



Northeast Ohio  
Regional Sewer District

presents

Wally Waterdrop's

# Where does it go?

Activity book

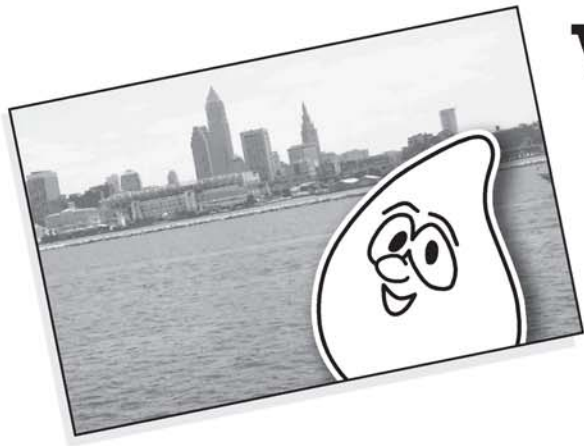


I'm Wally!  
Follow me and  
I'll show you!



Northeast Ohio Regional  
Sewer District

Protecting Your Health and Environment

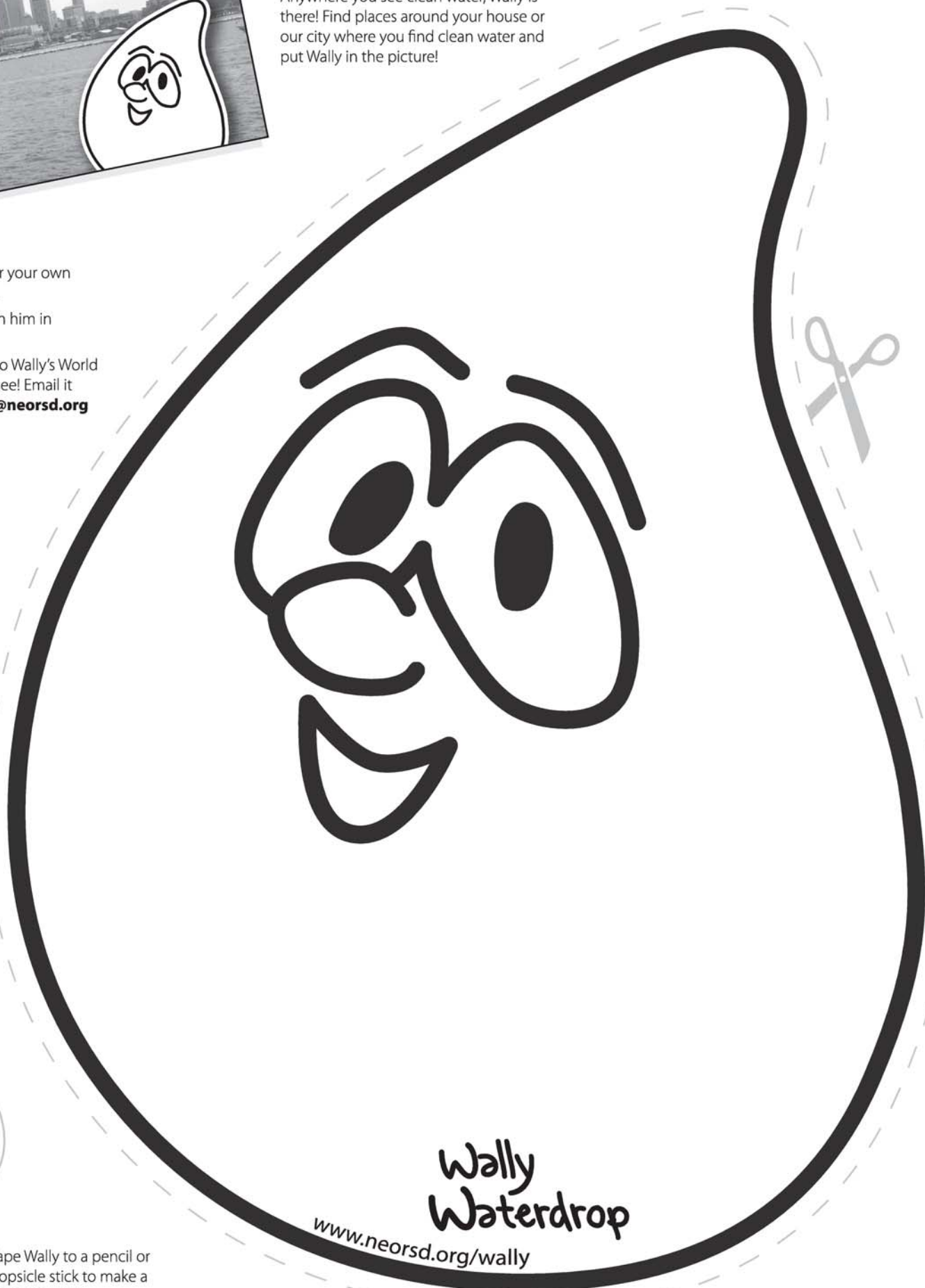


# Where's Wally?



Anywhere you see clean water, Wally is there! Find places around your house or our city where you find clean water and put Wally in the picture!

- 1.) Cut out and color your own Wally Waterdrop.
- 2.) Take a photo with him in the picture.
- 3.) Post your photo to Wally's World for the world to see! Email it to **wallysworld@neorsd.org**



Tape Wally to a pencil or popsicle stick to make a Wally puppet.

Wally  
Waterdrop

[www.neorsd.org/wally](http://www.neorsd.org/wally)

## Where does it go?

Water is all around us. It falls from the sky, runs in rivers, and flows in our sinks and down the drain, but where does it all go?

