

STORMWATER THE BOOK



NORTH AUSTIN MUD #1 | TRAVIS COUNTY MUD #3 | TRAVIS COUNTY MUD #20 | WELLS BRANCH MUD
WILLIAMSON COUNTY WSIDD #3 | VISTA OAKS MUD | WILLIAMSON COUNTY MUD #13

NORTH AUSTIN
STORMWATER QUALITY COALITION

WHERE DOES ALL THE WATER GO?



Whenever it rains or snows, water runs off the land and into our storm drain system. The storm drain system is made up of gutters, storm drains (the holes in the curb) and pipes. The water that runs off the land is called **stormwater**. The storm drain system carries the stormwater to local waterways. The water that runs off into the storm drain system never passes through a water treatment plant, so anything the stormwater picks up, or is placed in it along the way, will be carried **UNTREATED** to the nearest waterway.

WHO LIVES IN A WATERSHED?

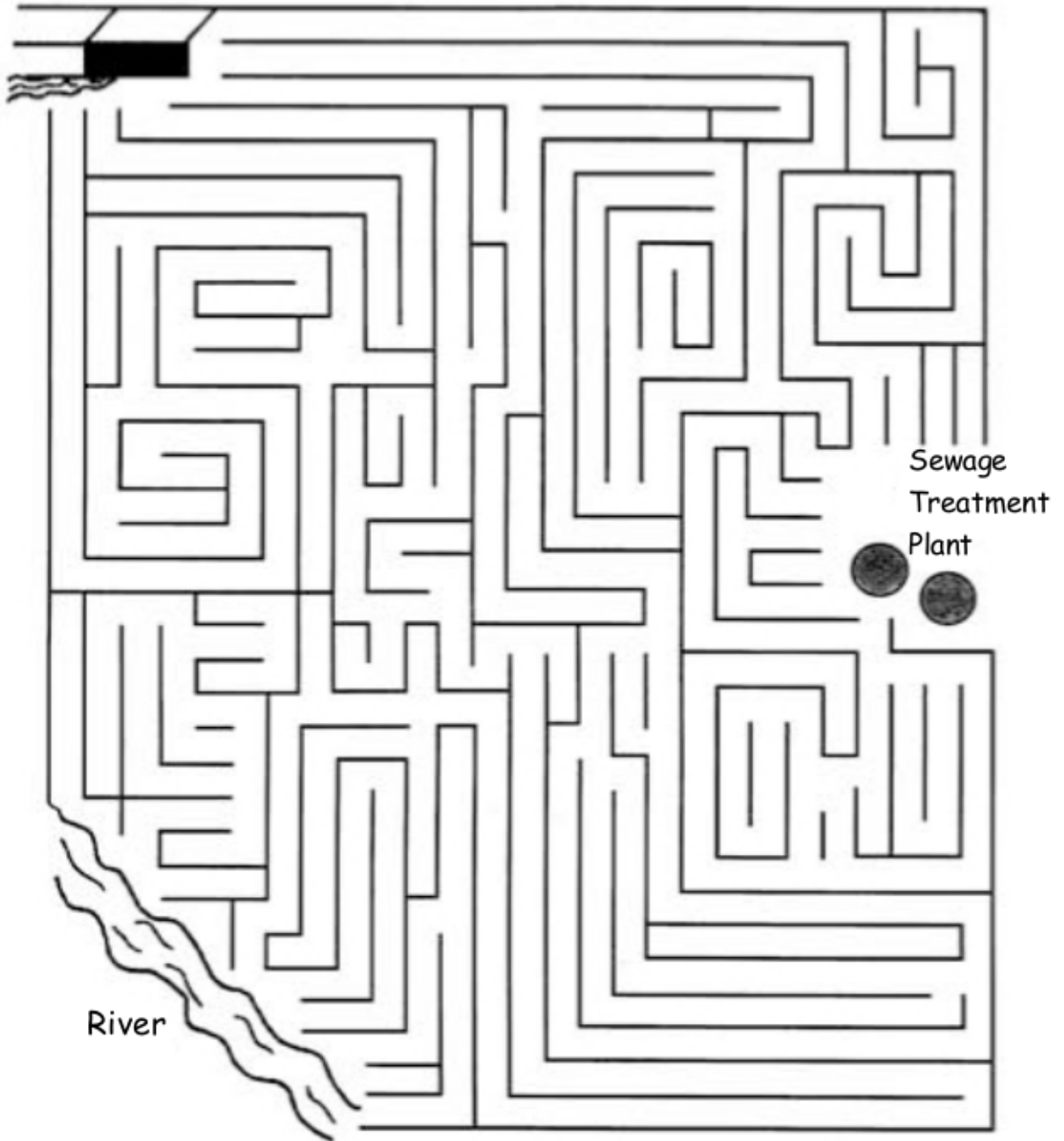
A watershed is the land that water flows across or under on its way to a stream, river, lake, or ocean. Water runs to the lowest point in the watershed.

