

EARLY ADOPTERS

State Approaches to Testing School Drinking Water for Lead in the United States



STATE PROFILE **Michigan**

Summary of Program Features

Michigan initiated a school drinking water lead testing policy in July 2016. This summary is based on a review of program documents collected between January 2018 – June 2018 and communication with Michigan state contacts.

School Drinking Water Testing Policy/Program Overview

Policy/Program Feature	Information from Policy/Program Documents	Additional Information from Communication with State
<i>Background</i>		
Name	Michigan Department of Environmental Quality (MDEQ) School Drinking Water	School Drinking Water Quality Program ²
Date(s) of Water Policy/Program	July 1, 2016 to September 30, 2017 ¹	
Issuing Authority	State legislature ¹	
Agency Responsible for Program Management	Michigan Department of Environmental Quality ^{1,3}	Michigan Department of Education manages the grant money ²
Policy or Program	Policy ¹	
One-time or Surveillance Program	One-time ¹	
Mandatory/Voluntary for Schools	Voluntary ¹	
Partnership with Local/Community Water Supplier/System	Not specified	None ²
Other Key Partnerships	Not specified	
References or Uses the EPA 3Ts	Yes ^{1,3}	
<i>Program Coverage</i>		
School Type (Public, private, charter)	Public, private and charter schools ¹	
Grade Levels	Not specified	Kindergarten – grade 12 ²
Includes Testing for Lead	Yes ¹	
Includes Treatment/Remediation	Yes ¹	
Schools Eligible to Participate		
Schools of a certain building age	Not specified	
Schools that serve certain ages/ demographics	Not specified	
Schools that are their own local/ community water supplier	Not specified	
Schools that use local/community water supplier	Yes ^{1,3}	
Schools that have not received a waiver	Not specified	
<i>Funding</i>		
Funding Source	State legislature, schools reimbursed by state ¹	
Funding Amount	\$4,500,000 ¹	
Covers Sampling at Taps	Yes (up to \$950 per building) ¹	
Covers Testing in Lab	Yes (up to \$950 per building) ¹	
Covers Treatment/Remediation	Yes (up to \$950 per building) ¹	



Sampling Information

Policy/Program Feature	Information from Policy/Program Documents	Additional Information from Communication with State
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Background

Sampling/Testing Process One-Time or Recurring	One-time ¹	
Number of Buildings/Facilities Sampled (All or a Portion?)	A portion (student occupied) ³	
Types of Taps Sampled	Drinking, cooking, ^{1,3} medicinal and early childhood education classrooms ³	Drinking, cooking, medicinal and any tap used for consumptive purposes ²
Number of Taps Sampled Per School/ Building (All or a Portion?)	A portion (excludes faucets that are not used for drinking) ³	A portion (excludes faucets that are not used for drinking/consumption) ²

Initial Sampling at Taps

Stagnation Period	8 to 18 hours ¹ or 8 to 24 hours ³	8 to 24 hours ^{2,3}
First Draw	Yes ^{1,3}	
Flushing Period	Not specified	
Second Draw (Flushed Sample)	Not specified	
Additional Initial Samples	Yes, large volume sampling optional for select outlets ³	
Sample Size of Water	250 mL ^{1,3}	
Action Level for Lead	5 ppb*; ^{1,3} Some took action at 15 ppb ¹	5 ppb ²

Action Required When Samples Exceed Action Level for Lead

Follow-Up Draws	Not specified	Recommended after fixture replacement by MDEQ ²
Flushing Period	Not specified	
Sample Size of Water	Not specified	
Additional Draws	Not specified	

*Action level used for further analysis in Early Adopters study

Testing/Remediation/Communication Information

Policy/Program Feature	Information from Policy/Program Documents	Additional Information from Communication with State
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Testing

Type of Lab Used for Testing	Certified lab, ¹ or EPA-certified lab or State of Michigan Laboratory ³	State-certified or State of Michigan lab ²
Sample(s) that Require Action if Results are Elevated	First draw ^{1,3}	First draw (any sample result that is greater than 5 ppb) ²

Remediation

Short-Term Measures	Yes, EPA-approved measures are listed ³	
Long -Term Measures	Yes, EPA-approved measures are listed ³	

Communication

Groups Notified of Test Results	School staff, parents ^{1,3} , government, general public ¹ , and students ³	School staff, students, parents and government ²
Type of Results Shared (outlet level, building level, school level)	Not specified	Building level ²

Sources:

1. Michigan Department of Environmental Quality. Final DEQ School Drinking Water Quality Program Report; 2017:1-21. Received by email on April 5, 2018.
2. Email Communication with Michigan Department of Environmental Quality Contact. June 2018.
3. Michigan Department of Environmental Quality. MDEQ Guidance on Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies. August 2016. http://www.michigan.gov/documents/deq/deq-samplingguidance-schoolsdayccares_522483_7.pdf. Accessed March 5, 2018.

Citation:

Cradock AL, Poole MK, Vollmer LY, Barrett JL, Flax C, Hecht CA. State Approaches to Testing School Drinking Water for Lead in the United States [State Profile: Michigan]. Boston, MA: Harvard Prevention Research Center on Nutrition and Physical Activity at the Harvard T.H. Chan School of Public Health; 2019. Available at <https://www.hsph.harvard.edu/prc/projects/school-research/early-adopters>. Address correspondence to Angie Cradock, ScD, MPE at acradock@hsph.harvard.edu.

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