

Section VI: On-Site Wastewater Treatment Management

MPR I

The local health department shall have a wastewater treatment regulation capable of protecting the public health legally adopted under enabling state legislation. The regulation shall authorize an enforcement process that is utilized and includes the capability to deny permits, issue orders for corrections of failed systems, and/or other remedies for construction without a permit or for violating an order.

References: Sections 2433 through 2446 of the Public Health Code, 1978 PA 368, as amended; Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and Part 22, administrative rules.

Indicator I.I

Documentation that a wastewater treatment regulation is contained in a local sanitary code or ordinance legally adopted by the authorized local governing entity.

To fully meet this indicator:

The local health department maintains on file a copy of the local sanitary code and documentation confirming it has been legally adopted.

Documentation Required:

- Local health department sanitary code, ordinance and/or other regulation(s).
- Documentation from the authorized local governmental bodies that confirms the sanitary code, ordinance and/or other regulation(s) have been legally adopted.

Compliance Measurement:

Determine that documentation is provided that demonstrates the wastewater treatment regulation contained in the local sanitary code, ordinance, and/or other regulation(s) specific to wastewater treatment systems are legally adopted by the authorized local governing entity.

Evaluating Compliance:

Met - The local sanitary code, ordinance, and/or other regulation(s) have been lawfully adopted.

Met with Conditions – The local sanitary code, ordinance, and/or other regulation(s) have been lawfully adopted; however, evidence exists that the agency is operating outside of the authority of the local sanitary code, ordinance, and/or other regulation(s).

Not Met - The local sanitary code, ordinance, and/or other regulation(s) are not lawfully adopted.



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Indicator 1.2

Evidence that the local wastewater treatment regulation authorizes enforcement measures, including permit denials, correction orders, and/or other remedies.

The local health department maintains on file the specific sanitary code provisions that define the basis of denial and enforcement.

Documentation Required:

- Local health department sanitary code, ordinance, and/or other regulation(s).
- Local health department on-site wastewater policy manual.

Compliance Measurement:

- Determine that the local sanitary code or ordinance and other regulations authorize an enforcement process that includes:
 - Capability to deny permits,
 - o Issue orders for system failure corrections,
 - Other remedies for construction without a permit or violating an order.
- Determine that the local sanitary code or written guidelines or policies are in existence that directs enforcement activities.

Evaluating Compliance:

Met - The review determines all of the following:

- The local sanitary code, ordinance, and/or other regulation(s) contain provisions for enforcement.
- The local sanitary code or written guidelines or policies exist that provide direction on uniform procedures for enforcement.

Met with Conditions – The review determines that the local sanitary code, ordinance, and/or other regulation(s) contain provisions for enforcement; however, evidence exists that the code or agency's written guidelines and/or policies provide inadequate direction on enforcement procedures.

Not Met - The local sanitary code, ordinance, and/or other regulations do not contain provisions for enforcement.



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Indicator 1.3

Evidence that actual enforcement measures are utilized.

To fully meet this indicator:

The local health department maintains on file, retrievable documentation for denials and/or enforcement actions.

Documentation Required:

- Logbooks, computer database, and/or other method used to document and track enforcement.
- Examples of enforcement.

Compliance Measurement:

- Determine if permit denials exist.
- Determine if enforcement actions exist, which could include any of the following:
 - o Record of actions taken on complaints regarding on-site wastewater.
 - o Installation compliance orders.
 - o Record of actions taken against recalcitrant installation contractors.
- Determine that the agency is following the code provisions or written guidelines or policies.

Evaluating Compliance:

Met – The review determines all of the following:

- Evidence of enforcement exists in logbooks, computer database, and/or other examples of enforcement actions.
- The agency is following the code provisions or written guidelines or policies.

Met with Conditions - The review determines any of the following:

- There is evidence of enforcement action being taken; however, such actions are not being routinely documented.
- The agency is inconsistently following code or the written guidelines and/or policies.

Not Met – The review determines any of the following:

- Enforcement measures as provided by the local sanitary code, ordinance, and/or other regulation(s), and/or the agency's written guidelines, and/or policies to direct staff on uniform enforcement procedures are not being taken by the agency.
- The agency cannot provide retrievable documentation of enforcement actions authorized by the code.



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MPR 2

The local health department shall evaluate all parcels of land and authorize the installation of any onsite wastewater treatment system in accordance with applicable regulation(s). The evaluation shall employ a site specific physical assessment of the soil's treatment and transport capacity and determine compliance with applicable regulations. Site conditions, including soil profile data obtained from on-site evaluations, shall be accurately documented. Documentation shall be maintained in an organized and functional filing system that provides retrievable information.

References: Sections 2433 through 2446 of the Public Health Code, 1978 PA 368, as amended; Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; Part 22, administrative rules; and Part 4, Department of Environmental Quality Administrative Rules for On-Site Water Supply and Sewage Disposal for Land Divisions and Subdivisions, R 560.406 to R 560.428.

Indicator 2.1

Documentation of a site evaluation visit, which includes the soil characteristics, seasonal high water table, slope, isolation distances, location, and available area for initial and replacement systems.

