

Hamilton Source Protection Septic Social

April 28, 2026

Katherine Rentsch, P. Eng.

Today's Agenda

- Source Water Protection Program
- Overview of the City of Hamilton's Septic System Inspection Program
- How your sewage system works
- How the Inspection Program works
- Do's and Don'ts
- Final Tips for good sewage system operation

Source Water Protection Program

- First step in a multi-barrier approach to protecting drinking water sources such as lakes, rivers and groundwater BEFORE they become depleted or contaminated
- Identifies vulnerable features of our drinking water sources such as municipal well heads or surface water intake zones
- Delineates protection areas around these vulnerable features and identifies threats to water sources

Septic System Inspection Program

- Mandatory inspection program for properties located in [highly vulnerable municipal wellhead protection](#) areas
- Sewage systems must be inspected every five years



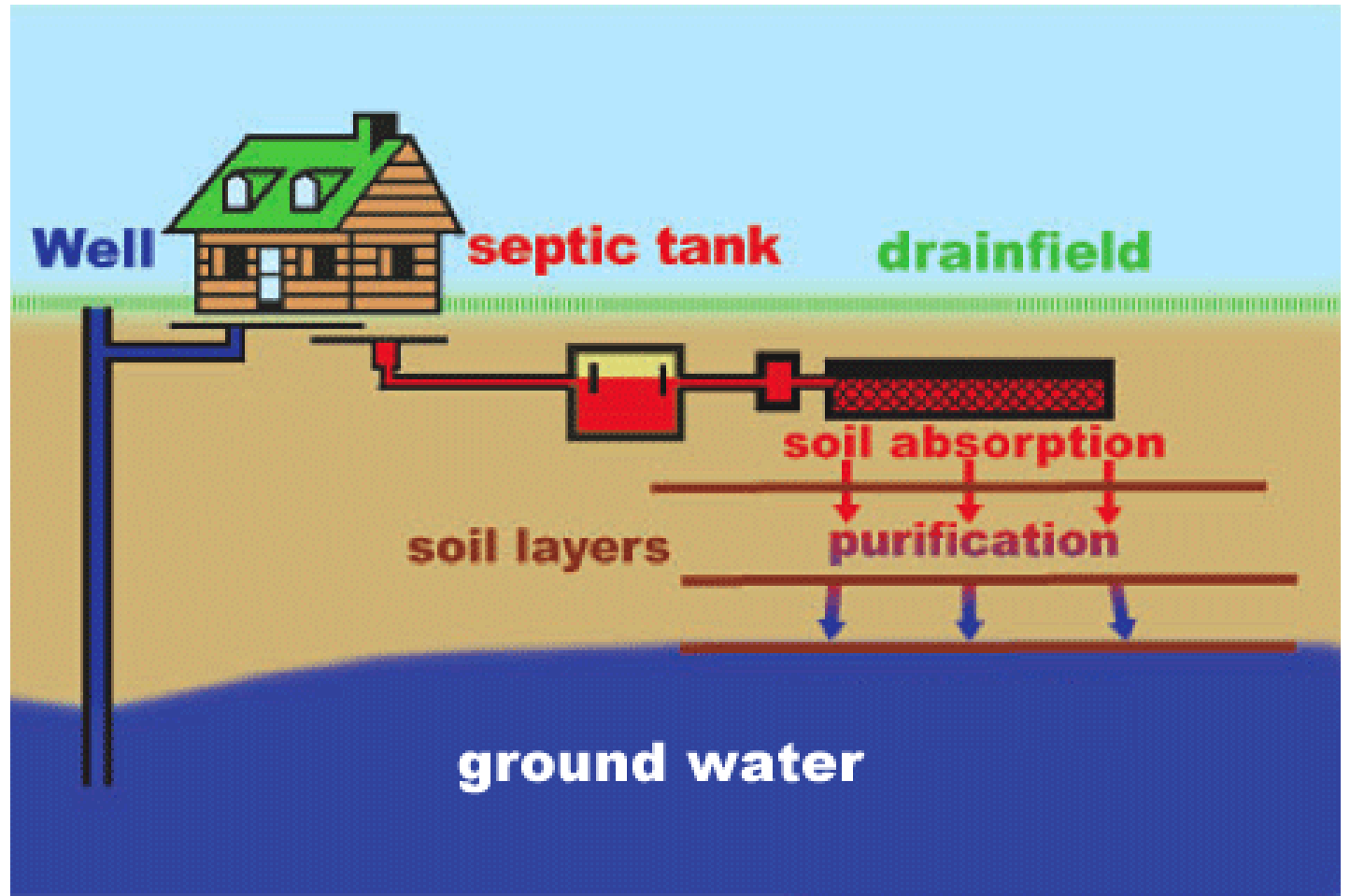
SOURCE WATER PROTECTION

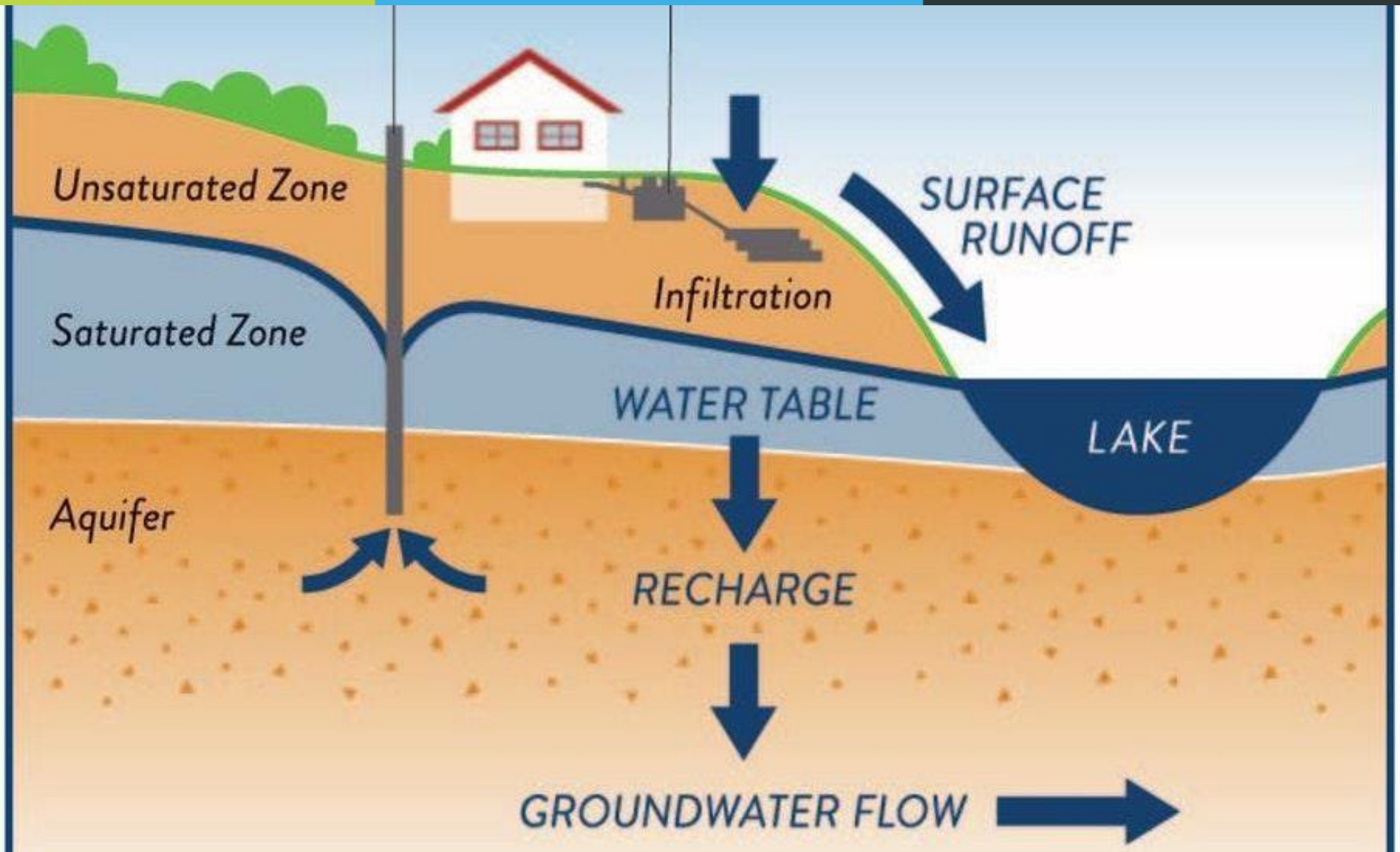
Septic Inspection Notice

If you've received an inspection notice:

