

Streams in the City of Salem

Q:What's a

Watershed?

A:

A watershed

is an area that drains to a body of water, such as a stream.

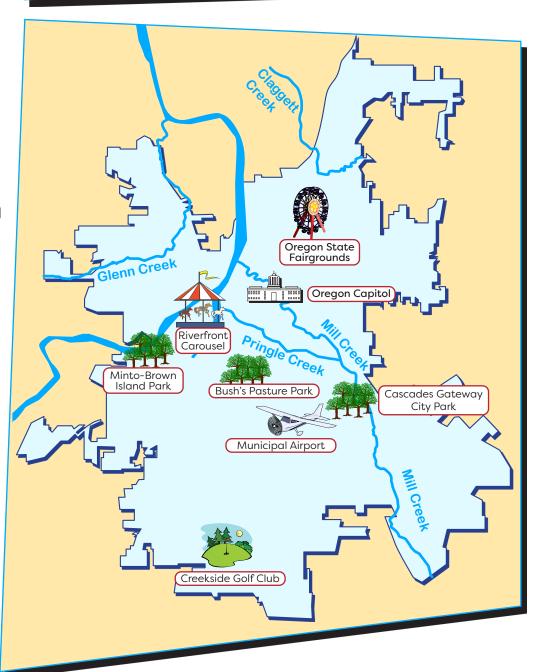
In Salem, there are over 90 miles of streams!

There are over 14,000 storm drains that drain into these streams.

All storm drains lead directly to streams and the water is not treated!

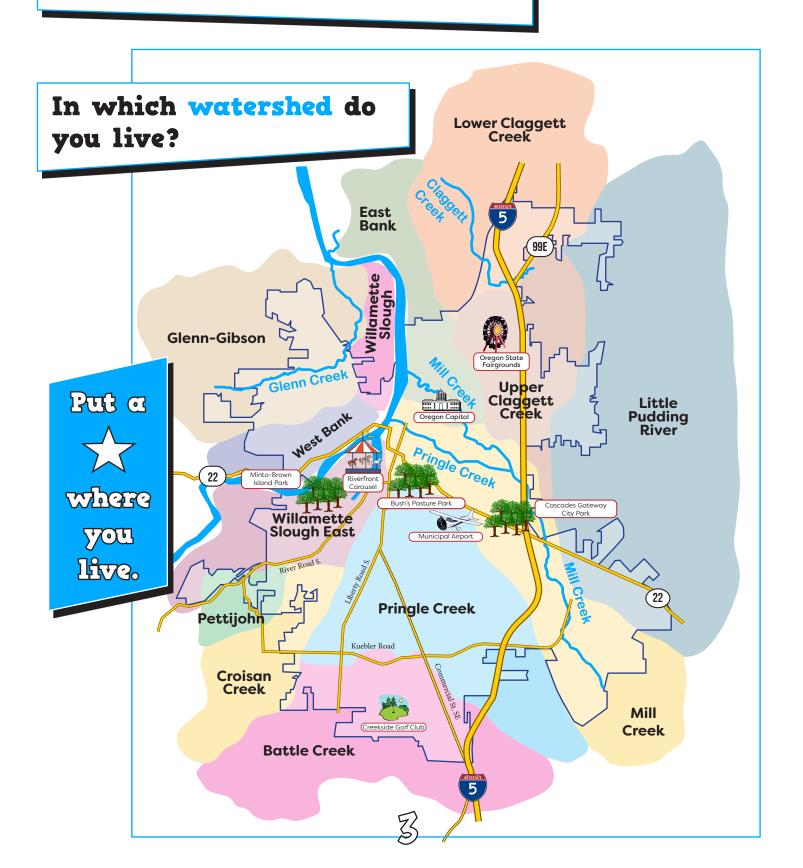
How clean a stream is depends on what we do in our watersheds. This map shows the City of Salem.

Wherever you live in Salem, you are in a Watershed.



Salem's Watersheds

This map shows the 13 watersheds in Salem.



Macroinvertebrates

Q:
What's a
macroinvertebrate?

A:

A "Water Bug!"

Macro means big so you can see it without a microscope.

Invertebrate means it does not have a spine.

Lets identify some macroinvertebrates.

You will see some macroinvertebrates on the next page.

Read the descriptions below, then **CIRCLE** the macroinvertebrate on the next page in the correct **COLOR**.

Water Mite, Circle in RED.