To fully meet this indicator:

The local health department maintains on file recorded results of site evaluation visits that accurately document the required information.

Documentation Required:

- Sample Random selection of wastewater permit documents (per Appendix A Permit Selection Protocol) inclusive of site evaluation documentation.
- Local health department on-site wastewater policy manual.

Compliance Measurement:

- Determine that documentation of all site evaluations minimally identify the following essential elements:
 - The location of the soil boring(s) or excavation(s) which establish the approved area for the proposed absorption system to be installed shall be documented in a verifiable manner. See Appendix B.
 - Soil profile data
 - Soil texture for each distinct horizon* inclusive of topsoil to the depth of the boring or excavation.
 - Thickness of each soil horizon to the depth of the boring or excavation.

*Note- A horizon for the purpose of this guidance is defined as a soil layer which has a uniform texture.

Seasonal high water table



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- Clearly document if absent, and,
- Specific depth when present in the soil profile.
- Determine that site factors that may affect system design and construction, including slope and required isolation distance, are evaluated and noted on documentation when applicable.
- Determine that the location and area available for initial and replacement systems is considered as part of the site
 evaluation*.

*Note: The requirement for identifying a replacement system applies to issuance of new construction permits only.

Evaluating Compliance:

Met - At least 80 percent or more of site evaluation documents reviewed contain all of the essential elements.

Met with Conditions – At least 70 percent or more of site evaluation documents reviewed contain all of the essential elements.

Not Met – Less than 70 percent of the documents reviewed contain all of the essential elements

Indicator 2.2

Permit documentation of the system location, design installation requirements, pertinent site characteristics, and nature of the building development.

To fully meet this indicator:

The local health department maintains on file the detailed plan and specifications prepared for each system for which a permit has been issued. The plan and specifications shall accurately define initial and replacement system location*, size, other pertinent construction details, and include documentation of variances, when granted.

*Note: The requirement for identifying a replacement system applies to issuance of new construction permits only.

Documentation Required:

- Sample Random selection of wastewater permit documents (per Appendix A Permit Selection Protocol).
- Local health department on-site wastewater policy manual.



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Compliance Measurement:

Permit documentation includes the following essential elements:

- Absorption System Location The approved location for the absorption system identified during the site
 evaluation shall be communicated by an acceptable method (see Appendix B) as part of the following:
 - o Drawing, or
 - Description
- Design/Installation Requirements
 - o Specifications for system components that are to be installed, including treatment units, sizing of septic tank(s) and pump tank(s); type of absorption system, size and depth; and type of fill, if needed
 - o Requirements for inspections are identified.
- Pertinent Site Characteristics
 - o Isolation to water wells, surface water, slope, or other factors are identified as appropriate.
- Replacement Area A replacement area is identified as part of a new construction permit as follows:
 - o Drawing, or
 - o Description

Evaluating Compliance:

Met - At least 80 percent or more of wastewater permit documents reviewed contain all of the essential elements.

Met with Conditions – At least 70 percent or more of wastewater permit documents reviewed contain all of the essential elements.

Not Met – Less than 70 percent of the documents reviewed contain all of the essential elements.

Indicator 2.3

There is evidence of an organized filing system allowing for retrieval of information.

To fully meet this indicator:

The local health department maintains an organized filing system with retrievable information.



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Documentation Required:

- Filing system, computer database and/or other method used to retain information relevant to the wastewater treatment program.
- Local health department on-site wastewater policy manual.

Compliance Measurement:

Determine that the results of site evaluations and wastewater permit information are retained in an organized manner and is retrievable.

Evaluating Compliance:

Met – There is an organized filing system, computer database, and/or other method that allows for the consistent retrieval of information.

Met with Conditions – There is an established filing system, computer database, and/or other method to retain information; however, it is not maintained up-to-date to allow for consistent retrieval of information.

Not Met – There is no evidence of an organized filing system, computer database and/or other method to retain information.



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MPR 3

The local health department shall conduct an inspection during construction or prior to covering of the system, or shall apply an alternate method to assure the completed wastewater treatment system complies with permit requirements. Documentation of an inspection or alternate approval method shall be maintained with the permit.

References: Sections 2433 through 2446 of the Public Health Code, 1978 PA 368, as amended; Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and Part 22, administrative rules.

Indicator 3.1

Documentation of construction and/or final inspection by the local health department or record of an alternate process to support the approval of the installation in accordance with the permit.

To fully meet this indicator:

The local health department shall conduct an inspection of all systems prior to final cover. The local health department maintains on file an accurate individual record of each inspection conducted during construction of each system. Unless otherwise specifically authorized, installer affidavits, which provide an accurate record of system installation, are maintained on file in isolated cases, representing no more than 10 percent of the total number of final inspections requested, where constraints prohibit inspection by the local health department in a timely manner.

Documentation Required:

- Logbooks and/or computer database.
- Sample Random selection of wastewater permit documents (per Appendix A Permit Selection Protocol) inclusive of a final inspection or installer affidavits.
- Local health department on-site wastewater policy manual.