When you flush your toilet, where do you think all the dirty water goes? \_\_\_\_\_

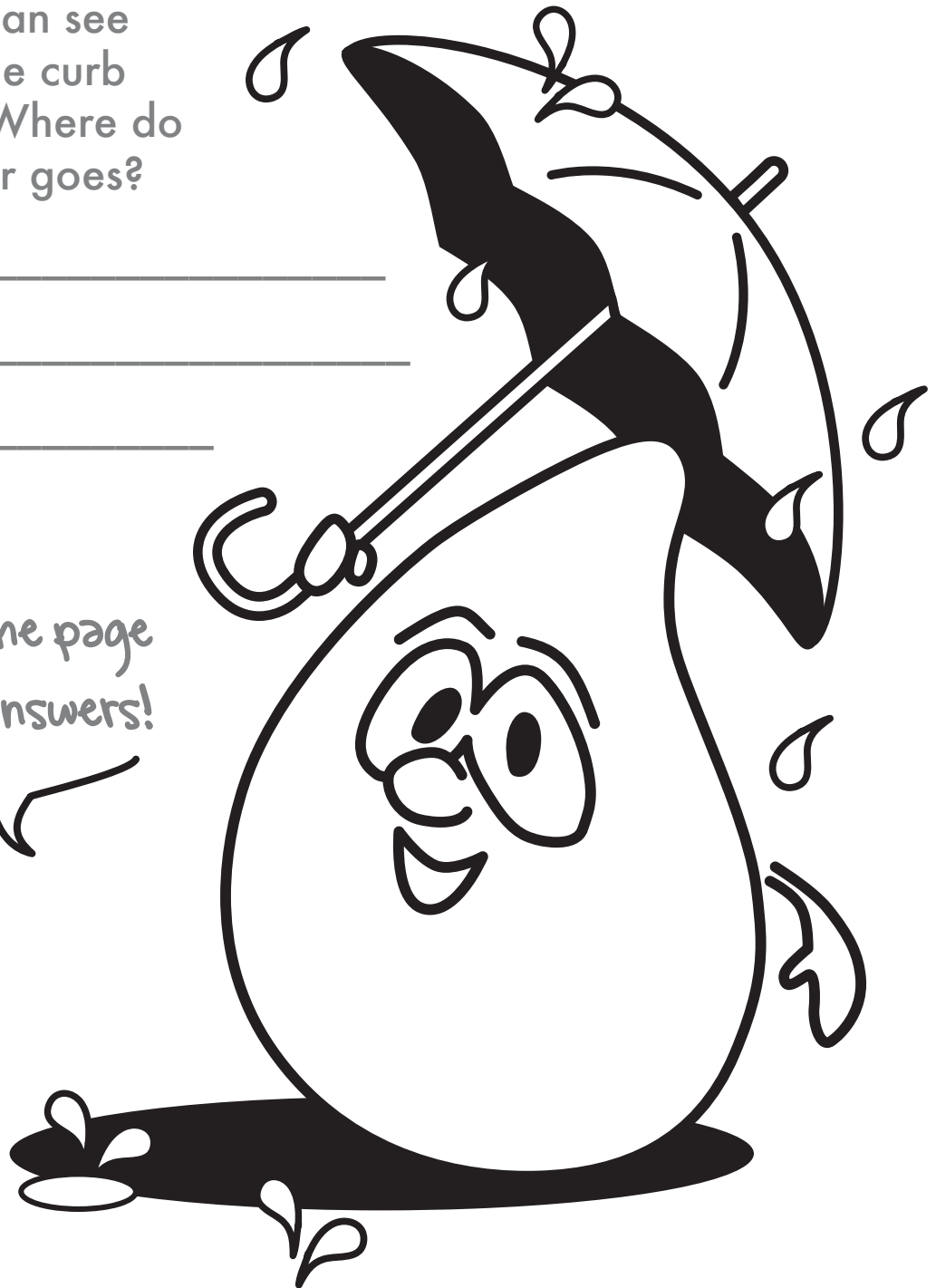
After it rains, you can see rain water along the curb and on the street. Where do you think that water goes?

\_\_\_\_\_

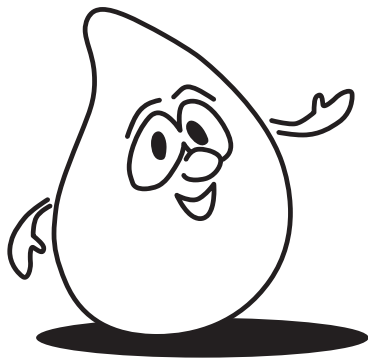
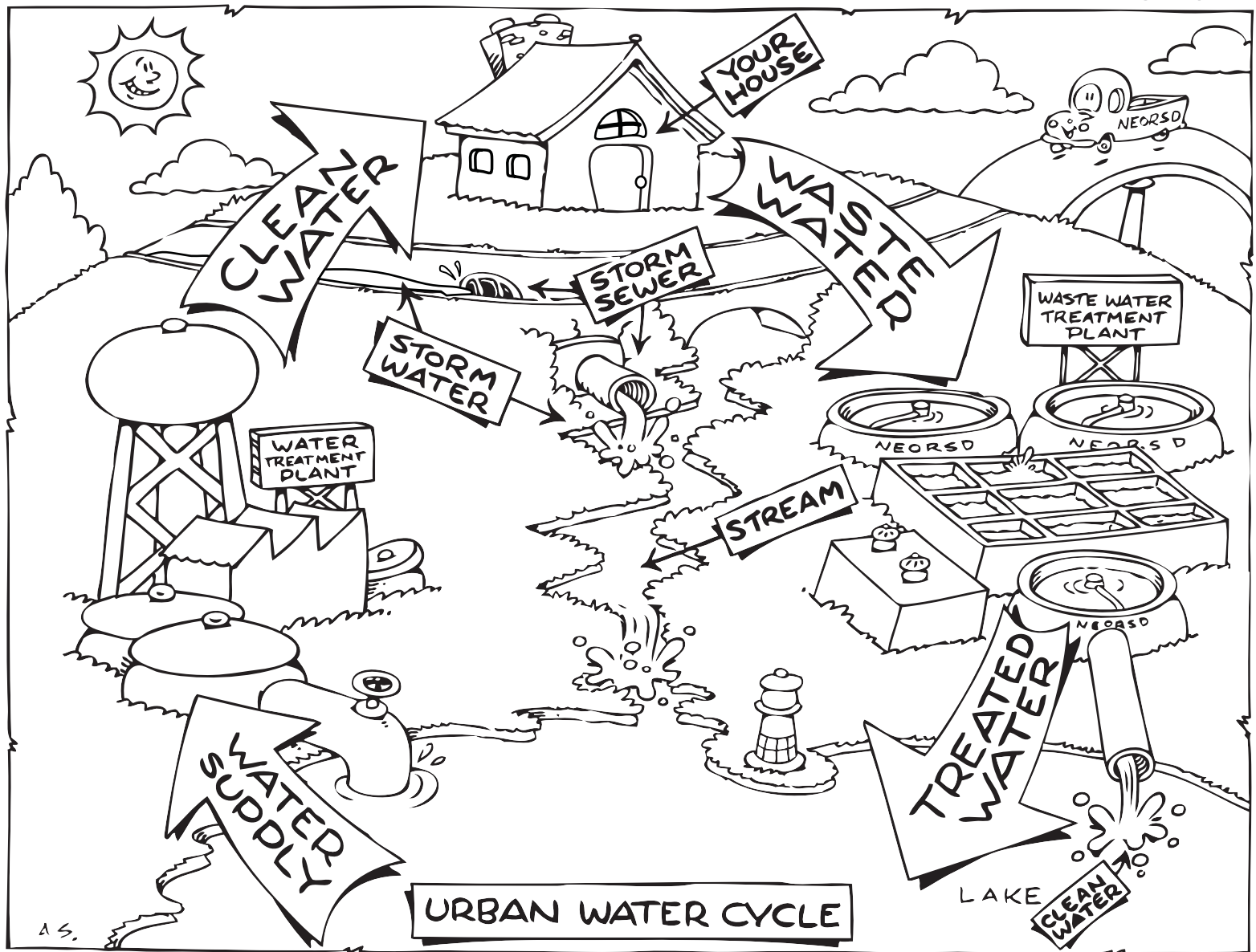
\_\_\_\_\_

