

# ***THE DEEP TUNNEL***

Data Centers #9 · A Channel 5 Kids Adventure  
with Lena Ashgrove and the Infrastructure Guard



# ***CREDITS***

The Deep Tunnel · Data Centers #9 · Kids edition (ages 6–9)

Story and production: GOTB Consulting, Chicago

Starring Lena Ashgrove, Undertow, Commons and Gridline

## ***AI-GENERATED ART, FICTIONAL CHARACTERS***

All characters, the town of Prairie Bend and Channel 5 are fictional. Any resemblance to real people is a coincidence. No real logos are shown.

Facts in this book were checked against public sources before printing.

Water safety: never go into storm drains, sewers or tunnels, and stay away from rushing water after a storm!

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# MEET YOUR GUIDES



**LENA  
ASHGROVE**

Channel 5 host. She asks the big questions.



**UNDERTOW**

Water hero. Knows every pipe.



**COMMONS**

Public works boss. Lantern up!



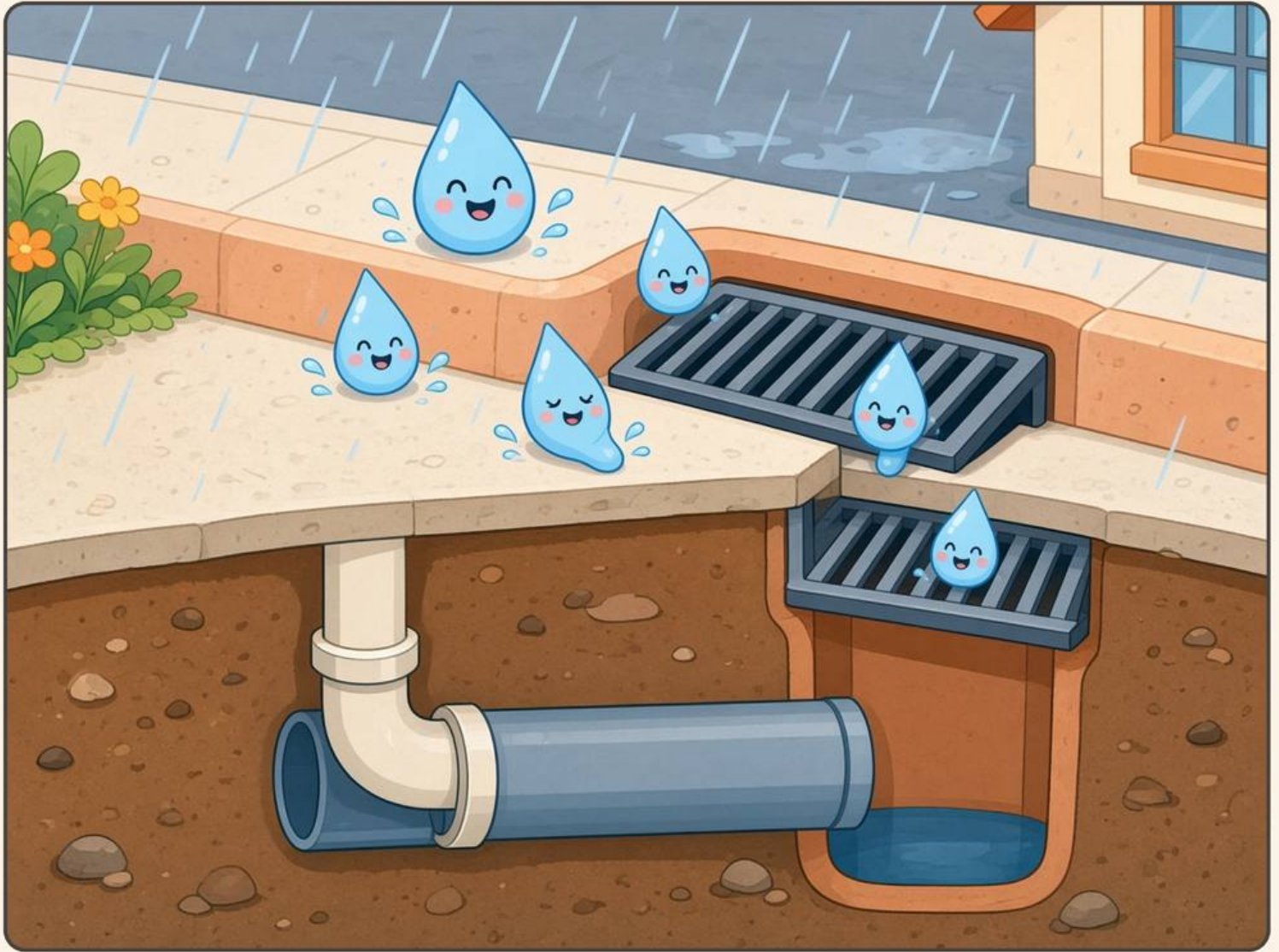
**GRIDLINE**

Keeps the power moving.



LENA

WHERE DOES RAIN GO AFTER IT SPLASHES  
DOWN THE DRAIN? LET'S FIND OUT!

