

WATERWAY HEALTH REPORT CARD

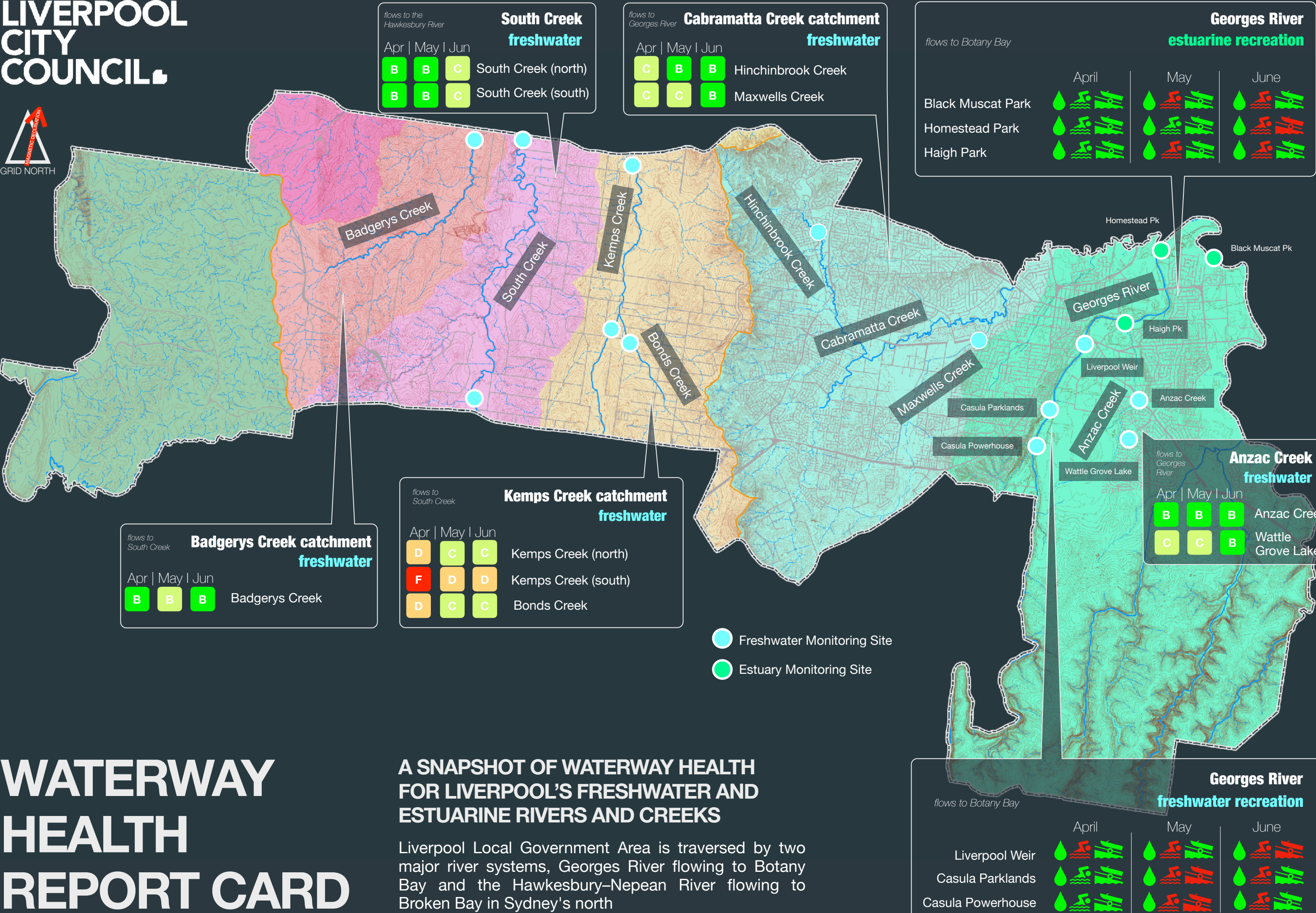
APRIL – JUNE 2021



LIVERPOOL CITY COUNCIL



WATERWAY HEALTH REPORT CARD



A SNAPSHOT OF WATERWAY HEALTH FOR LIVERPOOL'S FRESHWATER AND ESTUARINE RIVERS AND CREEKS

Liverpool Local Government Area is traversed by two major river systems, Georges River flowing to Botany Bay and the Hawkesbury–Nepean River flowing to Broken Bay in Sydney's north

HOW TO USE THIS REPORT CARD

Liverpool City Council is actively monitoring the health of rivers and creeks across the Local Government Area to ensure we effectively and sustainably manage our impacts on our waterways.

This report card presents results of quarterly monitoring for April–June 2021. Council will publish a report card each quarter to track our progress managing these important natural resources.

Report card grades are calculated in several ways:

Freshwater creeks are graded from A to F with both water quality parameters and biological indicators combined to calculate grades for each site.

Two sets of waterway-specific guidelines have been developed for Council:

- creeks on the clay-dominated Cumberland Plain (including Badgerys, Bonds, Kemps and South in the Hawkesbury-Nepean Catchment)
- creeks on Hawkesbury Sandstone (which despite the geological name occur here in the Georges River catchment, includes Anzac Creek).

These guidelines are tailored to the unique waterway characteristics created by the different geologies.




Grades and their corresponding condition are:

A	Excellent	D	Poor
B	Good	E	Degraded
C	Fair	F	Severely degraded

Recreation sites are assessed according to the National Health and Medical Research Council (NHMRC) guidelines for cyanobacteria (blue-green algae) and the Australia and New Zealand Environment and Conservation Council (ANZECC) guidelines for bacterial contamination.





The NHMRC guidelines are used as an indicator of ecological health. The presence of blue-green algae in freshwater rivers or creeks is a sign of stress caused by high nutrients, low flow and/or low oxygen.

A water drop symbol is used, graded by colour:

-  no/low levels of blue-green algae
-  moderate levels of blue-green algae
-  high levels of blue-green algae

Enterococci bacteria are also monitored as an indicator of contamination by sewage/wastewater or animal faeces that presents a health risk to human users of waterways. To assess this risk the ANZECC guidelines for primary contact (swimming) and secondary contact (boating, canoeing) are applied.

A swimmer symbol is used for primary contact and a boat for secondary, both graded by colour.

-  primary contact pass
-  primary contact fail
-  secondary contact pass
-  secondary contact fail

