Salmon is tired but continues its journey up to its home stream. Fry finds a fallen tree in the stream to hide under for shelter, and finds delicious macro-invertebrates to eat. Salmon alevin hatches from egg within the redd nestled in the stream gravel. Alevin hangs out in the gravel and feeds on its yolk sack, and emerges as fry. To move up stream and win the game, name 4 of the 7 fish species that are endangered in Washington state. Hint: several are salmon. Salmon fry swims over a redd that was squashed by mountain bikers. To roll again, correctly name two other ways a redd can be damaged. Salmon spawns and dies, and the eggs are safe in the gravel redd waiting for spring. Salmon is close to home to spawn and start the next generation. To roll again, name two things important during spawning.
Fry passes timber harvest site. Landowner has followed forest practices and left 100 feet of riparian (streamside) buffer, so the water is cool and protected.

ADVANCE ONE SPACE.

To ROLL AGAIN, name one common native riparian tree.

Fry can't breathe with silt in its gills. A land owner has cut timber but didn't follow forest practices riparian buffer rules, so silt washed into the stream. LOSE 1 TURN.

Shredder eats tree leaves and needles that fall into the stream. In turn, fry eats shredders. EAGLE STRIKE! It picked up the salmon but dropped it. Eagles, heron, kingfishers, and bears are some natural predators that salmon must avoid. MOVE BACK 1 SPACE.

Salmon's eyes are smarting from pesticides and insecticides that have seeped from careless landowners' yards into the stream. LOSE 1 TURN.

The stream is getting wider, and slower...it's a lake. Where can the fry hide? TO ROLL AGAIN, give two correct answers.

ONTO A FISH TRUCK. Some other fish couldn't find the fish ladder and had to be carried on a truck up to the reservoir. BACK 4 SPACES.

TREES TO SEAS: Journey of the wild salmon
Salmon is tired but is driven by instinct to continue its journey to spawn.

People have dumped non-native aquarium plants now clogging the waterway; salmon can hardly get through. To SKIP 1 SPACE, name non-native water weed.

RESTORATION! Fry swims safely under roadway, since the city has replaced an old culvert with a bridge. TAKE 1 MORE TURN.

Local environmental group helps farmer and salmon by donating and planting trees and shrubs in riparian area of river along the farm. ADVANCE 1 SPACE.

GASP! No trees shade the river through a field, so sun warms water and water loses oxygen. Fry needs more air. LOSE 1 TURN.

Water tastes awful and smells! Fry dodges hooves of a pig as it drinks in the river below the dam. TO ROLL AGAIN, name 3 domestic animals.

Public park has trees and bushes to shade river; with logs and woody debris for fry to hide under and tasty bugs to eat. Fry eats well and grows.

Salmon is getting sick on soap suds, oil and antifreeze, washed off driveways and city streets, polluting the river. LOSE 1 TURN.

SEAL STRIKE. Harbor seal chases the salmon but it darts into estuary shallows. ROLL AGAIN.

Salmon reaches Arbor Month project area where students and city planners plant native trees along city estuary, to filter runoff water. ADVANCE 1 SPACE.

NOTE: For "Trees to seas: Journey of the wild salmon" game board instructions and educational reference materials download the instructions.
Salmon is almost poisoned by water run-off from streets as non-point source pollution enters estuary, filthy with toxic fluids, oils and other poisons. WAIT 1 TURN.

From the Pacific Ocean the salmon returns to the same estuary, where it osmoregulates to adapt once again to fresh water.

Our lucky mature salmon gets past humans that catch both weak and strong fish in nets in the ocean and rivers. ADVANCE 1 SPACE.

While salmon mature in the ocean, some become food for whales, sea lions, seals, or fish. But many strong salmon live for years at sea.

The lake is a reservoir behind a dam that generates electricity, but the fry avoided turbines and found the fish ladder. MOVE AHEAD 1 SPACE.

LOOKOUT! Dam blocks the river, but salmon swims through turbulent waters to find the fish ladder to leap up to the reservoir.

Salmon travels swiftly. County bought neighborhood which used to flood and created a park, with paths, picnic areas and riparian habitat.

Salmon is tired but is driven by instinct to continue its journey to spawn.

OH NO! A blue heron narrowly misses eating the fry. MOVE BACK 2 SPACES.

Fry dodges a duck, and has hidden itself in grasses and reeds along the shore. ADVANCE 2 SPACES.

The stream is getting wider, and slower. Fry can see the dam. TO ROLL AGAIN, name 3 domestic animals that can pollute streams.

Happy Birthday! This salmon fry has grown into a smolt now in the estuary before going out to the ocean.

Fry reaches the estuary where saltwater mixes with river water as tide comes in. WAIT 2 TURNS while fry feeds and osmoregulates — gills and kidneys adapt to saltwater. Fry reaches the same estuary. HAPPY BIRTHDAY!

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