- · Looks like a spider.
- 8 legs
- Size of a tiny dot in the water.
- Somewhat Sensitive to pollution.

Dragonfly Nymph, Circle in ORANGE.

- Looks like a beetle.
- 2 tiny tails.
- Wings
- · Somewhat Sensitive to pollution.

Fly Larva, Circle in GREEN.

- Looks like a worm.
- Has a head with eyes and funny looking hairs coming off of the mouth.
- Tolerant to pollution.

Aquatic Red Worm,

Circle in YELLOW.

- Lots of land versions in the soil.
- · Has no legs.
- Has no distinct features at the head or tail.
- Tolerant to pollution.

Stonefly, Circle in BLUE.

- 6 legs
- 2 tails
- Sensitive to pollution.

Mayfly, Circle in PURPLE.

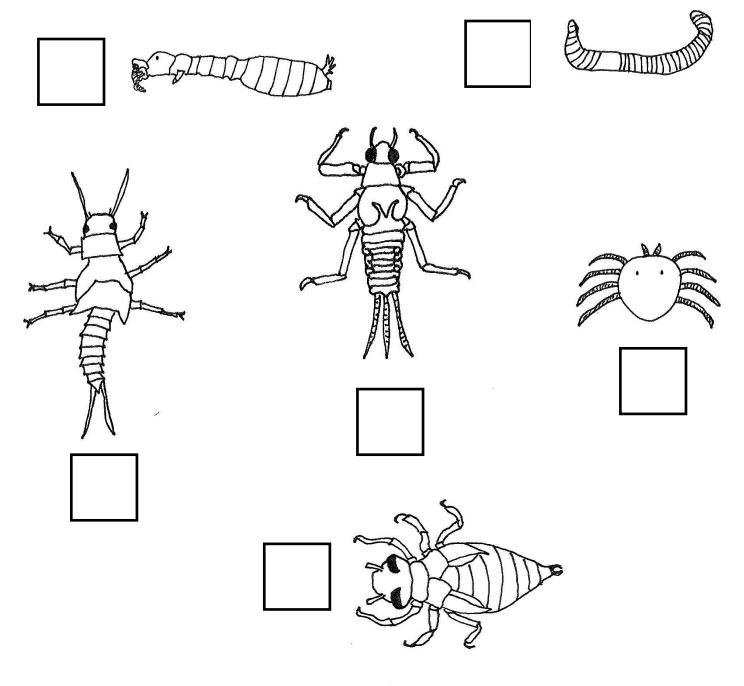
- 6 legs
- 3 tails
- Sensitive to pollution

