

Ready for Rain:

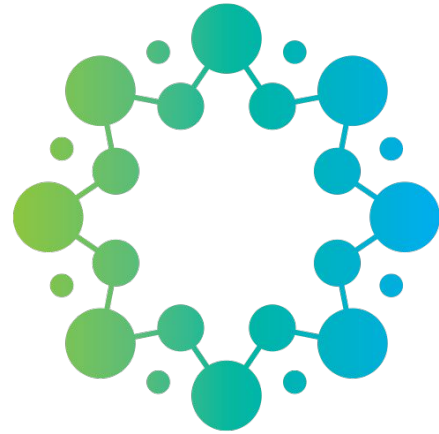
How to harvest rain and create a rain garden

Tuesday, May 5th at 1 pm

Join over Zoom as we discuss how to create your own rain gardens and manage water on your property.

Go to www.oakvilleready.ca/webinars for more information





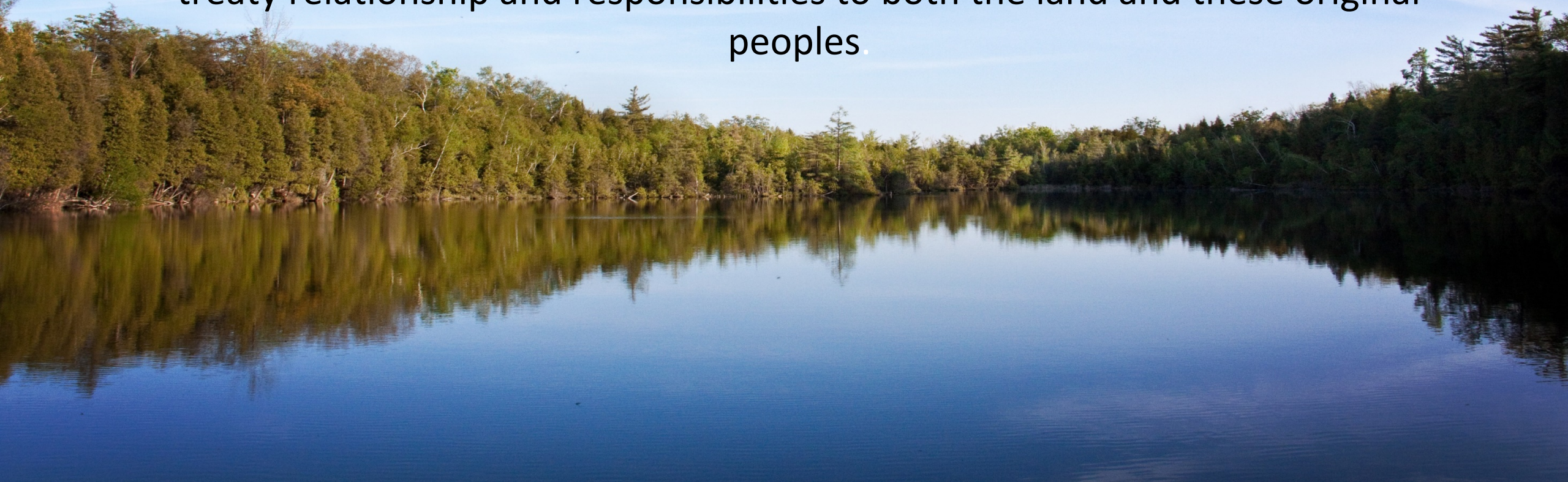
**OAKVILLE
READY**

Ready to weather any storm

OakvilleReady here to support our community

As a community, we have the responsibility to honour, care for and respect all the Creation gives to provide us with life. This includes the land, water, air, fire, animals, plants and our ancestors.

The Anishinabek Peoples have utilized this land for millennia and we would like to acknowledge their direct descendants, the Mississauga's of the Credit First Nation, as the rightful caretakers and titleholders of this land upon which we live, work and conduct ourselves. We acknowledge our treaty relationship and responsibilities to both the land and these original peoples.



We also recognize that this land is rich in pre-contact history and customs, which includes the Anishinabek and Haudenosaunee and since European contact, has and continues to become home for Indigenous and non-Indigenous peoples. And it is in the spirit and intent of the Dish With One Spoon, wampum agreement whereby we will collectively care for and respect the land, water, animals and each other in the interests of peace and friendship and for the benefit of not only ourselves but of our future descendants.