At the bottom of the page, list the animals in this picture that live in a watershed.



THE A-MAZING STORMWATER STORY

Everyone knows that water flows. But who knows where the water goes? Follow the gutter water through the storm drain system to find out.



Does gutter water go to the sewage treatment plant or to the river? _____

STORMWATER POLLUTION

The untreated water in the storm drain system can carry pollutants to nearby waterways. Things that are put on the ground can be washed into our storm drains by rain or overwatering our yards. When carried by stormwater, pollutants, such as motor oil and antifreeze from cars, fertilizers and pesticides on our lawns and gardens, pet waste, paint, trash, and soap can end up in the waterways, making the animals that live there very sick. Even things like soil and leaves can be pollutants -- they clog storm drains and choke up our waterways. Sometimes, people who don't know that stormwater isn't treated dump or deliberately wash pollutants directly into the storm drains. Of course, you, Croaker and Stormy know where all these pollutants go.



FIND THE POLLUTANTS



Stormy has found many pollutants in the stream in which he lives. All of these pollutants were carried to the stream in the stormwater and are mentioned on page 4. Can you find the stormwater pollutants in the box above? Some words may be backwards. When you find them, write the words in the space provided.

- | | |
|----------|-----------|
| 1) _____ | 6) _____ |
| 2) _____ | 7) _____ |
| 3) _____ | 8) _____ |
| 4) _____ | 9) _____ |
| 5) _____ | 10) _____ |

FROM YOUR HOME TO OURS



Pollution in our neighborhood can travel to local streams and rivers through the storm drain system. Below is a list of steps in this polluting process, but the steps are out of order. Write out the steps on the lines provided in the order that they would normally occur, with number one being the first step and number five being the last step.



The storm drain carries the polluted stormwater to the stream.



1. _____

Paint and other pollutants are left outside.



2. _____

Fish and other animals that live in the stream get sick and might die.



3. _____

Rain water washes over the pollutants and carries them into the street.



4. _____

Polluted rain water flows down the street and into the storm drain.



5. _____

WATER POLLUTION AFFECTS...

Unscramble the words below to find out who is harmed by water pollution.



HIFS _____

SRBDI _____

LEEPOP _____

USKDC _____

GOFRS _____

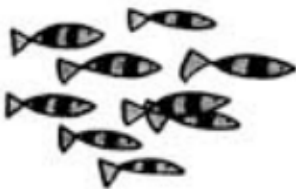
LMNAISA _____

OYU _____

NLTAPS _____

GUSB _____

YREVNOEE _____



HELPING TO KEEP GUTTERS CLEAN

There are lots of ways you can help prevent stormwater pollution and keep your water (and our home!) clean. You can help by:

- 1) placing litter in trash cans and recycling materials, such as aluminum, paper, and plastic bottles;
- 2) picking up pet waste and putting it in the trash;
- 3) washing the family car in an area that doesn't run off to a storm drain, such as your lawn or the car wash;
- 4) watering the lawn for shorter periods of time so that water doesn't run off; and;
- 5) rake or sweep up grass, leaves and twigs from your yard, rather than hosing it away or using a leaf blower.