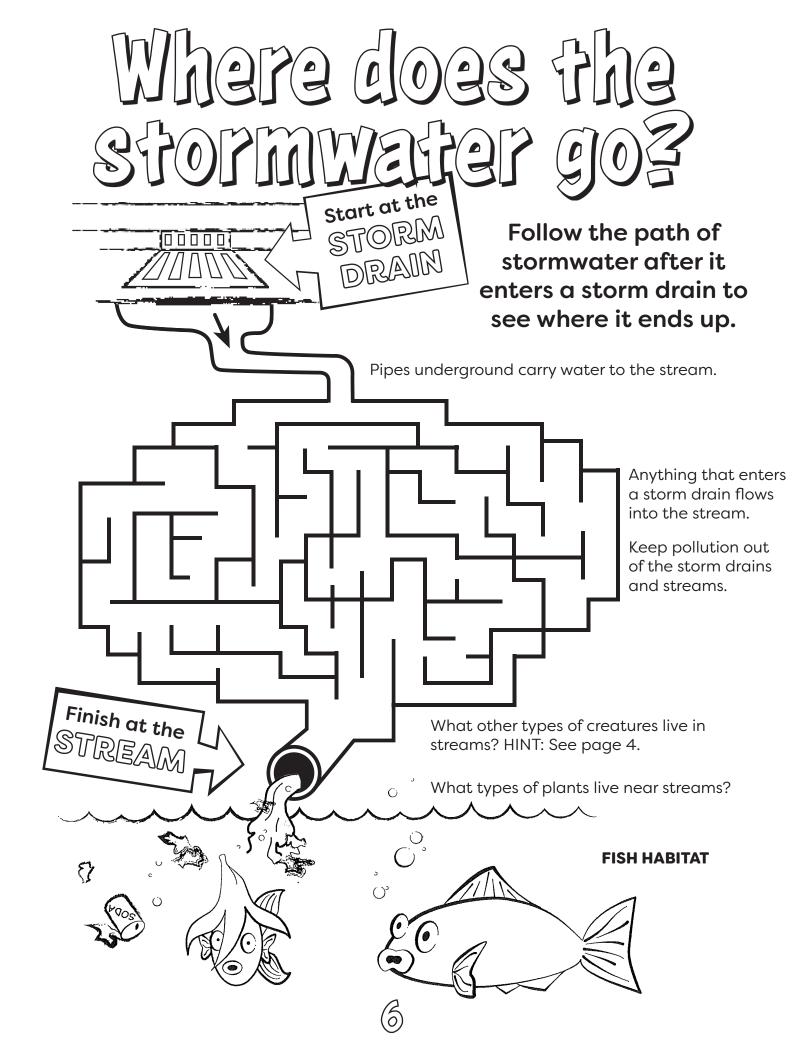


Write the correct letter in the box by each macroinvertebrate to show their tolerance to pollution.

S = Sensitive

T = Tolerant SS = Somewhat Sensitive





Clean Streams Word Scramble

Unscramble the words to find the hidden messages.

ETRAMS	1. Fish and other critters depend on clean water.			
OPPO	2. Dog adds E.coli bacteria to streams.			
YAMFIL	3 . You and yourcan help protect fish and their homes.			
TROMS NAIRDS	4 . Picking up litter helps fish by keeping pollution out of and streams.			
ATTABIH	5. An animal's home is called a			
	1. stream 2. poop 3. family 4. storm drains 5. habitat			

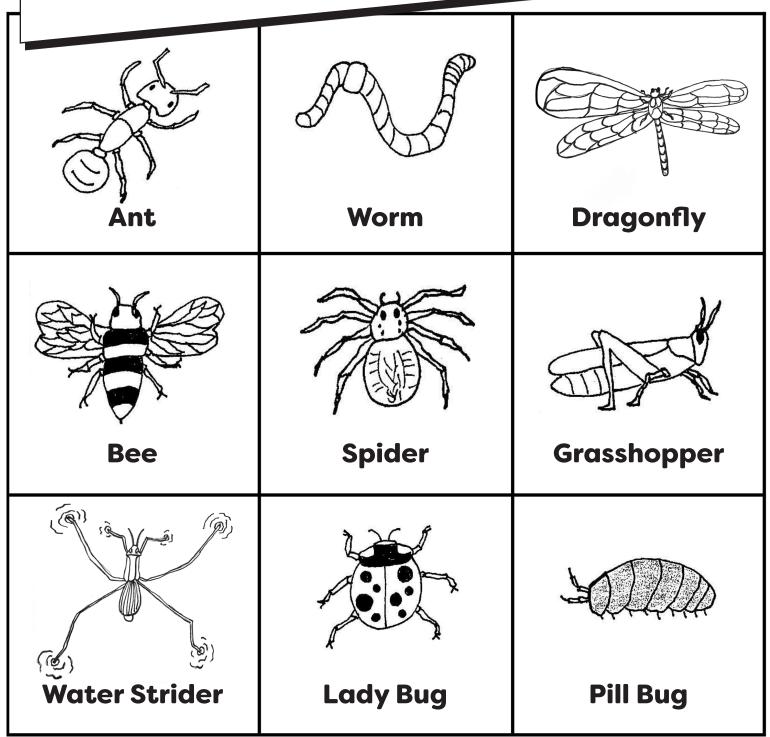
:syawers:

Crawly Critter Bingo

These crawly critters that live on land rely on clean water too. Head outside and see if you can find these critters.

Get 3 in a row and you get a BINGO!!







Trees Help Streams!

