



THE ADVENTURES OF

AQUA DUCK



#4 FREE

THE
RETURN OF
SLUDGE!





AQUA DUCK



SPOKANE AQUIFER JOINT BOARD
WWW.SPOKANEAQUIFER.ORG



www.ksps.org
1-800-735-2377



WASHINGTON STATE
DEPARTMENT OF
ECOLOGY
www.ecy.wa.gov

Protect Our Aquifer

and Take One of Our Virtual Field Trips at

www.spokaneaquifer.org

FACTS ABOUT WATER

- It takes 7 to 10 years for a drop of water to travel from Lake Pend Oreille through the aquifer to the Spokane River on the west side of Spokane.
- The aquifer is continuously recharged by the Spokane River, several area lakes, and rainfall over the aquifer. The aquifer discharges into the Spokane and Little Spokane Rivers, and is pumped to the surface for human use.
- The Spokane Valley Rathdrum Prairie Aquifer acts as temporary storage for water as it travels through the water cycle. The aquifer holds about 10 trillion gallons of water.
- The hydrologic cycle continues to move water and keep sources fresh. It is estimated that 100 million billion gallons a year are cycled through this process.

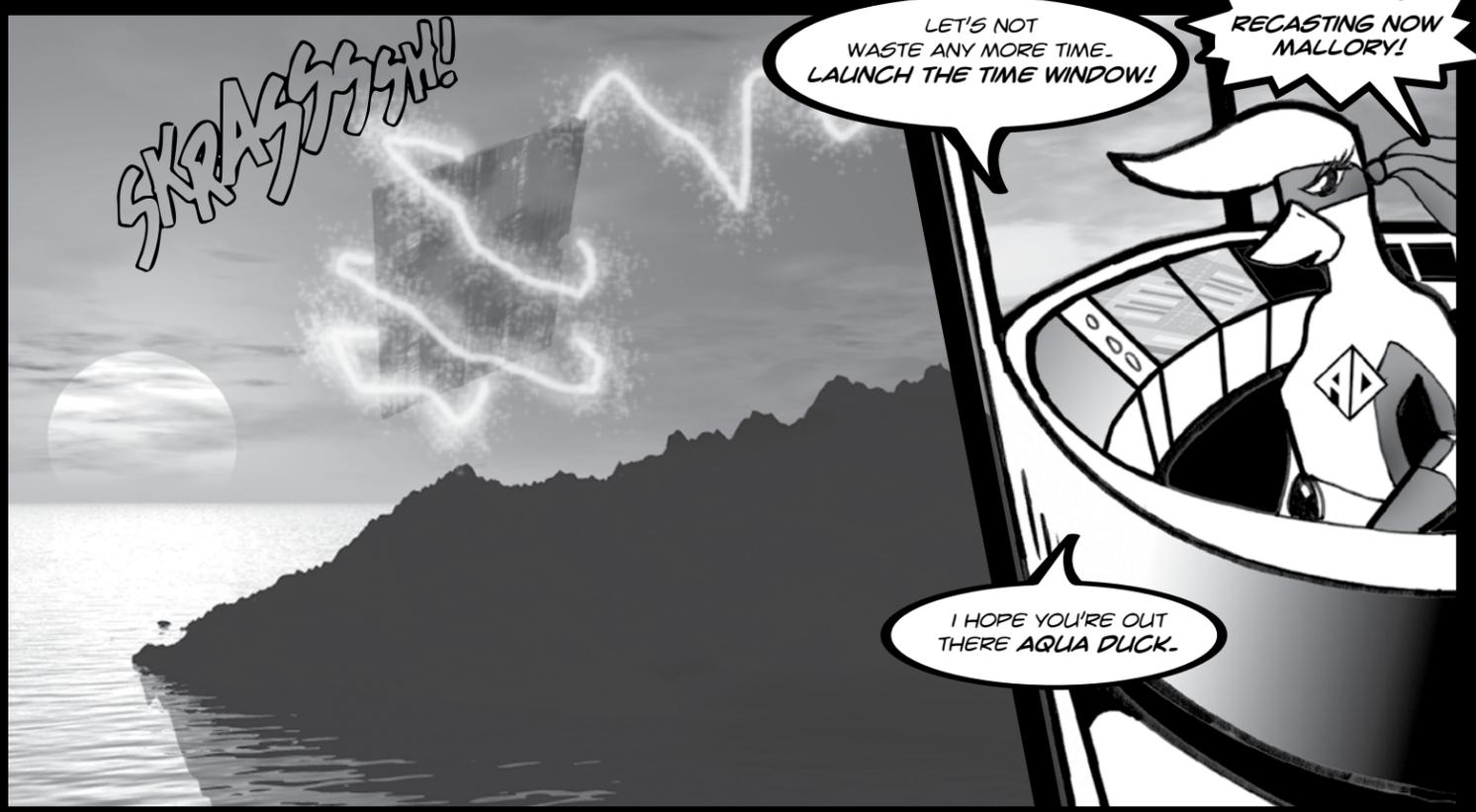
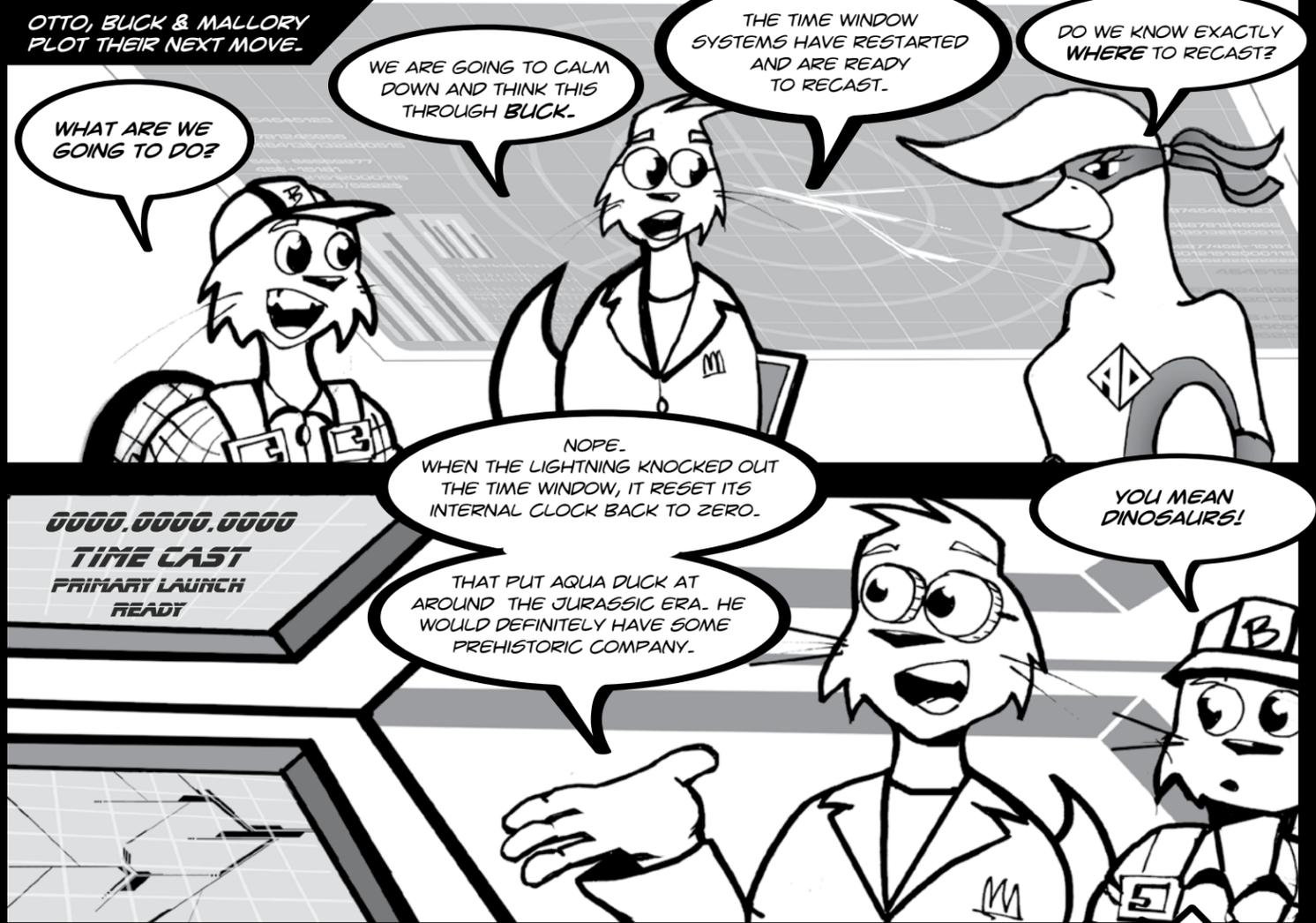
- Earth is the only planet in our solar system with extensive liquid water other planets are too hot or too cold, too big or too small.
- The driving force for the hydrologic cycle is the sun, which provides the energy needed for evaporation just as the flame of a gas stove provides the energy necessary to boil water and create steam.
- Earth's water is always in movement, and the water cycle, also known as the hydrologic cycle, describes the continuous movement of water on, above, and below the surface of the Earth.
- Water is constantly being recycled in the hydrologic cycle, so you could be drinking the same water which a dinosaur once drank.
- Water is the only substance naturally found on earth in three states, as a solid (ice), a liquid (water), and a gas (water vapor.)