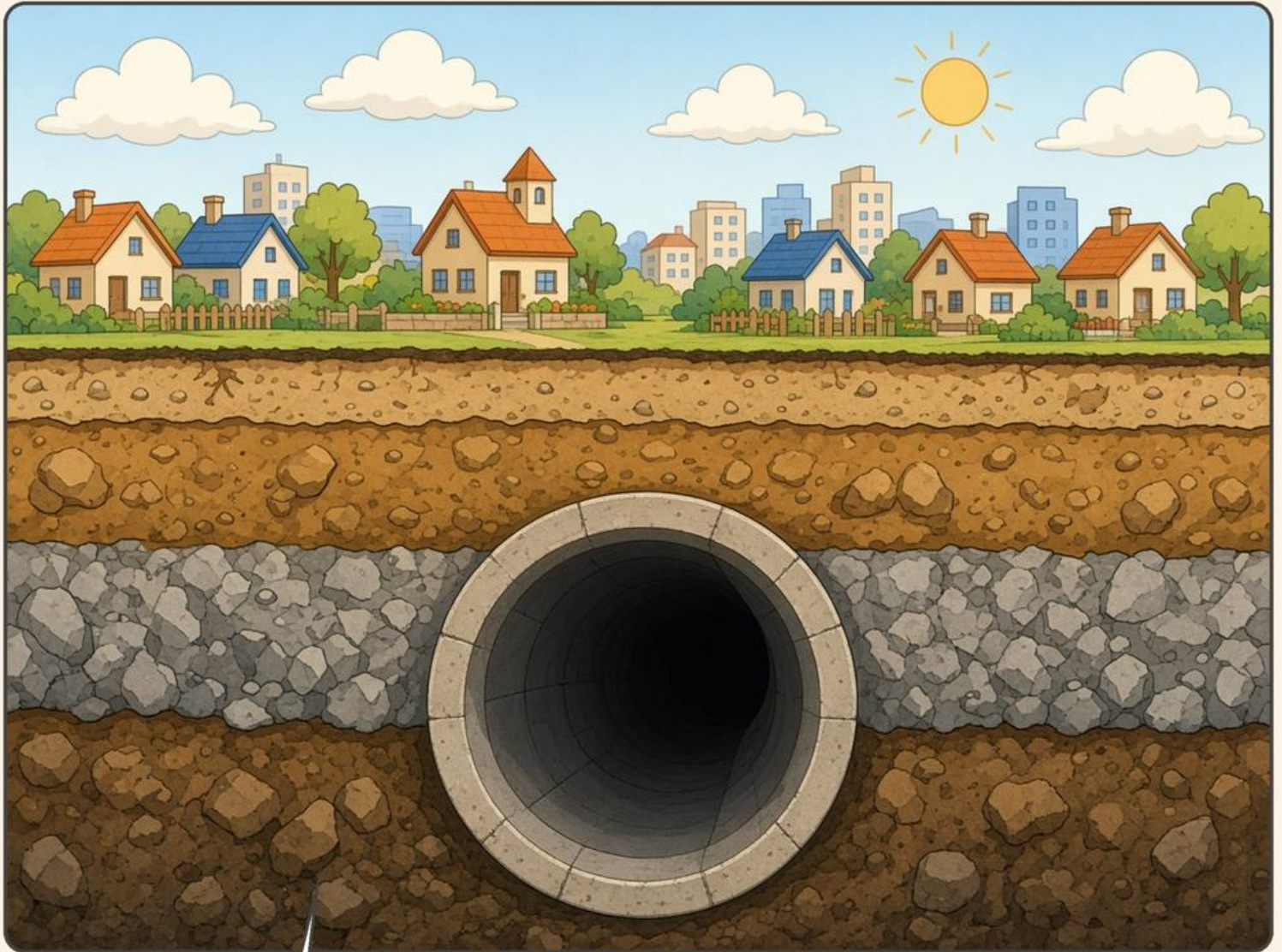


In most of Chicago, rain and used water from sinks share the same pipes.



**UNDERTOW**

WELCOME TO THE DEEP TUNNEL! WHEN IT  
RAINS HARD, EXTRA WATER COMES DOWN HERE  
TO WAIT.



