6.0 CONCLUSION

1. Overall, the heterogeneity in physical and chemical parameters of the lake water quality were mainly due to time of sampling rather than spatial factor. However, spatial and temporal factors contributed to the biotic variables.
2. In general, the five sampling station can be divided into two distinctive groups based on the environmental and biotic variables and species composition of the stations. The differences of the groups were probably caused by inputs of nutrients from the construction activities at downstream of station I and impacts of wetland plants to minimising the pollutant loads before reaching station I.
3. 27 species of phytoplankton identified in this study could be utilised to compare and assess the status of water quality in future.
4. Since the Putrajaya Lake is designated as one of the recreational and water spots area, the water quality of the lake should be managed properly to avoid excessive pollutants discharging into the lake.
5. The lower Bisa area of Putrajaya Lake may be categorised as being oligotrophic. There were no distinct pollution indicator species of phytoplankton.