

Wastewater - Water Resources Appropriations Funded Through LCCMR Process 2010-2018						
Subd.	\$ Amount	Project Title	Organization	Project Manager	Status	Research
2018 LCCMR Recommendations						
04a	\$700,000	Wastewater Treatment Plant Optimization Pilot Program	Minnesota Pollution Control Agency	Joel Peck	To be completed: 06/30/2020	
04b	\$300,000	Assess and Develop Strategies to Remove Microscopic Plastic Particle Pollution from Minnesota Water Bodies	U of MN	Filippo Coletti	To be completed: 06/30/2021	X
04h	\$750,000	Mapping Antibiotic Resistance in Minnesota to Help Protect Environmental, Animal, and Human Health	U of MN	Randall Singer	To be completed: 06/30/2021	X
M.L. 2017 Chp. 96, Sec. 2						
04a	\$236,000	Assessment of Household Chemicals and Herbicides in Rivers and Lakes	U of MN	William Arnold	To be completed: 06/30/2019	X
04b	\$450,000	Wastewater Nitrogen Removal Technology to Protect Water Quality	U of MN	Paige Novak	To be completed: 06/30/2020	X
04f	\$148,000	Assessment of Water Quality for Reuse	U of MN	Satoshi Ishii	To be completed: 06/30/2019	
M.L. 2016, Chp. 186, Sec. 2						
04d	\$287,000	Assessing Techniques for Eliminating Contaminants to Protect Native Fish and Mussels	St. Thomas University	Kristine Wammer	To be completed: 06/30/2019	X
04k	\$398,000	Wastewater Treatment Process Improvements	U of MN	Timothy LaPara	To be completed: 06/30/2019	X
04m	\$180,000	Analyzing Alternative for Muncipal Wastewater Treatment	Minnesota Pollution Control Agency	Scott Kyser	To be completed: 06/30/2019	
M.L. 2015, M.L. 2015, Chp. 76, Sec. 2						
04c	\$364,000	Biological Consequences of Septic Pollution in Minnesota Lakes	St. Cloud State University	Heiko Schoenfuss	To be completed: 06/30/2018	X
M.L. 2014, Chp. 226, Sec. 2						
03a	\$291,000	Solar Driven Destruction of Pesticides, Pharmaceuticals, and Contaminants in Water	U of MN	William Arnold	Completed: 06/30/2017	X
03b	\$279,000	Methods to Protect Beneficial Bacteria from Contaminants to Preserve Water Quality	U of MN	Paige Novak	Completed: 06/30/2017	X
03c	\$380,000	Triclosan Impacts on Wastewater Treatment	U of MN	Timothy LaPara	Completed: 06/30/2017	X
03d	\$500,000	Evaluation of Wastewater Nitrogen and Estrogen Treatment Options	U of MN	Paige Novak	Completed: 06/30/2017	X
03e	\$300,000	Antibiotics and Antibiotic Resistance Genes in Minnesota Lakes	U of MN	William Arnold	Completed: 06/30/2017	X
M.L. 2013, Chp. 52, Sec. 2						
05g	\$246,000	Membranes for Wastewater-Generated Hydrogen and Clean Water	U of MN	Paige Novak	Completed: 06/30/2016	X
05h	\$203,000	Antibiotics in Minnesota Waters - Phase II - Mississippi River	University of St Thomas	Kristine Wammer	Completed: 06/30/2015	X

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M.L. 2012, Chp. 264, Art.4, Sec. 3						
M.L. 2011, 1st Special Session, Chapter 2, Article 3, Section 2						
05c	\$557,000	Mississippi Water Quality Assessment	U of MN	Michael Sadowsky	Completed: 06/30/2014	X
05e	\$190,000	Assessment of Minnesota River Antibiotic Concentrations	University of St Thomas	Kristine Wammer	Completed: 06/30/2014	X
M.L. 2010, Chapter 362, Section 2						
05c	\$340,000	Ecological Impacts of Industrial Effluent in Surface Waters and Fish	U of MN	Paige Novak	Completed: 06/30/2013	X
05e	\$594,000	Assessing Septic System Discharge to Lakes	U.S. Geological Survey	Richard Kiesling	Completed: 06/30/2014	X
05f	\$264,000	Evaluation of Dioxins in Minnesota Lakes	U of MN	William Arnold	Completed: 06/30/2012	X

Updated 11/21/2017