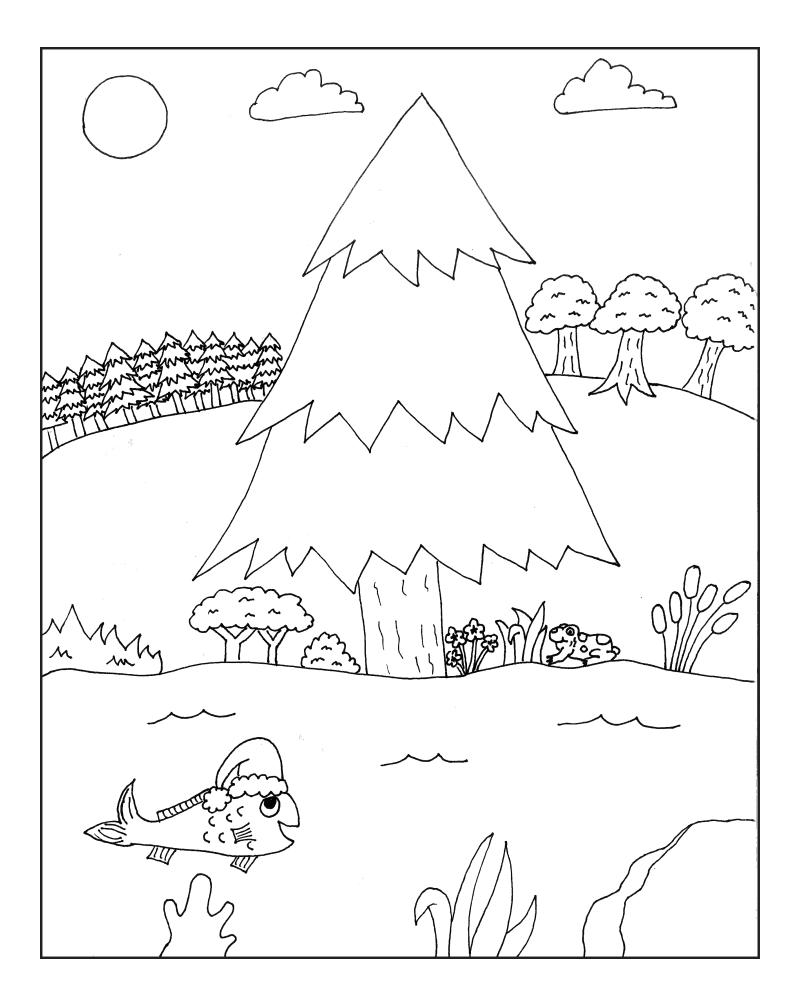
Trees are great to decorate for the holidays, but did you know that they are important for streams and fish too?

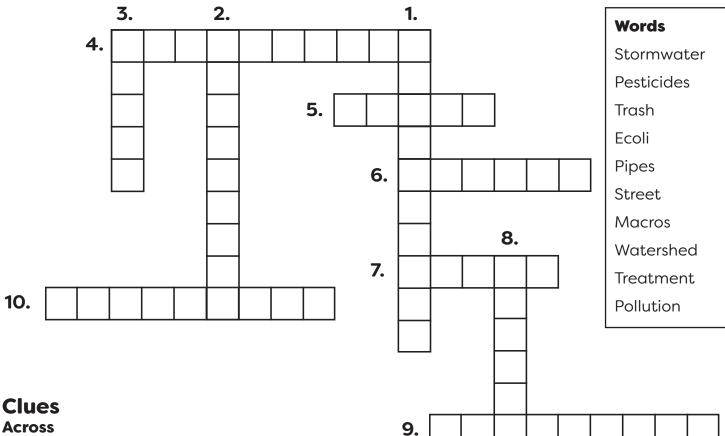


Here are some benefits of trees

- ▲ TOS provide shade. This helps keep the water nice and cool for fish.
- ▲ 1798 help to hold the soil in place so it doesn't run into the water when it rains.
- lacktriangle lacktriangl
- ▲ Task help to filter out pollution before it reaches the stream.

On the next page, decorate this fish's holiday tree.





- 4. Chemicals put on lawns and gardens to kill unwanted bugs.
- 5. This bacteria comes from pet waste.
- 6. The abbreviated name for bugs that live in streams.
- 7. Items found on the ground that don't belong there; another word for garbage.
- 9. An area of land that drains to a common body of water.
- 10. Stormwater picks this up and carries it to streams where it can harm wildlife.

Down

- 1. Water that flows along the ground and into storm drains when it rains.
- 2. Stormwater often does not receive this before flowing to streams.
- 3. Stormwater flows underground through these on its way to local streams.
- 8. Stormwater flows along this surface on its way to a storm drain.

6. Macros 7. Trash 8. Street 9. Watershed 10. Pollution 1. Stormwater 2. Treatment 3. Pipes 4. Pesticides 5. Ecoli

What Doesn't Belong Circle the 10 items that don't belong in or near the stream. Then color the picture.

Pollutants Found at Home

Pollutants can be found at home. Stormwater flows into a storm drain and then directly into local streams.

