

Catchment and Waterways Strategy

2026-2035

SUTHERLAND SHIRE



Sunset Cultural Ceremony, Nawi Canoe,
January 2024.

Cover Image - Wally's Wharf, Burraneer Bay



Acknowledgement of Country

Sutherland Shire Council acknowledges the Dharawal people as the Traditional Custodians of the land within Sutherland Shire.

We value and celebrate Dharawal culture and language and acknowledge the Dharawal people's continuing connection to the land, the sea, and the community.

We pay respect to the Elders and their families, past, present, and emerging, and through them, to all Aboriginal and/or Torres Strait Islander peoples.

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Strategy at a glance

This Catchment and Waterways Strategy outlines Council's comprehensive approach to managing and preserving Sutherland Shire's catchments, waterways and coastal areas. It addresses environmental, social and economic challenges through proactive management, collaboration and evidence-based strategies.

One of the five Strategic Priorities for 2025-2029 as set out by the Councillors of Sutherland Shire Council is Waterways and Stormwater management. This Strategy delivers that priority through the four focus areas outlined below. The strategy identifies and prioritises projects and plans that inform the [Delivery Program and Operational Plan](#).

'We will manage stormwater related risks to our community and waterways – connecting people and nature for generations to come.'

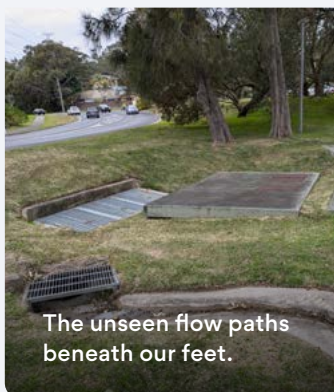
Our vision and goals

In 2030 diligent implementation of this strategy has reshaped how Council and the community address waterway needs of Sutherland Shire. The projects and strategies outlined in this document are informing and adding value to Council's [Delivery Program and Operational Plan](#). The community sees on-ground improvement through the four focus areas of our Catchment and Waterways Strategy.

In 2035 Council is recognised as a leader for its catchment and waterways management. The Community partners with Council to protect, manage and care for our waterways and coastline. The projects and strategies outlined in this document are well established yet flexible – evolving with the needs of our community and waterways. Our community feels deeply connected to our waterways and understands that taking care of our catchments is critical to ensure our natural environment thrives for generations to come.

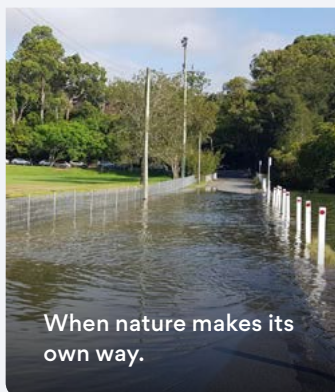
Our focus areas

Stormwater Management



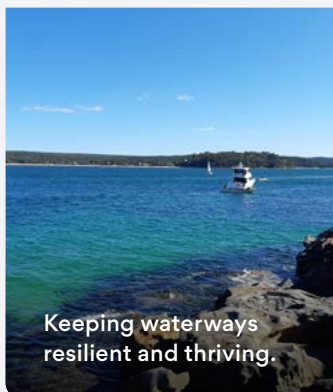
The unseen flow paths beneath our feet.

Flood Risk Management



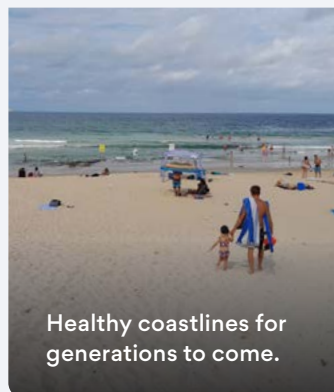
When nature makes its own way.

Waterways Management



Keeping waterways resilient and thriving.

Coastal Management



Healthy coastlines for generations to come.

Our targets

	Stormwater Management	Flood Risk Management	Waterways Management	Coastal Management
By 2030	Increase capital (renewal/ upgrade/ new) expenditure by 50% from 2025 base expenditure	Improve access to flood information across Sutherland Shire through the implementation of the <i>FloodSmart</i> program	Decrease pollution in our waterways by achieving 60% litter reduction from all urbanised catchments of Sutherland Shire	Improve coastal management of the Georges River by assisting Georges Riverkeeper to complete the Coastal Management Program
By 2035	Increase capital (renewal/upgrade/ new) expenditure by 100% from 2025 base expenditure	Quantify flood risk for all urbanised catchments of Sutherland Shire Council by completing <i>Flood risk Studies</i> and <i>Flood Risk Management Studies and Plans</i>	Decrease pollution in our waterways by achieving 90% litter reduction from all high polluting sub-catchments of Sutherland Shire	Improve coastal management across Sutherland Shire by completing all <i>Coastal Management Programs</i> for all coastal areas

Our principles

Our principles			
	Collaborate	Protect	Preserve
Our objectives	Collaboration and Transparency	The right solution at the right time	Waterways as a living asset
	Leadership	Evidence and Information	Proactive management

The catchments of Sutherland Shire

A **waterway** is a natural body of water – such as a wetland, lake, creek, river or ocean. The health and biodiversity of waterways is often directly affected by upstream catchments.

