

2016 UDOT RESEARCH PROBLEM STATEMENT

*** Problem statement deadline is March 14, 2016. Submit statements to Tom Hales at tahales@utah.gov. ***

Title: Improvement of asphalt recycle

No. (office use): 16.01.05

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UDOT Champion (suggested):

Select One Subject Area

Materials/Pavements

Maintenance

Traffic Mgmt/Safety

Preconstruction

Planning

Public Transportation

1. Describe the problem to be addressed.

Current removed asphalt from roads has low percentage recycle and used with new asphalt. If the percentage is increased, it will benefit the contractor and the environment.

2. Explain why this research is important.

The proposed research can solve low percentage recycle problem with lower cost.

3. List the research objective(s):

1. Develop a new low cost material to be added to recycled asphalt, which can increase the percentage used and in the meantime have same or better properties comparing to the current practice.

4. List the major tasks:

1. Investigate two low materials of interest
2. Design a formula
3. Perform lab comparative tests.

5. List the expected results:

1. A new low cost material will be developed and used for the improvement of asphalt recycling.

6. Describe how this research will be implemented.

We will work with some local companies for the materials and test new formula properties in our CMT asphalt binder laboratory.

7. Requested from UDOT: \$20,000
(or UTA for Public Transportation)

Other/Matching Funds: \$

Total Cost: \$20,000

8. Outline the proposed schedule, including start and major event dates.

Month 1: Contact local companies for materials of interest.

Month 2: Develop a formula

Month 3-4: test the properties and write a report.