



# 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!

- Cut out and color your own Wally Waterdrop.
- 2.) Take a photo with him in in the picture.
- 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

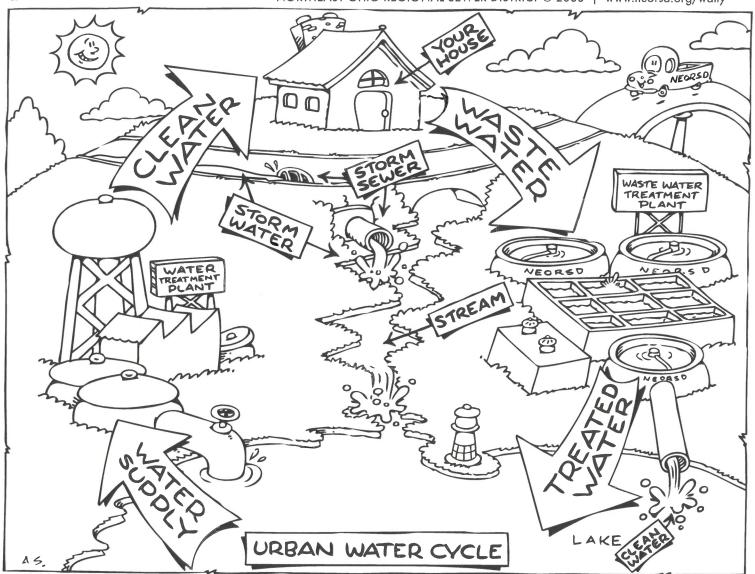
www.neorsd.org/wally

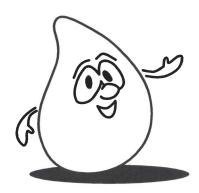
# Where does it go?

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.

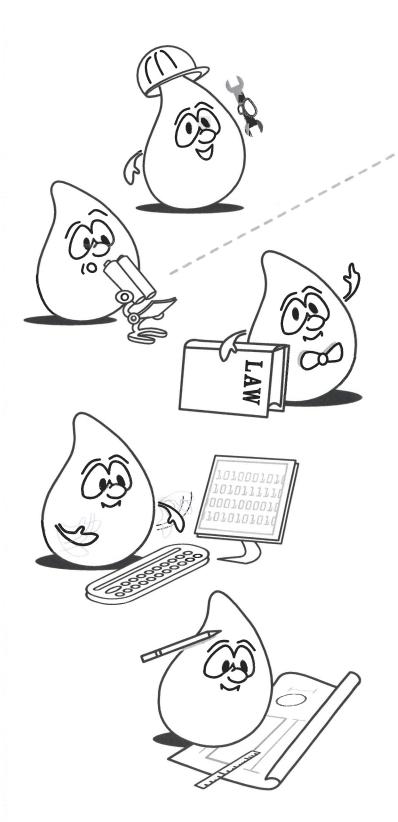
#### Look at Wally's urban water cycle and answer:

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

Where does the water in your house come from?	
,	

# 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.

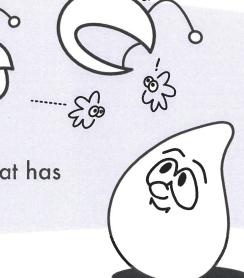


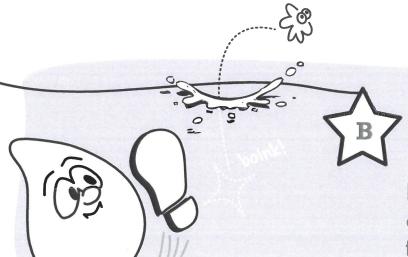
Then draw a line connecting the stars in order from start to finish. Then turn your book upside down for the correct answer!



# "Secondary"

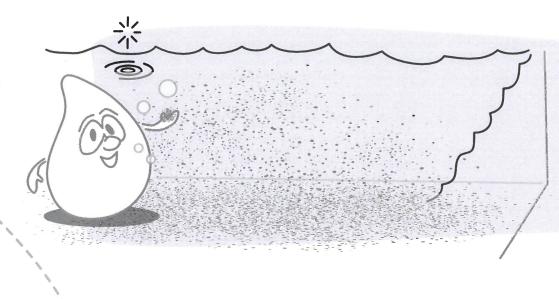
During secondary treatment, tiny helpers called microorganisms eat waste that has been dissolved in the water.





# "Disinfection"

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





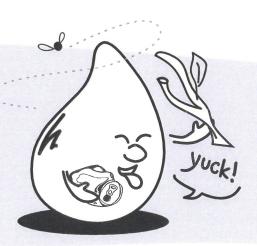
# "Primary"

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.





MILLEY MUDE 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  $\mathsf{C}$ E Α M M T W (L Α K E K Α Ε Α J N J R E V Ι R R E  $\mathsf{C}$ Α L J T J В S S V X D G W V R L L Y E L Ι K Χ В ٧ F U V E L ٧ Α U R R Н E Α T Н S M В N F T 0 Υ S T 0 D Ν Ε M T Α Ε R T N P S E S X N J 0 V Α F D L Α Ι Y W W М U R R Т C N Н Α X Ε Α J S 0 N E N Ι Α Н R N Α L 0 R R Υ X N L T V X R 0 E  $\mathsf{C}$ E E V R 0 Α T Ι X K M Ι Ε Υ E Α L В W J  $\mathsf{C}$ K  $\mathsf{C}$ N 0 Н G J T Н M  $\mathsf{C}$ E T N V X Ε 0 L N W T Z Α Ι М X S S H R D Α Α L E Н М P W U W S Y Ι P Α Ε F P Н N D R U U E

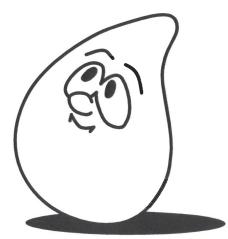
# Water all day long

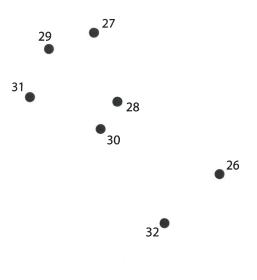
How many times do you use water every day? Write down every time you use water at home or at school in one day.

Brushing my teeth	
	(20)

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

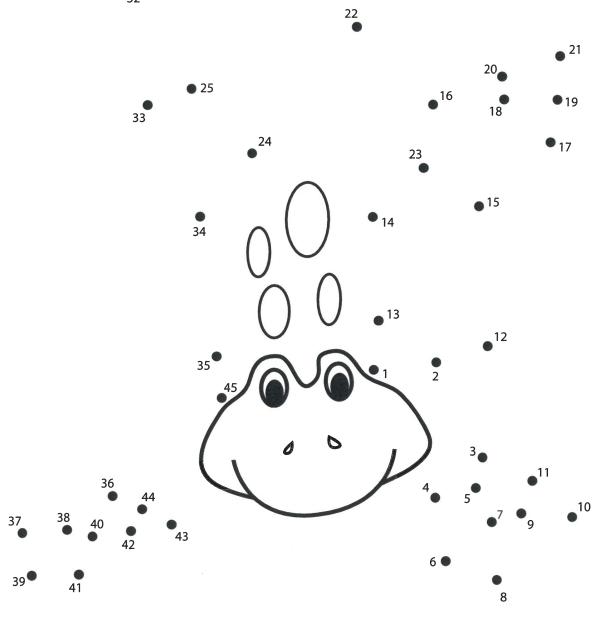






## **Clean water critters**

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.

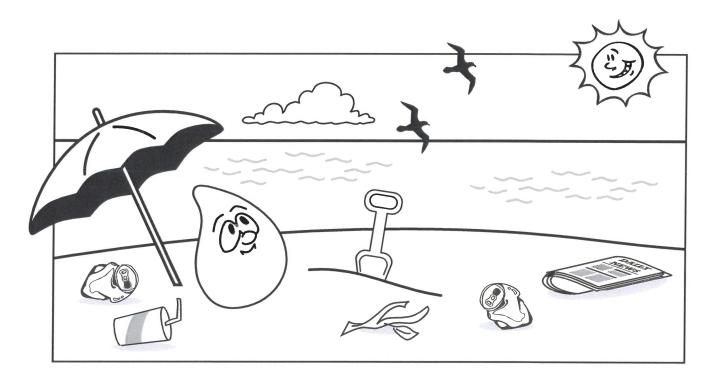


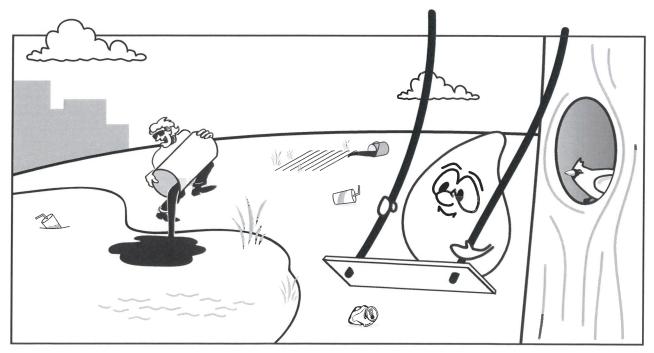


The Northeast Ohio Regional Sewer District studies fish to understand how healthy a stream is. We collected more than 47 different species of fish on the Cuyahoga River in 2007!