\_\_\_\_\_

Turn the page  
for answers!







## Go with the flow: How the water cycle works

In cities like Cleveland, and others across Northeast Ohio, water moves in a cycle called the *urban water cycle*. In our area, our water comes from Lake Erie and flows back to Lake Erie after it has been cleaned.

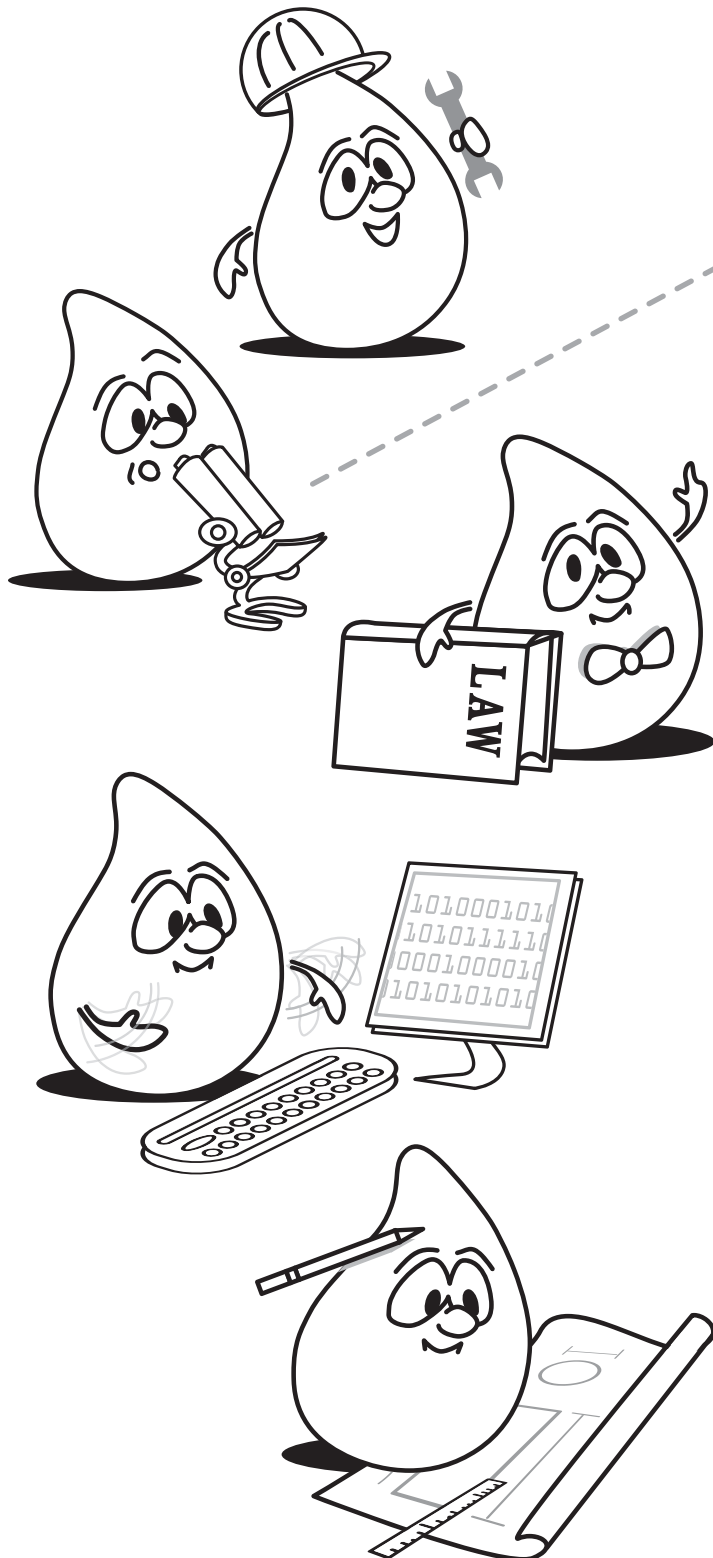
**Look at Wally's urban water cycle and answer:**

Where does the water in your house come from? \_\_\_\_\_

Who cleans the water coming from your house? \_\_\_\_\_

# Who works with Wally?

It takes many people doing many jobs to keep Lake Erie and the Cuyahoga River clean. Look at the clothes Wally is wearing and the tools he is using. *Match his picture with his job.*



## Scientist

A scientist can work in a laboratory.

## Maintenance worker

A maintenance worker can fix broken pipes.

## Engineer

An engineer can draw pictures of pipes so other people can build them.

## Lawyer

A lawyer can study rules that help keep water clean.

## Computer programmer

Many jobs need computers. A computer programmer can make computers work faster to help people do their jobs.

