INTRODUCTION

The Cronulla beaches are a major attraction of the Sutherland Shire for swimming, surfing, boating, fishing and other recreational pursuits. The surf beaches stretch along Bate Bay from Boat Harbour in the north to Cronulla in the south. Towards the southern end of the Cronulla Peninsula are two reserves, Oak and Shelly Parks, each with rock pools and small sandy beaches. Pollution and erosion are two factors impacting on the natural environment of Bate Bay and the Cronulla Peninsula.

ABOUT THIS GUIDE

This guide is a summary of the various resources held at the Central Library, Sutherland on the erosion and pollution of Cronulla’s beaches. Resources listed include:

- Books/reports on erosion
- Books/reports on pollution
- Vertical file
- Local newspapers and council minutes

This guide refers you to the Local Studies or Reference copy of each title. These copies are not able to be loaned but black & white/colour photocopying facilities are available.

Additional copies may be available for loan or held in the Reference Collection at branch libraries. Check for additional copies by searching the library’s online public access catalogue.

The catalogue is accessible from Sutherland Shire Libraries web site at:

BOOKS ON EROSION

Bate Bay coastline management plan
Patterson Britton & Partners [for] Sutherland Shire Council
North Sydney: Patterson Britton & Partners, 2003
Local Studies Folio 333.917PAT
This management plan includes strategies and actions relating to the preservation, maintenance, development and use of Bate Bay and its foreshores. It provides a summary of environmental pressures and conservation measures undertaken and includes photographs of the shoreline over time.

Beach Protection – Cronulla: Report No. 2: Design Wave Conditions – Prince St. Seawall
Foster, D.N.
Manly Vale, N.S.W.: Water Research Laboratory, University of N.S.W., 1974
Local Studies Quarto 627.58FOS
This report recommends a design wave height of 3.6m for the design of the Prince St. seawall based on historical records of wave motion and sand levels.

Coastal dune management: a manual of coastal dune management and rehabilitation techniques
Sydney: NSW Department of Land and Water Conservation, 2001
Local Studies Quarto 333.917COA
Although not specific to Cronulla this book provides good background information on dunes and the coastal environment. Includes chapters on dune reconstruction and protection, weeds and revegetation.

Coastal evolution and coastal erosion in New South Wales
Chapman, D.M. … et al
Sydney : Coastal Council of New South Wales, 1982
Local Studies 551.36COA
A report on the process of erosion along the New South Wales coastline, intended as a basis for further enquiry into management options for erosion control.

Construction of seabee seawall and PVC mattress scour blanket at Prince Street, Cronulla
Sutherland, N.S.W.: Sutherland Shire Council, 1987
Local Studies Quarto627.58CON
Describes the construction and location of the SeaBee seawall (includes diagrams).

Cronulla beach nourishment: assessment of borrow sites
Higgs, K. & Foster, D.N.
Manly Vale, N.S.W.: Water Research Laboratory, University of N.S.W., 1976
Local Studies Quarto 627.58HIG
This report assesses the various sources of sand available for a trial beach nourishment program at South Cronulla beach. It recommends a hydrographic survey of the area and monitoring of the beach before and after nourishment.

Cronulla Integrated Resort: development application and environmental impact statement prepared for Australand Holdings Pty. Limited
Castle Hill, NSW: McKenzie Land Planning Services, 1996
Local Studies Quarto 711.557CRO
Includes brief statements on the anticipated environmental impact of the development.
Geography for Australian citizens
Brian Parker … [et al.]
South Yarra, Vic : MacMillan Education Australia, 2004
Local Studies Quarto 910GEO
Aimed at secondary students in year 9-10, this contains a section on the issues of coastal management of Cronulla’s beaches. Includes information on the damage caused by the 1974 storms.

Holocene geological evolution of the southern Botany Bay - Kurnell region, central New South Wales Coast
P.S. Roy And E.A. Crawford
[Sydney?: Department Of Mineral Resources?, 1979?]
Local Studies 551.099441ROY
This survey describes in detail the evolution of the sand sediments of the Kurnell Peninsula.

Managing the coastline: a paper
Presented by E.H.W. Hirst on 9th September 1980 in the Sutherland Civic Centre Sutherland, N.S.W.: Sutherland Shire Council, 1980
Local Studies Quarto 333.917HIR
Provides a brief history and summary of the development of Council’s waterfront recreation facilities along the beaches of Bate Bay.

Preliminary study of beach erosion on Cronulla Beach
Prepared for the Sutherland Shire Council by D.N. Foster, D.M. Stone and C.H. Munro [Sydney]: Water Research Laboratory, University of N.S.W., 1963
Local Studies Quarto 551.36099441FOS
This report discusses the basic phenomena associated with beach erosion and considers the applicability of overseas remedies to Cronulla beach. Preliminary conclusions are drawn regarding the effects of waves, tides, currents, wind and human activities in the erosion of the beach.

Proposals for the long-term protection of Prince Street and the improvement of the amenity of North Cronulla beach
C. T. Brown & D. K. Haradasa
Sydney: University Of N.S.W., Water Research Laboratory, 1980
Local Studies Quarto 627.58BRO
This report reviews previous reports, outlines remedial proposals and provides estimates for the various proposals.

Protection to Prince Street, North Cronulla by beach nourishment
Foster, D.N. & Brown, C.T.
Manly Vale, N.S.W.: Water Research Laboratory, University of New South Wales, 1978
Local Studies Quarto 627.58FOS
This report examines the protection of Prince Street and North Cronulla and undertakes preliminary cost estimates.