1. Hire a qualified septic system contractor or consulting engineering firm
2. Schedule your septic system inspection
3. Submit the completed form to the City

On-Site Sewage Systems







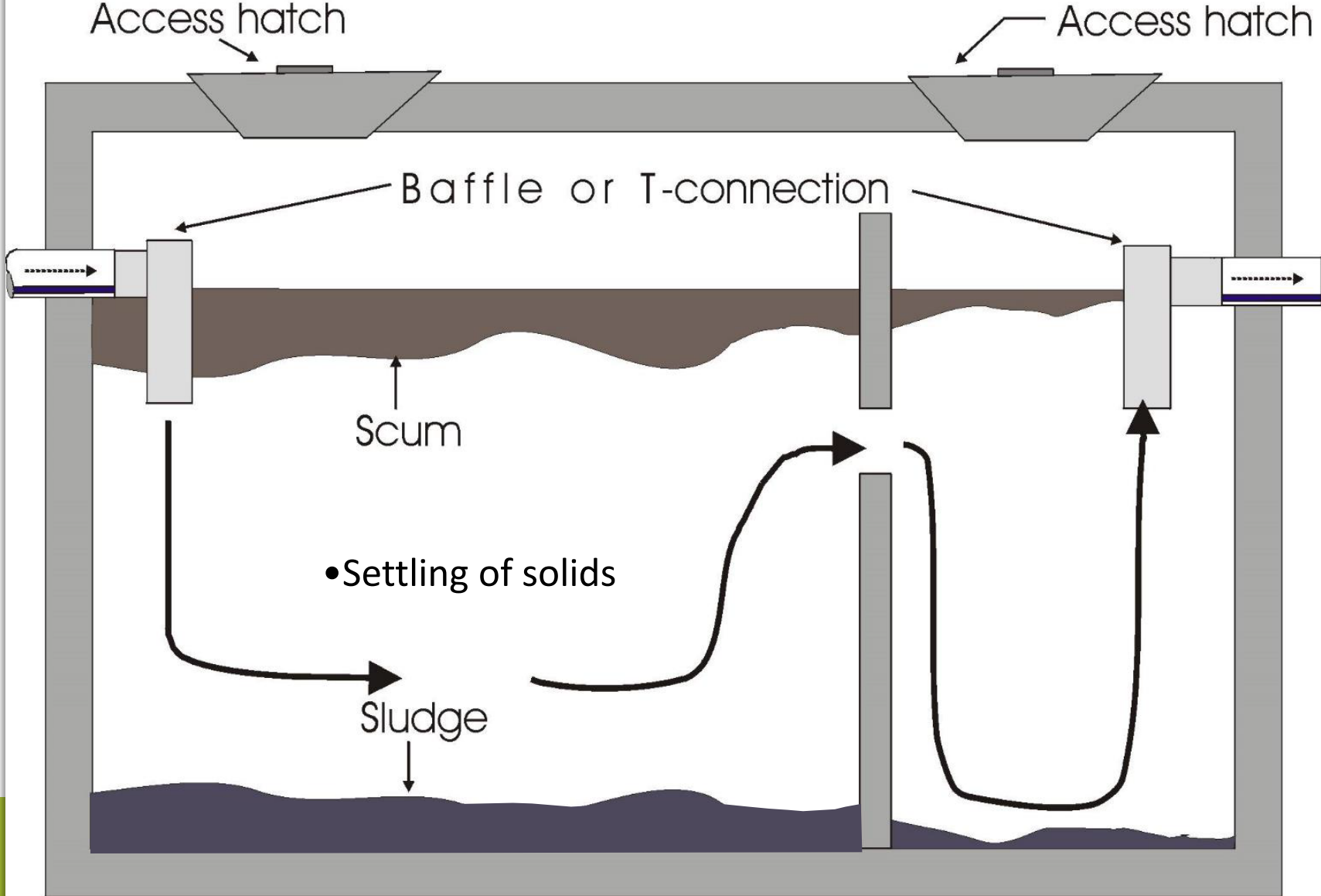


Septic Tanks

- Almost every system will have a septic tank
- Main function is to provide enough time and space to settle out solids and to store the solids for some period of time
- Tanks *MUST* be pumped out from time to time



COMMON SEPTIC TANK