What is Oakville Ready?

Funded by the Oakville Community Foundation to establish 6 faith-based organizations to act as neighbourhood hubs in instances of extreme weather – flooding, high winds, power outage and fires.



Neighbours helping Neighbours

- engage diverse community stakeholders to increase their personal resiliency,
- Increase community capacity and resiliency
- to understand how community can work together during extreme weather events.



Why do we need OakvilleReady?



Rise in the frequency of emergencies including extreme weather, fires, floods, power outages, freezing rain, etc.

After an event, the first 1 – 4 hours are an important time to help the community

Community resilience through building strong connections with FBOs and residents

The Hubs:



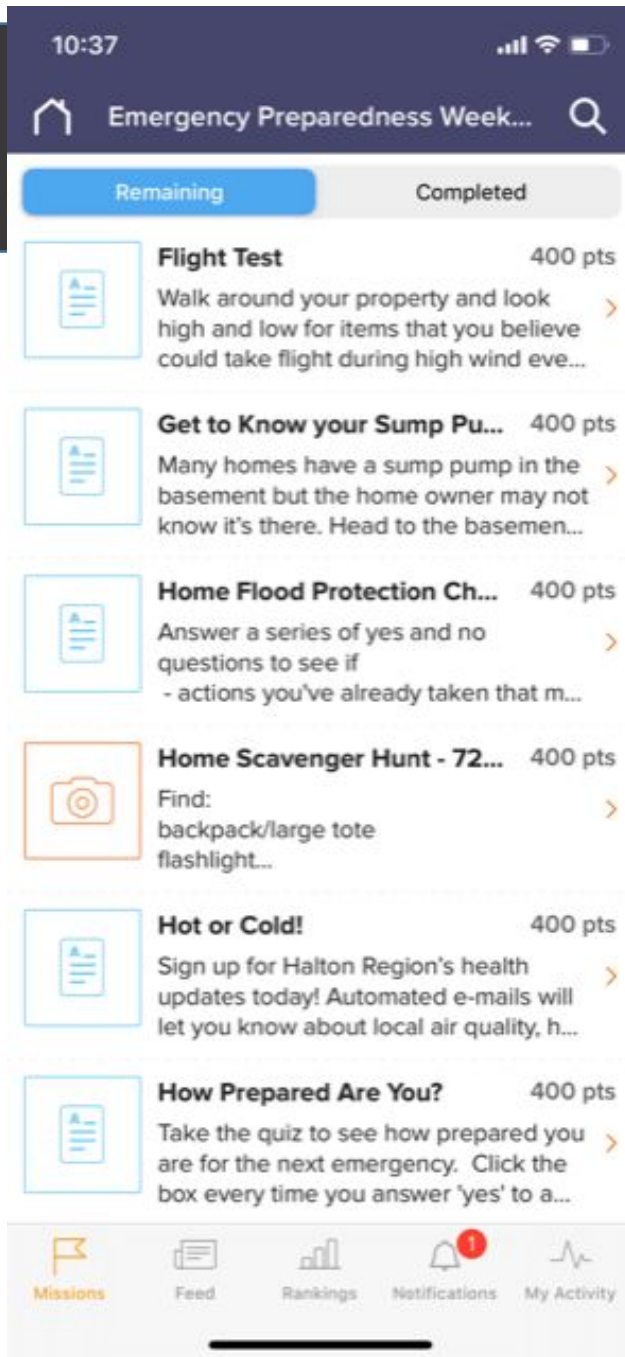
Additional Supports:



In light of physical distancing..