A **catchment** is an area of land where rainfall (and water) collects and drains to a common point or waterway, such as a river, creek or ocean. Catchments can vary in size, from small local areas to large regions encompassing multiple waterways.

In urbanised catchments, stormwater runoff is carried by underground pipes, open channels, and overland flow paths (over roads and private

property) towards the receiving waters. Pollution and litter can be carried by stormwater to downstream rivers, creeks or oceans. Urban catchments need to be managed efficiently to ensure that our waterways are protected.

This Strategy outlines how Council plans to manage our urban catchments.

Sutherland Shire is divided into six major stormwater catchments. Each catchment varies significantly in characteristics and challenges.

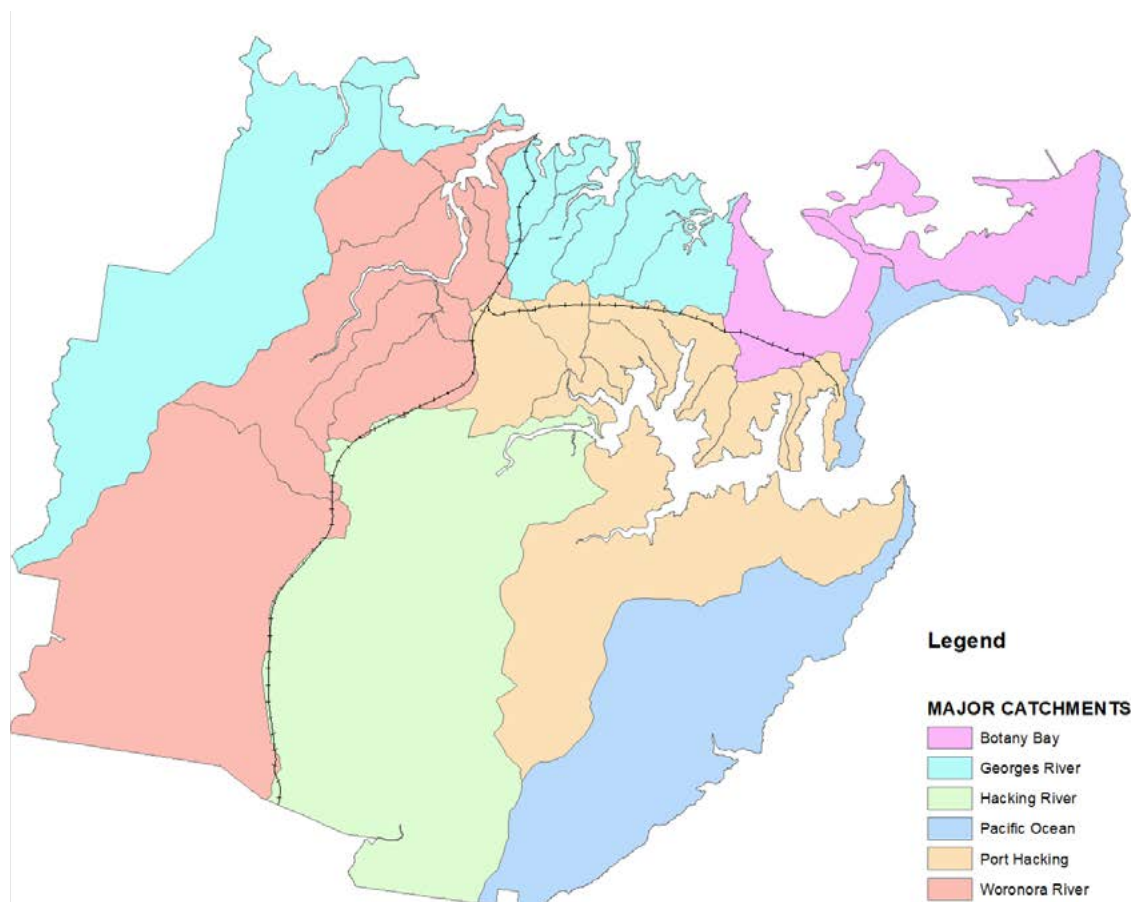


Figure 01. The major stormwater catchments of the Sutherland Shire.

Botany Bay Catchment

The Botany Bay Catchment is approximately 21 km². It consists of two major waterways: the Georges River and the Cooks River. Formally known as the landing place of Captain Cook, this catchment has a long history of human use, both Aboriginal and European and is substantially urbanised for residential, industrial and commercial purposes. Botany Bay catchment and its estuaries are associated with significant biodiversity and community environmental and social values. It is home to numerous endangered species, a Ramsar-listed wetland, migratory bird habitats and Aboriginal and European heritage sites.

Georges River Catchment

The Georges River Catchment is the second largest river catchment in Sydney – spanning across multiple councils. Approximately 60 km² of this catchment is within the Sutherland Local Government Area (LGA). The Georges River catchment is one of the most highly urbanised catchments in Australia and is defined by its diverse geography.

Hacking River Catchment

The Hacking River Catchment is approximately 67 km² and is considered the southernmost catchment in the Sydney Basin. This catchment has an important influence on the Port Hacking Estuary providing its main source of freshwater and sediment. Significant areas of riparian and foreshore habitats are within the Royal National Park and Garrawarra State Conservation Areas.