The plant material you collect can be used to make compost.

You can get your parents to help too! Tell them that things like paint, antifreeze and chemical cleaners need to be taken to a household hazardous waste collection facility. Also, ask them to repair any leaks their cars have and to recycle used motor oil and filters.



LEND A HELPING HAND

To help prevent stormwater pollution, Stormy puts recyclables in the recycle bin and litter in the trash can.

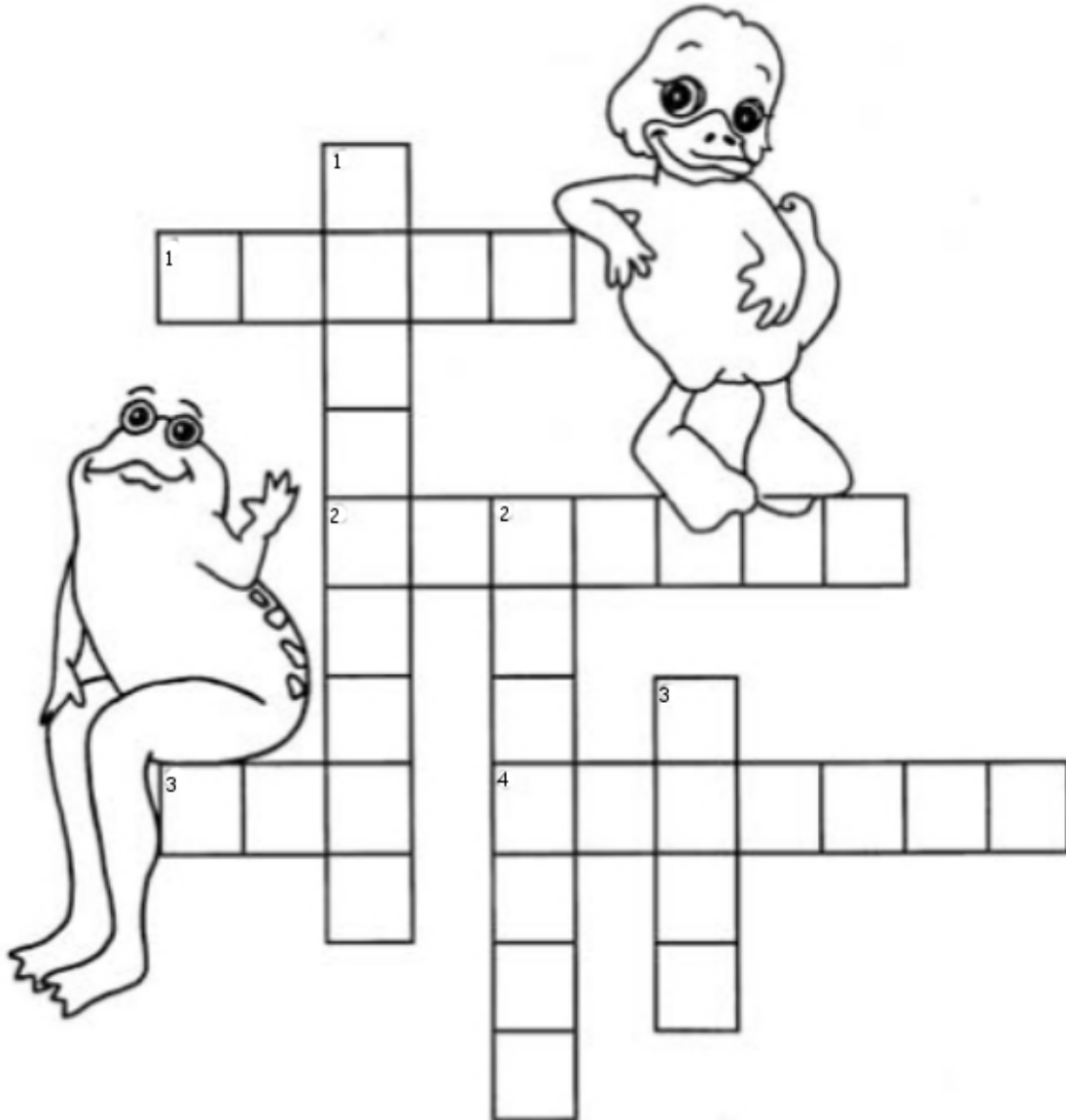
Write the appropriate words from the recycle bin in the blanks to find out what else you can do to prevent pollution.