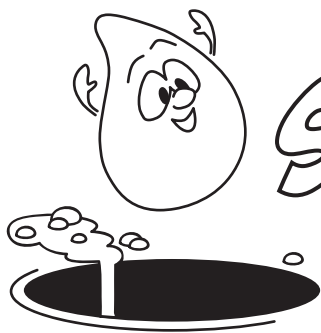


### How many people work for the Sewer District?

The Sewer District has 600 employees doing more than 200 different jobs.

# How does dirty water get clean?

A wastewater treatment plant cleans dirty water, and it takes many steps to clean water safely.



## START HERE!

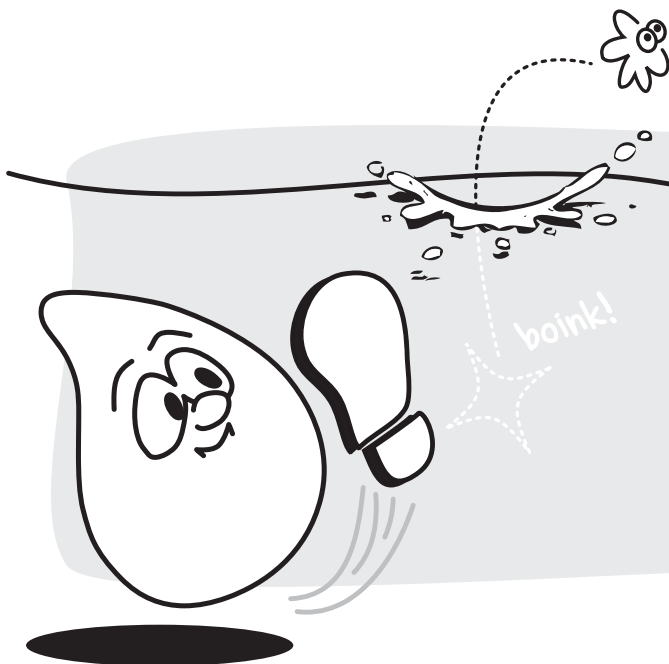
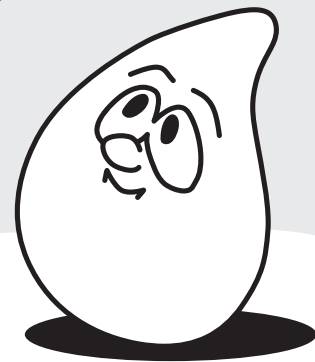


Then draw a line connecting the stars in order from start to finish. Then turn your book upside down for the correct answer!



### “Secondary”

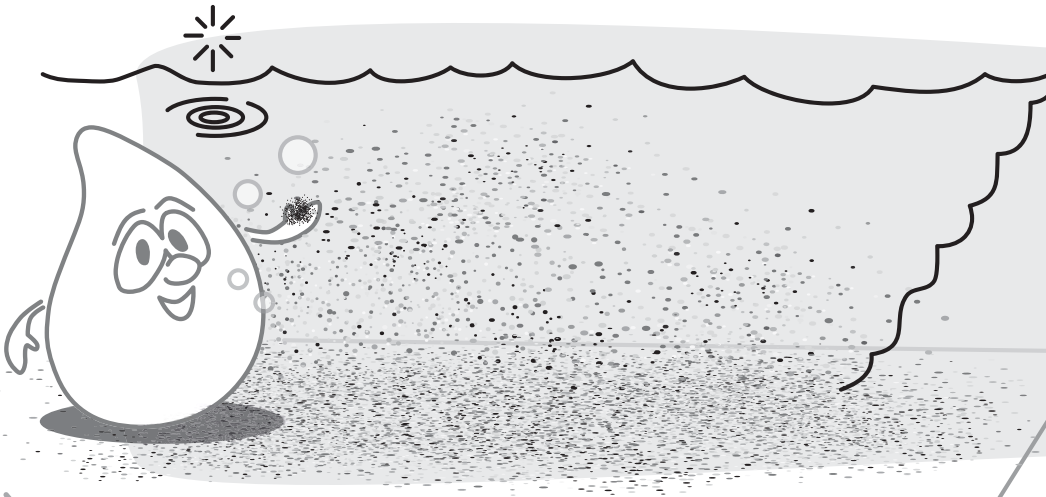
During secondary treatment, tiny helpers called *microorganisms* eat waste that has been dissolved in the water.



### “Disinfection”

Disinfection removes germs called *bacteria* right before the water goes back to our river and lake.

Turn your book upside down for the answer!



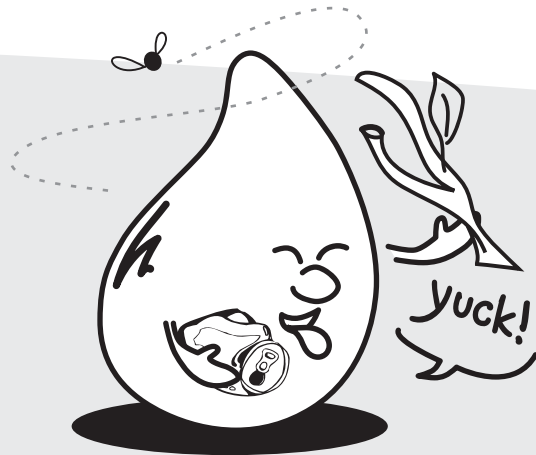
## “Primary”

Primary treatment slows the water down to let solids sink to the bottom and grease float to the surface.



## “Preliminary”

Preliminary treatment removes debris like cans, leaves, and rocks from the water.



# ★ WALLY MADE IT!

Back to Lake Erie,  
safe and sound!



# Wally's Words

Can you find these clean-water words?