The rate of movement of the transgressive sand dunes at Cronulla [manuscript]
Pickard, J.
Sydney : National Herbarium of N.S.W., Royal Botanic Gardens, [1972]
Local Studies Quarto 551.375PIC
Using data from aerial photographs taken between 1930 and 1965 the dune sheet was measured as advancing 291m over the 35 years.
The re-establishment of a frontal dune barrier from Wanda Beach to Boat Harbour - Cronulla
Rendell, N. G.
Parramatta, N.S.W.: Department of Conservation and Land Management, 1993
Local Studies Quarto 333.917099441RE
This report is a compilation of the main conclusions, observations and technical data from previous studies of the Bate Bay area. It includes a time line of significant events in erosion and dune management and photographs of the area.

Stabilisation of sand dunes at Cronulla
[Sutherland, N.S.W.]: Sutherland Shire Council, 1982
Local Studies Quarto 631.64STA
Discusses the effects and the remedial measures of denudation of dune vegetation. Gives a description of work carried out from 1976 north of Wanda Beach by the Soil Conservation Service and Sutherland Shire Council.

State of the environment report
Sutherland Shire Council
Sutherland, N.S.W.: Sutherland Shire Council, 1993-
Local Studies Quarto 363.7056SUT
Available electronically from Sutherland Shire Council’s website at:
www.sutherlandshire.nsw.gov.au (via Council and the Shire, then Publications link on menu bar)
Now produced annually this report provides a summary of pressures on the natural environment and programs being undertaken in response to these pressures.

BOOKS ON POLLUTION

Bate Bay coastline management plan
Patterson Britton & Partners [for] Sutherland Shire Council
North Sydney: Patterson Britton & Partners, 2003
Local Studies Folio 333.917PAT
This management plan includes strategies and actions related to the preservation, maintenance, development and use of Bate Bay and its foreshores. It provides a summary of environmental pressures and conservation measures undertaken and includes photographs of the shoreline over time.

Bate Bay pollution study (8 volumes)
[Sydney]: Water Board, 1994
Local Studies Quarto 363.7394099441BAT
The objective of this study was to determine the source(s) of the sewage pollution on Cronulla beaches during the summer of 1991. This was in response to public concern that the pollution was a result of the new deepwater ocean outfall at Malabar.

Bate Bay pollution study: progress report, 26th March 1992
Environment Management Unit, Water Board
Sydney: Water Board, 1993
Local Studies Quarto 363.7394099441BAT
The Beachwatch and Harbourwatch programs involve routinely monitoring and reporting bacterial levels, in order to determine water quality at Sydney recreational sites.

Cronulla Integrated Resort: development application and environmental impact statement prepared for Australand Holdings Pty. Limited
Castle Hill, NSW: McKenzie Land Planning Services, 1996
Includes brief statements on the anticipated environmental impact of the development.

Cronulla Sewage Treatment Plant (Environmental Project Series)
Reference Quarto 333.7ENV
A collection of fact sheets on the Cronulla Sewage Treatment Plant upgrade and managing wastewater in Sydney

Cronulla Sewage Treatment Plant upgrade: environmental impact statement
Prepared by Woodward-Clyde for Sydney Water
St. Leonards, N.S.W.: Sydney Water; Woodward-Clyde, 1996
This report comes with accompanying appendices in separate volumes and a 23 page overview that provides a summary of the EIS.

State of the environment report
Sutherland Shire Council
Sutherland, N.S.W.: Sutherland Shire Council, 1993-
Now produced annually this report provides a summary of pressures on the natural environment and programs being undertaken in response to these pressures.

Strategic water monitoring program, summer 1998/99
Sutherland Shire Council Environmental Science and Policy Unit
[Sutherland, N.S.W]: Sutherland Shire Council, 1999
The objective of this program is to monitor the pollutant composition of stormwater from sub catchments of the Shire and to use this data to identify pollutant sources. We hold various issues of this report dating back to 1995.

Water quality management N.S.W. (Environmental Project Series)
Reference Quarto 333.7ENV
A collection of pamphlets and booklets focusing on water resources, water conservation, water quality and water quality management.
VERTICAL FILE

The vertical file contains pamphlets, newspaper clippings and other looseleaf information on erosion and pollution. The information in the vertical file is mainly indexed on cards. The library is currently transferring details from these cards onto the library’s online catalogue, consequently you may be directed to carry out your search online. The vertical file is located in the Local Studies Collection. Check under the following subject headings:

- Cronulla Beach
- Cronulla Beach-Sea Wall

NEWSPAPERS AND COUNCIL MINUTES

There are many references to the erosion and pollution of Cronulla’s beaches in the local newspapers and Council’s committee meetings. These articles have been indexed on the library’s Local Newspapers database from 1986 onwards. The index can be searched by title, author or subject keyword. You can access the index online from the library website (URL listed below) by clicking on the Local Newspapers link found under the Local Studies option on the home page. Prior to 1986 articles are indexed on the card index located in the Reference Room. The card index can be searched by subject. Useful subject headings include:

Bate Bay
Beach erosion
Cronulla beach
Cronulla beaches
Cronulla Dunes and Wetland Protection Alliance
Cronulla Integrated Resort Proposal
Cronulla sand hills
Cronulla - sewerage
Marine pollution
Prince Street, Cronulla
Sea walls

The local newspapers and the council minutes are kept on microfilm and in hard copy in the Local Studies Collection and the Reference Room at Sutherland Library. Please ask staff at the Reference Desk for assistance with these resources.

Internet Sites


Visit Sutherland library’s web site and click on Online Collections. Then on the right under Recommended websites click on Visit SUTHLIB on delicious. Use the tag SutherlandShireEnvironment.