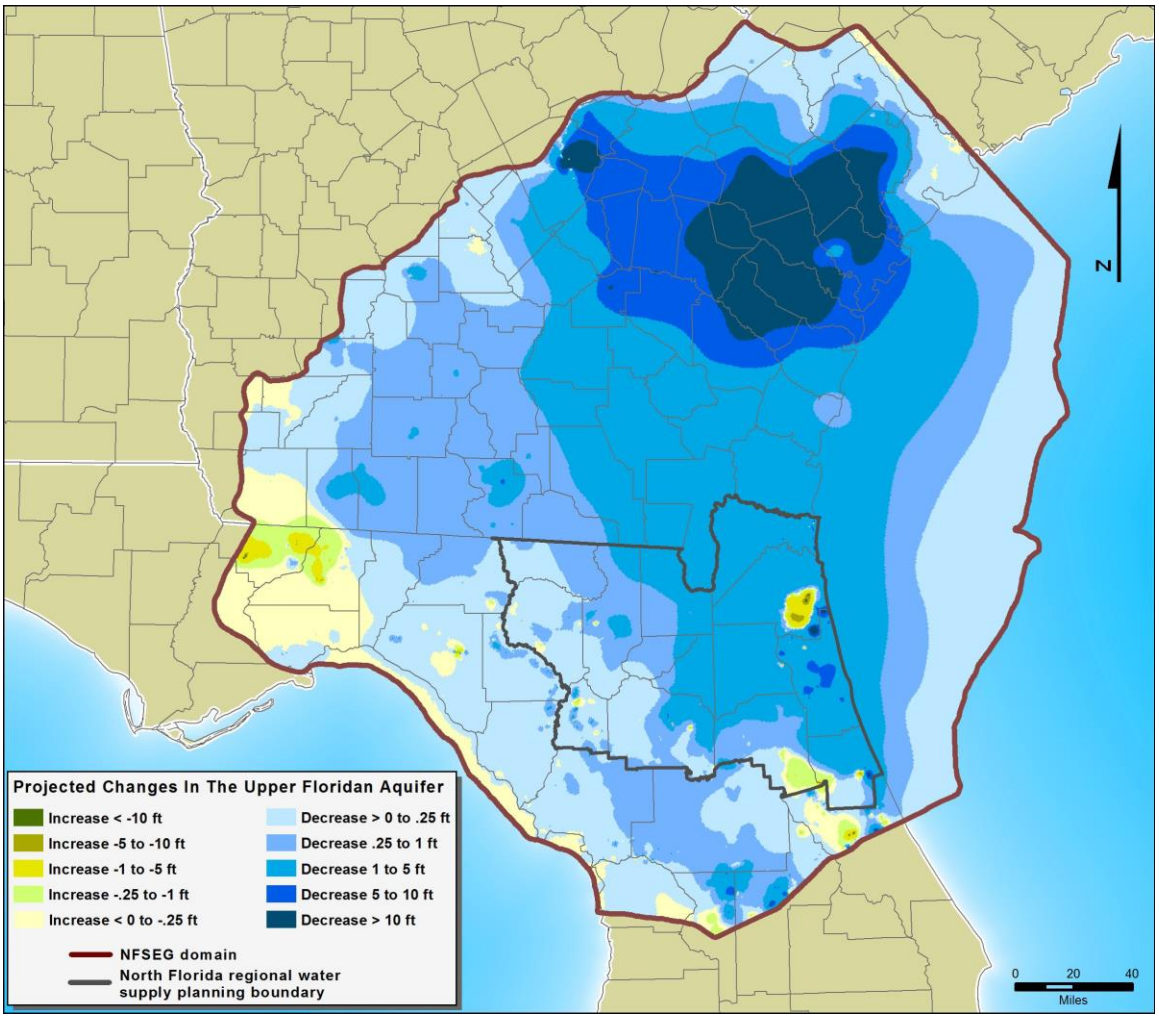

Figure C4: Change in Upper Floridan aquifer from 2035 withdrawals within the NFSEG domain with WRD projects.