BEACH  
CLEAN  
CYCLE  
ENVIRONMENT  
HEALTH

~~LAKE~~  
RAINFALL  
REGIONAL  
RESTORATION  
RIVER

SEWER  
STREAM  
TREATMENT  
WATER  
WATERSHED

W	C	E	A	M	M	T	A	W	L	A	K	E	K	E
A	J	N	J	R	E	V	I	R	R	E	C	A	L	J
T	J	V	B	S	X	D	S	G	W	V	R	L	L	Y
E	L	I	K	X	B	V	F	U	V	E	L	V	A	U
R	O	R	H	E	A	L	T	H	S	M	B	N	F	T
Y	S	O	D	T	N	E	M	T	A	E	R	T	N	P
D	X	N	S	E	J	S	O	V	A	F	L	A	I	Y
W	W	M	U	R	H	R	T	C	N	A	X	E	A	J
Q	N	E	N	I	A	S	H	R	N	A	L	Q	R	R
Y	X	N	L	T	V	X	R	O	E	C	E	V	R	E
O	A	T	I	X	K	M	I	E	Y	A	E	L	B	W
J	N	O	H	C	K	G	J	C	T	H	M	T	C	E
O	N	V	L	X	E	N	W	T	Z	A	I	M	X	S
S	D	H	A	R	A	L	V	E	H	M	W	P	W	U
S	Y	P	I	A	P	E	H	N	D	R	U	F	U	E

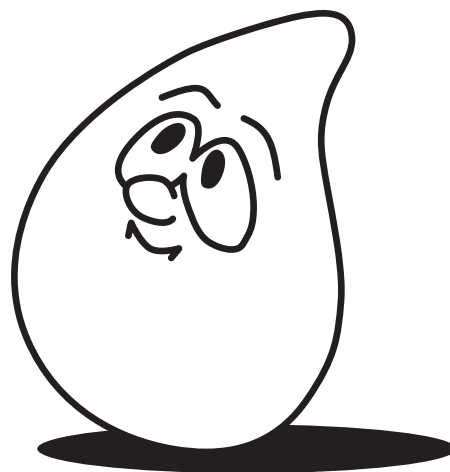


## Water all day long

How many times do you use water every day? Write down every time you use water at home or at school in one day.

Brushing my teeth

This image shows a blank sheet of white paper with horizontal grey ruling lines. The lines are evenly spaced and run across the width of the page. In the bottom right corner, there is a small, simple cartoon drawing of a character's face. The character has large, round eyes, a small nose, and a slight smile. It appears to be peeking or looking up from behind the edge of the paper.

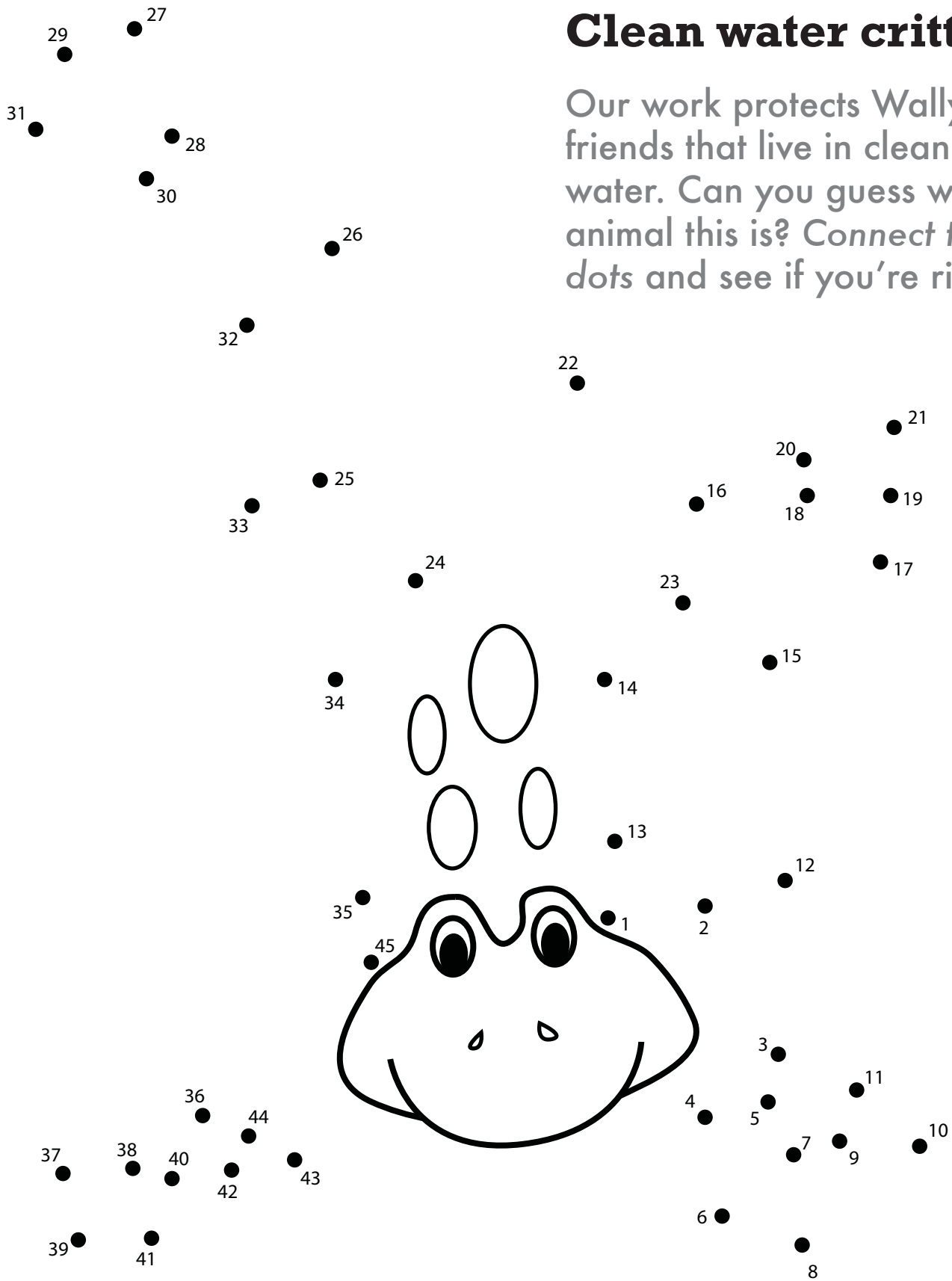


In the United States, every person uses about 80 gallons of water every day for activities like washing, cleaning, and cooking!