Compliance Measurement:

- Determine that the final inspection completed by the local health department includes a drawing and verification of system components including the following essential elements:
 - o Septic Tank(s), pump chamber, and enhanced treatment units
 - Size (septic tanks and pump chambers), as specified on the permit and/or documentation of size installed if different
 - Make and Model Number of treatment unit(s), if applicable
 - Location See Appendix C
 - Absorption Area
 - Size, as specified on the permit and/or documentation of size installed, if different
 - Location See Appendix C

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- Documentation of follow-up inspections when required by the local health department
- Date of final inspection
- o Name or initials of staff person conducting the inspection
- Affidavits If used:
 - Unless specific authorization has been granted, determine that no more than 10 percent of the total numbers of final inspections are installer affidavits through the logbook and/or database or other method that documents affidavit use.
 - Determine that documentation of installer affidavits for final inspections include the following essential elements:
 - A drawing and component verification which identifies the essential elements and key components outlined in Compliance Measurement I. a and b
 - Date of the installation
 - The installer's name

Evaluating Compliance:

Met - The review determines all of the following:

- No more than 10 percent of the final inspections are by affidavit without specific authorization.
- At least 80 percent of the final inspection documents (including affidavits, if used) reviewed contains all of the
 essential elements.

Met with Conditions – The review determines all of the following:

- No more than 10 percent of the final inspections are by affidavit without specific authorization.
- At least 70 percent of the final inspection documents reviewed contains all of the essential elements.

Not Met – The review determines any of the following:

- More than 10 percent of the final inspections are by affidavit.
- Less than 70 percent of the final inspection documents reviewed contains all of the essential elements.



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MPR 4

The local health department shall respond to all wastewater system complaints and maintain records of complaint resolutions.

References: Sections 2433 through 2446 of the Public Health Code, 1978 PA 368, as amended; Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and Part 22, administrative rules.

Indicator 4.1

Documentation that all complaints are recorded, evaluated, and investigated, as appropriate.

To fully meet this indicator:

The local health department maintains complaint forms and a filing system containing results of complaint investigations and documentation of final resolution.

Documentation Required:

- Logbooks, computer database, and/or a filing system for complaints regarding on-site wastewater.
- Sample Random selection of complaints regarding on-site wastewater.
- Local health department on-site wastewater policy manual.

Compliance Measurement:

- Determine that a computer database, and/or filing system exists for retention of the results of complaint investigations.
- Determine that complaints regarding on-site wastewater are logged, investigated, and final resolution is documented as appropriate.
- Determine that a tracking system exists for complaints regarding on-site wastewater to assure final resolution.

Evaluating Compliance:

Met – Complaints as received are logged and investigated; an effective tracking system exists which is used to determine complaint status; and a record of final resolution is documented.

Met with Conditions – The majority of complaints as received are logged and investigated; however, the tracking system is not utilized effectively and as a result, a record of final resolution is not documented in all instances.

Not Met - Complaints as received are not logged and/or not investigated.



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MPR 5

The local health department shall investigate, document and evaluate the probable cause(s) of system failure.

References: Sections 2433 through 2446 of the Public Health Code, 1978 PA 368, as amended; Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and Part 22, administrative rules.

Indicator 5.1

Approval of permits where the system has failed*, includes retrievable documentation, when available, of the age, design, site conditions; and any other pertinent data allowing for assessment of probable reason(s) for failure and there is an annual summary of data submitted to the Department of Environmental Quality (DEQ).

*Note: For the purpose of this guidance, a soil absorption system is considered to have failed when it backs up into the home, discharges to the ground surface, or contaminates surface water or drinking water supplies.

To fully meet this indicator:

- The local health department maintains a filing system for all failed systems that includes retrievable documentation;
 AND
- Annual failed system data summaries are prepared and are on file.

Documentation Required:

- Filing system and/or computer database for retention of evaluation data regarding failed systems.
- Copy of the form that is utilized for the collection of site/system data when the available standardized form in Appendix D, is not utilized. The collection form shall contain the following minimum data elements:
 - o System age
 - Design type and sizing
 - o Site conditions soil texture and seasonal high water table
 - o The probable cause(s) of failure
- Sample Random selection of failed systems evaluation forms.
- Local health department on-site wastewater policy manual.

Compliance Measurement:

- Determine that evaluations are conducted on all failed wastewater treatment systems.
- Determine that the filing system and/or computer database or other method exists for data retention.
- Determine that annual failed system data summaries are routinely provided to the DEQ.



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Evaluating Compliance:

Met – The review determines all of the following:

- A filing system and/or computer database exists for retention of evaluation information and allows for ease of retrieval.
- All of the minimum data elements are being collected on at least 80 percent of failed system evaluations reviewed.
- Annual summaries of failed system data are provided to the DEQ for input into the state-wide failed system database (see Appendix D).

Not Met – The review determines any of the following:

- Evaluations of failed on-site wastewater treatment systems are not occurring, or minimum data elements are being collected on less than 80 percent of failed system evaluations reviewed.
- A filing system and/or computer database does not exist for retention of failed system data.
- Annual failed system data submissions have not been provided to the DEQ for input into the state-wide data summary system (see Appendix D).



