

APPENDIX 1

Revisions to Water-Level Data Sets

The water-level change data used in the annual average water-level change versus total groundwater use plots are based on a different set of wells than used in Whittemore et al. (2018). In the earlier status report, we only included wells that were measured every year during the analysis period (continuous wells). In this report, we increased the number of wells by including every well that was measured at some point during the analysis period (maximum number of wells). Thus, the number of wells measured varies from year to year.

The aquifer thickness and the average water-level declines since predevelopment are based on revised data sets from those used in Whittemore et al. (2018). These revisions include updates in the predevelopment water levels, the restriction to using only those sections that have a predevelopment thickness greater than 20 ft, the inclusion of sections with a zero 2021–2023 aquifer thickness, and the exclusion of those sections that had a more than 25% increase in thickness to 2021–2023 (occurs only in the fringe areas where the aquifer is very thin). In addition, the aquifer thicknesses are based on revisions of the depth to bedrock surface in selected areas.