# Clean water critters

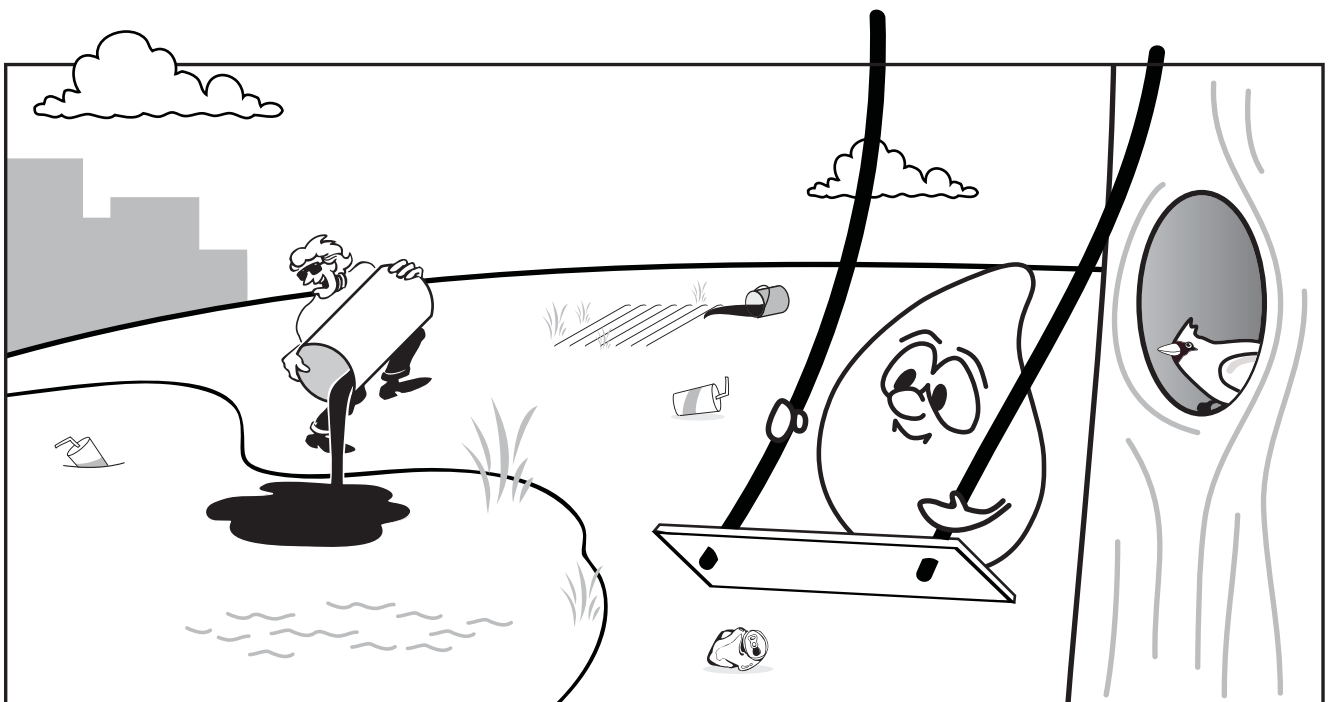
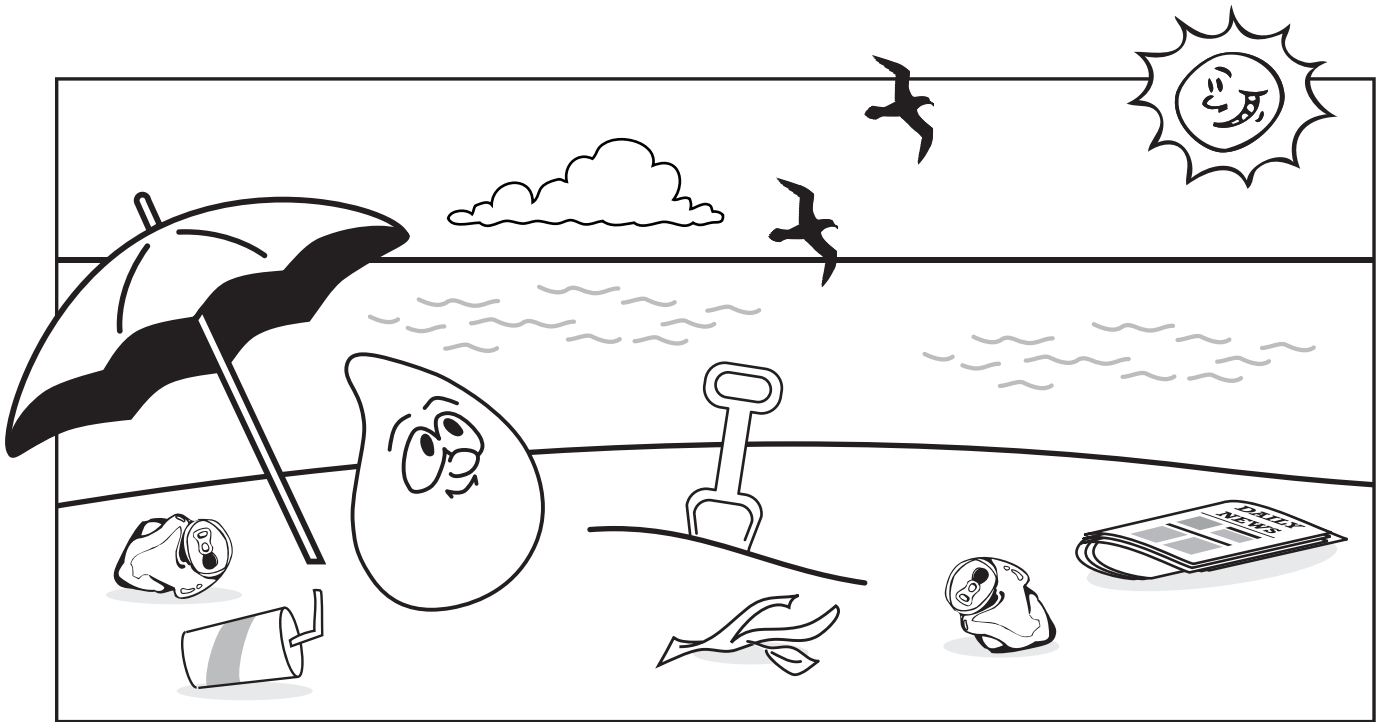
Our work protects Wally's friends that live in clean water. Can you guess what animal this is? *Connect the dots* and see if you're right.



The Northeast Ohio Regional Sewer District studies fish to understand how healthy a stream is. We collected more than 47 different species of fish on the Cuyahoga River in 2007!