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Appendix A

PERMIT SELECTION PROTOCOL

<u>Goal</u> – To collect and evaluate a representative random number of finaled wastewater permits to evaluate compliance with the On-Site Wastewater Treatment Management program indicators VI-2.1, VI-2.2, and VI-3.1.

Method

- The sample size for permit reviews will be determined by taking an annual average of permits issued over the review cycle period (previous three years) by 4 percent, or
- Five (5) permits for each staff member with assigned responsibility for the on-site wastewater program will be sampled.

Whichever method above produces the highest permit sample population will be utilized.

Rationale: There is great variability in health departments within the State in terms of the total number of wastewater permits issued and staff members working in the on-site wastewater program. This system has been developed to balance the variability and create a fair and equitable review process.

Note: Departments with multiple offices will be sampled individually in proportion to the number of permits issued or number of staff members working in the on- site wastewater program in each office.

Examples:

- 1. A department that has reported issuing 300 wastewater permits in a fiscal year with two staff members working the on-site wastewater program will have a permit sample size of 12 permits.
 - 300 permits x 4% = 12 permits sampled
 - 2 staff members x 5 permits each = 10 permits sampled
- 2. A department that has reported issuing 1800 wastewater permits in a fiscal year with twelve staff members working the on-site wastewater program will have a permit sample size of 72 permits.
 - 1800 permits x 4% = 72 permits sampled
 - 12 staff members x 5 permits each = 60 permits sampled
- 3. A department that has reported issuing 350 wastewater permits in a fiscal year with five staff members working the on-site wastewater program will have a permit sample size of 25 permits.
 - 350 permits x 4% = 14 permits sampled
 - 5 staff members x 5 permits each = 25 permits sampled



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Additional information is obtained and consequently additional weight is given to newly permitted systems. To accomplish this, the sample size will be multiplied by a ratio of replacements to new systems, which is 1:2 (2/3).

Example: If 60 wastewater permits sampled for the review:

• 60 x (2/3) results in 40 new system permits and 20 replacement system permits to be randomly sampled and reviewed.

At the time of review, where information which suggests that original random sample of permits has resulted in the selection of a permit or permits which are not representative of the program, the evaluator is allowed discretion with concurrence of the local health department to eliminate and replace permits and/or increase the overall sample size.

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Appendix B

SOIL BORING/EXCAVATION LOCATION DOCUMENTATION

The wastewater treatment system location and design will be based on the information provided by the site and soil evaluation. A site and soil evaluator should be capable of properly conducting site and soil investigations and accurately recording required information so as to be able to communicate the location of the approved area. Various acceptable methods are utilized to record the location of soil boring(s) and/or excavation(s). Soil investigations which have been accurately located allow for the translation of this information onto the subsequent permit documentation utilized in communicating the system design to the installer.

The location of the soil boring(s) or excavation(s) which establish the area for the proposed absorption system shall be documented. Based on completed reviews of local health departments, a range of acceptable methods have been observed. Acceptable methods for documenting the soil boring/excavation location(s) as part of a site evaluation under the On-Site Wastewater Treatment Management program, indicator VI-2.1 include:

- I. Two distance measurements from one or more reliable reference points* to the soil boring/excavation location(s).
- 2. Single compass bearing and distance measurement from a reliable reference point* to the soil boring/excavation location(s).
- 3. Scaled drawing which shows the soil boring/excavation location(s).
- 4. In cases of repair/replacement systems, a single distance measurement from an existing permanent benchmark** such as a home, garage, shed, etc. located in close proximity (50 feet) to the soil boring/excavation location(s).
- 5. Other verifiable method which has been authorized based upon communication with the department. As an example, a number of local health departments have requested and received authorization to utilize a Global Positioning System (GPS) technology to document the soil boring/excavation location(s).

*A reliable reference point is one of a permanent nature expected to be present at the time of absorption system installation, including GPS satellites or one which can be reestablished in the field.

** A benchmark is a specific point of reference from which measurements are made which is expected to remain unchanged throughout the life of the system installation.

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Appendix C

FINAL INSPECTION DOCUMENTATION Locating Key Components

Documentation obtained during the final inspection process not only assures that the system has been properly constructed in accord with the permit requirements but provides necessary information on location of key components including the septic tank, absorption system and other specific components such as pump chambers, enhanced treatment units, etc. The availability of a final inspection drawing which accurately locates these key components serves as an important record for the homeowner, maintenance provider and local health department necessary to provide for effective on-going system management after construction.

Based upon completed reviews of local health departments, various acceptable methods are utilized to document the location of key components which allow for them to be relocated at a later date. With rare exception, at the time of final inspection there are a variety of potential permanent benchmarks** located in close proximity to the installation. Acceptable methods for documenting the location of key components include:

- I. Two distance measurements from one or more permanent benchmarks** to septic tanks, pump chambers, enhanced treatment units and absorption areas. Additional options available to absorption areas only, include:
 - i. A single distance measurement from a permanent benchmark** is acceptable to the absorption area in instances where the system is located within close proximity (25') to the permanent benchmark**,
 - ii. A single distance measurement from a permanent benchmark** is acceptable to a mound system which creates a distinct and separate visible land feature.
- 2. Single bearing and distance measurement from a permanent benchmark**.
- 3. Scaled drawing which shows the component location(s).
- 4. Notation on a drawing of general location of at-grade or above-grade septic tank risers, pump chamber lids, treatment unit access lids or absorption system observation ports where utilized.
- 5. Other verifiable method which has been authorized based upon communication with the department. As an example, a number of local health departments have requested and received authorization to utilize a Global Positioning System based technology to document the location of key components.

