



**CalRecycle**

**FY 2016/17**

**Grant #**

**TDA6-16-0007**

# City of Ukiah

Department of Resources Recycling and Recovery

Tire-Derived Aggregate (TDA) Grant Program

## Background

The Tire-Derived Aggregate (TDA) Grant Program provides assistance to civil engineers in solving a variety of engineering challenges. TDA, which is produced from shredded tires, is lightweight, free-draining, and a less expensive alternative to conventional lightweight aggregate.



## Grant Project Goals

- Implement Low Impact Development (LID) storm water capture and treatment system.
- Take advantage of TDA's permeable properties (higher storage capacity than traditional gravel in LID storm water capture and treatment system).
- Divert an estimated 60,000 Passenger Tire Equivalent's (PTE) from landfills by utilizing rubber tires sourced from California-generated waste tires.

## Outcome and Accomplishments

City of Ukiah was awarded \$48,875 during Fiscal Year (FY) 2016-17 to reconstruct approximately 2,300 feet of a four-lane (60 foot wide) arterial roadway as part of the Redwood Business Park Transportation Improvements.

The City also:

- Expended 72 percent of their grant awarded funds.
- Used 349 tons of TDA material.
- Diverted 34,840 waste tires from California landfills.
- Completed their project a year prior to the grant term end date.



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## Challenges

A few minor utility conflicts were encountered during the construction process.

## Lessons Learned and Recommendations

The City resolved these issues by adjusting the dimensions of the bioretention areas and moving or consolidating several bioretention areas. For example, excavation of the bioretention area located at the northeast corner of the Talmage Road and Airport Park Boulevard intersection encountered a water main that was shown to be clear and west of the west facing edge of the bioretention area.

Contractors adjusted the width of the bioretention area to not interfere with the existing water main and maintain the same amount of water storage capacity as originally specified in the design.



## Snapshot

**Grant Program:** Tire-Derived Aggregate (TDA) Grant Program

**Grant Program Website:**

<https://www.calrecycle.ca.gov/Tires/Grants/TDA/>

**Grant Number:** TDA6-16-0007

**Grant Type:** Tire Recycling, Cleanup, and Enforcement Grants

**Year Awarded:** Fiscal Year 2016-17

**Funding:** Awarded \$48,875.00

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