Pacific Ocean Catchment

The Pacific Ocean Catchment of approximately 45 km² comprises coastal land draining directly to the Pacific Ocean. It is comprised predominantly of the Royal National Park on the southern side of Port Hacking. Parts of Cronulla, the Bate Bay beaches, and areas of Kamay Botany Bay National Park are in this catchment. Immediately north of Port Hacking is generally low lying, with extensive sand dunes and a long ocean beach forming most of the coastline around Bate Bay. Significant non-stormwater waste-product discharges to this catchment are from the Sydney Desalination Plant and Cronulla Wastewater Treatment Plant (Potter Point outfall).

Port Hacking Catchment

The Port Hacking Catchment is approximately 57 km². The northern foreshore of this catchment has changed from natural and low-density residential land to high density urban landscapes with waterfront suburbs. The Royal National Park is the dominant proportion of the southern catchment. This catchment is surrounded by a wide variety of terrain, ranging from coastal cliffs broken by beaches and small inlets to high plateaus broken by extensive and deep river valleys.

Woronora River Catchment

A tributary of Georges River, the Woronora River Catchment is approximately 83 km² and is an area of great natural beauty and regional significance. This catchment's landscape is dominated by sandstone and is home to several endangered ecological communities, threatened species and diverse ranges of ecosystems including wetlands, saltmarsh, woodlands, forests and heath. Due to the large catchment area, and steep topography, the Woronora River Catchment is the most vulnerable to riverine flooding in Sutherland Shire. Another challenge faced by this catchment is sedimentation of the river, which is generated from large deposits of natural sandstone upstream of the Woronora township.



Collective action ensures our bays remain vibrant and resilient.

OUR STRATEGY

Managing the Sutherland Shire's stormwater catchments is vital in supporting the health and wellbeing of our waterways and community. Waterways provide a wide variety of recreational activities, habitats for wildlife and enhance the local environment.

Our catchments and community face water related risks such as flooding, climate change, pollution and habitat loss. Sutherland Shire Council is responsible to lead the management and preservation of its catchments and waterways for future generations.

-
- Integrated Planning and Reporting Framework
 - Our place in Sydney, NSW and the World
 - Community Voices
 - Our Vision
 - Our Targets
 - Our Drivers
 - Our Principles
 - Our Plan

Integrated planning and reporting framework

Council's plans and strategies aim to create a connected and safe community in Sutherland Shire, respecting both people and nature. This approach supports active lives and a strong local economy.

Council follows the [Integrated Planning and Reporting Framework](#), mandatory for all NSW local councils. This framework links the long-term [Community Plan](#) an aspirational vision for the whole Sutherland Shire with other Council strategies and plans, and short-term plans like the [Delivery Program](#) and [Operational Plan](#).

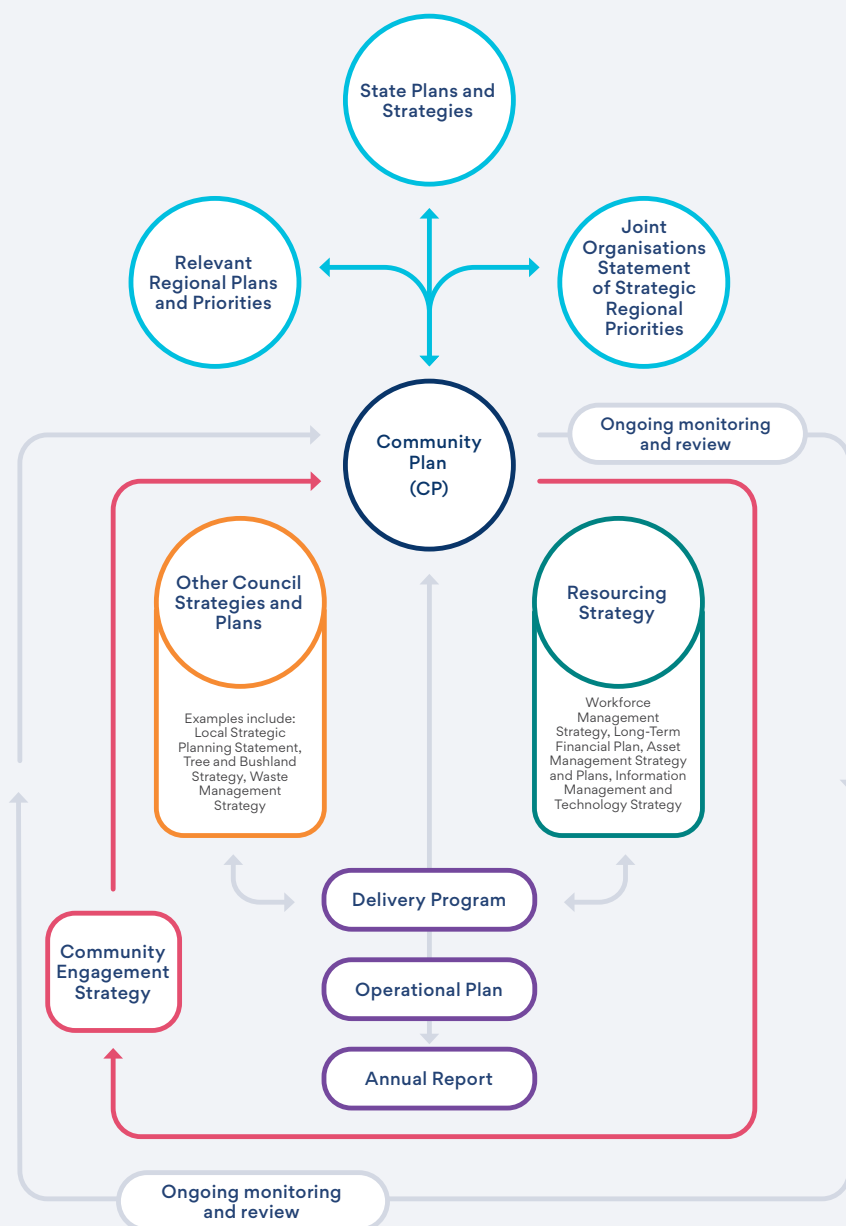
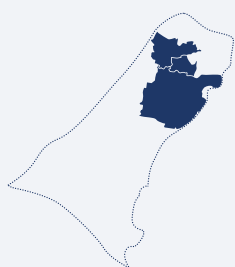