The OakvilleReady team has worked to:

- provide technical support for FBOs
- provide resources for wellness checks
- Resources on oakvilleready.ca and @oakvilleready
- www.halton.ca or dial 311



Emergency Preparedness Week

Goose Chase Challenge

How to play:

1) Download the
GooseChase app



goosechase

2) Enter Game
Code VJQ3QV





Technology for this Call



- ❖ Use the Chat box
- ❖ Look for the Hand-up feature in the chat box to ask questions
- ❖ You can privately message the host, simply choose the Halton Environmental Network or OakvilleReady. We are here to answer questions



Guidelines For the Zoom Call

- ❖ Respect confidentiality
- ❖ Keep yourself on MUTE
- ❖ Use the Chat box – to communicate
- ❖ Take care of yourself
- ❖ Share the air and chat box space
- ❖ Question ideas, not people
- ❖ Call people in, not out
- ❖ If you need additional Covid-19 support dial 311

Ready for Rain Rain Gardens



Increase the adoption of green infrastructure and low impact development (GI/LID) retrofits (rain gardens, bioswales, rain harvesting) on public and private property



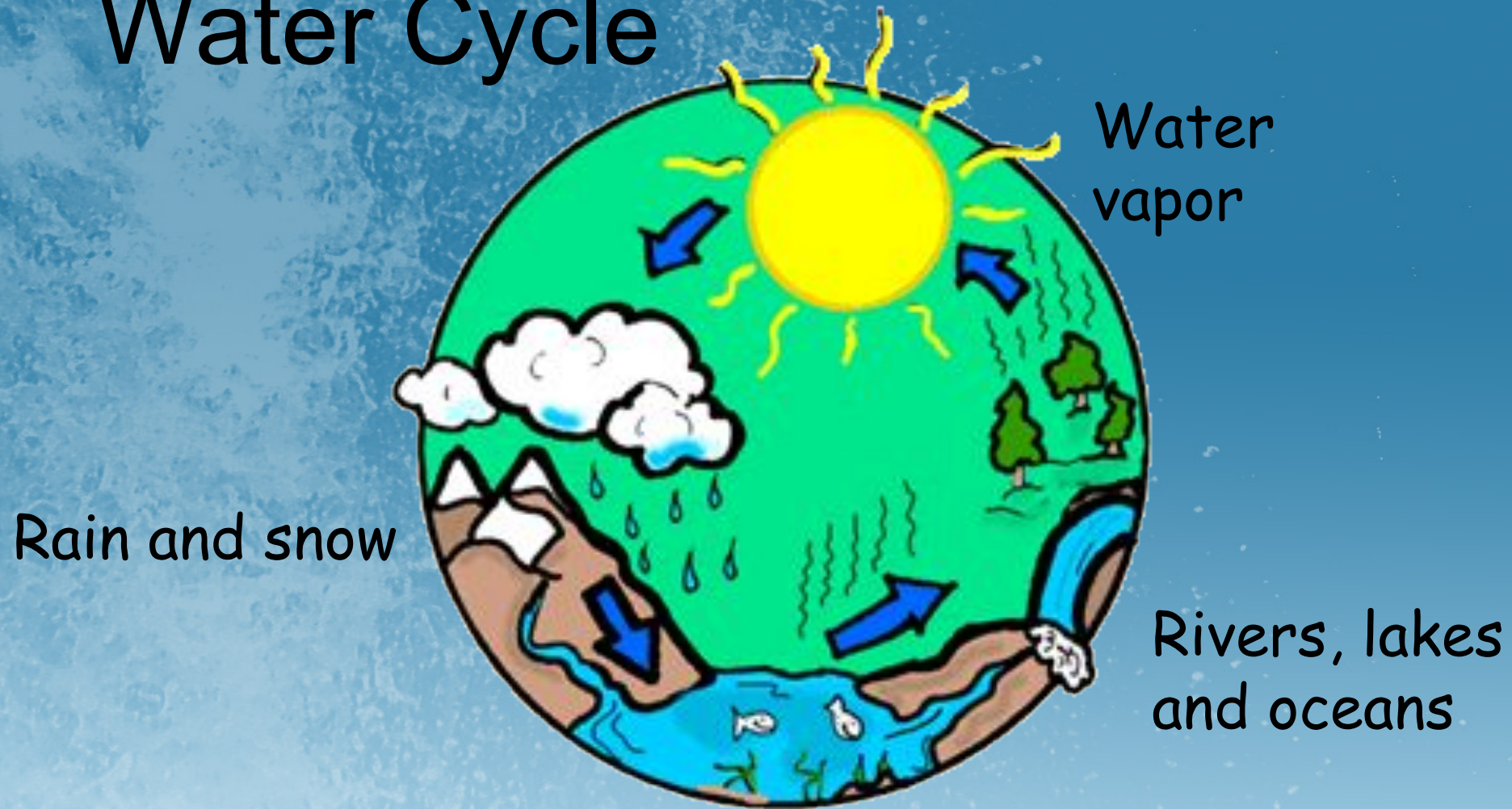
Protecting Nature Where You Live



Rain Gardens

Protecting Nature Where You Live

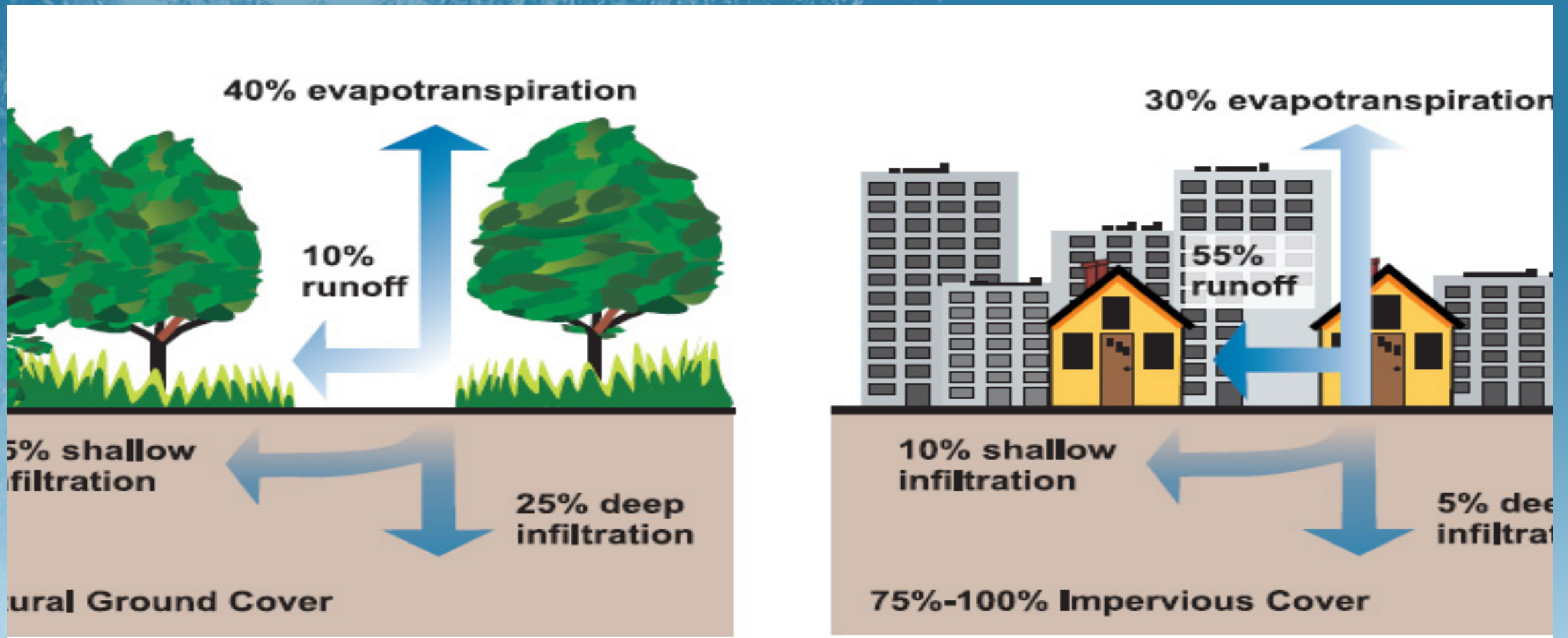
Water Cycle



Habitat Loss



Natural Vs Impervious cover



What is a watershed



Conservation Halton's Watershed Report Card

- Forest Conditions C
- Groundwater Quality A
- Impervious Land Cover D
- Surface Water Quality C

<https://issuu.com/forsefield/docs/halton>

Plant a Rain Garden



Absorb Water



Why a Rain Garden?

- Reduce Run off
- Improve Water Quality
- Recharge our groundwater system
- Increase biodiversity



Benefits of Rain Gardens

Prevent Flooding



Plants filter the water



This shows the value of KEEPING trees and plants living on our soil! As soon as we rip out of all the resources... we pollute our ground water... which becomes harder and harder to purify for us to then drink!!!

