Company / implementer: Universidad Autónoma de Occidente
Sector: ISIC 8030 Higher education
Location: Cali – Valle del cauca- Colombia 3°21’14” N 76°31’22” O
Update: 01 Feb. 2018

Results
- 30% of the treated water is reused for irrigation in the gardens and fields of the university campus, equivalent to 1,559 m³/year.
- Harvest of 230 Kg/year of dry sludge generated by the WWTP for the production of 11 tons of organic fertilizer through a vermicomposting system.

Other benefits
- Economic saving in the reuse of treated water for irrigation of University gardens and courts.

Supplier References
Supplier: Contact information:

Description
The domestic wastewater treatment system (WWTP) is composed of the following units: pumping well No.1, pretreatment (sand trap and grease trap), treatment (aeration tank, sedimentation tank, float tank and sieve) filtration (treated water storage tank and drying bed unit) and finally, a pumping well No.2.
Treated waters are used in the irrigation of gardens and courts within the university campus (30%) and discharged into an irrigation canal to the Lili River (70%).

Investment and operation costs
Investment costs: The investment cost of the system is around USD 300,000 and the monthly operating cost is approximately USD 300.
Operating Costs: Human resources for the maintenance and operation of the Treatment Plant.

Recommendations and Limitations
- Carefully consider population growth projections, since the WWTP should be designed considering this growth.

Cases of Application
N/A

References
Information provided by the University: