



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

New Local Health Leader Orientation Summer 2022

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Drinking Water and Environmental Health Section

DWEHD Mission-
*Safeguarding
Michigan's
Drinking Water and
Environmental
Health*



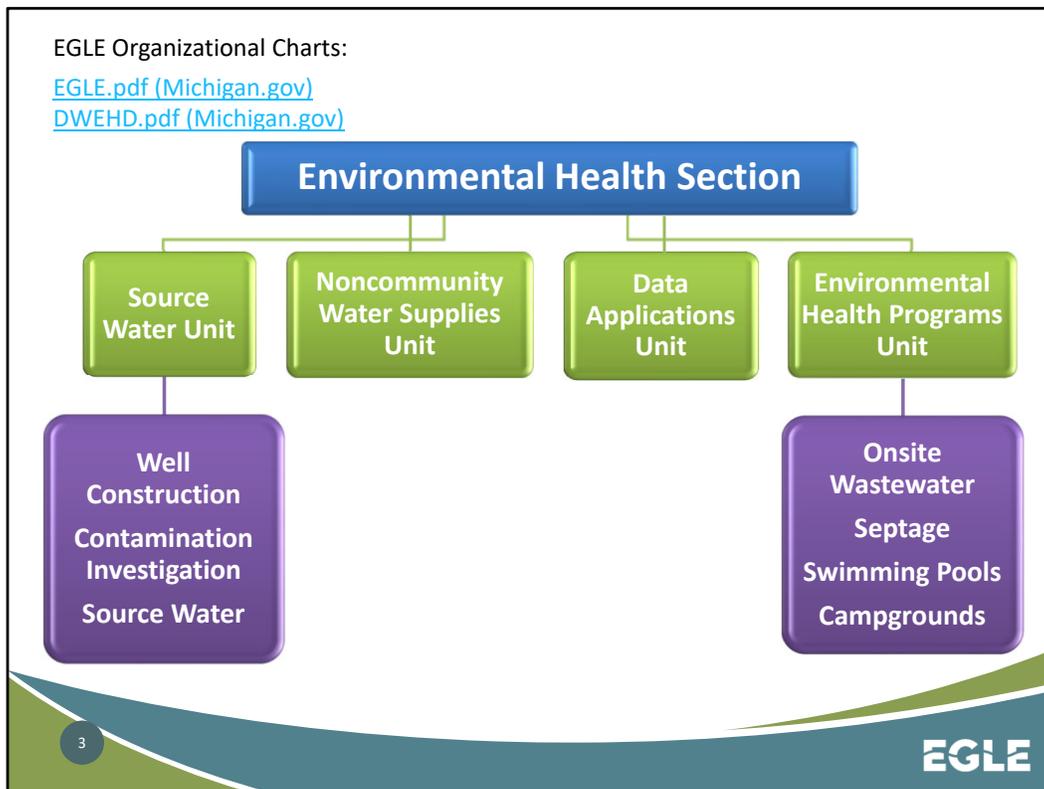
Vision-
*Michigan Values and Invests in
Safe and Reliable Water*

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EGLE

EGLE has approximately 1,100 employees with funding from federal sources (Environmental Protection Agency, Homeland Security, National Oceanic and Atmospheric Administration, etc.), fees (state restricted funds), interdepartmental grants, bonds, private/local funds, and state general funds.

The Environmental Health Section is part of the Drinking Water and Environmental Health Division. Environmental Health is the branch of public health concerned with all aspects of the natural and built environment affecting human health.



DWEHD Director: Eric Oswald

Assistant Division Directors: George Krisztian and Brian Thurston

EH Section Manager: Dana DeBruyn

Source Water Unit Supervisor: Sara Pearson -- A collection of broadly scoped programs that work with local health departments (LHD) and help water suppliers (including private supplies) to understand their drinking water resources, utilize them effectively, and recover if they become contaminated.

Noncommunity Water Supplies Unit Supervisor: Dan Dettweiler (Connor Wickham, Acting Supervisor Working Out of Class) -- The Program regulates noncommunity water supplies in the state to meet state and federal drinking water standards. The program regulates construction, operation, and maintenance. Noncommunity, or Type II, public water systems serve 25 persons or more or 15 service connections or more, for at least 60 days per year at facilities such as factories, schools, restaurants, campgrounds, churches, etc. The DWEHD contracts with local health departments (LHD) to provide technical assistance and administer the noncommunity water supply regulations. There are over 9,000 noncommunity water supplies in the state.

Data Applications Unit Supervisor: Ronda Page -- This unit manages the Division's IT applications and is managing the programming side of the IT Modernization investment, including the Michigan Environmental Health and Drinking Water Information System (MiEHDWIS).

Environmental Health Programs Unit Supervisor: Jeremy Hoeh -- A collection of broadly scoped programs that help protect our groundwater and surface waters and protect Michigan's residents and visitors as they recreate.

EGLE staff are assigned to LHDs for each Environmental Health Program.

EGLE staff:



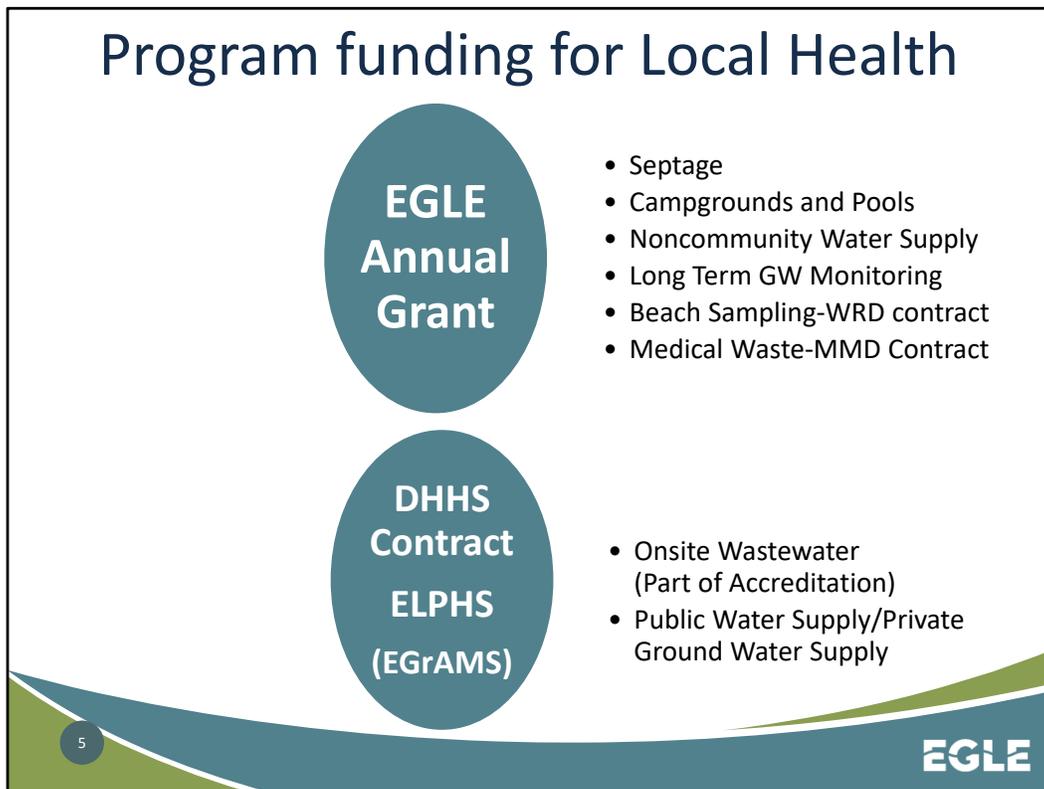
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EGLE staff regularly coordinates with other EGLE divisions, state and federal agencies, LHDs and various organizations.

EGLE staff develops and updates reference manuals and templates such as the NCWS Staff Reference Manual, the Local Health Department Guidance Manual for Private and Type III Water Supply Systems, and the Water Well Manual. Routine training also occurs.

Staff Coverage Area Maps can be found on the Program webpage at the end of this presentation.



TOTAL: over \$15 Million

EGLE DWEHD Annual Fiscal Year Grant amount for LHDs-combination of fees, state and federal dollars.

FY22: \$2.6 Million

DHHS Essential Local Public Health Services contract amount to LHDs for Onsite Wastewater and Drinking Water.

FY22: \$12.4 Million to LHDs. Significant Increase since FY19 due to a total Essential Local Public Health Services (ELPHS) \$6 Million increase triggered in part by a report from the Public Health Advisory Council.

[Essential Local Public Health Services Funding Report \(Michigan.gov\)](#)

SOURCE WATER UNIT

Well Construction Program

(Part 127 of Act 368)

LHD Role:

- ✓ Issue water well construction permits
- ✓ Inspect water wells
- ✓ Ensure water wells meet well code and permit requirements
- ✓ Conduct contractor enforcement, if needed
- ✓ MPRs 5-7



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The Well Construction Program protects public health by assuring that water wells are properly constructed, operated, and decommissioned in a technically sound manner under the authority of Part 127 of the Michigan Public Health Code, 1978 PA 368, as amended. Staff evaluate, test, and register new well drillers and pump installers. They also renew the annual registration of existing well drilling contractors, pump installers, dewatering contractors, and well drilling machines. There are approximately 800 registered contractors operating in Michigan. Under contract, LHDs implement the program statewide by issuing well construction permits and inspecting constructed wells for compliance with the well code. The DWEHD evaluates the work of the LHDs to assess their compliance with contract provisions.

SOURCE WATER UNIT Long Term Monitoring Program



LHD Role:

- ✓ Collect samples for groundwater contamination investigations
- ✓ Assist with obtaining alternate water sources
- ✓ Collaborate with RRD
- ✓ Educate the public on water quality concerns

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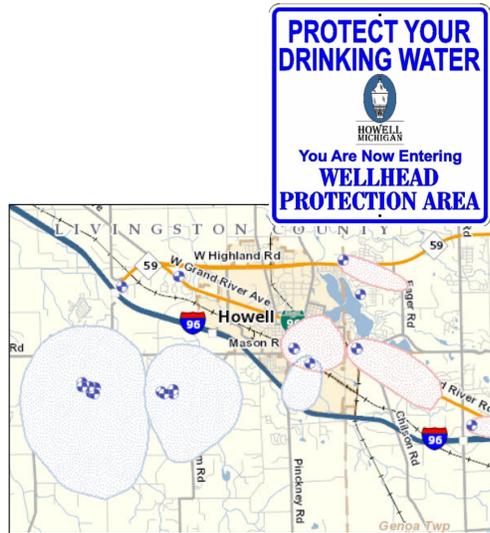
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The DWEHD assists LHDs in conducting drinking water quality investigations in areas of known or suspected environmental contamination. Staff advise LHD staff and others conducting groundwater quality investigations, in the selection of drinking water locations sampled, types of analyses needed to be performed, and scheduling of the Department of Environment, Great Lakes, and Energy (EGLE) Drinking Water Lab analysis. Staff also coordinate with DHHS staff, assist in drafting health advisory notices, and develop drinking water quality monitoring programs. The program is also responsible for administering drinking water replacement activities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). Staff develop contracts with local units of government to extend community water lines and well drillers to replace contaminated water wells. Provisions for providing bottled water, installing treatment devices, and abandoning wells are also administered by staff. Where groundwater contamination is found at levels posing a public health concern, staff secures alternative sources of drinking water.

SOURCE WATER UNIT Source Water Program

LHD Role:

- ✓ Conduct source water assessments on Nontransient Noncommunity Water Supplies



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Source Water Assessment:

This program provides long term protection of public water supply resources by assessing water supply vulnerability based on local geology, monitoring history, well construction, and location of potential contaminant sources for the groundwater systems and on intake location, raw water quality, and potential contaminant sources for the surface water sources.

Wellhead Protection:

Staff in the Wellhead Protection Program help local communities protect the groundwater source used to supply drinking water to the community. A Wellhead Protection Plan (WPP) minimizes the potential for groundwater contamination by identifying and protecting the area that contributes water to municipal water supply wells.

NONCOMMUNITY WATER SUPPLIES UNIT (Part 127 of Act 368 and Act 399)



LHD Role:

- ✓ Conduct sanitary surveys
- ✓ Ensure Federal monitoring requirements are being met
- ✓ Issue water well construction permits
- ✓ Inspect water wells
- ✓ MPRs 1-4

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The EPA reviews the State on Commitments and Common Goals, similar to MPRs.

The Program regulates construction, operation, and maintenance. Noncommunity, or Type II, public water systems serve 25 persons or more or 15 service connections or more, for at least 60 days per year at facilities such as factories, schools, restaurants, campgrounds, churches, etc. The DWEHD contracts with LHDs to provide technical assistance and administer the noncommunity water supply regulations. There are over 9,000 noncommunity water supplies in the state.

ENVIRONMENTAL HEALTH PROGRAMS UNIT

Onsite Wastewater Program

(Local Sanitary Codes, Act 59, Act 288, Act 368)

LHD Role:

- ✓ Issue onsite wastewater construction permits (<10,000 GPD)
- ✓ Inspect newly installed systems
- ✓ Evaluate vacant property
- ✓ Conduct plat review
- ✓ Investigate sewage related complaints



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Onsite Wastewater Program:

Subdivision, site condominium, and land division review and approvals per the Condominium Act, Land Division Act, and Onsite Water Supply and Sewage Disposal Rules for Land Divisions and Subdivisions.

There are more than 1.3 million onsite wastewater systems (septic systems) in Michigan. In Michigan, there is no statewide code for onsite wastewater systems for single and two-family homes or commercial systems smaller than 1,000 gallons of wastewater per day. Each county has their own sanitary code to regulate these systems.

Currently, the regulation of all residential and smaller commercial onsite wastewater systems is done through county-level sanitary codes (with administration of the Michigan Criteria for Subsurface Sewage Disposal through DWEHD staff). The primary function of the Onsite Wastewater Program is to ensure that water supplies (surface and ground waters) are protected by confirming that onsite wastewater treatment systems are adequately designed, operated, and maintained. LHDs are responsible for evaluating soils and other conditions, issuing permits for construction, and conducting site visits during system construction to ensure compliance with their local codes. DWEHD staff assist LHDs in subdivision, condominium, and land division reviews and approvals. DWEHD provide additional support and training to LHD staff with regards to onsite wastewater topics. Contacts regarding concerns/complaints about getting a septic permit from a LHD or issues

with a failed septic system should be forwarded to this program.

Accreditation: Onsite Wastewater Treatment Management is an essential local public health service required under the Michigan Public Health Code for each LHD.

ENVIRONMENTAL HEALTH PROGRAMS UNIT

Septage Program

(Part 117 of Act 451)



LHD Role:

- ✓ Inspect septage pumping vehicles
- ✓ Inspect septage waste receiving facilities
- ✓ Inspect septage land applications sites
- ✓ Investigate complaints

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Septage Program:

The Septage Program provides the regulatory framework (Part 117 of NREPA) under which human waste pumped from private septic systems can be recycled onto agricultural and other lands as a fertilizer or soil amendment or taken to Septage Waste Receiving Facilities (SWRF) for treatment/disposal. There are approximately 130 permitted septage land application sites, 1,000 licensed septage waste vehicles and 365 licensed septage waste businesses operating in Michigan. Thirty-eight County/District Health Departments contract with DWEHD to inspect and enforce septage waste requirements and the DWEHD has all regulatory obligations in six (6) counties. DWEHD program responsibilities include SWRF and Septage Waste Storage Facility construction plan review and approval, SWRF Operating Plan approval, business license issuance, vehicle license issuance, land application site approval, continuing education course approval, and inspections for those counties not covered by LHDs.

ENVIRONMENTAL HEALTH PROGRAMS UNIT

Campground Program

(Part 125 Act 368)



LHD Role:

- ✓ Inspect campgrounds annually
- ✓ Inspect temporary campgrounds

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Campground Program:

DWEHD staff annually license over 1,300 campgrounds under the authority of the Michigan Public Health Code, 1978 PA 368, as amended, and associated Administrative Rules. Campgrounds are required to provide safe drinking water, proper sewage and garbage disposal, site maintenance and upkeep, and other activities as required ensuring public health protection.

Annual inspections are performed by LHD staff with copies of inspection reports submitted to DWEHD for evaluation for future licensing. DWEHD program responsibilities include preliminary site evaluation to determine feasibility of development and limitations, construction plan review and design approval for new campgrounds or modifications to existing ones, issuing permits for construction or modifications; inspections of completed construction prior to licensing; and regulatory oversight and enforcement. All 45 City/County/District Health Departments inspect and enforce the campground requirements.

EGLE staff issue construction permits, conduct inspections, manage activities associated with the collection of annual fees, and initiate enforcement actions when necessary.

ENVIRONMENTAL HEALTH PROGRAMS UNIT

Public Swimming Pool Program

(Act 368)

LHD Role:

- ✓ Inspect public swimming pools
- ✓ Review monthly operational reports



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Public Swimming Pool Program:

Public swimming pool construction and operational practices are regulated under the authority of the Michigan Public Health Code, 1978 PA 368, as amended, and associated administrative rules.

Between 5,000 and 6,000 pools are licensed in Michigan. Each pool is inspected at least annually by the LHD. Like the Campground Program, annual inspections are performed by LHD staff with copies of inspection reports submitted to DWEHD for evaluation for future licensing. DWEHD program responsibilities include construction plan review, construction permit issuance, equipment change approval, and licensing. Forty-five LHDs (all County/District LHDs plus City of Detroit) perform pool inspections.

EGLE staff license approximately 6,000 public swimming pools and issue up to 200 pool construction permits per year. Pools must meet requirements such as having the proper safety equipment, filtration and flow rates, water quality and disinfection, appropriate number of lifeguards, etc. to protect public health and safety.

