Supporting Information for

Advancing identification of drivers of groundwater head change using commonly available observed hydroclimate data

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Figures S1 to S3

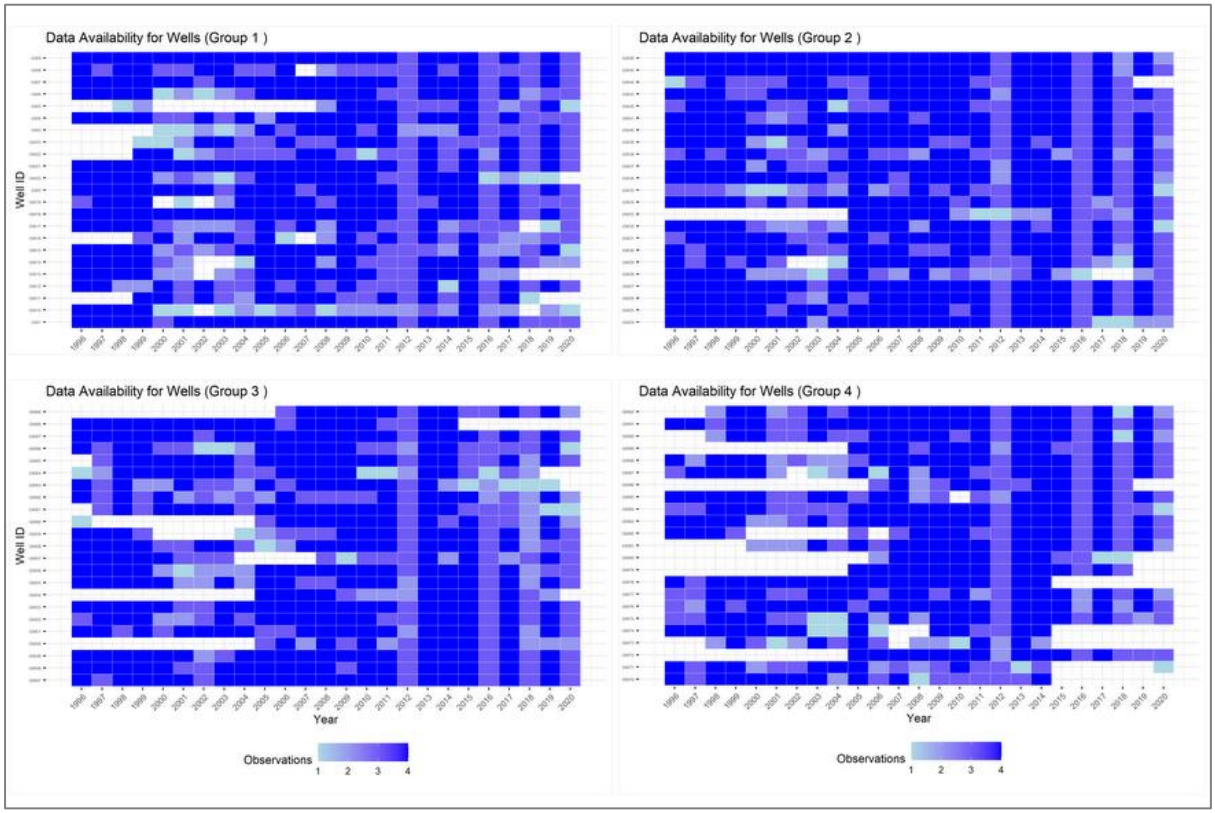

Figure S1: Groundwater data length record for the selected 92 groundwater wells in the study area