** A benchmark is a specific point of reference from which measurements are made which is expected to remain unchanged throughout the life of the system installation.



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Appendix D

<u>Failed System Evaluation</u> Data Collection and Submissions

For the purpose of this guidance, a failed system shall be defined as follows: A soil absorption system is considered to have failed when it backs up into the home, discharges to the ground surface, or contaminates surface water or drinking water supplies.

Indicator 5.1 (Failed System Evaluation) is comprised of three distinct components; (1) collection of failed system/site data, (2) reporting of summarized failed system data to the Department of Environmental Quality (DEQ), and (3) an annual summary report generated by the DEQ and distributed to local health departments.

<u>DEQ Failed System Data Collection Forms (Non-Residential and Residential)</u> – are the mechanisms for capturing all the minimum data elements of this indicator. All failed system data collection forms utilized must contain the minimum data elements captured in these forms. The option to utilize the DEQ standard data collection forms is at the discretion of the local health department. Individual health departments may create and utilize their own forms to collect and analyze information in addition to the minimum elements of this indicator. Consultation with the DEQ is recommended if a health department specific form will be utilized to meet this indicator.

Note: Guidance for completion of the data collection forms has been created to foster consistency in the process of data collection. See the document entitled, "Failed System Data Collection Form – Guidance".

<u>DEQ Failed System Data Submission Forms (Non-Residential and Residential)</u> – are the mechanisms that will be utilized to summarize the data collected on the DEQ Failed System Data Collection Forms (or equivalent forms as discussed above) and for the annual submission of failed system data to the DEQ. Data submissions shall be received within 30 days after the close of each calendar year (February I). Other methods of data summary and submission may be utilized by local health departments. Consultation with the DEQ is recommended when a health department specific form/database will be utilized to meet this indicator.

The third component will be an annual report generated by the DEQ that will be distributed to all local health departments. The DEQ annual report will summarize all local health department data submissions.



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Date:

DEQ Failed System Data Collection Form - Non-Residential					
Address:		Towns	hip:	Cou	nty:
Facility Type: Ch	_	Medical [ore 🗌 Industrial
Estimated Flows: [<u> </u>	_		5,001 – 10,000	
Septic Tank Type: Single	☐ Two Compart	ment	☐ More Thai	n One Tank	☐ No Tank
Septic Tank Capacity – Gallons: □ <1,000 □ 1,000 – 1,500 □ >1,500 – 2,000 □ >2,000 – 3,000 □ >2,000 □ >2,000 – 3,000 □ >2,000 □ >2,000 – 3,000 □ >2,0					
<u> </u>	Unknown				
Advanced Treatmen	nt Unit 🗌 Yes	☐ No If yes	s, Treatment Ur	nit Name:	
System Design: Gravity Bed	☐ Dosed	Bed	Pressure [Posed Bed	☐ None
Gravity Trenche	es Dosed	Trenches	Pressure D	Dosed Trenches	Unable to Determine
☐ Gravity Mound	☐ Dosed	Mound	Pressure D	Oosed Mound	
Chambers	☐ Drywe	ells	Other		
System Age: (years)	□ 0 − 5□ 26 − 30	_	□ 11 – 15 □ > 40	☐ 16 – 20	□ 21 – 25
Soil Texture: Coarse Sand, Medium Sand Fine Sand, Loamy Sand Sandy Loam					
Loam, Sandy Cl	ay Loam	☐ Cla	y Loam, Silt Loa	am	Clay, Silt
Organic soil, Fill soil					
Seasonal High Water Table: 0 - 12 13 - 24 25 - 36 37 - 48 > 48 > 48					



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System Size: Bed ft ² Trend	chesbottom area f	t² Unable to Determine
Probable Cause(s) of Failure: Septic Tank Failure	☐ Infrequent Tank Pumping	☐ Pipe Filled with Solids
☐ Damaged/Collapsed Piping System	☐ Hydraulic Overload	System Undersized
Insufficient Isolation to Water Table	Root Intrusion	☐ Installation Error
Unsuitable Fill	☐ Dirty Stone	Excess Cover
Lack of Maintenance	Soil Clogging	Unable to Determine
Other:		