STORY AND ART BY
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WE NOW RETURN TO OUR HERO
STRANDED IN THE JURASSIC ERA.







LUNCH IS CANCELLED!



A TIME WINDOW!

SNAP!



THAT WORKED.

POOMP!



AAAHHHH!!!

BZZZZ!

I'LL GET THAT.

AQUA DUCK QUICKLY SHUTS DOWN THE TIME WINDOW.



SO, DID YOU GUYS MISS ME?



I'LL LET YOU KNOW WHEN WE'VE CAUGHT OUR BREATH.

THE TEAM GATHERS AROUND TO ANALYZE THE FUTURE DATA.

THIS DATA CAN ONLY PROVIDE CLUES TO POINT US IN THE RIGHT DIRECTION, OR ELSE WE'D UPSET THE CHAIN OF FUTURE EVENTS.

WE JUST NEED TO FIGURE OUT THESE CLUES AS A TEAM.

THERE MUST BE HUNDREDS OF THESE CLUES.

THAT MAKES SENSE ACTUALLY.

MAYBE TO YOU IT DOES.

LET'S TRY THIS ONE. HYDRO + MOTOR = RE-CYCLE.

DOES THAT MEAN MOTORCYCLES WILL RUN ON WATER?

NOT SURE, THAT'S NOT A BAD IDEA THOUGH.

OTTO WHAT DO YOU THINK?

SINCE THE WORD RE-CYCLE IS HYPHENATED IT IMPLIES AN ALTERNATE MEANING. ALSO, THE WORD MOTOR CAN APPLY TO MUCH MORE THAN TRANSPORTATION.

YOU GUYS KEEP BRAINSTORMING AND WE'LL CONTINUE THIS WHEN I GET BACK. I'M LATE FOR MY LECTURE.

THIS MAKES MY BRAIN HURT.

AQUA DUCK ARRIVES AT THE UNIVERSITY JUST IN TIME.

SO CLASS LET'S REVIEW WHAT YOU'VE LEARNED TODAY ABOUT THE SEVEN STAGES IN THE HYDROLOGIC CYCLE.

#1 CONDENSATION: WATER VAPOR (GAS) CHANGES BACK TO WATER DROPLETS (LIQUID).

#2 SUBLIMATION: ICE AND SNOW (SOLID) CHANGE INTO VAPOR (GAS) WITHOUT BECOMING LIQUID FIRST.

#3 TRANSPORTATION: THE MOVEMENT OF SOLID, LIQUID OR GASEOUS WATER THROUGH THE ATMOSPHERE.