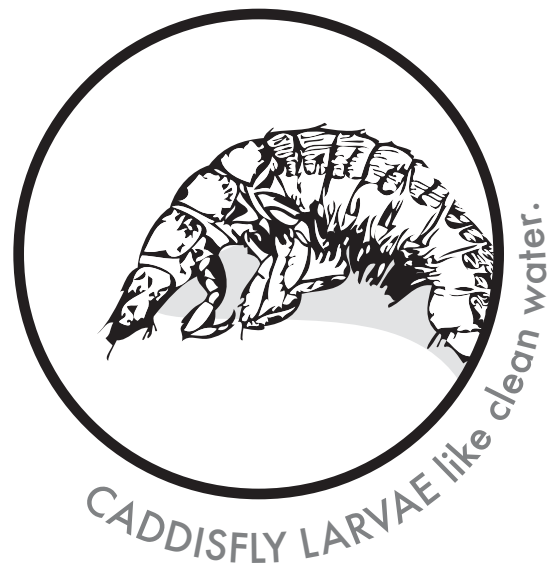
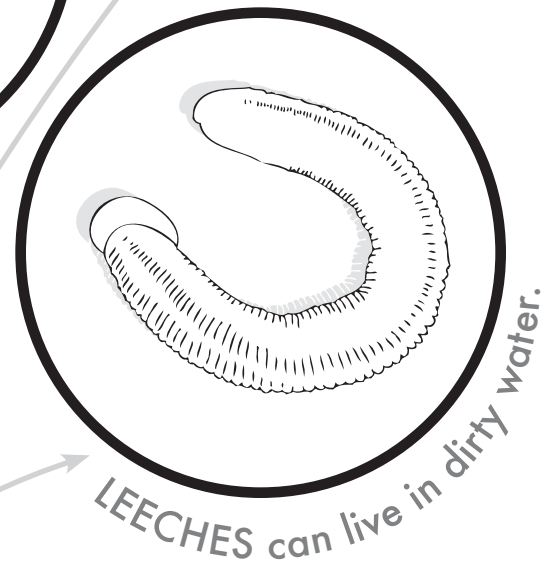
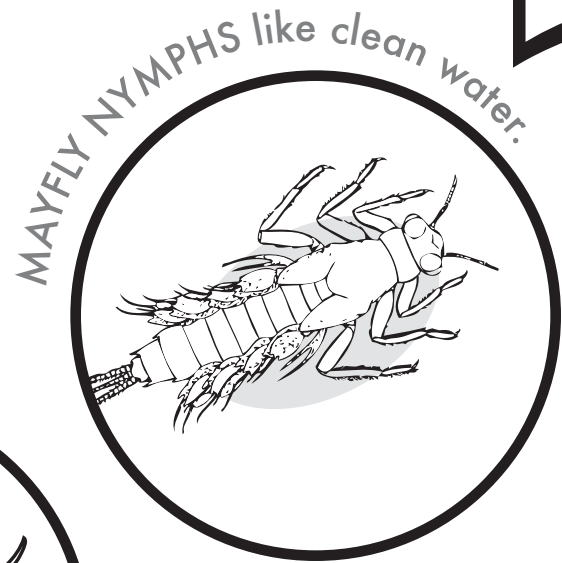
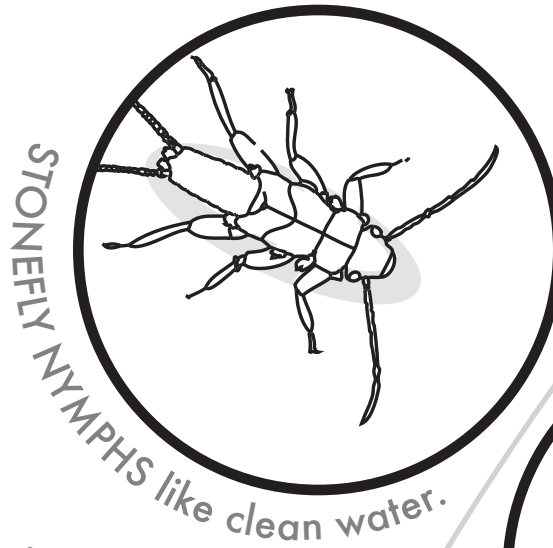
## What doesn't belong?

There are many places to have fun and enjoy clean water. Wally enjoys the beach and the park, but some people don't take care of the environment like they should. *Look at the pictures below and circle what doesn't belong.*