# What doesn't belong?

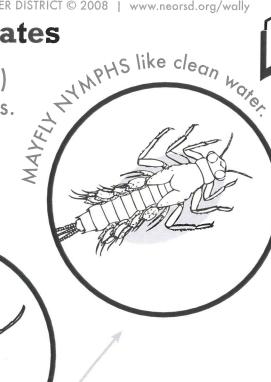
There are many places to have fun and enjoy clean water. Wally enjoys the beach and the park, but some people don't take care of the environment like they should. Look at the pictures below and circle what doesn't belong.



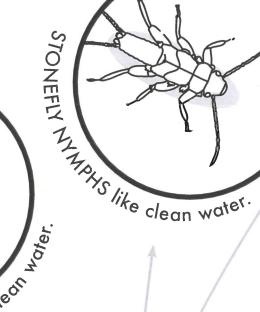


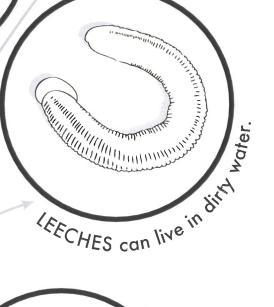
# **Bugging out! Macroinvertebrates**

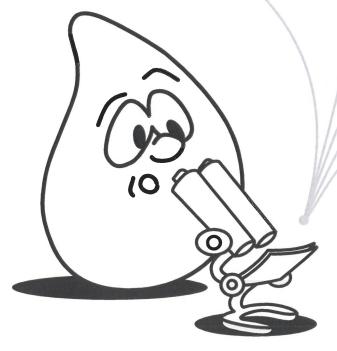
Macroinvertebrates (MAK-ro-in-VER-ta-brats) are tiny animals that don't have backbones. Some macroinvertebrates can live in dirty water, but others need to live in clean water. Color the macroinvertebrates that only like CLEAN water.









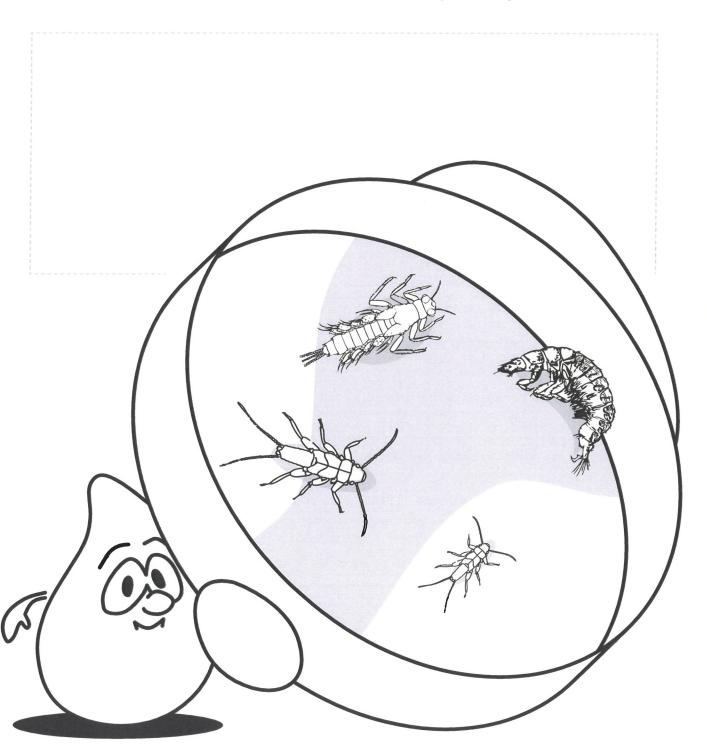






The Northeast Ohio Regional Sewer District collects macroinvertebrates at eight different locations along the Cuyahoga River!

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



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

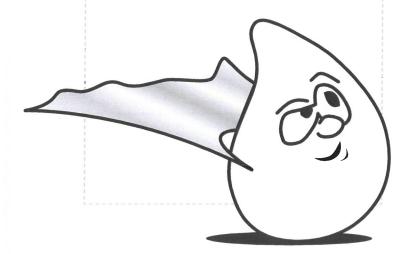
You don't have to be a superhero to protect clean water. There are things we all can do at home to stop pollution and keep our environment healthy. Think of new ways to help our environment, then add your ideas to Wally's lists.

## Wally's DO list

- I. 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 for more ideas!



With your parent's permission, visit 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?

# **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

PRESIDENT

JULIUS CIACCI

EXECUTIVE DIRECTOR. NORTHEAST OHIO REGIONAL SEWER DISTRICT





VISIT WALLY'S WORLD! www.neorsd.org/wally

Designed by the Northeast Ohio Regional Sewer District © 2008, Wally Waterdrop based on an illustration by Alfred Schrier. For additional copies, contact the Northeast Ohio Regional Sewer District Communications & Community Relations Department at (216) 881-6600.

