







WHAT IS STORMWATER?

- ▶ Water that originates during rain events and snow/ice melt
- Travels over land or through storm drains, catch basins or pipes (called outfalls)
- ► Carries the pollutants
- ► Ends up untreated in our rivers, streams and lakes







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WHAT IS WASTEWATER?

- ▶ Water that has been used in the home, in a business, or as part of an industrial process
- ▶ Is treated before it is released back to the environment



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WHY PROTECT WATER QUALITY IN THE ROUGE RIVER?

 Understanding allows us to comprehend that we can have an impact on water quality far beyond our own back door





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OURS TO PROTECT

Working together, restoring the river

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IMPROVED WATER QUALITY MEANS

- ▶ Better habitat
- ► More aquatic species
- More canoeing and recreational activities
- ► More fishing and swimming
- ► Healthier Rouge River!





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IN YOUR HOME

- Minimize use of your washing machine, dishwasher or shower
- ▶ Pour greasy or oily food waste into a jar – not the sink
- Recycle your chemicals at a Household Hazardous Waste (HHW) collection event in you community







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IN YOUR HOME

- ▶ What can you take to a HHW event?

- Acids
 Aerosols
 Fluorescent light bulbs
 Paint stripper & thinner
 Polishes (auto, furniture, metal & nail)
 Pool chemicals
 Primer
 Propane tanks (from grills)
 Rat poison
 Sealant
 Sharps (in metal/plastic containers)
 Mercury waste
 Moth balls
 Stereos/TVs
 Turpentine
 Varnish/Wood preservatives





IN YOUR HOME

- ▶ Do not put "disposable wipes" down a drain or toilet
- ► Recycle your holiday greenery















- Winterize your pool, spa or fountain
 - ► Allow the chlorine to dissipate for several days
 - ▶ Drain it to a landscaped area







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IN YOUR YARD

- ► Cut grass to a height of no less than 3 inches
- ▶ Don't over-water
- Mulch your grass and leaves





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IN YOUR YARD

- ► Don't overuse fertilizer
- ► Use slow release, phosphorous-free fertilizer
- ▶ Use a broom to sweep fertilizer and grass clippings back onto your yard
- ► Avoid weed & feed products







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IN YOUR YARD

- ► Pick up after your pet (even in the winter)
- ► Don't feed the geese





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 Use non-toxic cleaning alternatives such as white vinegar, baking soda and hydrogen peroxide

IN YOUR YARD

 During winter months shovel often to reduce salt use or choose an environmentallyfriendly alternative



Alluce Community HOME RECIPE FOR BRINE

What you need:

- * 1 1/2 gallons hot water
- * 3-4 cups rock or
- * Sprayer

Directions:

solve the salt) in bucket until all salt is dissolved completely (so salt chunks don't clog sprayer). Pour mixed brine into a sprayer and apply to sidewalk and driveway prior to a snowfall. Each gallon should cover 1,000 square feet of surface (about 200 feet of sidewalk).





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IN YOUR YARD

- ▶ Use native trees and plants
 - ► Do not require fertilizers
 - ► Require less water
 - ▶ Provide wildlife habitat
 - ► Promote biodiversity
 - ► Reduce maintenance costs
 - ► Improve water quality









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IN YOUR YARD

- Michigan Native Plant Producers Association www.mnppa.org
 - American Roots www.americanrootswildflowers.com
 - Hidden Savanna Nursery www.hiddensavanna.com
 - ► Michigan Wildflower Farm www.michiganwildflowerfarm.com
 - Native Connections www.nativeconnections.ne
 - ► The Native Plant Nursery, LLC <u>www.nativeplant.com</u>
 - ▶ Wetlands Nursery, Inc. 231-848-4202
 - ▶ WILDTYPE Design, Native Plant & Seed, LTD www.wildtypeplants



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IN YOUR YARD

- ► Shoreline buffers
 - ➤ Provide shade & moderate water temperature
 - Stabilize stream banks & reduce erosion
 - ► Filter & trap sediment from runoff
 - ► Absorb nutrients from runoff
 - ► Slow runoff & reduce flooding
 - ► Provide food & habitat for invertebrates, fish, & wildlife
 - ▶ Deter Canada Geese



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IN YOUR YARD

- ► Include pollinators
 - ▶ Bees & butterflies
 - ► Essential to health of the environment
 - How plants reproduce & produce fruit
 - ► Great ecosystem health









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QUESTIONS?

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WITH YOUR VEHICLES

- Use your local car wash so built-up road salt, oil and other pollutants don't go down storm drains
- ► When cleaning your garage, sweep it and dispose of it in the garbage
- Prevent fluid leaks from reaching paved surfaces
- Keep used oily rags in a closed tub half full of water with 1-2 cups of laundry detergent and dispose of at a HHW event









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WITH YOUR VEHICLES

- **▶** Boat owners
 - ► Wash your boat to remove plants & aquatic animals after every use
 - Dump unused bait in the trash not the water
 - Drain water from equipment before transporting
 - Dispose of your boat waste properly
- ▶ RV owners
 - Dispose of sanitary waste at a drop-off location – never down a storm drain or roadside ditch



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IN YOUR BUSINESS

- Personal satisfaction whether you are the owner, employee or patron
- ► Easier and less costly to prevent pollution than to try to clean it up
- ► Get employees involved!







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IN YOUR BUSINESS

- ► May be polluting if businesses
 - ► Rinse washwater down a storm drain
 - Spill materials or wastes in parking lot without cleaning them up
 - Allow materials or wastes stored outside to leak





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IN YOUR BUSINESS

- ► Facility management
- ► Cleaning paved surfaces
- ► Cleaning up spills & leaks
- ► Storing & handling inventory
- ► Storing & disposing wastes
- ▶ Dumpster & loading dock maintenance
- ► Cleaning equipment
- ► Maintaining landscaped areas
- ► Employee training & education



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QUESTIONS & THANK YOU!

IDVEV.

HOW DID WE DO? – PLEASE TAKE OUR SURVEY:

HTTPS://WWW.SURVEYMONKEY.COM/R/ROUGESTEWARD

IF YOU WOULD LIKE MORE INFORMATION MAILED TO YOU, PLEASE EMAIL YOUR ADDRESS TO:

info@allianceofrougecommunities.com

For more information on how you can protect water quality and to download a copy of the webinar slides visit:

https://www.allianceofrougecommunities.com/steward.html

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