1. _____ the driveway instead of hosing debris into the street.
2. _____ pet waste and put it in the trash rather than leave it lying on the ground.
3. _____ run off, water the lawn for shorter periods of time.
4. Ask your parents to _____ used motor oil.
5. _____ the car on the lawn or at the car wash, so soap, dirt and oil don't end up in the storm drain.
6. _____ by composting yard debris, such as grass clippings, leaves and twigs, and use the compost in your garden.
7. _____ Your parents that left over paint and antifreeze need to be taken to a house-hold hazardous waste collection facility.

CLEAN WATER CROSSWORD

Decide what words belong in the boxes by reading the clues.



ACROSS

- 1.** The place litter and pet waste belongs.
- 2.** What you should do with used motor oil and filters.
- 3.** Who can help prevent stormwater pollution?
- 4.** You can recycle _____ bottles.

DOWN

- 1.** Left over paint, antifreeze and household cleaners are _____ wastes, and should be taken to a collection facility.
- 2.** You can make it out of yard clippings.
- 3.** Where, at home, you can wash the car without having soap, dirt and oil flowing to the storm drain.

**WITH YOUR HELP, WE CAN
KEEP GUTTERS CLEAN
FOR THOSE
DOWNSTREAM!**

CROAK!
For more
information on stormwater,
go to
ms4web.com/northaustin

For the answer
to the activities
look below.



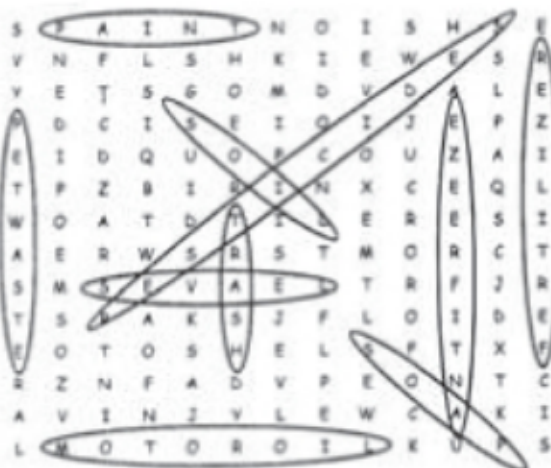
Page 2

Everyone lives in a watershed, so you should have listed all of the animals (people included!).

Page 3

The stormwater goes straight to the river, it does not go to the water treatment plant to be cleaned.

Page 5



Page 6

1) paint and other pollutants are left outside. 2) Rain water washes over the pollutants and carries them in to the street. 3) Polluted rain water flows down the street and into the storm drain. 4) The storm drain carries the polluted stormwater to the stream. 5) Fish and other animals that live in the stream get sick and might die.

Page 7

Fish, Birds, People, Ducks, Frogs, Animals, You, Plants, Bugs, Everyone

Page 9

1) Sweep, 2) Pick up, 3) Prevent, 4) Recycle, 5) Wash, 6) Reduce Waste, 7) Tell

Page 10

Across: 1) Trash, 2) Recycle, 3) You, 4) Plastic

Down: 1) Hazardous, 2) Compost, 3) Lawn