Can you find these pollutants on the next page?

Circle each pollutant on the coloring sheet, then color the picture.

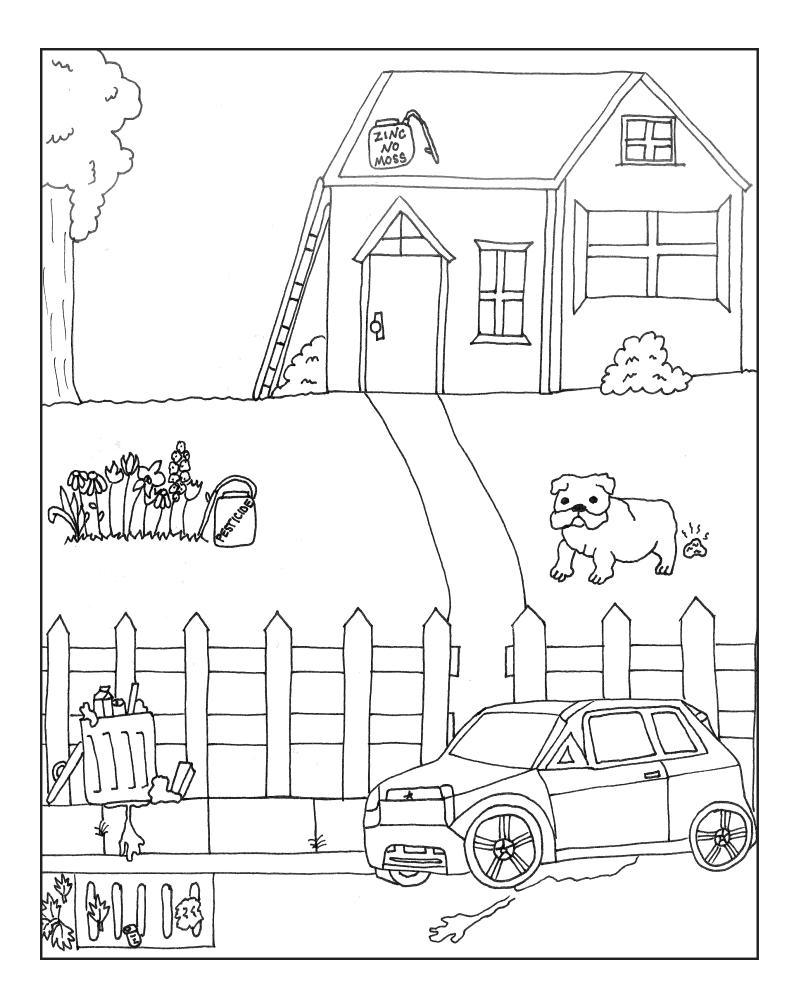
DOG POOP (E. coli)
Zinc

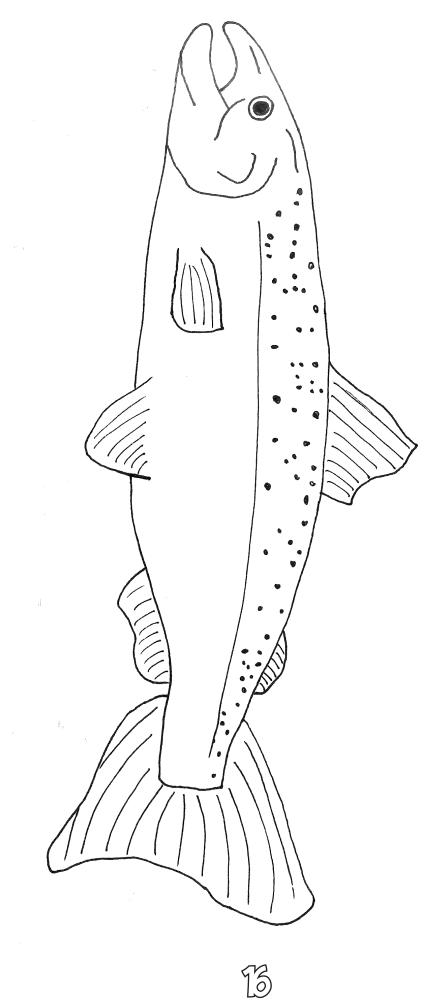
rrash

lio

Pesticides

Leaves (Nutrients)