Oil and other chemicals



Chemicals



Salt



Fertilizer



Erosion



Can you build a rain garden in your property?



- Is there a source of water to feed the potential project
- Visible Slope 1-5% (away from home)
- Downspout does not discharge into drive way
- Is the space more than 10 feet away from any building



Can you build a rain garden in your property?



- Know your type of soil (drainage)
- Check for underground utilities (Ontario One Call Online locate form or 1800 400 2255)



1. Is your potential area at least 3 meters away from your building?

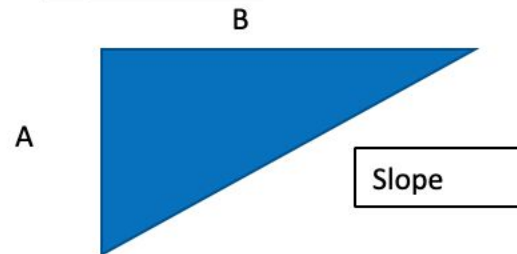
2. Is there a source of water for your garden?

3. Slope. Define the slope direction.

_____ Slope away from building (Adequate for rain garden)

_____ Slope towards building

4. **Slope Calculator.** Between 1-5% is considered good for a rain garden.



A _____ cm/100= A _____ m

B _____ cm/100= B _____ m

Slope= $\frac{A \text{ _____ m}}{B \text{ _____ m}} \times 100 = \text{_____ \%}$

B _____ m

5. Soil Infiltration Rate Calculator

_____ Sand
_____ Sandy Loam
_____ Loam
_____ Clay loam
_____ Clay

6. The ideal size of the garden, should be at least 10 times smaller than the capturing area. Calculate the total drainage area (measure the total width and length)

Drainage area= _____ m width x _____ m length

Garden size= _____ m Drainage area/ 10

7. Light conditions: _____ Full sun _____ Partial sun _____ Shade

Rain Garden



French Drain/ Bioswale



Rain Garden Design

- Design the garden
- Amend the soil if needed
- Ensure the slope is right
- Pick the right plants and spacing
- Create an inlet and an overflow
- Use double shredded mulch



Appropriate plants

- Pick plants that are flood tolerant and drought tolerant
- Salt tolerant
- Different blooming times
- Favour native species



All Seasons



Why Native Flowers?

- Pollinators in the area will be adapted to them
- Need less care and water
- Find flowers with different bloom times



Chokecherry (Early bloom)



Purple Coneflower (Mid)



New England Aster (Late bloom)

Suggested species for Rain Gardens

Bushes

Serviceberry sps
Hibiscus perennial
Elderberry
Red osier dogwood
Ninebark
Witchhazel

River Birch



Flowers

Black eyed Susan

Butterfly milkweed

Shooting Star

Great Blue Lobelia

Lobelia Cardinalis

Blue Flag Iris

Red Yarrow

Prairie Smoke

Ironweed

Wild columbine

Joe pye-weed

New England Aster



Grasses and Sedges

Little Blue Stem

Big Blue Stem

Switch grass

Feather Reed Grass

Sedges

Fox Sedge



How to take care of your garden?



How to take care of your garden?



Water is a priceless resource
shared by all of us



It should be protected.

OakvilleReady! Website



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[General Resources](#)

[Hub Locations](#)

[Who We Are](#)

[Get Involved](#)

Building on community
to create resilience.

[Get Involved](#)

www.oakvilleready.ca

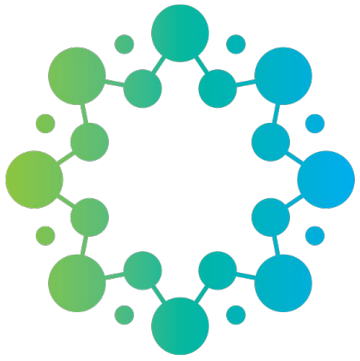


Upcoming Calls



Do you have an idea for a community call? Please reach out to us.





**OAKVILLE
READY**

Thank You!

Feel free to reach out to Trisha or Lisa:

Trisha Henderson trisha.henderson@oakville.ca

Lisa Kohler lisak@haltonenvironment.ca

Contact with us online:

www.oakvilleready.ca

Twitter: @oakvilleready