Figure 02. Integrated planning and reporting framework.

Our place in Sydney, NSW and the World

The Catchment and Waterways Strategy aligns with the following:



Local	Regional	State	National	Global
Sutherland Shire Council Community Strategic Plan	Greater Sydney Region Plan	Coastal Management Act 2016 (CM Act)	Australian Rainfall and Runoff Guidelines	Ramsar Conservation of Wetlands
Local Strategic Planning Statement	South District Plan	State Environmental Planning Policy (Coastal Management) 2018	Australian Standards (Engineers Australia)	Intergovernmental Panel on Climate Change
Delivery Program and Operational Plan	Georges River Catchment Litter Prevention Strategy (Georges Riverkeeper)	NSW Coastal Management Manual	CSIRO Urban Stormwater Best Practice Environmental Management Guidelines	United Nations Sustainable Development Goals
Strategic Asset Management Plan		Coastal and Estuary Grants Program		
Sea Level Rise Policy		NSW Flood Risk Management Manual		
Dredging Policy		Sea Level Rise guidelines		
Development Control Plan		DPIE Waste and Sustainable Strategy 2041		
Stormwater Specification		EPA Litter Prevention Strategy 2022-2030		

Community voices

How we created the Plan

Our Plan has been developed in partnership with the community, recognising the significant role Sutherland Shire Council plays in guiding, planning, advocating and implementing programs and policies that impact our catchments and waterways.

Insights from Council's community engagement sessions along with input from the Sutherland

Shire Catchment and Waterways Community Reference Group have helped shape the strategic priorities and measurements of success for the Catchment and Waterways Strategy and Implementation Plan.

An ongoing cycle of review, reflection and community conversation has guided the aspirations captured in this Strategy.

Community engagement approach



Online survey



Join the Conversation



Social media



E-newsletters

Catchment and Waterways Community Reference Group



Community representatives and Councillors involved in workshops and strategic decision making



Identified 25 priority projects, plans and campaigns to help achieve the vision and goals of the Catchment and Waterways Strategy (2026-2035)

Community voices

What we asked

Collaborating and listening to our community and government partners has been important to identify concerns, and capture what we value about our catchments and waterways.

Questions asked to the community included:

- What do you value most about Sutherland Shire's waterways?
- What are the most important water-related issues or concerns to you?
- When thinking about your aspirations for catchment and waterways in the Sutherland Shire, what focus area is most important to you?
- Who do you believe should take the greatest responsibility for protecting and enhancing our catchments and waterways?

What you told us

The community revealed clear hopes and expectations for the future.

We value

- The biodiversity of Sutherland Shire's beaches, rivers, waterways and green spaces.
- Our beaches, rivers and waterways for recreation and outdoor activities to live healthy, active lives.
- The visual amenity of our catchments and waterways.

We need

- Education, communication and opportunities for residents to get involved in protecting our waterways.
- Improved infrastructure to drain our urban catchments and reduce pollution to our waterways.
- Better management of our urban catchments, including by developers, to reduce our impact on our beaches, rivers and waterways.

We're concerned about

- Pressures such as urbanisation, pollution and litter have on reduced biodiversity in Sutherland Shire's waterways.
- The water quality of Sutherland Shire's beaches, rivers and waterways.
- Erosion of our natural creek banks and beaches.

Our vision

Council's strategy looks beyond the next ten years, acknowledging that today's actions are incremental and may seem small, but over years of diligent execution, will yield large improvement. Developed with community and stakeholder input, this vision outlines our goals for Catchment and Waterways management and will guide our future actions.

'We will manage stormwater related risks to our community and waterways – connecting people and nature for generations to come.'

In 2030

Diligent implementation of this strategy has reshaped how Council and the community address the waterways needs of Sutherland Shire. The projects and strategies outlined in this document are informing and adding value to Council's [Delivery Program and Operational Plan](#). The community sees on ground improvement through the four focus areas of our Catchment and Waterways Strategy.

In 2035

Council is recognised as a leader for its catchment and waterways management. Community partners with Council to protect, manage and care for waterways and coastline. The projects and strategies outlined in this document are well established yet flexible – evolving with the needs of our community and waterways. Our community feels deeply connected to our waterways and understands that taking care of our catchments is critical to ensure our natural environment thrives for generations to come.

Our targets

Setting local targets for stormwater, flood risk, waterways and coastal management is crucial for fostering a safe and sustainable community. Our targets help ensure that our infrastructure is robust and resilient and serves the needs of the community.

By maintaining clean and healthy waterways we protect our local ecosystems and biodiversity, which in turn supports recreational activities and enhances the natural beauty of our Shire.

Proactive management in our key focus areas promotes a higher quality of life for residents, bolsters economic stability, and safeguards the environment for future generations.

	Stormwater Management	Flood Risk Management	Waterways Management	Coastal Management
By 2030	Increase capital (renewal/upgrade/new) expenditure by 50% from 2025 base expenditure	Improve access to flood information across Sutherland Shire through the implementation of the <i>FloodSmart</i> program	Decrease pollution in our waterways by achieving 60% litter reduction from all urbanised catchments of Sutherland Shire	Improve coastal management of the Georges River by assisting Georges Riverkeeper to complete the <i>Georges River Coastal Management Program</i>
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Our drivers

Catchments and Waterways play a vital role in enhancing both the community and the environment by offering several key benefits:

Environmental

Healthy catchments and waterways help reduce pollution, improve temperature regulation, promote wildlife conservation and provide habitats for local plants, fish and animals.

Economic

Clean and functioning waterways attract tourism, promote active lifestyles and lower heating and cooling costs. Neighbourhoods located near waterways and beaches are often more desirable places to live and visit.

Social

Waterways enhance community health and well-being by promoting physical activity and creating spaces for social interaction. They provide recreational space for many of Australia's favourite outdoor activities.

Safety

Stormwater networks and flood mitigation measures help keep our community resilient in weather events by reducing and managing risk to life and property.

Challenges and pressures

The local challenges and external pressures that drive the need for Council to act are:

Climate Variability and Increasing Storm

Intensity: The impact of changing climate conditions leading to more frequent higher intensity storm events.

Biodiversity Threats: The increasing number of threatened species due to habitat loss.

Development Pressures: Population growth and increased development putting more strain on stormwater drainage infrastructure and waterways.

Illegal Activities: Damage to public stormwater infrastructure, illegal littering, and polluting of our waterways and coastal areas.

Space for Infrastructure and Mitigation

Measures: The need for sufficient space for

drainage infrastructure, flood mitigation measures and water quality treatment devices.

Community Awareness and Expectation: The community is well-informed about stormwater issues and has high expectations in resolving them.

Community and Institutional Capacity: The ability of community, governments, industry and other stakeholders to pursue integrated catchments and waterways management has improved but requires ongoing effort.

Sourcing Financial Resources: Sourcing adequate grants and resources to undertake works in accordance with service level agreements and mitigation recommendations outlined in our various studies, plans, guidelines, reports and strategies.

Our principles

The Strategy is based on a set of guiding principles for managing catchments and waterways, centred on three key pillars: **collaboration, protection and preservation.**

Our principles inform all decisions made under this strategy and have been developed through incorporating industry best practices and community feedback. Importantly, all principles

will be applied equally - no single principle will take precedence over the others. Our principles have influenced the objectives, key focus areas, and actions outlined in this strategy.

There are six primary objectives aligned with our principles and designed to guide Council in achieving its targets.

Our principles	Our objectives	
Collaborate	1. Encourage community engagement and partnership to protect and manage our waterways.	2. Take a lead role in management of catchments and waterways.
Protect	3. Prioritise the right strategy, plan, study, or mitigation method to adequately manage risk to life and property from floods and extreme weather events.	4. Use evidence and data to inform decision making.
Preserve	5. Recognise that waterways are living assets that require careful management.	6. Proactively manage our urban and natural environment from risks.

Council and the community are working together to preserve the unique waterway character of Sutherland Shire. By sharing information, resources, and expertise, Council empowers the community to be actively engaged.

Together, we can help protect our community and environment. Through collective effort we are strengthening our commitment to safety and sustainability for future generations.

Collaboration and transparency

Partnerships and engagement will be established with relevant government agencies and First People custodians whose voices are integral to Sutherland Shire's waterways. Aboriginal knowledge systems—built on thousands of years of observation and stewardship—offer insights into seasonal patterns, biodiversity, and sustainable practices that can enhance modern catchment and waterway management.

Information will be openly shared with the community, First People stakeholders and government agencies to support participatory decision making.

Community consultation is an integral element of major projects and studies, ensuring the voices of our community are heard and respected.

Community collaboration on the projects and programs outlined in this strategy will be conducted through community consultation exhibitions and through Council run committees and reference groups.

Leadership

Council leads by example in catchment and waterways management and advocates for improved management by all landowners/managers.

We value our communities and waterways and recognise the inherent stormwater-related risks they face.

Protection is at the heart of our work. Through active strategies we can effectively manage risk in our four focus areas. Our goal is to protect both the community and our waterways from potential hazards, ensuring their shared long-term survival.

The right solution at the right time

The character and environmental values that exist across the Sutherland Shire will be enhanced through well-planned and executed solutions. These solutions will be informed by strategies, studies and plans in line with up-to-date scientific findings and industry best practice.

By undertaking the right solution, at the right time, we can protect our community and waterways in a systematic way that will bring the greatest benefit to Sutherland Shire, by addressing the challenges unique to each catchment.