Things to Look for:

- Well fitting lids
- Water level in the tank
- Scum and solids build up
- Corrosion



Septic Tank

Inlet or Outlet?





Effluent Filters

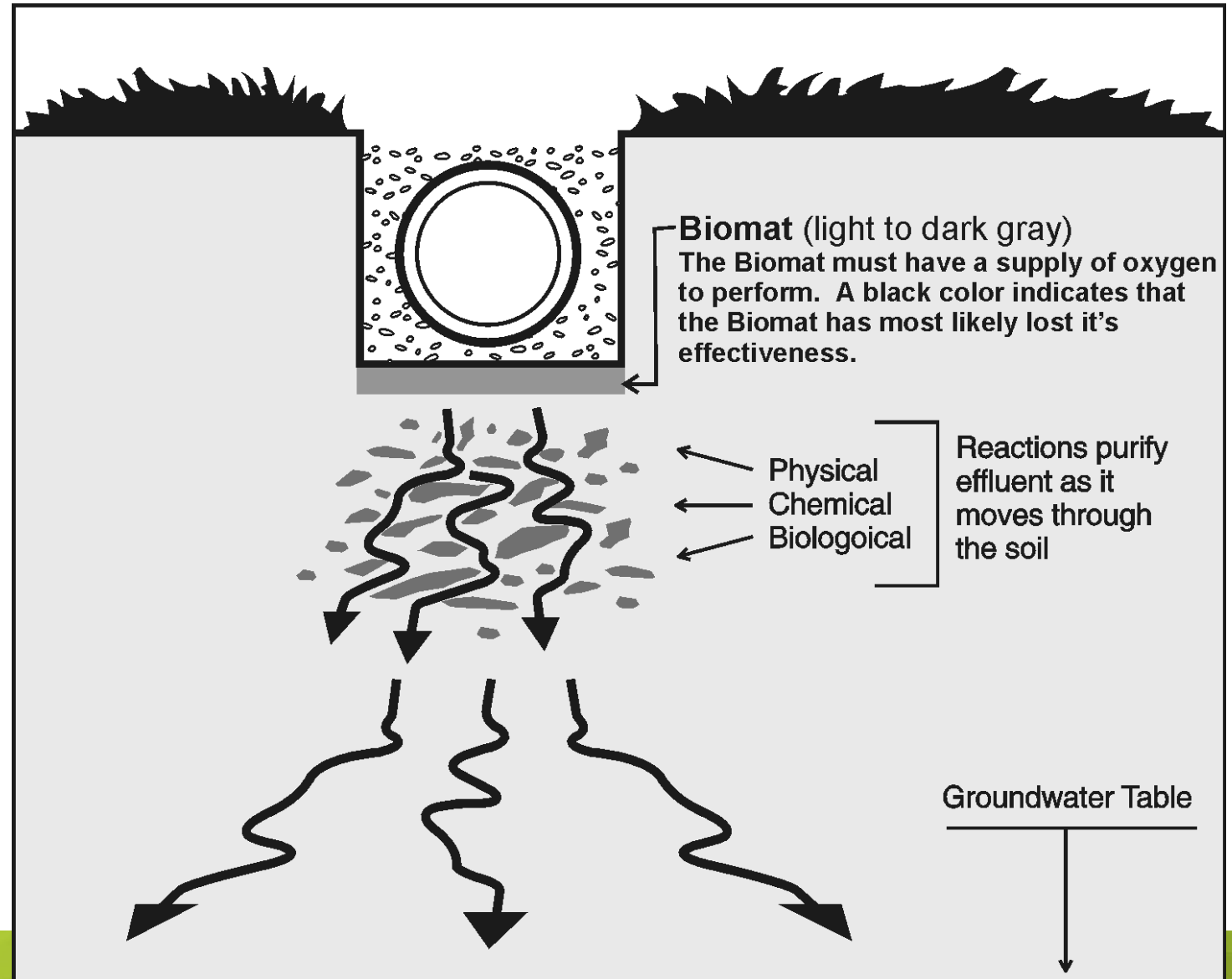
- Required on all new installations
- Recommended for older tanks – can be retrofitted
- Plastic screen that fits in the “outlet” tee
- Strains out solids that remain in suspension before effluent gets to the leaching bed
- Must be cleaned every 6 – 12 months – remove it and hose it off!





