**Supplementary Materials:** The following are available online at www.mdpi.com/link, File S1: Complete set of historical contour maps for the Northeast GMA. File S2: Selected hydrographs for municipal and observation wells in the Northeast GMA. File S3: Stratigraphic column and table showing wells in central Brown County with dewatered conditions since 2005. File S4: Water Level Data for selected municipal wells in the Northeast GMA. File S5: Water Level Data used to construct contour maps for 1990 to 2015.