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				Date:
<u> </u>	DEQ Failed Syste	m Data Colle	ction Form – Resi	<u>dential</u>
Address:		Township: _	(County:
Dwelling Type:	Single Family	☐ Two-Fam	nily	
Dwelling Size:	2 Bedrooms	3 Bedrooms	4 Bedrooms	>4 Bedrooms
Septic Tank Type: Single	☐ Two Compartm	nent	1ore Than One Tank	☐ No Tank
Septic Tank Capaci	ty – Gallons:	☐ >1,500 –	2,000	- 3,000
<u> </u>	Unknown			
Advanced Treatme	nt Unit Yes	☐ No If yes, Trea	tment Unit Name:	
System Design: Gravity Bed Gravity Trench	☐ Dosed I		ressure Dosed Bed ressure Dosed Trencl	☐ None
☐ Gravity Mound	_		ressure Dosed Mound	Determine
Chambers	☐ Drywell	s 🗌 C	Other	
System Age: (years)	□ 0 − 5□ 26 − 30□	<u> </u>	1 − 15	_
Soil Texture: Coarse Sand, N	1edium Sand	Fine Sand	, Loamy Sand	Sandy Loam
Loam, Sandy Clay Loam		Clay Loa	m, Silt Loam	Clay, Silt
Organic soil, Fi	ll soil			
Seasonal High Wat	<u>—</u>	2	<u> </u>] 37 – 48
System Size: Bed _	ft² Tre	enches	bottom area ft²	Unable to Determine



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Probable Cause(s) of Failure: Septic Tank Failure	☐ Infrequent Tank Pumping	☐ Pipe Filled with Solids
☐ Damaged/Collapsed Piping System	Hydraulic Overload	System Undersized
☐ Insufficient Isolation to Water Table	Root Intrusion	Installation Error
Unsuitable Fill	☐ Dirty Stone	Excess Cover
☐ Lack of Maintenance	Soil Clogging	Unable to Determine
Other:		



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Failed System Data Collection Form - Guidance

In May 2010, a workgroup consisting of representatives of the Department of Environmental Quality (DEQ) and the former MALEHA Environmental Affairs Committee convened in part to review and discuss the failed system data that was collected and submitted by local health departments (LHDs) for calendar year 2009. The workgroup's discussion determined that for some elements there were vast differences in interpretation by LHDs and that guidance was needed to establish greater consistency in the future with these aspects. As a result, the following guidance is provided to foster consistency in the process of data collection.

<u>Important!</u> The information collected is intended to be representative of the <u>wastewater system which has failed</u>. For the purpose of this guidance, <u>a soil absorption system is considered to have failed when it backs up into the home, discharges to the ground surface, or contaminates surface water or drinking water supplies.</u>

For Non-Residential systems: Indicate the facility type and estimated gallons per day flow.

For **Facility Type**, the following further descriptions are provided:

• Gas Station -

• This category would include stand alone gas stations and gas station/convenience stores.

• Multi-Family -

 This category would include community on-site systems serving apartments/townhouses, mobile home parks, and other residential developments such as condominiums and subdivisions.

For Residential systems: Indicate the dwelling type and size.

For either Non-Residential or Residential systems, the following applies:

Septic Tank Type: Indicate the type of tank arrangement providing the primary treatment (excluding any separate pumping or dosing tanks) or the complete absence of a tank.

Septic Tank Capacity – Gallons: Indicate the total volume of the tank(s) that provide the primary treatment (excluding any separate pumping or dosing tanks).

Advanced Treatment Unit: Indicate the presence or absence of an advanced treatment unit as a component to the failed system. Provide the name of the treatment unit when present.

System Design: Indicate the type of design of the failed system when determined or if available. If no information is available, or if efforts are undertaken to locate the system at the site, such as using a tile probe or soil auger and a system is located, however the specific design

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cannot be determined, indicate "Unable to Determine". If it is determined that the there is no system; such as a tile to a ditch or field tile or other nonexistent system, indicate "None".

Note: Whenever "None" is indicated, completion of the remainder of the form is optional.

System Age: Indicate the age of the failed system as appropriate. If no information is provided or available as to the system age, indicate "Unknown".

Soil Texture: indicate <u>only</u> the soil texture representative of the infiltrative surface of the failed system. Do not report multiple soil textures representative of a typical soil profile description. In instances where there is no soil absorption system as noted above in "System Design", ""None", the reporting of soil texture is optional.

Seasonal High Water Table: Indicate the depth of seasonal high water table representative of location of the failed system, based upon the natural ground surface.

System Size: Indicate the size of the failed system when determined or if available. If no information is available from any source, indicate "Unable to Determine".

Probable Cause(s) of Failure: Indicate all elements believed to be contributing to the cause of the failure.

Note: If desired, it is acceptable for individual county or district health departments modifying their agency's data collection form and agency guidance to capture a single, predominant cause for failure in lieu of reporting multiple causes as long as the agency is capable of generating the annual data summary consistent with the DEQ failed system data collection elements.

In recognition for further guidance, the following examples are provided:

Hydraulic Overload –

- The system is receiving large quantities of ground water or surface water (could include; footing/foundation drainage via a sump pump or discharges from a water softener)
- The design of the failed system was for a two-bedroom house, however, it is determined that the number of occupants is well beyond two people per bedroom.

System Undersized –

 The size of the failed system was based on site limitations such as insufficient space based on soils and/or space limitations.

• Soil Clogging -

 The failed system is longer accepting wastewater effluent and the failure is reflective of a system that has functioned as designed during its normal life expectancy.

