

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: C. Heidi Grether, Director

THROUGH: Amy Epkey, Administration Deputy Director  
Michael McClellan, Environment Deputy Director

FROM: Jack Schinderle, Director  
Waste Management and Radiological Protection Division

DATE: March 14, 2018

SUBJECT: Approval of Scrap Tire Market Development Grant Recommendations for  
Fiscal Year (FY) 2018

*Jack Schinderle*

The Waste Management and Radiological Protection Division (WMRPD), Solid Waste Section's (SWS) Sustainable Materials Management Unit (SMMU) has completed the review of the applications received for the FY 2018 Scrap Tire Market Development Grant Program Funding under Part 169, Scrap Tires, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and is requesting approval to fund the recommended projects.

Twenty grant applications were received requesting \$3,989,598 in funding. Based on remaining appropriated funds, we are recommending the funding of 10 grant projects and a Scrap Tire Market Development Study; these will utilize a total of \$2,201,688 from the Scrap Tire Regulatory Fund for FY 2018.

Grant evaluation was based on the three top priorities of the Market Development Program: the highest priority and points are awarded for equipment purchases; the next highest priority and points are awarded for research and development; and the lowest priority and points are awarded for paving projects. Each application was individually scored, and the projects ranked in order by score. In addition, funding recommendations were made for each project. The spreadsheet for the individual scores and recommended funding amounts is attached.

Continued development of scrap tire commodity markets, other than Tire Derived Fuel (TDF), is essential to the continuing success of the Scrap Tire Regulatory Program. It is anticipated that TDF use will continue to decline. This decline appears to be primarily due to reduced alternative energy costs, the costs of operation of small coal fired or co-generation plants, and federal clean air regulations. This year's grant applicants did not request any funds for TDF. The recommended projects will help to drive development of other market segments.

The recommended projects are:

- Ingham County Road Commission (\$500,000): The project is in cooperation with Michigan State University, consisting of the application and study of Polymer Coated Rubber (PCR) Modified Asphalt, and field evaluation of "dry" PCR technology and laboratory evaluation of "wet" PCR technology. It will pave Haslett Road (1.35 miles), Kalamazoo Street (0.5 miles), and Grand River Avenue (1.18 miles). The project is estimated to use 8,100 scrap tires.

March 14, 2018

- Dickinson County Road Commission (\$325,000): The project is in cooperation with Michigan Technological University. It uses rubberized asphalt to maintain highly trafficked roads. The project will pave County Road 607 with ground tire rubber (GTR) asphalt, recycled asphalt pavement (RAP), and recycled shingles; this will be a performance evaluation of GTR in a cold climate. The project is estimated to use 3,210 scrap tires.
- City of Lansing (\$283,550): The project is for a terminal blend asphalt mix design incorporating GTR for paving improvements on East Mount Hope Road (Aurelius Road to Fidelity Road). This pilot project will be compared to a traditional hot mix asphalt (HMA) paving project on Aurelius Road (Fidelity Road to the city limits) which will be completed the following year. The project is estimated to use 2,691 scrap tires.
- Kalamazoo County Road Commission (\$221,964): This project is in cooperation with Michigan Technological University and will use new rubber technology to construct a high traffic volume road in Kalamazoo (West Avenue from the Schoolcraft village limits to Portage Road). The project will use hot rubber chip seal (HRCS) and hot rubber thin overlay (HRT0). The project is estimated to use 13,672 scrap tires.
- City of Clio (\$193,751): The project will use rubber-modified asphalt (RMA) for paving improvements of Rogers Lodge Drive, Campbell Street, and Curry Street. The project is estimated to use 2,297 scrap tires.
- Saginaw County Road Commission (SCRC) (\$180,000): The project will utilize RMA to pave Meridian Road (Jonesville and Lakefield Townships in Saginaw County; and Wheeler and Lafayette Townships in Gratiot County). The project is estimated to use 4,800 scrap tires.
- City of St. Clair (\$141,279): The project will utilize rubber-modified HMA for paving improvements on Third Street. The project is estimated to use 1,116 scrap tires.
- Village of Frankenmuth (\$122,495): The project will utilize rubber-modified HMA for paving improvements on Craemer Court and Craemer Drive. The project is estimated to use 1,525 scrap tires.
- Village of Birch Run Local Streets (\$77,900): The project will utilize rubber-modified HMA for paving improvements on Silver Creek Drive, Elmhurst Court, and Fairlane Drive. The project is estimated to use 1,199 scrap tires.
- City of Vassar (\$54,400): The project will utilize rubber modified HMA for Main Street (M-15 to Oak Street). The project will provide comparison to traditional HMA projects. The project is estimated to use 640 scrap tires.
- Scrap Tire Market Development Study (\$50,000): A Request for Proposals will be offered to secure third-party development of a scrap tire market study. The purpose of this study is to help determine where future Market Development Grant funds are best directed to develop scrap tire commodity markets other than TDF and ensure the continuing success of the Scrap Tire Regulatory Program.

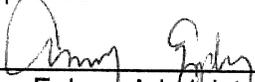
March 14, 2018

The following administratively complete applications are not being recommended for funding:

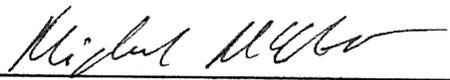
- Michigan Technological University: Three applications (\$485,373, \$249,944, and \$249,944). The grant committee is recommending that only one grant be awarded per entity, unless the multiple applications are significantly different and promote markets for scrap tire usage in significantly different ways.
- SCRC, Bueche Road (\$56,250): The grant committee is recommending that only one grant be awarded per entity unless multiple applications are significantly different and promote markets for scrap tire usage in significantly different ways. SCRC listed this project as "second priority."
- Village of Almont (\$349,800) : A low scoring project.
- Village of Ortonville (\$67,800): A low scoring project.
- Remold (\$7,500): Tire Derived Aggregate (TDA) for drainage project. TDA usage is not approved by Washtenaw County.
- Village of Birch Run Major Streets (\$62,350): The grant committee is recommending that only one grant be awarded per entity, unless the applications are significantly different and promote markets for scrap tire usage in significantly different ways. This project scored lower than the awarded Village of Birch Run project.
- City of Davison (\$65,189): A low scoring project.
- City of Caro (\$245,100): A low scoring project.

If you have any questions, please contact Mr. Jeff Spencer, Supervisor, SMMU, WMRPD, at 517-284-6879; spencerj3@michigan.gov; or you may contact me at 517-284-6551.

Approved:

  
\_\_\_\_\_  
Amy Epkey, Administration Deputy Director

3/14/18  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Michael McClellan, Environment Deputy Director

3/27/18  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
C. Heidi Grether, Director

3.27.18  
\_\_\_\_\_  
Date

Attachments

cc: Kathy Tetzlaff, RMD  
Rhonda S. Oyer, WMRPD  
Jeff Spencer, WMRPD  
Kirsten Clemens, WMRPD