Add physical mixing conditions like aeration or DO concentration and discharge quantity, discharge temperature. In Figure 1, add latitude and longitude and flow directions. In Figure 2, where is the monitoring site? in Figure 2, explain 1st day of DO condition. In line 107, add references for Shannon and McIntosh indices.

Reply: thank you for your comments.

1) According to your valuable suggestion, we supplied “Figure S1. Water temperature and DO concentrations variations in the water column during the artificial mixing process (1st means after 1 day since the running of the lifting aeration system; meaning the sampling date)” in the supplementary materials.

2) As known, in winter, Northwest China is dry and rainless. Therefore, during the study period, the amount of water from upstream is very small, nearly 1-2 m$^3$/s. Compared with the amount of water in the main reservoir, these water volumes have little impact on the main reservoir area. The water temperature of the upstream was lower than that of the main reservoir. During the research period, the water temperature was 10-12 °C.

3) Latitude and longitude and flow directions had been added in the manuscript: 34°42′-34°13′N; 107°43′-108°24′E. We also replaced Figure 1.

4) The values in Figure 2 were the mean values of S1, and S2 and S3. In the manuscript we have added the missing information. DO concentrations on 1st day in Figure 2 showed that DO concentration of the bottom water was 2 mg/L. DO concentration in the upper water layer was high reaching > 7 mg/L. This indicated that the water body was basically in the state of oxygen enrichment. The high DO
concentration nearly water depth 75-80 meters was because that the microporous aeration plate of the lift aeration system was at this position.

5) We have added a reference.