CalRecycle

FY 2011–12

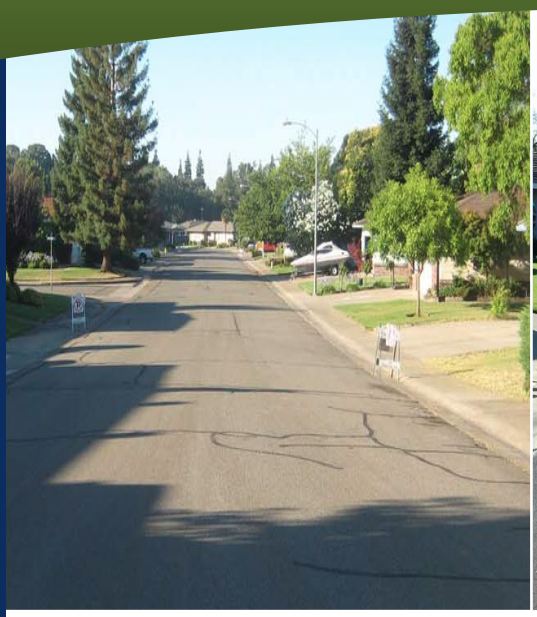
GRANT #

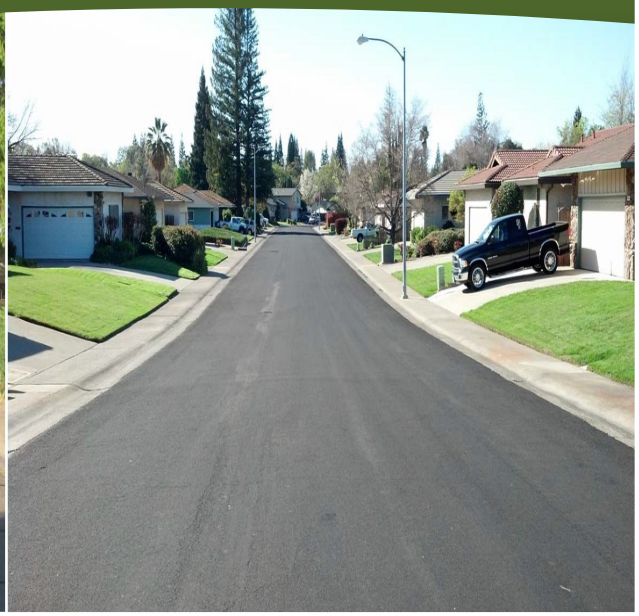
TRP1-11-0061

City of Roseville

Department of Resources Recycling and Recovery

Rubberized Pavement Grant Program





Background

The City of Roseville (city) conducted a condition assessment of its roadways and determined that funding was needed to help improve the city's streets. The project was broken up into two phases and consisted of four separate projects. The projects helped to ensure that city roadways were properly maintained and also helped to divert tires from California's waste stream. In January of 2012, the city was awarded $375,000 in grant funds.

Grant Project Goals

The primary goals of the projects were to:

- Rehabilitate roadways and parking lot at a wastewater treatment plant as well as various streets throughout the city.
- Use rubberized chip seal placed over repaired pavement in the plant and selected residential streets. This process would help minimize water infiltration while also extending pavement life.
- Use rubberized asphalt concrete (RAC) hot-mix in one of the city's arterial roadway.
- Use an estimated 316,485 square yards of rubberized chip seal, covering approximately 9.5 lane miles of roadways and parking lot.
- Use an estimated 6,750 tons of RAC hot-mix, covering approximately 4.4 lane miles of roadway.

Outcome and Accomplishments

- The project was completed and closed prior to grant term ending.
- The city fully expended their $375,000 grant award.
- Two of the projects were constructed in 2012 and the remaining two were completed in 2013.
- The projects consisted of one RAC hot-mix overlay and three Cape Seal treatments, a process placing slurry seal over rubberized chip seal.
- 363,767 square yards of rubberized chip seal and 6,683 tons of RAC hot-mix were used.
- 46,256 California tires were diverted from the waste stream.

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Challenges

Only minimal delays were encountered due to contractor scheduling practices and trying to meet the high quality standards set by the city.

Lessons Learned and Recommendations

When construction began in October of 2012, there was concern about the weather. Rubberized asphalt will not properly compact if temperatures drop below 55°F. Because of this there was concern that the project could be delayed. Realizing the potential for delay early in construction allowed the city and contractor to take full advantage of the fair weather and successfully close the project in December of 2012.

By combining RAC hot-mix and rubberized chip seal projects into one grant application, the city maximize the grant award of $375,000, when the maximum grant award was $250,000. This was due to a "one-time-only" guidelines exception during the grant cycle for fiscal year 2011-12, which provided an additional award of $125,000 for eligible applicants applying for both RAC hot-mix and rubberized chip seal projects.

Snapshot

Grant Program: Rubberized Pavement
Grant Program Website:
http://www.calrecycle.ca.gov/Tires/Grants/Pavement/default.htm
Grant Number: TRP1-11-0061
Grant Type: Tire Recycling Grant
Year Awarded: 2011
Funding: Awarded $375,000, spent $375,000,
Grant Manager Contact: Loreto.Tamondong@CalRecycle.ca.gov