

## Stormwater monitoring – medium rain



### **Trash racks**

Structures that allow water to pass through but capture waste, like litter and debris.

### **Discharge to Moreton Bay**

Once the water has passed through the final trash rack that removes the waste materials, the clean water is discharged into Moreton Bay. Moreton Bay is home to hundreds of types of plants and animals.

### **Lake**

The lake provides a habitat for birds, fish and plants. It is also an area where water collects (especially stormwater) and any heavy sediments settle to the bottom, leaving clean water at the top to be discharged into Moreton Bay.

### **Island**

The island in the middle of the lake was created for birds to live on.

### **Run-off**

This includes rainfall that has not been absorbed by soil or plants. The run-off that flows across the ground collects sediment, causing the water to become 'dirty'.

### **Open grass drains**

These capture run-off and filter sediments from the water before it enters the lake or Moreton Bay.

### **Dirt (sediment)**

In the lake, dirt (sediment) settles to the bottom allowing the clean water to exit into the overflow pipes and into the concrete drain.

**Overflow pipes**

Once the level of water in the lake reaches a certain height, it begins to flow into overflow pipes. This clean water from the top of the lake is carried through the pipes, into the concrete drain and through the trash rack.

**Plants**

The plants surrounding the lake take up nutrients (food) from the water, and this increases the quality of the water in the lake.

**Grass**

Grass in the open grass drains helps filter out the 'dirty' water and sediments.

**Rain**

Rain is water condensed from the atmosphere and falls to the earth in droplets.

**Groundwater**

Groundwater is all the water that exists beneath the ground.

**Birds**

Birds nest on the island and around the lake. They include shorebirds, some of which fly all the way from Asia.

**Fish**

Fish in the lake feed on the organisms and nutrients in the water, and this helps improve the water quality in the lake.