

# **Design Manual: Ecological Clothes-Washing Station Incorporating Rainwater Harvesting and Greywater Biofiltration Constructed Wetlands**

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**Figure 1. Three-dimensional view of the Ecological Clothes-Washing Station**

Two of the most practical BMPs that this project identified for application in the San Cristóbal area were rainwater harvesting and water filtration using constructed wetlands. In the following original design, both management practices are incorporated into a community clothes washing station. The rainwater harvesting system provides a wash-water source while a greywater treatment system filters out detergents and other pollutants released during washing. This pilot system is in process of construction at the time of publishing this document (April 2007). Plans are in place to monitor the effectiveness of this system in terms of usability and ecological effectiveness to determine the scale of applicability.

This manual first explains the background information for the 2006-2007 implementation project in the target community and describes the purpose and functions of the system components. The second part lays out step-by-step instructions for system construction of the rainwater harvesting system, the clothes-washing station, and the greywater wetland, and concludes with recommended maintenance procedures. This document is meant to serve as a guideline for construction of the system, and includes important design considerations. The design should be adapted to local constraints where applicable in terms of exact measurements. It is important, however, to incorporate all main components of this system to achieve expected ecological effectiveness.

## **Background Information about the Target Community**

The Colonia Cinco de Marzo is located on the outskirts of San Cristóbal de las Casas, in the southernmost Mexican state of Chiapas. San Cristóbal is a fast growing city with a population

# Manual For Ecological Design

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