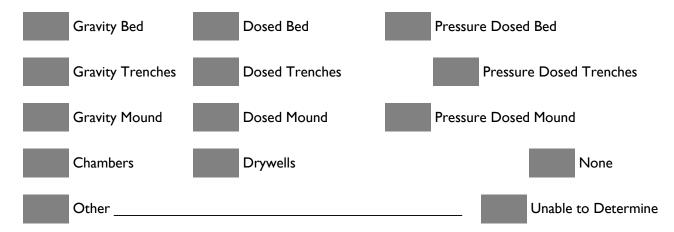
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DEQ Failed System Data Submission Form - Non-Residential

Calendar Year:				
Local Health Department:				
Total number of Non-Resid	ential failures:			
Facility Type; Totals:				
Church	Dental/Medical	Gas Station	Grocery Store	
Industrial	Multi-Family	Office/Retail	Restaurant	
School Other:				
Estimated Flows; Totals: (gallons per day)				
<1,000	>1,000 - 6,000	>6,001 – 10,000		
Septic Tank Type; Totals:				
Single	Two Compartment	More Than One Tank	No	
Septic Tank Capacity – Gal	lons; Totals:			
<1,000	>1,000 – 1,500	>1,500 – 2,000	>2,000 – 3,000	
>3,000	Unknown			
Advanced Treatment Unit; Totals Yes No If yes, Treatment Unit Name(s):				

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System Design; Totals:



System Age Totals in Years; Totals:



Soil Texture Totals:

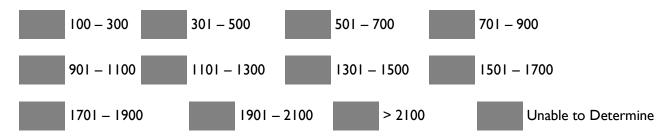


Seasonal High Water Table; Totals: (inches below grade)

Bed Size ft²; Totals:



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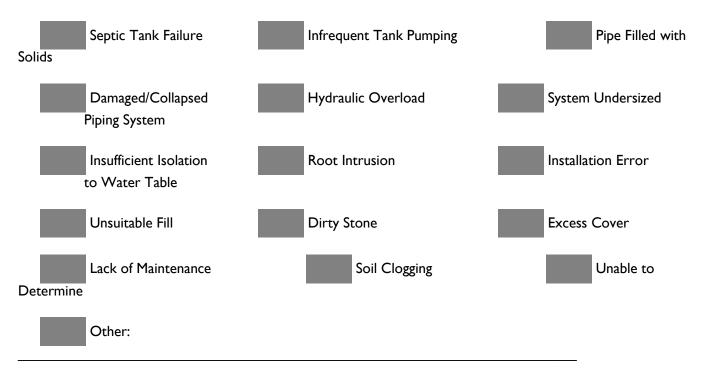
Trench Size ft²; Totals:





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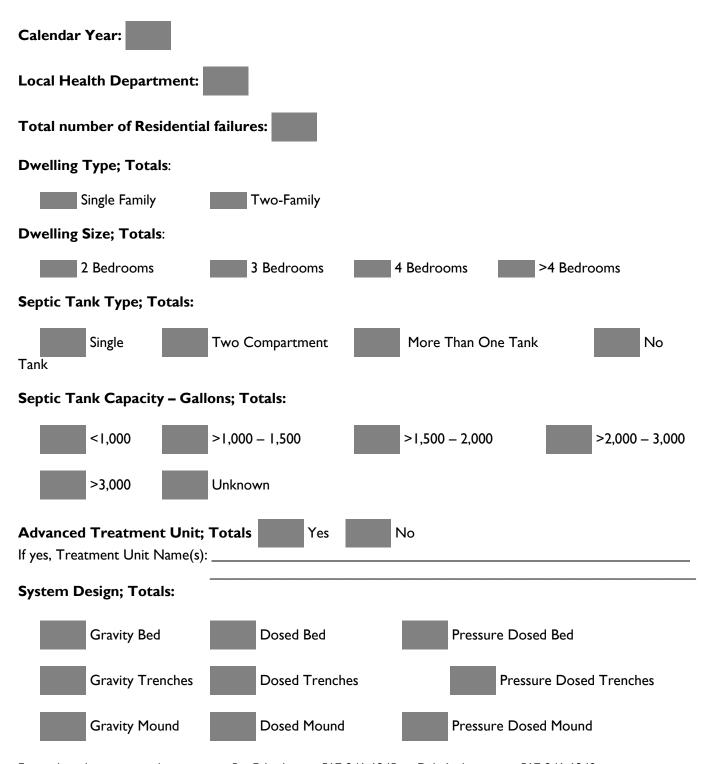
Probable Cause(s) of Failure; Totals:





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DEQ Failed System Data Submission Form - Residential

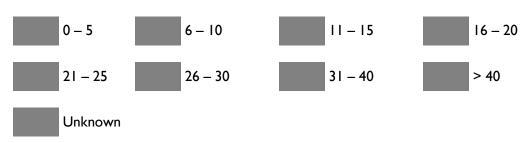




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System Age Totals in Years; Totals:



Soil Texture Totals:



Seasonal High Water Table; Totals: (inches below grade)