# Bugging out! Macroinvertebrates

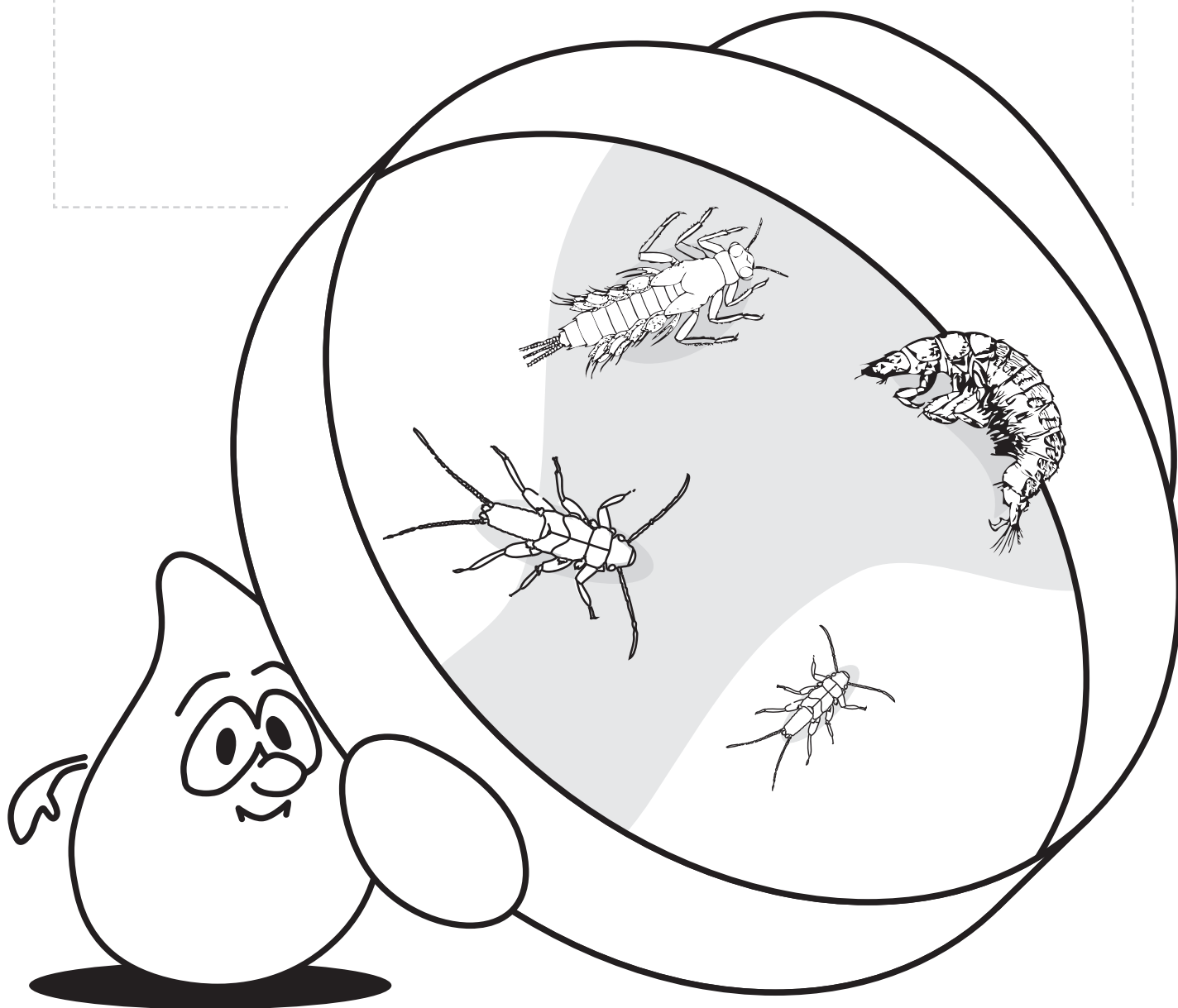
Macroinvertebrates (MAK-ro-in-VER-ta-brats) are tiny animals that don't have backbones. Some macroinvertebrates can live in dirty water, but others need to live in clean water. Color the macroinvertebrates that only like **CLEAN** water.





The Northeast Ohio Regional Sewer District collects macroinvertebrates at eight different locations along the Cuyahoga River!

Wally found these *macroinvertebrates* in a stream.  
Do you think the stream is clean or dirty? Why?



ANSWER: The mayfly nymph, caddisfly larva and stonefly nymphs like to live in CLEAN water, so Wally thinks the stream is CLEAN.



## Be a part of Wally's Clean Water Team!

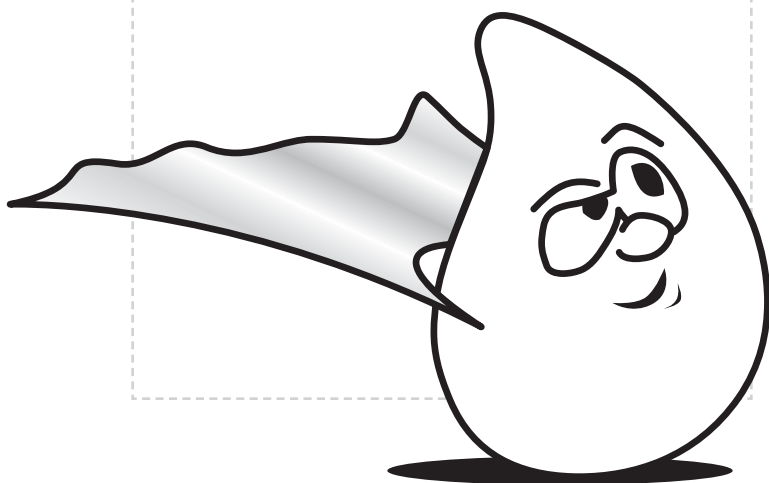
You don't have to be a superhero to protect clean water. There are things we all can do at home to stop pollution and keep our environment healthy. *Think of new ways to help our environment, then add your ideas to Wally's lists.*

### Wally's DO list

1. Recycle.
2. Tell your friends that clean water is important!

### Wally's DON'T list

1. Don't let your family pour paint or oil down the drain.
2. Don't throw trash on the street.



What else can I do to protect clean water? With your parent's permission, visit [wheredoesitgo.org](http://wheredoesitgo.org) for more ideas!

# Be clean-water smart!



With your parent's permission, visit **[wheredoesitgo.org](http://wheredoesitgo.org)** and see if you can answer these questions.

What is "wastewater?" \_\_\_\_\_

What is "stormwater?" \_\_\_\_\_

What is a "watershed?" \_\_\_\_\_

What is a "combined sewer?" \_\_\_\_\_

What is an "interceptor?" \_\_\_\_\_

How many treatment plants are there in the Northeast Ohio Regional Sewer District's service area? \_\_\_\_\_

How many communities are there in the Northeast Ohio Regional Sewer District's service area? \_\_\_\_\_

Where can grown-ups recycle old paint or fertilizer?  
\_\_\_\_\_

Wally Waterdrop's

# CLEAN WATER TEAM

## Membership Pledge

I AM A PROUD MEMBER OF THE  
WALLY WATERDROP CLEAN WATER  
TEAM.

I WILL HELP PROTECT OUR LAKE  
AND RIVER FROM POLLUTION.

I WILL HELP KEEP THE  
ENVIRONMENT CLEAN BY KEEPING  
DANGEROUS CHEMICALS LIKE OIL,  
PAINT, AND CAR FLUIDS OUT OF OUR  
DRAINS.

I WILL TALK TO OTHERS ABOUT  
CLEAN WATER.

I WILL ENJOY CLEAN WATER BY  
HAVING FUN IN PARKS, ON THE  
BEACH, AND AT HOME.

YOUR NAME HERE

Wally :)

WALLY WATERDROP  
PRESIDENT



JULIUS CIACCIA  
EXECUTIVE DIRECTOR,  
NORTHEAST OHIO REGIONAL  
SEWER DISTRICT