Timelines/Responsibilities

LHDs submit program reports quarterly:

- Private and Type III Water Supplies
- [Onsite Wastewater](#)
- Noncommunity Water Supplies

LHDs submit inspection reports as performed:

- Swimming Pools* and Campgrounds*
- Septage*
- Contamination Investigation Health Advisory letters

*LHDs MiEHDWIS can submit via MiEHDWIS portal

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P3: LHDs submit quarterly reports of # wells issued, # drilled, # plugged, # field inspections, etc. as well as # violation noted. EGLE reviews programs through the summer and fall with field visits and extensive office reviews and provide the LHD with an evaluation of whether they meet MPRs. Those not meeting MPRs must submit a corrective action plan for approval. LHDs have the option of conducting self evaluations.

Onsite Wastewater: Quarterly reports (link to webpage) and DHHS accreditation schedule.

Contamination Investigation: LHDs collect samples in support of the long-term monitoring program. Samples are collected on site specific schedules and may occur throughout the year. In the late summer and early fall EGLE divisions generate a list of sites for the coming fiscal year and present to the LHD for review. LHD is paid per sample collected and schedule the samples according to their staff's availability within the scope of the sampling schedule indicated by EGLE (i.e., site must be sampled quarterly and the LHD selects the specific days, etc.).

NCWS: Daily and quarterly work is completed within 45 days after the end of each quarter, and an email requesting quarterly payment is sent to EGLE-WaterTrack@Michigan.gov. Scheduling of annual evaluations begins in October of each year, and office and field reviews occur in November – March, generally. Evaluation formats can be traditional, self-assessment, or 'real-time' continual

throughout the year in the context of routine work with the EGLE representative present.

In FY22 all programs under the EGLE grants are requiring quarterly reimbursement process to utilize a Financial Status Report form. The goal is for EGLE to pay LHDs in a timelier manner.

Common Calls to DWEHD

- Classification of a Public Water Supply
- Deviation requests
- Hydrogeologic reviews
- MiEHDWIS log in and use
- Land Division, Site Condo, Subdivision Reviews
- Non-residential Onsite Wastewater
 - Evaluations for change of use
 - Permitting authority-Role of WRD

EGLE EH Webpages

- [Drinking Water \(Michigan.gov\)](#)
- [Water Well Construction \(Michigan.gov\)](#)
- [Welogic \(Michigan.gov\)](#)
- [Noncommunity Water Supply \(Michigan.gov\)](#)
- [Contamination Investigation \(Michigan.gov\)](#)
- [Septage \(Michigan.gov\)](#)
- [Onsite Wastewater Management \(Michigan.gov\)](#)
- [Campgrounds \(Michigan.gov\)](#)
- [Public Swimming Pools \(Michigan.gov\)](#)
- [Michigan Environmental Health and Drinking Water Information System \(MiEHDWIS\)](#)

LHDs also collaborate with these EGLE Programs [Our Programs \(Michigan.gov\)](#)

- Drinking Water and Environmental Health
 - Community Water Supply (Act 399)
 - Secondary Treatment
- Office of Clean Water Public Advocate
- MPART
- Water Resources Division [Water Resources Division \(Michigan.gov\)](#)
 - Large quantity water withdrawals (Part 327)
 - >10,000 GPD wastewater construction permits (Part 41)
 - Groundwater discharge permits (Part 31)
 - Soil erosion and sedimentation control (Part 91)
 - Beach monitoring [Beach Water Monitoring \(Michigan.gov\)](#)

LHDs also collaborate with these EGLE Programs, continued

- Remediation and Redevelopment Division [Remediation and Redevelopment Division \(Michigan.gov\)](#)
 - Contamination sites (Part 201 and Part 213) including PFAS & Vapor Intrusion
 - Environmental and Drinking Water Lab [Laboratory Services \(Michigan.gov\)](#)
- Materials Management Division
 - Indoor radon testing
 - Recycling
 - [Medical Waste Regulatory Information \(Michigan.gov\)](#)
- Emergency Management
- Pollution Emergency Alerting System (PEAS) 1-800-292-4706
- Recorded Trainings [Past Events and Recorded Webinars \(Michigan.gov\)](#)
- Maps and Data [EGLE Maps & Data \(ARCGIS.com\)](#)

Michigan Department of
Environment, Great Lakes, and Energy

800-662-9278
Michigan.gov/EGLE



Michigan.gov/DrinkingWater

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