Evidence and information

Scientific data helps us understand the health of aquatic ecosystems, identify sources of pollution, quantify flood related risks and assess the impacts of human activities. By leveraging accurate information, we can develop targeted interventions to protect our communities, water quality and biodiversity.

Public awareness and education campaigns based on solid evidence can foster community engagement and support for conservation efforts. Ultimately a data-driven approach ensures that our actions are both efficient and sustainable in safeguarding and preserving our waterways.

By promoting sustainable practices and engaging communities, we aim to balance human activities with environmental integrity and sustainability.

Preserving our waterways is important to our community. These natural aquatic areas provide critical habitats for a diverse range of wildlife and offer vital resources for recreational communities.

Healthy waterways help to filter pollutants, mitigate flooding, and sustain fragile ecosystems. Through collaboration, innovation, and education we aim to create a sustainable future where both people and nature thrive together.

Managing our urban catchments effectively is crucial in ensuring the health of our waterways.

Waterways as a living asset

Waterways are more than just channels for water flow; they are living systems that sustain and enrich our environment and communities. These dynamic drainage systems act as ecosystems, supporting a diverse array of biodiversity.

As living systems, waterways contribute to the health of our Shire by filtering pollutants, regulating climate, and replenishing groundwater.

They offer recreational opportunities, cultural significance, and economic benefits through activities like fishing, tourism, and agriculture. Recognising waterways as living assets underscores the importance of preserving and nurturing them as we would our built assets, ensuring they continue to provide invaluable services and beauty.

Proactive management

Council actively supports the protection of our urban catchments from challenges like flooding, climate change, and sea level rise.

Our plan

The Catchment and Waterways Strategy is a ten-year plan to improve how catchments and waterways are managed in the Sutherland Shire. Our strategy primarily focuses on collaborating with community and stakeholders to ensure that our catchments and waterways are protected and actively managed for future generations.

This Strategy considers the current state of Sutherland Shire’s catchments and waterways and identifies opportunities to improve management to enhance benefits for the community.

The Strategy has four key focus areas:

Stormwater Management	Flood Risk Management	Waterways Management	Coastal Management
We aim to implement sustainable stormwater management practices to mitigate nuisance overland flow and increase community safety.	We aim to develop innovative, risk-based flood mitigation strategies to enhance community resilience and understanding of flood risks.	We aim to safeguard and enrich our natural waterways while educating the community and future generations on their importance.	We aim to protect and enhance our coastal environments through community engagement, scientific research, and strategic management practices.

These focus areas aim to foster beautiful, protected and healthy catchments. We will achieve our goals through actively accessing, maintaining, and enhancing our strategies and plans to address the unique challenges associated with each focus area.

This Strategy is a key part of the Council’s [Integrated Planning and Reporting Framework](#) and aligns with our [Community Strategic Plan](#). We will work closely with our community to ensure that our management practices are effective and well-informed.

Actions outlined in this Strategy and Implementation Plan will provide recommendations that will directly inform Council’s Capital Works Program, Delivery Program and annual Operational Plans. This will include site specific projects and “on-ground” solutions for our four key focus areas.

How We Manage Risk

Managing risk works best when it’s done in a clear, structured way. Council uses five key steps to make sure risks are identified early, handled properly, and monitored over time.

Each concern raised by the community was assessed using Sutherland Shire Council’s 5 step process. Actions (in the form of our projects,

plans, studies, campaigns and programs) were developed to make sure each concern is systematically addressed.

This structured approach ensures we manage risks clearly and effectively across all focus areas. This approach helps us protect our community, make informed decisions, and stay prepared for changes in the environment.



Figure 03. Our approach to managing stormwater related risk in Sutherland Shire.



Managing stormwater to reduce risk
and improve resilience.

FOCUS AREA 01

STORMWATER MANAGEMENT

‘We envision a resilient community where sustainable stormwater management effectively mitigates nuisance overland flow, ensuring safety for the whole community.’



Through sustainable stormwater management, Council aims to reduce nuisance overland flow risk throughout Sutherland Shire. Stormwater infrastructure plays a major role in our stormwater management plan.

Below ground assets (such as stormwater pits and pipes) are designed to drain water safely for frequent (minor) storm events.

Above ground assets (such as road kerb and gutter, waterway channels, and overland flow paths) are designed to safely drain stormwater when the capacity of the underground system is exceeded – usually in infrequent and rare (major) storm events.

Nuisance overland flow is considered to be overland stormwater flow with depths less than 100mm during major storm events. Nuisance overland flow is addressed through focus area 1: stormwater management.

Overland flow flooding is defined as stormwater flows greater than 100mm depths in major storm events. Overland flow flooding is addressed through the actions outlined in focus area 2: flood risk management.

Pipe obstructions, population growth, climate change and other factors put increased pressure on our stormwater network. If not managed, these factors will decrease Council’s ability to mitigate the impact of nuisance overland flow and meet the desired service level of our stormwater network.

It is crucial that sustainable stormwater management strategies be adopted and followed to ensure a resilient drainage network for generations to come.