#4 PRECIPITATION: WATER THAT FALLS TO EARTH SUCH AS RAIN, SNOW OR HAIL.

#5 TRANSPIRATION: THE EVAPORATION OF LIQUID WATER FROM PLANTS INTO THE ATMOSPHERE.

#6 EVAPORATION: THE CHANGE OF STATE OF WATER (LIQUID) TO A VAPOR (GAS).

THAT CONCLUDES OUR LECTURE ON THE HYDROLOGIC CYCLE. THERE WILL BE A QUIZ SO I HOPE YOU'VE ALL TAKEN NOTES.

WATER CYCLE LECTURE

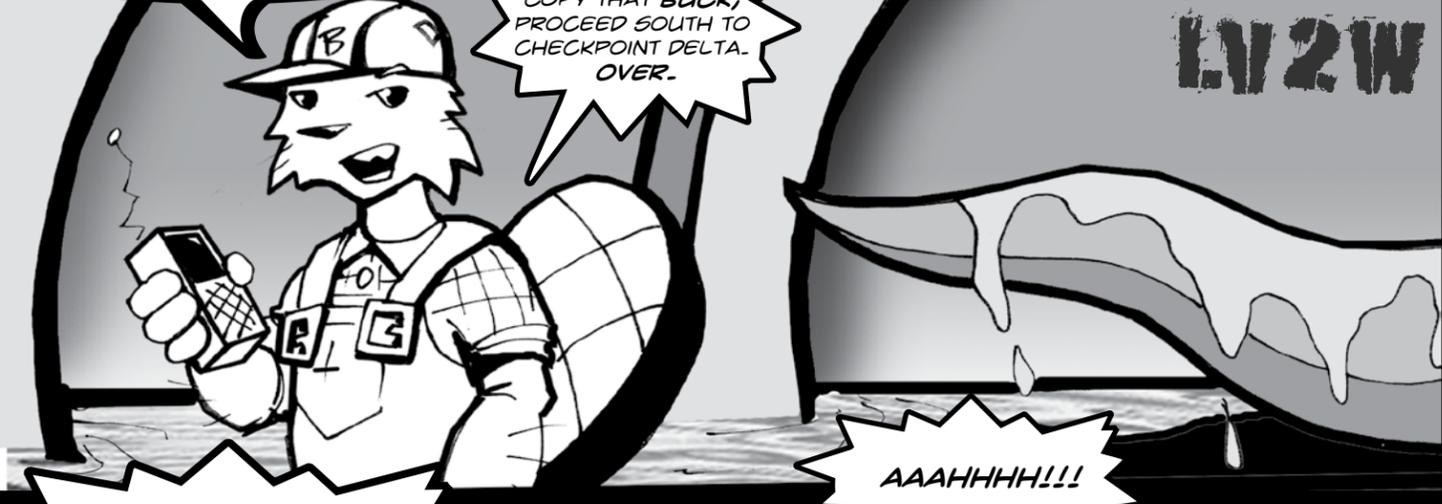
#7 INFILTRATION: THE MOVEMENT OF WATER INTO THE GROUND FROM THE SURFACE. THAT'S HOW WATER GETS INTO THE AQUIFER.

THAT'S IT! THE CYCLE IN THE RIDDLE ISN'T A MOTOR CYCLE BUT A MOTOR THAT RECYCLES LIKE THE WATER CYCLE. BUT HOW?

LATER THAT DAY,
BENEATH THE CITY...