Bed Size ft²; Totals:



Trench Size ft²; Totals:



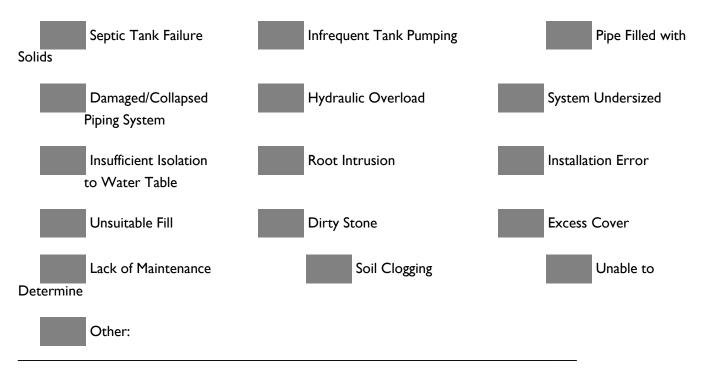
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Probable Cause(s) of Failure; Totals:



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Appendix E

On-Site Wastewater Treatment Management Program Self-Assessment Review Option

Michigan local health departments (LHDs), in partnership with the Department of Environmental Quality (DEQ), are committed to the protection of public health and the environment through the effective On-Site Wastewater Treatment Management Programs. Structured evaluations of LHDs by DEQ staff on a 3-year basis, as part of the Michigan Local Public Health Accreditation Program (MLPHAP), have been utilized to measure the success of programs in meeting minimum program requirements (MPRs). Historical reviews clearly confirm that a commitment to ongoing quality assurance at LHDs have consistently resulted in accreditation reviews where there were few, if any, major deficiencies noted. It is the purpose of this guidance to establish the alternative option for accreditation review based upon annual LHD self-assessment and reporting which effectively communicates ongoing compliance status.

A significant component to the success of a self-assessment approach is the designation at the LHD of a key staff person or persons responsible for program training, oversight and monitoring. They would be relied upon as the in-house expert related to program implementation consistent with the MPRs and ongoing quality assurance monitoring. Designated staff would also be expected to serve as the primary point of communication and reporting to DEQ in all matters related to accreditation specific to the On-Site Wastewater Treatment Management Program. This would include submission of annual self-assessment reports, failed system data summaries, and quarterly on-site wastewater program activity reports.

All LHDs are encouraged to utilize the self-assessment approach. However, a LHD best prepared to use this option is conducting thorough routine and ongoing quality assurance program reviews. For LHDs wishing to be authorized to utilize this approach, a written request must be submitted to the DEQ for a case-by-case review. The quality assurance process, designed to meet LHD needs, is expected to be outlined by the LHD in the written request to the DEQ. At the time of the scheduled accreditation review, the LHD must be prepared to discuss the specific activities being carried out.

Local health departments desiring to utilize the self-assessment option are encouraged to submit their request as soon as possible. The self-assessment review option becomes stand alone where a LHD has requested and been granted DEQ authorization at least 12 months prior to the scheduled accreditation review date.

Under this option, the overall accreditation review shall consist of the following elements:

- Annually, the LHD is expected to submit a program self-assessment to the DEQ. The report will follow
 a standardized format that is available from the DEQ. Annual assessments shall be transmitted each
 year to the DEQ in the same month as the scheduled accreditation review.
- The DEQ will be responsible for providing a timely review and provide a formal response to the LHD for each self assessment report submitted.
- As part of the ongoing self-assessment process, during the time period leading to the scheduled
 accreditation review by the DEQ, a LHD may determine that one or more indicators are "not being
 met" or "met with conditions." The LHD has full discretion to:
 - Put a corrective plan of action in place, the details of which shall be communicated with the DEQ.
 - Show 90 days of compliance with the plan.

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- At the time of the scheduled accreditation review, the LHD shall receive a "met" or "met with conditions" on that MPR where the DEQ verifies corrective actions have resulted in compliance.
- At the time of the scheduled accreditation review, the LHD will arrange to meet with the DEQ to present documentation outlining the On-Site Wastewater Treatment Management Program's compliance. It is anticipated that the presentation would be arranged at a time, date, and location selected by the LHD and attended by the evaluator, designated LHD quality assurance staff, and others chosen by the LHD. Discussions at that time would focus on:
 - Quality assurance activities
 - Self-assessment and compliance rating against established program standards. At the
 time of the scheduled accreditation review, the current year self-assessment document
 will be presented to the DEQ by the LHD staff to verify that the self-assessment was
 completed accurately and properly.
 - The LHD will receive the rating it gave itself on any MPRs, providing the DEQ verifies the rating as correct.
 - Should a LHD assess any indicators as "not met," which are verified at the time
 of accreditation review, they will be subject to the established formal
 accreditation Corrective Plan of Action process.
 - Should the self-assessment show an incorrect rating or a program element that
 was not properly or completely reviewed, that element shall be jointly reviewed
 with the DEQ and LHD staff to determine the correct rating.
 - The DEQ may review a number of the original documents assessed to determine if the self-assessment is correct and accurate.