

ABSTRACT

Groundwater is a depletable resource, and its continued over-extraction has both economic and environmental consequences. However, these consequences can be lessened, by means of continually improving the environmental performances and concerns through initiative and creative ideas. This paper will help the community to improve more its environmental performance by minimizing its impact to the environment.

This research, “Design of Rainwater Harvesting System as an Additional Water Source for Irrigation at De La Salle University-Dasmariñas” is generally composed of three divisions: assessment of the problem and environmental promises, design of the rainwater harvesting system, and its estimate.

First division is the assessment of the groundwater depletion and the university’s goal of minimizing, if not eradicating its negative impact to the environment.

Second division is the design of the system. This part is where the researchers made use of rainwater as an additional water source, making the design effective, to the extent of researchers’ knowledge.

Third division is the estimate which is composed of the cost estimate of the whole system, equivalent cost of the system, and environmental savings using the new system.

This research paper will not only help the De La Salle University-Dasmariñas on its vision-mission for the environment, but also the environment itself will benefit which is the main focus of the paper.