

**Effect of Roof Material on Water Quality for Rainwater Harvesting Systems –  
Quarterly Report to the Texas Water Development Board (TWDB)**

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**Prepared by:**

Mary Jo Kirisits, Ph.D.

**Prepared for:**

Texas Water Development Board

**The main objective of this research is to provide recommendations to the rainwater harvesting community in Texas regarding the selection of roofing material for rainwater harvesting and to support these recommendations with scientific data.** In Task 1, we identified roofing materials that are commonly used in Texas and those that are commonly recommended in Texas for rainwater harvesting. In Task 2, we examined the quality of harvested rainwater from pilot-scale roofs constructed with traditional materials (i.e., asphalt fiberglass shingles, galvanized metal, concrete tiles) and alternative materials (i.e., green and cool roofs). In Task 3, we examined the quality of harvested rainwater from two existing full-scale residential roofs. In Task 4, we prepared a final report for the research. The following provides a summary of our quarterly progress.

#### **Task 4. Final report** (*complete*)

The final report, including responses to the comments of the reviewers, was completed and submitted to Dr. Sanjeev Kalaswad.

#### ***Acknowledgements***

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