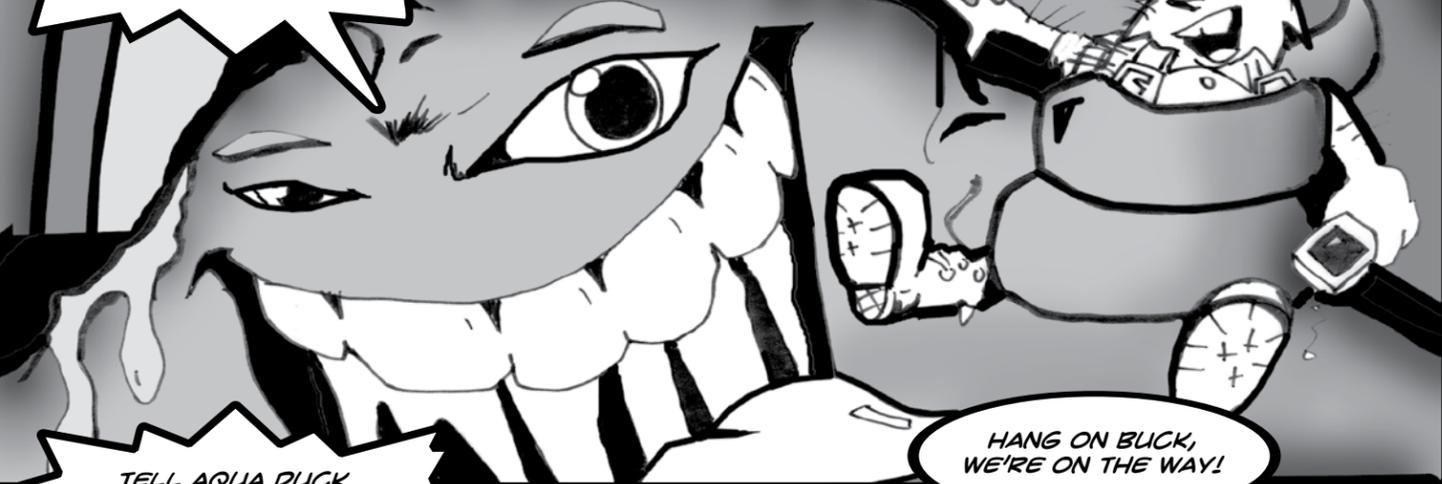
MALLORY,
I'VE JUST FINISHED MY ROUNDS ON
THE WEST SIDE, ALL CLEAR.
PROCEEDING SOUTH. OVER.

COPY THAT BUCK,
PROCEED SOUTH TO
CHECKPOINT DELTA.
OVER.



AAAHHHH!!!

WELL WELL IF IT ISN'T
ONE OF AQUA DUCK'S
LITTLE FRIENDS. I'VE GOT A
MESSAGE FOR YOU.