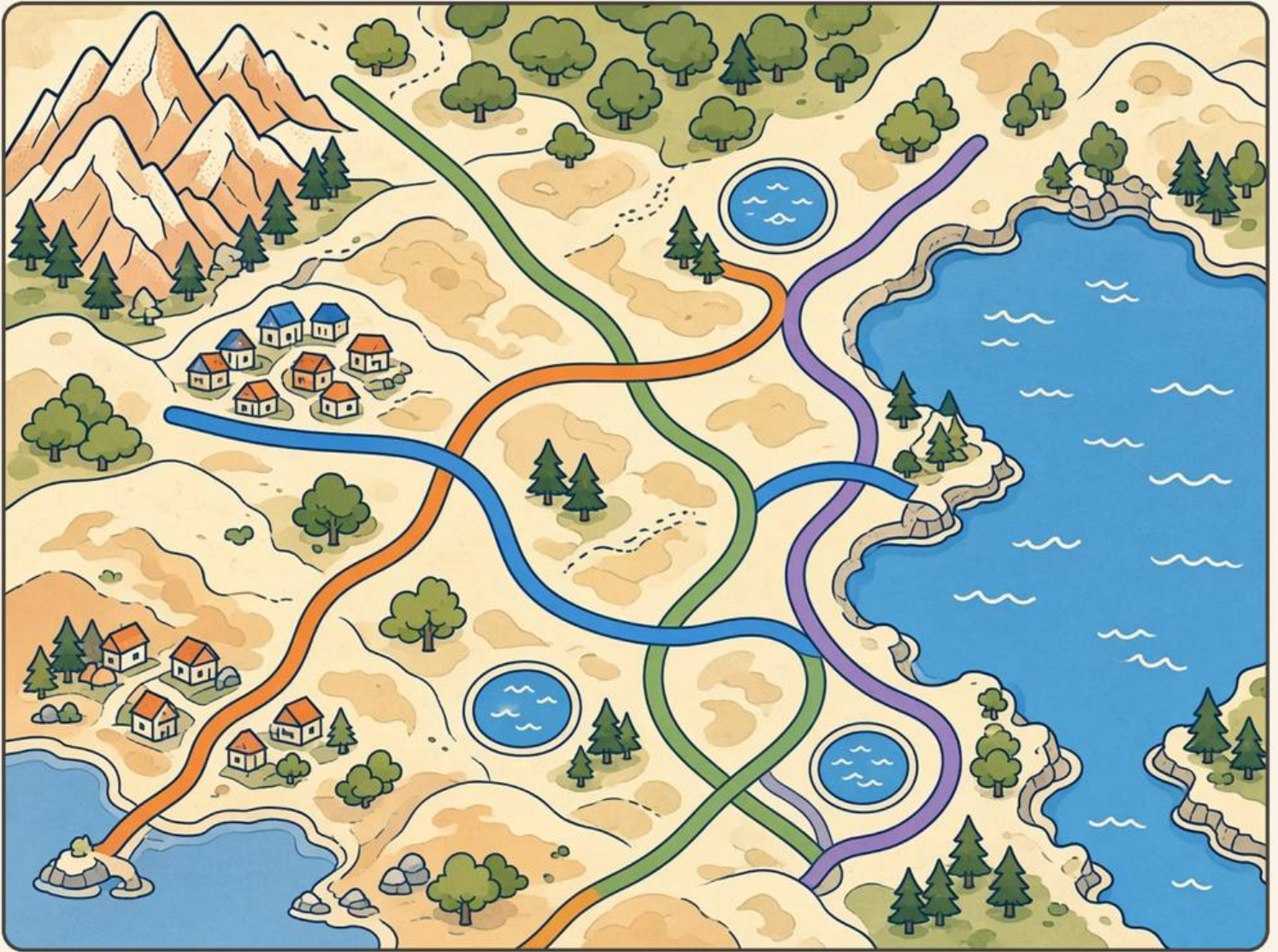
LENA

THE TUNNELS ARE 150 TO 300 FEET  
UNDERGROUND. WAY, WAY DOWN UNDER THE  
STREETS!



**UNDERTOW**

SOME TUNNELS ARE 33 FEET ACROSS. THAT'S  
GIGANTIC!



Four tunnel systems add up to 110 miles!



**COMMONS**

CREWS DUG GIANT STONE BOWLS TO HOLD  
WATER. WE CALL THEM RESERVOIRS!



LENA

VERIFIED

TODAY THE SYSTEM CAN HOLD MORE THAN 11  
BILLION GALLONS!