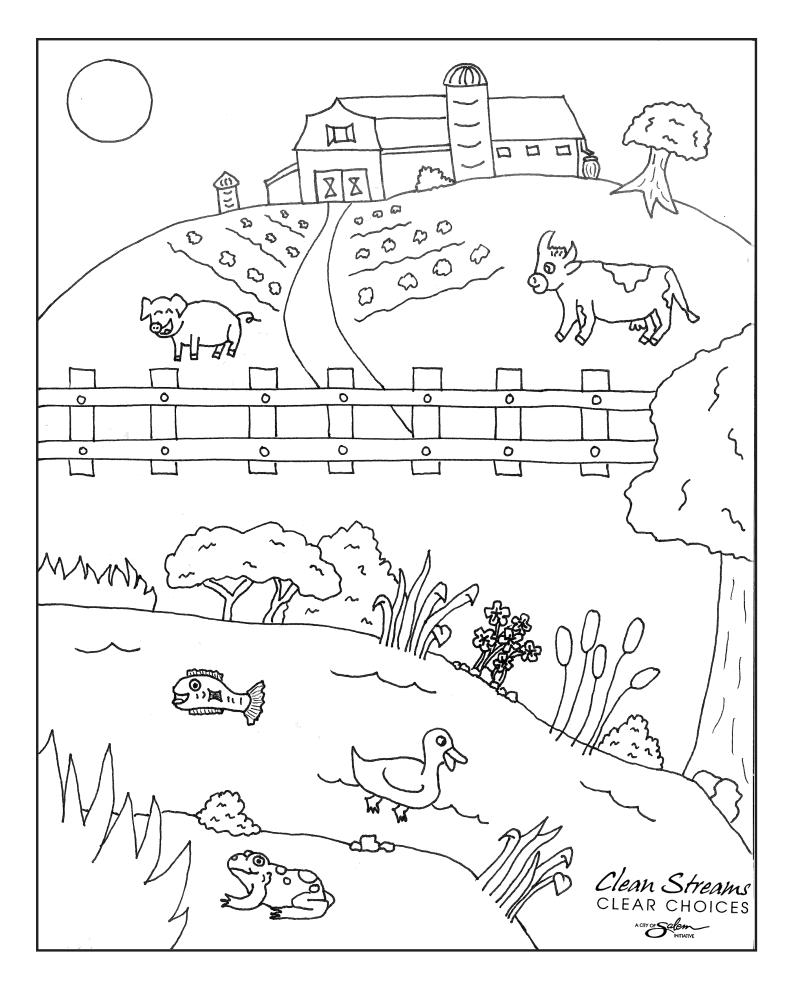




My name is:

like to eat:

(What do salmon eat?) Hint: See page 4



Fill in the list below, then add the words to the story on the next page.

 	: : -	
	: 	
	1	

Sara the Clean Streams Superhero

Sara had just learned all about stormwater pollution at school. Filled with her new knowledge, she set out to walk to _____. On her walk home she passed Mr. Thomas walking his ______. She noticed that his was going to the bathroom. When his pet finished, Mr. Thomas _____ away. "Mr. Thomas!" Sara shouted as she _____ towards him. "Hello Sara." Mr. Thomas said. "Mr. Thomas, you didn't pick up after your pet! Don't you know that pet waste leads to E. coli bacteria in our _____ and can make fish sick?" Sara said waving to the pet waste still sitting on the ground. "_____! I had
7. Exclamation no idea. Thank you Sara, I will pick it up right away." Mr. Thomas said, heading to pick up the pet waste. Sara continued on her way home. for helping to keep pollution out of stormwater and local streams. Sara was a Clean Streams Superhero! You can be a Clean Streams Superhero too! Help your friends and neighbors understand how pollutants get into our stormwater and local streams.



Visit our website:

www.CleanStreamsSalem.org to:

- Join the Capital Canine Club.
- Volunteer to mark storm drains in your neighborhood. (Summer program only.)
- Take the W.E. Pledge.
- · Volunteer to plant trees. (November - April program)
- Find information on stream friendly landscaping and car care.

Report illegal dumping to dispatch at 503-588-6311.

AND MORE!!!

Your family can follow us on Facebook at Facebook.com/CityOfSalemOR

Contact the Clean Streams Team at stormwateroutreach@cityofsalem.net

503-588-6211

1410 20th St. S.E., Bldg. 2, Salem, OR 97302





A City of Salem Initiative