I. Abstract

This project aims at demonstrating to North Texas homeowners landscaping practices and methods that conserve water, while still providing the esthetic characteristics expected in our gardens. The project takes a comprehensive approach at low water demand landscape. It addresses the three aspects of water conservation at home level:

- Source of water/water reuse: Rainwater harvesting system;
- Water delivery method: Drip irrigation system; and
- Water use/vegetation: Drought tolerant native and adapted plants

II. Overall Progress and Results by Task

Task 1: Setup a landscape design that will encompass various water conservation features to be used by homeowners in the North Texas Region

The following actions have been completed during this reporting period:
Install 8,500 square foot water conservation landscape design demonstration using native and adapted resource efficient plants and turf, soil preparation and mulch to demonstrate to homeowners how a water conserving landscape is beautiful at the same time.

100% Complete

Task 2: Reduce irrigation water use by 80-90% in an average year

The following actions have been completed during this reporting period:
Drip irrigation with an ET irrigation controller was set up to irrigate the landscape water conservation design demonstration using water from the rainwater harvesting systems. So far no potable water was required except for the first couple of weeks after planting which was before the irrigation system was installed. With the use of drip irrigation, native and adapted resource efficient plants, soil preparation and a 4 inch layer of mulch, this landscape will require 80 to 90% less irrigation than than current landscape require.
Task 3: *Reduce the pollutant transport in the adjacent parking lot into the storm sewer system*

The following actions have been completed during this reporting period:

- Installed 4 different rainwater harvesting demonstrations to show homeowners possible ways they can set up rainwater harvestings at their homes or small business.
  - Demonstration 1: 1500 gallon poly tank, with first flush diverter and wet collection system.
  - Demonstration 2: 300 gallon loaf shaped poly tank which is about the size of 2 out air conditioners units with first flush diverter.
  - Demonstration 3: 300 gallon tall narrow poly tank with first flush diverter, good for an area with little space.
  - Demonstration: 3 – 55 gallon rain barrels connected together near the base with garden hose to demonstrate how to set up a rain barrel and how to connect rain barrels together. Insect netting act as both filter and insect/creature control.