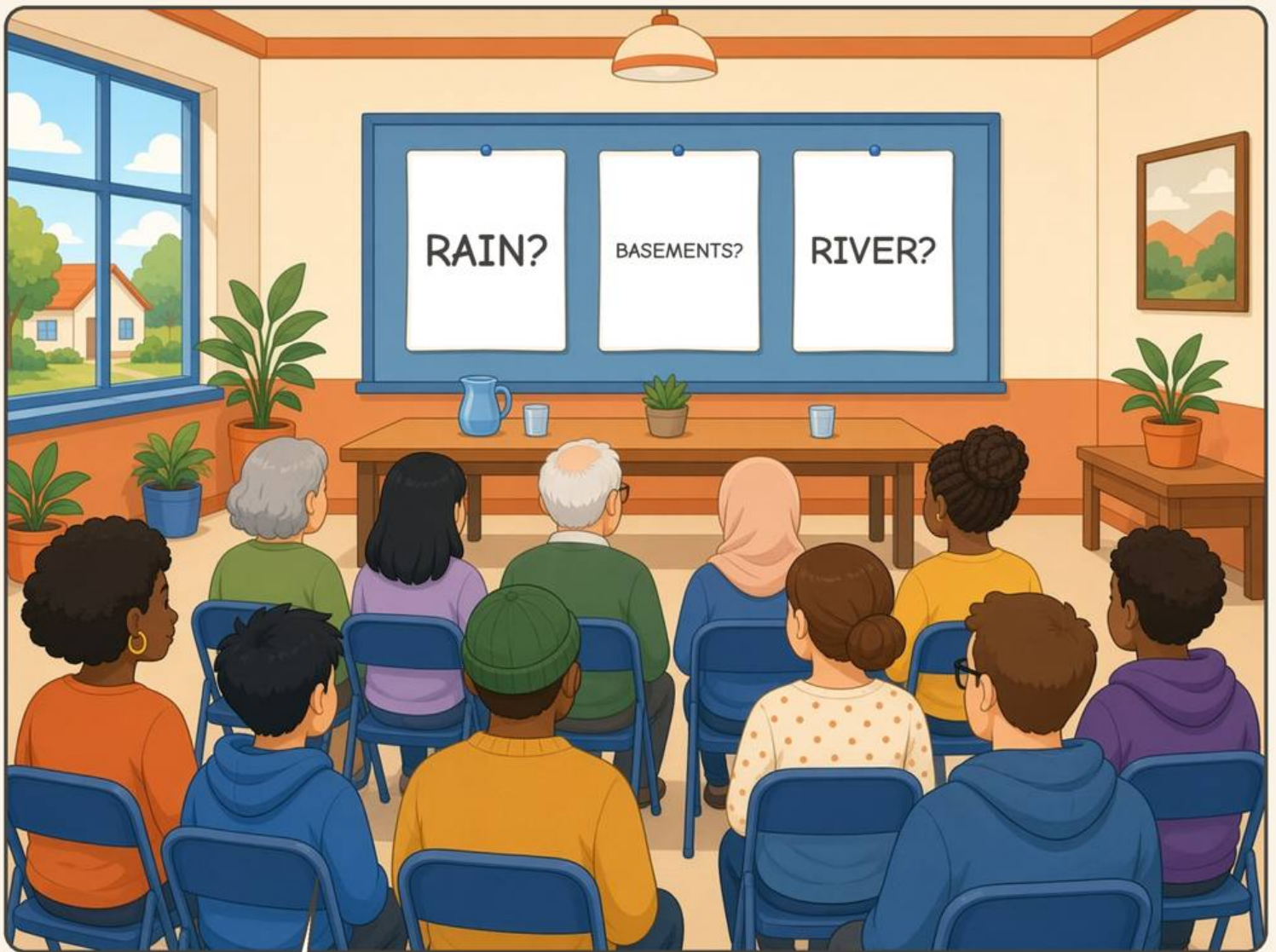


AFTER THE STORM, PUMPS SEND THE WATER TO  
BE CLEANED. PUMPS NEED POWER!



**UNDERTOW**

CLEANED WATER GOES BACK TO THE RIVER.  
THAT HELPS PROTECT OUR LAKE.



LENA

IN REALLY BIG STORMS, THE TUNNEL CAN FILL UP. NEIGHBORS PLAN TOGETHER FOR RAINY DAYS.



LENA

NEXT TIME IT RAINS, SAY THANKS TO THE  
DEEP TUNNEL! BYE FROM CHANNEL 5!

Made with GOTB Consulting, who help plan the power, water and public works behind places like this.

# WORDS TO KNOW

## **STORM DRAIN**

A grate in the street where rain goes in.

## **SEWER**

A pipe under the street that carries water away.

## **USED WATER**

Water from sinks, tubs and toilets.

## **TUNNEL**

A long round pipe deep underground.

## **RESERVOIR**

A giant bowl that holds water.

## **PUMP**

A machine that pushes water uphill.

## **CLEAN-WATER PLANT**

Where used water gets cleaned.

## **GALLON**

A big jug of water.

# WHERE THE RAIN GOES

Trace the path with your finger, from start to finish.

## **RAIN**

Drip, drop, splash!



## **DRAIN**

Into the street drain.



## **PIPE**

Through pipes under the street.



## **TUNNEL**

Down to the Deep Tunnel to wait.



## **PUMP**

Pumps send it to be cleaned.



## **RIVER**

Clean water goes back to the river.

# WORD SEARCH

Find these words. They go across, down, or slanted.

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

**RAIN**

**DRAIN**

**PIPE**

**TUNNEL**

**PUMP**

**RIVER**

**LAKE**

**STORM**

**WATER**

**LANTERN**

# QUICK QUIZ

Circle the best answer!