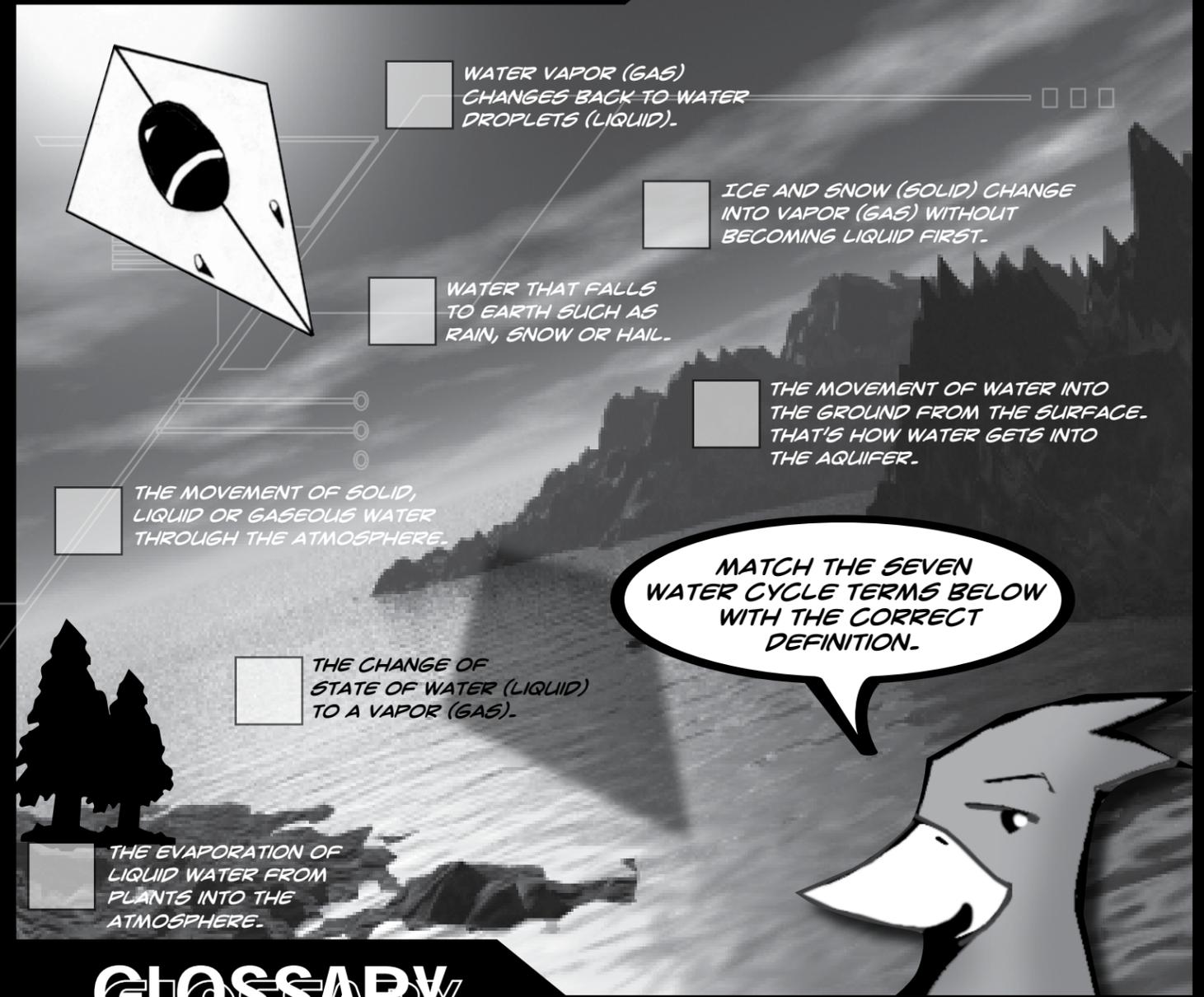
TELL AQUA DUCK
THAT SLUDGE IS BACK
AND HE WILL HAVE
HIS REVENGE!!

HANG ON BUCK,
WE'RE ON THE WAY!



TO BE CONTINUED.

HYDROLOGIC CYCLE



WATER VAPOR (GAS)
CHANGES BACK TO WATER
DROPLETS (LIQUID).

ICE AND SNOW (SOLID)
CHANGE INTO VAPOR (GAS) WITHOUT
BECOMING LIQUID FIRST.

WATER THAT FALLS
TO EARTH SUCH AS
RAIN, SNOW OR HAIL.

THE MOVEMENT OF WATER INTO
THE GROUND FROM THE SURFACE.
THAT'S HOW WATER GETS INTO
THE AQUIFER.

THE MOVEMENT OF SOLID,
LIQUID OR GASEOUS WATER
THROUGH THE ATMOSPHERE.

THE CHANGE OF
STATE OF WATER (LIQUID)
TO A VAPOR (GAS).

THE EVAPORATION OF
LIQUID WATER FROM
PLANTS INTO THE
ATMOSPHERE.

MATCH THE SEVEN
WATER CYCLE TERMS BELOW
WITH THE CORRECT
DEFINITION.

GLOSSARY

- #1 Condensation
- #2 Sublimation
- #3 Transportation
- #4 Precipitation
- #5 Transpiration
- #6 Evaporation
- #7 Infiltration



DON'T WASTE OUR WATER...



SPIRIT LAKE

RATHDRUM

HAYDEN LAKE

SPOKANE VALLEY

MILLWOOD

POST FALLS

COEUR D'AIENE

LIBERTY LAKE

SPOKANE

PROTECT OUR
AQUIFER AND TAKE
ONE OF OUR VIRTUAL
FIELD TRIPS AT

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It's BENEATH YOU.