

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

INTEROFFICE COMMUNICATION

TO: Liesl Eichler Clark, Director

THROUGH: Aaron B. Keatley, Chief Deputy Director
Amy Epkey, Administration Deputy Director

FROM: Elizabeth M. Browne, Director *EMB*
Materials Management Division

DATE: March 28, 2022

SUBJECT: Approval of Scrap Tire Market Development Grant Recommendations for
Fiscal Year 2022

The Materials Management Division (MMD), Solid Waste Section (SWS), Sustainable Materials Management Unit (SMMU), Scrap Tire Program (Program) has completed the review of the applications received for the fiscal year (FY) 2022 Scrap Tire Market Development Grant 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-eight eligible Market Development Grant applications were received requesting \$7,282,991 in funding. Based on the remaining appropriated funds of \$2,822,148, we are recommending the funding of thirteen Market Development Grant projects; these will utilize a total of \$2,822,148 from the Scrap Tire Regulatory Fund for FY 2022. The remainder of the unfunded projects total \$4,460,763.

Evaluation of the Grant applications was based on the three top priorities of the Market Development Grants: 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 by two reviewers, and the projects were ranked in order by score. In addition, funding recommendations were made for each project. Additionally, projects that did not receive funding during the FY 2021 grant cycle were given priority over funded projects in an effort to further promote these technologies among the various county road commissions (CRC). The spreadsheet showing the eligible projects, ineligible projects, unfunded projects, and recommended funding amounts is attached.

Use of scrap tires in road projects have been successful in Michigan and across the United States. Several rubber-modified asphalt paving (RMA) and rubber modified chip seal (RMCS) technologies have years to decades of successful installations on the ground with supporting research and documentation available. Although the Program is always interested in innovation, the focus for using scrap tires in road projects needs to shift toward making agencies aware of the use and availability of scrap tire technologies as well as expanding their usage. The same focus shift is also being applied to RMCS projects. Several of the grant applications received this year not only proposed the installation of this material, but also set goals of educating engineers about the use of RMA and RMCS, which will lead to increased use of the scrap tire technologies in the future.

SUBJECT: Approval of Scrap Tire Market Development Grant Recommendations for
Fiscal Year 2022

Page 2

March 28, 2022

The recommended projects are:

- **Ottawa County Department of Environmental Health: \$8,000**
Ottawa County Department of Environmental Health is requesting match funding to install four carports to provide year-round collection and management of scrap tires.
- **City of Muskegon: \$318,334**
The city is proposing to install a Rubber Modified Concrete (RMC) project on Sherman Boulevard. The project will encompass five lanes, 58 feet wide total. The project will either utilize RMC for one entire lane or will pave a shorter distance of all five lanes. Approximately 25 percent of the project will utilize RMC at a rate of approximately 12 passenger tire equivalents (PTE) per cubic yard of concrete. Total project estimated use is 3,350 cubic yards of concrete and approximately 10,200 PTE. Project partners are Michigan Technological University (MTU) and Michigan Department of Transportation.
- **MTU: \$416,783**
MTU will be partnering with Bay CRC to utilize RMA on Midland Road. Major traffic from US-10 will be rerouted onto Midland Road due to scheduled reconstruction. MTU will be providing laboratory and on-site testing for the project. The project will have four 2,000-foot sections for comparison. One control section will utilize conventional asphalt wearing (1.5"), leveling (1.5") and base (2") courses. One section will use conventional base and leveling courses with an RMA wearing course. One section will have conventional base course with RMA leveling and wearing course. The final section will have RMA base, leveling, and wearing courses.
- **Rubber Modified Chip Seal: \$2,079,031**
Funding for ten CRCs grants for installation of 140.73 lane miles of RMCS. These projects will expand the use of RMCS in all areas of Michigan. Originally, twelve CRCs applied for grant funding to install 221.27 lane miles, however; due to funding limitations the total lane miles was reduced to 140.73 along with two CRCs not receiving funding during this round.
 - Barry CRC: 8.60 lane miles, \$105,917
 - Benzie CRC: 12.38 lane miles, \$179,748
 - Branch CRC: 7.06 lane miles, \$102,506
 - Cass CRC: 10.98 lane miles, \$228,022
 - Kalamazoo CRC: 30.44 lane miles (reduced to 20.00), \$286,353
 - Mason CRC: 24.00 lane miles (reduced to 20.00), \$290,385
 - Muskegon CRC: 8.71 lane miles, \$112,103
 - Oceana CRC: 13.00 lane miles, \$193,227
 - Otsego CRC: 20.00 lane miles, \$290,385
 - St. Joseph CRC: 24.10 lane miles (reduced to 20.00), \$290,385

SUBJECT: Approval of Scrap Tire Market Development Grant Recommendations for
Fiscal Year 2022

Page 3

March 28, 2022

If you have any questions, please contact Mr. Jeff Spencer, Supervisor, SMMU, SWS, MMD, at 517-281-4411; SpencerJ3@michigan.gov; or you may contact me at 517-242-2746 or BrowneE@Michigan.gov.