1. How deep are the tunnels?

150 to 300 feet

2 feet

2. How wide can a tunnel be?

33 feet

33 inches

3. How many miles of tunnels?

110 miles

1 mile

4. What sends water to be cleaned?

Pumps

Ducks

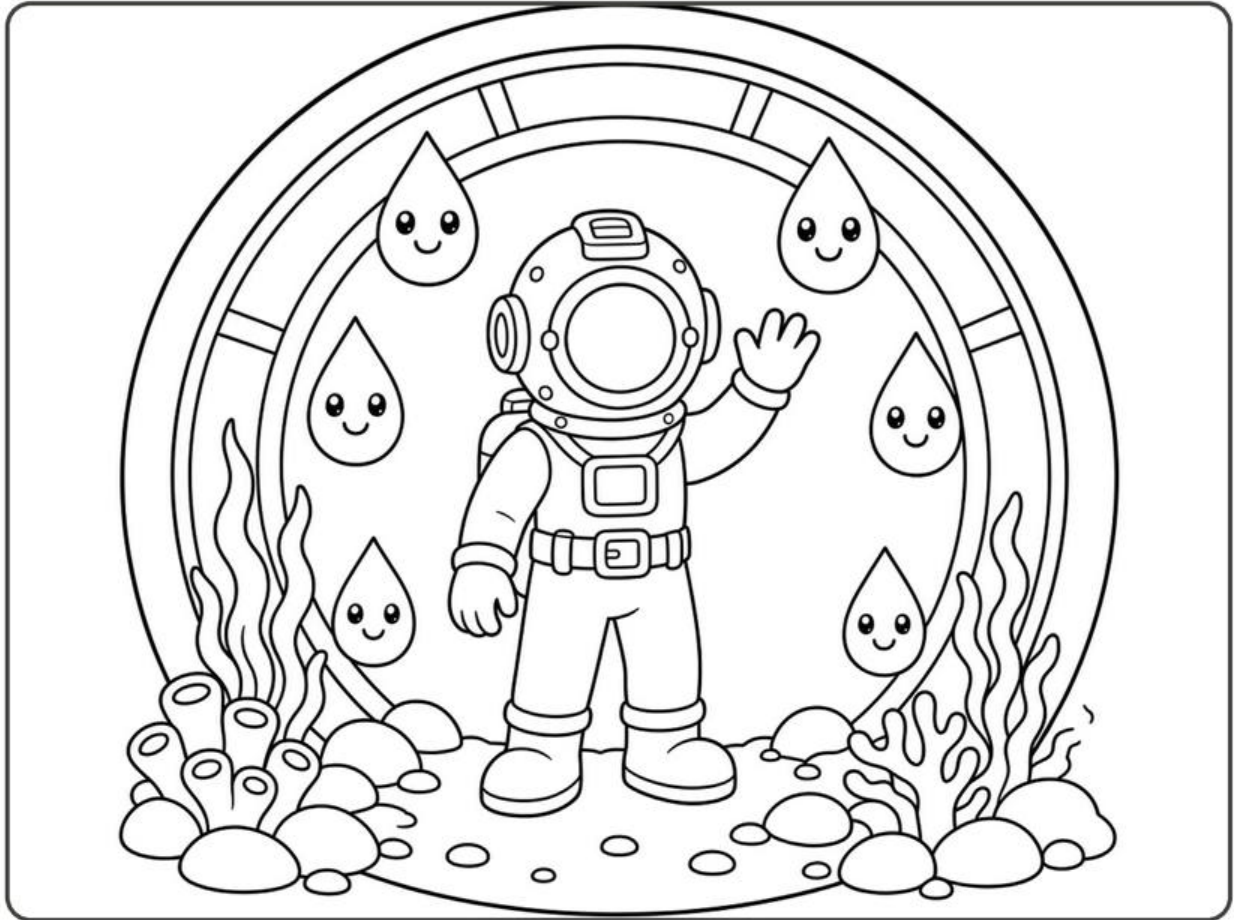
5. Where does cleaned water go?

