The climate data were collected from the well-known Climatic Research Unit (CRU) database.

University of East Anglia Climatic Research Unit; Harris, I.C.; Jones, P.D. (2017): CRU TS4.01: Climatic Research Unit (CRU) Time-Series (TS) version 4.01 of high-resolution gridded data of month-by-month variation in climate (Jan. 1901- Dec. 2016). Centre for Environmental Data Analysis, *04 December 2017*. doi:10.5285/58a8802721c94c66ae45c3baa4d814d0. <http://dx.doi.org/10.5285/58a8802721c94c66ae45c3baa4d814d0>

The datasets have a 0.5° 0.5° resolution. I downloaded the climate data that covers the period 1901-2016 and chose the subset period of 1987-2016 (30 years). The datasets have monthly temperature and monthly precipitation variables among other climate variables.

I calculated the mean of the monthly temperature and the mean of the monthly temperature of period 1987 and 2016 for each coordinate in the dataset. Then I used the obtained mean temperature and mean precipitation of the coordinate that has the minimum difference from the Chinese wastewater treatment plants’ (WWTP) coordinate, as the climate variables of the WWTP.

When I compared the precipitation variable with another dataset (on the provincial level in China) from China Meteorological Administration (CMA), I found that there is about 10 times difference between the values, even though both datasets state the precipitation units are “mm”. I did a bit search and I think the 10 times one is correct. Therefore I times the calculated mean precipitation from CRU dataset with a scalar of 10. And now the mean precipitation variable values are consistent with the other dataset. I did not use the other dataset from CMA because I can only get the provincial level climate data.

Due to time limitation, I did find out why the CRU precipitation time series data are only about one tenth of the other dataset. In addition, Yuan helped me with the entry of the coordinate of the (WWTP). The coordinate of WWTP is found by entering the address in the website <http://www.gpsspg.com/maps.htm>.