Leaching Bed

- Everybody's got one!
- This is where the "MAGIC" happens!
- Series of perforated pipes set in clear stone
- May be in the native soils or in fill – raised
- Sandy soils are best, heavier soils = larger systems



Things to look for on your leaching bed

- Drainage and grading away from the bed
- Wet spots/patches
- Trees around or on the bed



As systems age problems may begin to occur

- Root intrusion
- Soil in pipes
- Biomat build up





How the Program Works

- Property owner gets a notice
- Property owner hires a professional to complete the inspection
 - [OOWA](#)
 - [OASIS](#)
- Professional inspects the sewage system
- Complete any repairs requires
- Submit Inspection Documentation (by professional)



- Intent of the program is to ensure systems are **safe**
- Signs of failure might include:
 - Breakout or soft spots on the leaching bed
 - Tank overflowing
 - Tank risers in poor condition
- Generally not a “code compliance” type of inspection



Inspection Form

Septic System Inspection Report

Company Name:	
Company Address:	
Technicians Name:	BCIN:
Date of Inspection:	Time of inspection: AM <input type="radio"/> PM <input type="radio"/>
Property Information	
Owner Name	
Municipal Address (subject property)	
Mailing Address (if different from above)	
Phone Number: () -	E-mail:
Type of Building: <input type="checkbox"/> Single Family Dwelling <input type="checkbox"/> Multi-Family Dwelling <input type="checkbox"/> SFD with Commercial <input type="checkbox"/> Commercial <input type="checkbox"/> Other:	
Water Supply: <input type="checkbox"/> Municipal well <input type="checkbox"/> Dug well <input type="checkbox"/> Drilled well <input type="checkbox"/> Cistern	
Septic System Information:	
Type of system: <input type="checkbox"/> Class 4 <input type="checkbox"/> Treatment Unit <input type="checkbox"/> Holding tank	
Tank pumped: <input type="checkbox"/> Y <input type="checkbox"/> N	
Tank Size:	Litres (estimated)
Tank Material: <input type="checkbox"/> Concrete <input type="checkbox"/> Plastic <input type="checkbox"/> Fiberglass <input type="checkbox"/> Steel <input type="checkbox"/> Other:	
Number of Chambers: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> Other	
Condition: <input type="checkbox"/> Good <input type="checkbox"/> Requires remedial measures	
Inlet Condition: <input type="checkbox"/> Good <input type="checkbox"/> Requires remedial measures	
Outlet Condition: <input type="checkbox"/> Good <input type="checkbox"/> Requires remedial measures	
Effluent Filter: <input type="checkbox"/> Y <input type="checkbox"/> N Condition: <input type="checkbox"/> Good <input type="checkbox"/> Requires remedial measures	
*Pump chamber: <input type="checkbox"/> Y <input type="checkbox"/> N Material: <input type="checkbox"/> Concrete <input type="checkbox"/> Plastic <input type="checkbox"/> Fiberglass <input type="checkbox"/> Steel <input type="checkbox"/> Other:	
Condition: <input type="checkbox"/> Good <input type="checkbox"/> Requires remedial measures	
* - If applicable pump chamber visual or audible alarm operational <input type="checkbox"/> Y <input type="checkbox"/> N	
Bed Design: based on <input type="checkbox"/> records <input type="checkbox"/> visual appearance <input type="checkbox"/> property owner disclosure <input type="checkbox"/> Standard trench <input type="checkbox"/> Shallow buried trench <input type="checkbox"/> Raised bed <input type="checkbox"/> Filter Bed <input type="checkbox"/> Other:	
Clearances: (appears to be in C – In Compliance or NC – Not in Compliance)	
Septic tank – Structures <input type="checkbox"/> C <input type="checkbox"/> NC Well <input type="checkbox"/> C <input type="checkbox"/> NC Waterways <input type="checkbox"/> C <input type="checkbox"/> NC Property Line <input type="checkbox"/> C <input type="checkbox"/> NC	
Distribution pipe – Structures <input type="checkbox"/> C <input type="checkbox"/> NC Well <input type="checkbox"/> C <input type="checkbox"/> NC Waterways <input type="checkbox"/> C <input type="checkbox"/> NC Property Line <input type="checkbox"/> C <input type="checkbox"/> NC	
Observations: Sewage effluent visible <input type="checkbox"/> Y <input type="checkbox"/> N Sewage odour present <input type="checkbox"/> Y <input type="checkbox"/> N Saturation of tile bed area <input type="checkbox"/> Y <input type="checkbox"/> N Overgrown vegetation near bed <input type="checkbox"/> Y <input type="checkbox"/> N Other:	