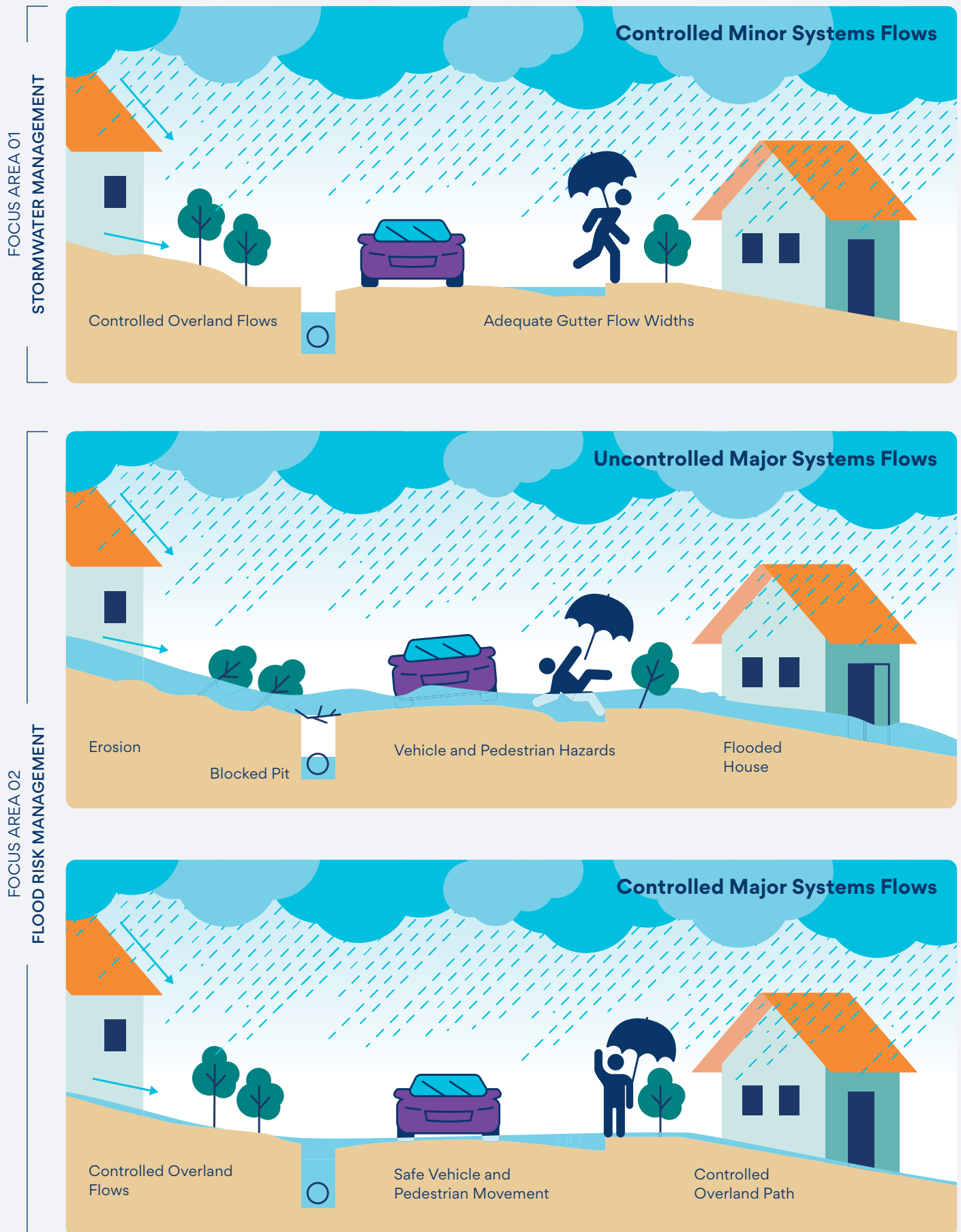


Figure 04. Minor and major concepts drawings for stormwater management
(Source: Australian Rainfall and Runoff v4.2 book 9, Commonwealth of Australia, 2019).

Stormwater Asset Management Plan

Council's Stormwater Asset Management Plan underpins all actions outlined in Focus Area 1: Stormwater Management. The Stormwater Asset Management Plan defines our desired level of service, and outlines how Council plans to maintain and invest in stormwater infrastructure.

Council's budget must be managed effectively to ensure that the expected service delivery of Council's network is maintained. The Asset Management Plan is informed through strategic risk analysis to determine the optimum way to use Council's budget in managing stormwater infrastructure.

The Plan will be regularly reviewed to determine its effectiveness and adjusted as needed.

The actions outlined in Focus Area 1 intended to operate in accordance with Council's Asset Management Plan to improve stormwater management throughout the Shire.



Maintained outlets help protect our community and environment.

Stormwater Maintenance Optimisation

Council's Stormwater Maintenance Optimisation program is a practical solution to help Council maintain agreed levels of service for stormwater assets while working within real-world budget constraints. The program supports good asset management practice by focusing on value for money, risk management, and continuous improvement.

Stage 1 reviews Council's existing stormwater maintenance strategy and how it operates in practice. This includes assessing performance against key indicators (e.g., service requests, flooding/ponding incidents, defect backlogs, inspection/cleaning coverage, response times, customer impacts) and examining how budgets are being utilised across activities such as reactive works, routine works, inspections, and contractor delivery. The audit identifies what's working well, where there are gaps or inefficiencies, and where the strategy may not be aligned to current asset risks, service expectations, or operational capacity.

