

COASTAL MONITORING PROGRAM

WHAT IS THE COASTAL MONITORING PROGRAM?

Since 2014, we have been monitoring the **seasonal and long-term changes of our coastline** to better understand how we can manage and protect our coastal assets and environment into the future.

We often see an increase in beach width across the summer period and a reduction in beach width across the winter period.

WHAT DO WE MONITOR?



49 beach monitoring sites where manual photographs are taken twice a year



5 remote monitoring cameras that capture photos of the beach every hour



Coastal surveys of the City's coastline twice a year



Aerial imagery of the City's coastline



Wave and water level data

Did you know?

There were **4 notable storms** from April 2022 to April 2023 that resulted in significant erosion, temporary loss of beach access and damage to coastal infrastructure.

We undertook **reactive maintenance** works at **7 locations** along the coastline.

WHAT DID WE FIND THIS YEAR?

While changes to the coastline are mostly seasonal, in recent years we have lost more sand to erosion in winter than we have gained back in summer.

This year, there was major erosion observed at **Clayton's Beach** in **Mindarie**, **Quinns Beach** and the beach north of **Yanchep Lagoon**.

HOW DID WE HELP?

In September 2022, we reactively placed beach renourishment at **Yanchep Lagoon** in response to erosion caused by winter storms to ensure **safer beach access** and usability.

In April 2023 we provided scheduled beach renourishment at two locations along Quinns Beach which created a buffer against winter storms.

HOW CAN YOU HELP?



Stay off the dunes



No illegal 4WDing on the beach



Report any major erosion or beach safety issues to us