City of Hamilton
Building Division

City Hall, 3rd Floor
71 Main Street West
Hamilton, ON L8P 4Y5
Phone: 905-546-2720
septic.systems@hamilton.ca

CERTIFICATE

- Inspection Certificate
- Email to septic.systems@hamilton.ca

Mandatory sewage system
maintenance inspection program

(pursuant to Article 1.10.2.5 of Division C of the Building Code)

A. Certificate Information

Certificate number: _____

Date certificate issued: _____

Address of Property on which Sewage System is located
(hereinafter called the "Property"): _____

Owner of Property on which Sewage System is located: _____

Certificate issued to (name and address of Principal Authority): _____

B. Information of person signing certificate

Name: _____

Address: _____

Business telephone number: _____

Building Code Identification Number (BCIN) (if applicable): _____

I certify that:

1. I am a person described in Sentence 1.10.1.3.(3) of Division C of the Building Code.
2. I have conducted an inspection of the sewage system located at the Property.
3. I am satisfied on reasonable grounds that the sewage system located on the Property is in compliance with the requirements of Section 8.9 of Division B of the Building Code.

C. Certificate issued by

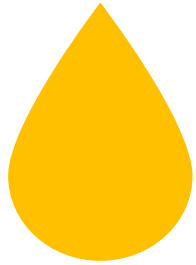
Do:

- Know where your septic system and leaching bed are located
- Keep the tank access lid secure
- Maintain records of inspections and maintenance
- Pump the septic tank when sludge reaches one-third of the tank volume
- Inspect the tank every 3–5 years
- Test well water three times per year
- Divert surface water away from the leaching bed
- Spread laundry loads throughout the week

Don't:

- Enter a septic tank (hazardous gases can be fatal)
- Pour oils, grease, chemicals, or medications down the drain
- Flush sanitary products or cigarette butts
- Drive or park vehicles over the system
- Plant trees or shrubs nearby
- Direct sump pumps, roof drains, or stormwater into the system

Final Tips



**Be mindful of your
sewage system**



**What are you
putting “into” it?**

Watch your water use
What else is going down
the drain?



**What are you
putting “on” it?**

Minimize over-
compacting soils on bed
Trees and shrubs – think
about those roots



What should I do?

Clean your effluent filter
every 6 – 12 months
Have your tank pumped
out every 3 – 5 years
Get your system inspected

Questions?

- Look for more information at www.hamilton.ca/home-neighbourhood/water-wastewater-stormwater/water-treatment-distribution/source-water-1
- Google Hamilton Septic System Inspection Program