Back to the river

Into the sky

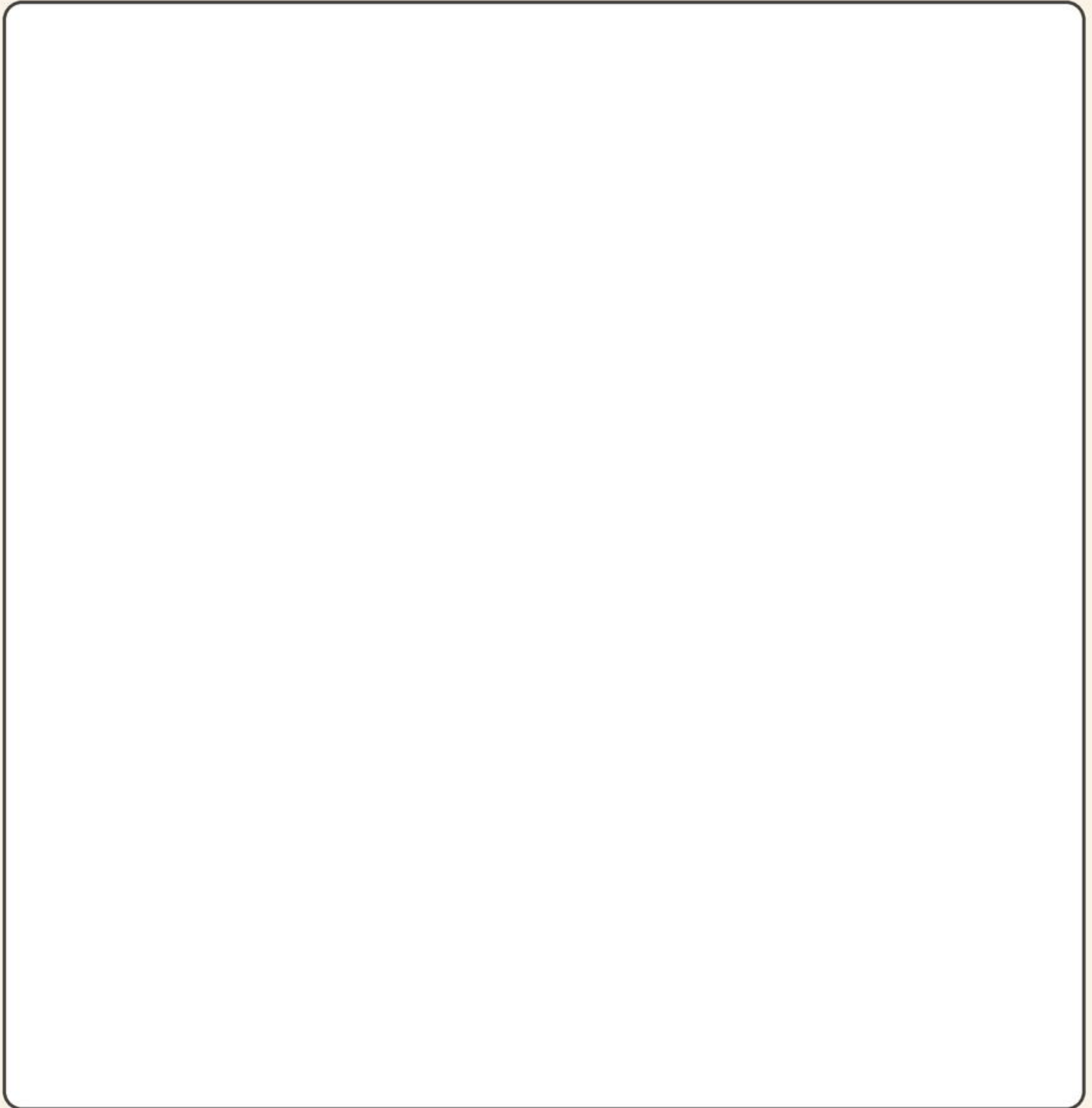
Answers: 1 150 to 300 feet · 2 33 feet · 3 110 miles · 4 pumps · 5 back to the river

# ***COLOR THE DEEP TUNNEL***



# ***DESIGN A RAIN GARDEN***

Draw plants and flowers that could soak up rain!



My rain garden has: \_\_\_\_\_

# LET'S TALK ABOUT IT

Questions to share with a grown-up

WHERE DO YOU THINK THE RAIN GOES AFTER  
A STORM?

WHY SHOULD YOU NEVER PLAY NEAR STORM  
DRAINS?

HOW COULD YOUR SCHOOL SOAK UP MORE  
RAIN?

WHAT WOULD YOU ASK UNDERTOW ABOUT THE  
TUNNELS?

# ***ABOUT GOTB CONSULTING***

GOTB Consulting is a Chicago team that helps plan the big systems towns depend on.

