

## Template for Evidence

University : Al-Mustaqbal University College  
Country : Iraq  
Web Address : <https://uomus.edu.ig/en/default.aspx>

### 6.3 Water usage and care

#### 6.3.1 Does your university as a body have a process in place to treat wastewater?

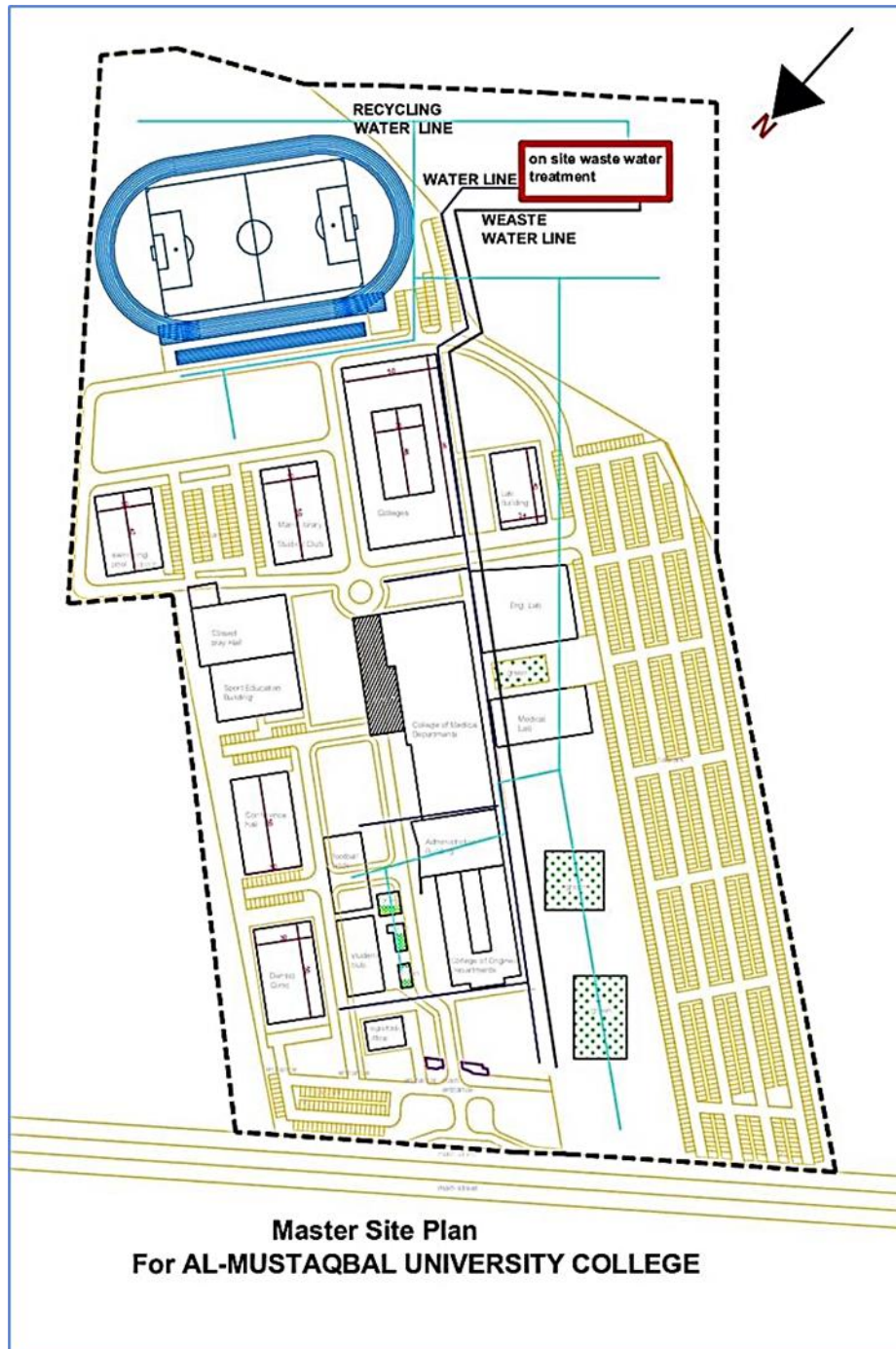
- ON-SITE WASTEWATER TREATMENT

Al-Mustaqbal University College has put a great deal of interest in establishing a wastewater treatment plan to minimize its water footprint. It has built its own onsite wastewater treatment unit. This unit is a Moving Bed Bio Reactor (MBBR) having the capacity of 450m<sup>3</sup>/ day. The reason behind the selection of such a unit was to compensate for the issues that riddled other biological wastewater treatment methods. The MBBR unit is characterised by:

- Smaller footprint.
- Tank volume is utilised as a whole for biomass
- No return activated sludge
- Easy expansion
- No media clogging
- The unit is reliable and easy to operate
- Highly efficient in removing nitrogen and organic loads.



MBBR technique for wastewater treatment



- **ON-SITE GREYWATER TREATMENT UNITS.**

Greywater and rainwater are gathered into ponds or earth tanks. Afterwards, the water is pumped into treating stations to obtain potable water. The treated water is then accumulated into tanks then pumped to water tanks to be used later. Most of the treated water is used to

water the green areas that are spread across the campus, the flushing basins and into the fire sprinkler systems.



Greywater treating unit



Tank used for storing treated water