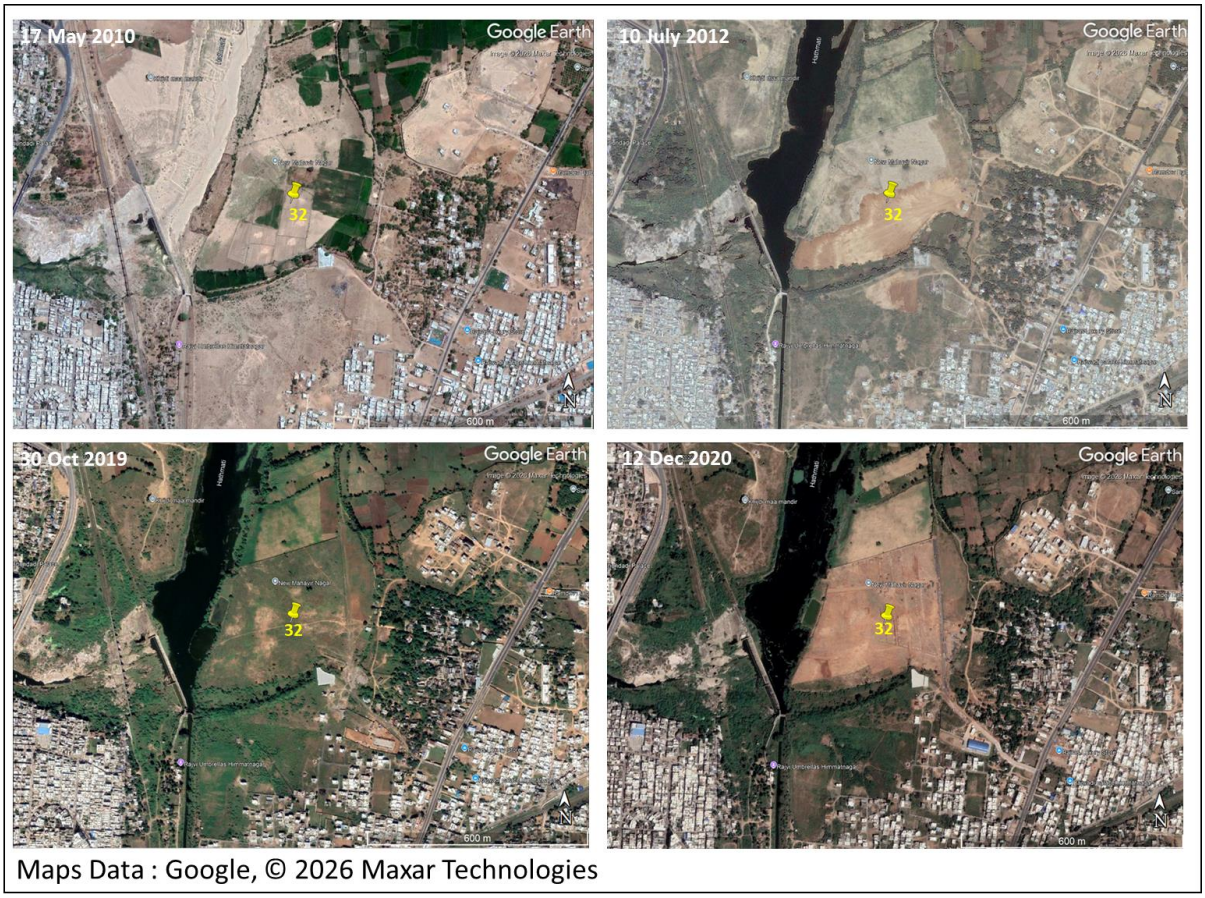

Figure S2: Depiction of land use change for the groundwater well location 32 using Google Earth imagery from 2010 to 2020

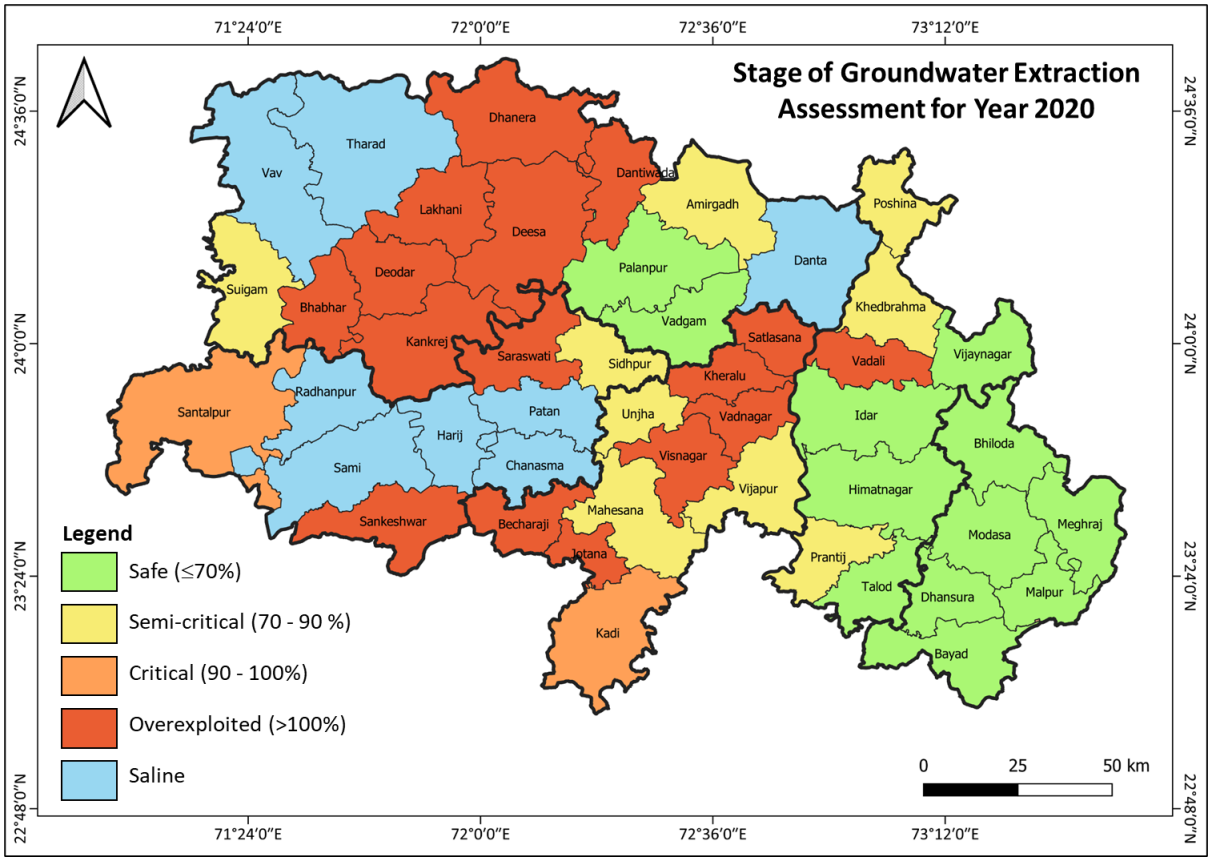

Figure S3: Categorisation of administrative blocks in North Gujarat Region (NGR) by the Central Groundwater Board (CGWB), India. This assessment is done by estimating the stage of groundwater extraction, which is defined as ratio of annual groundwater extraction to annual available groundwater. Based on the stage of extraction, the administrative blocks are categorized as Safe (≤70 %), Semi-Critical (70 - 90%), Critical (90 - 100%) and Over-Exploited (>100 %).