We work on four things you saw in this book:

## ***DATA CENTERS***

Where the cloud lives

## ***POWER***

Electricity for homes and buildings

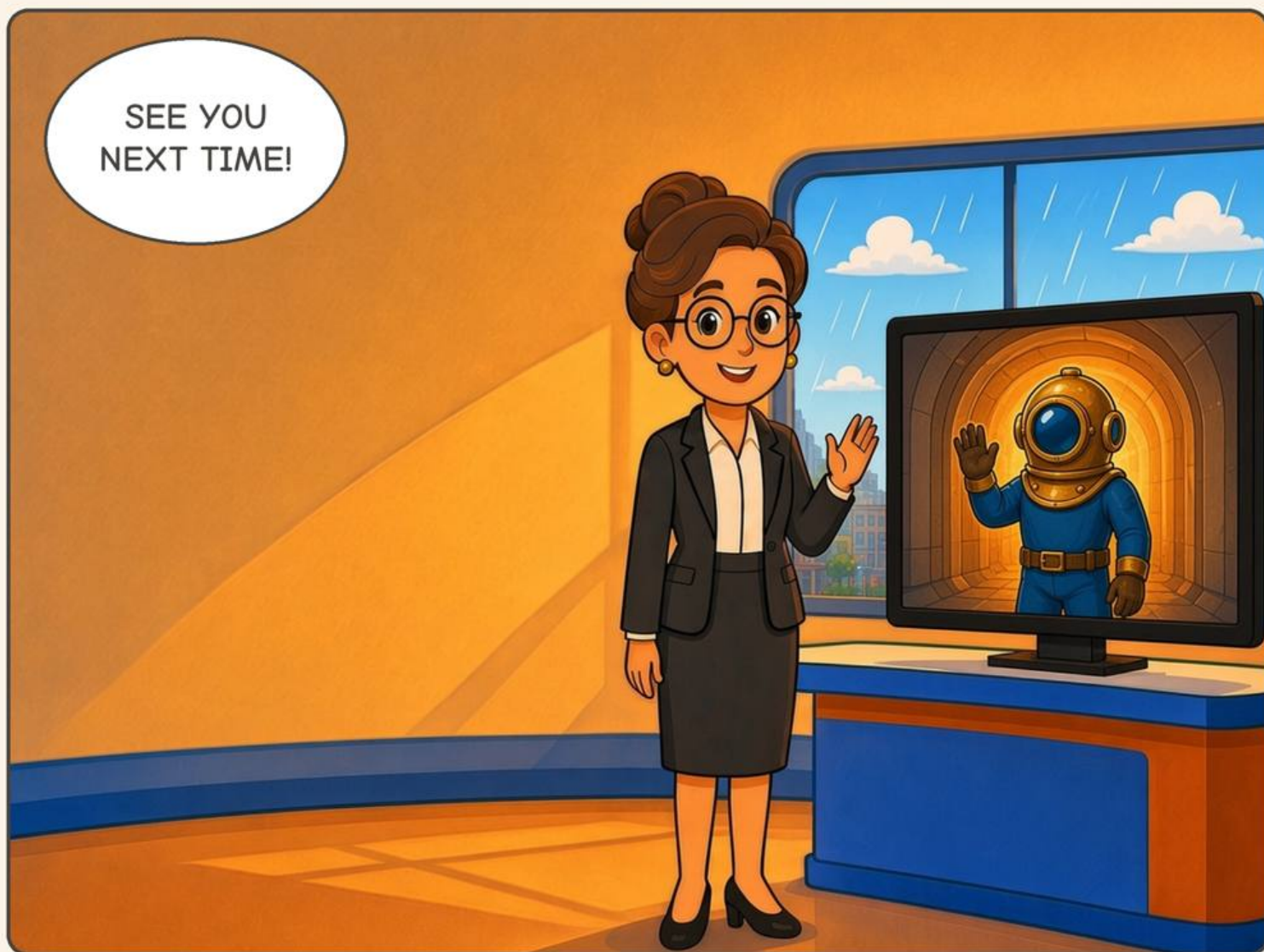
## ***WATER***

Clean water and smart cooling

## ***PUBLIC WORKS***

Roads, pipes and places for people

# ***THE END!***



## ***THANKS FOR GOING DEEP WITH US!***

Next time: more adventures with the Infrastructure Guard!

***GOTB CONSULTING • CHICAGO***

Data centers • Power • Water • Public works

AI-generated art, fictional characters