Approved:



Amy Epkey, Senior Deputy Director

3/29/2022


Date



Aaron B. Keatley, Chief Deputy Director

3/30/2022

Date



Acting
Liesl Eichler Clark, Director

3/30/2022

Date

Attachments

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

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

INTEROFFICE COMMUNICATION

TO: Liesl Eichler Clark, Director

THROUGH: Aaron B. Keatley, Chief Deputy Director

FROM: Elizabeth M. Browne, Director *EMB*
Materials Management Division

DATE: July 22, 2022

SUBJECT: Approval of Additional Scrap Tire Grants for Fiscal Year 2022

The Materials Management Division (MMD) has identified \$2 million in Renew Michigan funding that was not utilized in fiscal year (FY) 2022 in other MMD grant programs, and we recommend using the funding on additional Scrap Tire Market Development and Clean-up grants. Section 51g(4)(c)(iii) of the Income Tax Act, PA 281 of 1967, as amended, authorizes the funding of recycling activities, including market development, from the Renew Michigan Fund.

Based on our review of the grant applications, seven new projects are recommended for funding, and three projects that were partially funded in the first round of scrap tire grants are recommended for full funding. This is in addition to the \$2,822,148 in projects approved for funding on March 28, 2022.

Market Development Grant applications were evaluated based on the three top priorities of the program: (1) Equipment Purchases; (2) Research and Development; and (3) Paving Projects. Each application was individually scored by two reviewers. The projects were ranked, and funding recommendations were made for each project. Projects that did not received funding during the FY 2021 grant cycle were given priority over previously funded projects.

The projects recommended for additional FY 2022 funding:

- **I Do TDA, Inc.: \$451,964**
Fund the development of equipment to manufacture tire derived aggregate gabion baskets.
- **Porous Pave, Inc.: \$65,000**
Fund equipment to wash, dry, and bag the scrap tire aggregates.
- **Clare CRC: \$270,822**
Fund development of an innovative process utilizing reclaimed asphalt pavement millings and rubber modified emulsified asphalt cold in-place on a dirt road. This process will not utilize an asphalt plant, and all work will be done on site.
- **Dickinson CRC: \$400,000**
Fund rubber modified asphalt, utilizing crushed recycled glass aggregate, on County Road 577. Project is estimated to utilize 5,880 tires and 342 tons of crushed glass.

SUBJECT: Approval of Additional Scrap Tire Grants for Fiscal Year 2022

Page 2

July 22, 2022

- **Entech: \$170,111**
Fund equipment to support rubber modified chip sealing projects throughout Michigan.
- **Bay CRC: \$290,385**
Fund the maintenance of 20 lane miles using rubber modified chip seal.
- **Wexford CRC: \$290,385**
Fund the maintenance of 20 lane miles using rubber modified chip seal.
- **City of Muskegon: \$26,666**
Provide \$26,666 of additional funding for a rubber modified concrete road project.
- **Michigan Technological University: \$26,666**
Provide \$26,666 of additional funding to support road projects with Bay and Clare County Road Commissions (CRC).
- **Ottawa County Department of Environmental Health: \$8,000**
Provide an additional \$8,000 as requested in their cleanup grant application to further support permanent collection site activities.

If you have any questions, please contact Jeff Spencer, Supervisor, MMD, at 517-281-4411; SpencerJ3@michigan.gov; or contact me at 517-242-2746 or BrowneE@Michigan.gov.

Approved:



Aaron B. Keatley, Chief Deputy Director

7/26/2022 _____
Date



Liesl Eichler Clark, Director

7/27/2022 _____
Date

Attachments

cc: Robert Jackson, EGLE
Tracy Kecskemeti, EGLE
Rhonda S. Oyer, EGLE
Kathy Tetzlaff, EGLE
Jeff Spencer, EGLE
Kirsten Clemens, EGLE