

HE PUNA WAI

Let's learn about
stormwater!

Introducing Stormwater



*He taura whiri kotahi mai anō
te kopunga tae noa ki te pu au.*

From the source, to the
mouth of the sea, all things
are joined together as one.



Nga kupu

Wai ua: rain.

Wai kino: polluted water or unsafe water.

Wai āwhā: stormwater.

Wai māori: fresh water.

Wai ora: pure water.

Wai tai: salt or sea water.

Can you think of some examples of these waters?



What is stormwater?

Stormwater is rainwater that does not soak into the ground it flows across hard surfaces.

It channels down outside drains, gutters, pipes and then enters rivers or streams.



More stormwater today

In natural landscapes water can easily soak into the ground, or it would naturally flow into the rivers and streams.

With more buildings, roads and concrete surfaces (which water cant soak into) there is more stormwater.

All this water needs to drain away from roads and buildings so they don't flood.



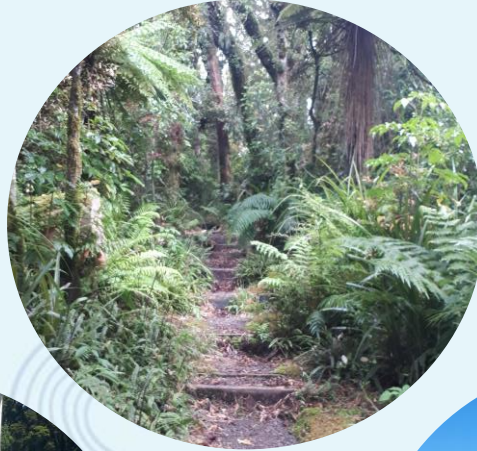
Stormwater drains

Stormwater drains prevent flooding by collecting the water from the hard surfaces like roads or concrete and direct it to streams or rivers.

What do the stormwater drains look like at your school?
Where are they?



Quiz time! Where does the rain go in these pictures?



Into the ground



Into a stormwater drain



What is stormwater pollution?

This is when items other than water go down the drain.



Litter



Bugs from animal wastes



Nutrients

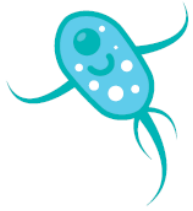


Heavy metals



Sediment

Why is it a problem?



Bugs from animal wastes

If there are bugs in the water they could make you sick when you swim.



Heavy metals

Tiny particles of metal can be eaten by shellfish and make us sick.



Nutrients

Nutrients can cause algae growth in streams which will use up all the oxygen in the water.



Litter

Birds and other wildlife may eat plastic mistaking it for food or get tangled in it.



Sediment

Too much dirt, mud and sand can fill up the spaces in between rocks this is the hiding spaces for fish.

What can you see in this picture?



Rubbish and leaves



Lots of rubbish

Cans

Coffee cup

Plastic

Rags

Leaves and sticks

Marked drains

Some stormwater drains have messages to tell people where water goes.



You can help keep stormwater clean

Wash cars on grass or in the carwash.

Dispose of paints thoughtfully- i.e let dry then put into the bin.

Remind people where stormwater goes.

Pick up any rubbish you find (as long as it is safe to do so).

What else could you do?



Thanks for learning
about stormwater

HE
PUNA
WAI