Stage 2 turns the review findings from stage 1 into a set of improvement options to optimise the maintenance strategy and day-to-day operations. Using risk-based prioritisation and strategic thinking, this stage identifies where effort and funding will deliver the greatest reduction in risk - such as focusing on high-consequence locations, critical assets, and failure modes. Recommendations may include changes to intervention triggers, defect triage, and performance measures - each designed to improve maintenance outcomes without requiring unsustainable budget increases.

Stage 3 of the program requires Council to monitor our revisited strategy and implementation. This includes a performance framework that tracks whether service levels and risk outcomes are being achieved within budget. Monitoring typically uses a small set of meaningful KPIs with scheduled review points to adjust priorities based on results and emerging issues. This allows Council to continue to improve our maintenance operations.

Proactive Stormwater CCTV Program

Unknown condition of stormwater assets is a source of risk to public life and property. To combat this Council is developing and implementing an annual proactive investigation program to improve Council's stormwater asset database. High-risk stormwater assets will be inspected using closed-circuit television (CCTV) to determine condition ratings. These ratings can then be extrapolated to lower risk assets based on similar geographical location and shared characteristics. Condition rating plays a vital role in prioritising capital works in Council's Strategic Asset Management Plan. Ad-hoc inspections will also be carried out for assets as required.

'Hot Spot' Maintenance Register

Problematic assets that need frequent maintenance and monitoring to ensure functionality are placed on a 'Hot Spot' Register. This register will be detailed in Council's Asset Management Plan.

Potential Works Register

Council's Potential Works Register is largely informed from community feedback. Problematic sites identified by the community are placed on this register. Potential solutions to resolve these issues are carefully considered and prioritised in line with the Strategic Asset Management Plan.

Street Sweeping Review

Stormwater pipes, pits and waterways can be blocked by litter and vegetation (leaves, branches etc). Litter that is washed down the stormwater pits ultimately ends up in our waterways, rivers and oceans.

One way to combat these issues is through Council's street sweeping program. Council has a regular sweeping schedule that targets all roads within Sutherland Shire over the course of a 6-week cycle. Street sweeping plays a crucial role in maintaining clean and safe waterways.

Stage 1 of Council's Street Sweeping Review will assess the effectiveness of Council's current

program to determine where improvements may be made to reduce litter deposits within our waterways, rivers and oceans.

Stage 2 of Council's Street Sweeping Review will identify locations throughout Sutherland Shire where street sweeping is not occurring, and where sweeping may be beneficial in collecting litter and vegetation that would otherwise end up in the stormwater network.

Development Control Plan Chapter 38: Stormwater and Groundwater Management

Council's [Development Control Plan](#) (DCP) serves as a critical framework to guide development within Sutherland Shire. Chapter 38: Stormwater and Groundwater Management's primary purpose is to ensure that new developments manage stormwater runoff effectively to prevent stormwater nuisance, erosion, and pollution of waterways. The chapter outlines performance objectives and controls for developers, engineers, and planners to follow - such as requirements for water-sensitive urban design (WSUD) features. The DCP guides private development by promoting public safety, environmental health, and infrastructure integrity across Sutherland Shire.

Reviewing and updating the DCP every decade is essential to ensure it remains relevant and effective in the face of changing environmental conditions, urban growth, and technological advancements. Regular updates also allow councils to align with evolving state and federal regulations, community expectations, and sustainability goals, ensuring the DCP continues to serve its purpose effectively.

Stormwater Management Specification

Council's [Stormwater Management Specification](#) complements the DCP by providing the detailed engineering standards, methodologies, and design criteria necessary to implement the controls and objectives outlined in the DCP. While the DCP sets the strategic goals (such as reducing runoff, improving water quality, and protecting natural waterways), the

technical specification translates these goals into actionable requirements for developers, engineers, and contractors. It includes specific information like pipe sizing, water quality reduction targets and detention basin design, ensuring consistency, safety, and compliance across all developments.

This specification is essential because it bridges the gap between policy and practice. Without it, the DCP's aims could be inconsistently interpreted or ineffectively implemented. By offering clear, measurable standards, the specification supports efficient assessment of development applications and helps avoid disputes or delays.

Stormwater Outlet Maintenance Program

Council's Stormwater Outlet Maintenance Program identifies several outlets throughout Sutherland Shire that need regular maintenance to ensure upstream networks drain as intended.

Many of these outlets are located within coastal wetlands or in one of the two Aquatic Reserves found in Sutherland Shire. This program seeks to work with the Department of Primary Industries and Regional Development (DPIRD)-Fisheries so vital maintenance works can be completed in these sensitive locations.

Every 5 years Council and DPIRD-Fisheries agree on a code of practice which dictates how and when maintenance at these sensitive locations can occur.



Protecting lives and property through
proactive flood management.

FOCUS AREA 02

FLOOD RISK MANAGEMENT

‘We aim to implement innovative, risk-based flood mitigation strategies that enhance community resilience and understanding of flood risks’

Flooding is a natural phenomenon that occurs during extreme weather, inundating what normally is dry land. Flooding is a known part of the Sutherland Shire’s history and affects many areas of the community. Flooding can be:

Riverine Flooding: Rising water levels overtopping the banks of creeks and rivers causing the inundation of surrounding land.

Coastal Flooding: The inundation of low-lying coastal areas caused by a combination of high tides, storm surges and waves.

Overland Flooding: Stormwater runoff flows overland towards a waterway.

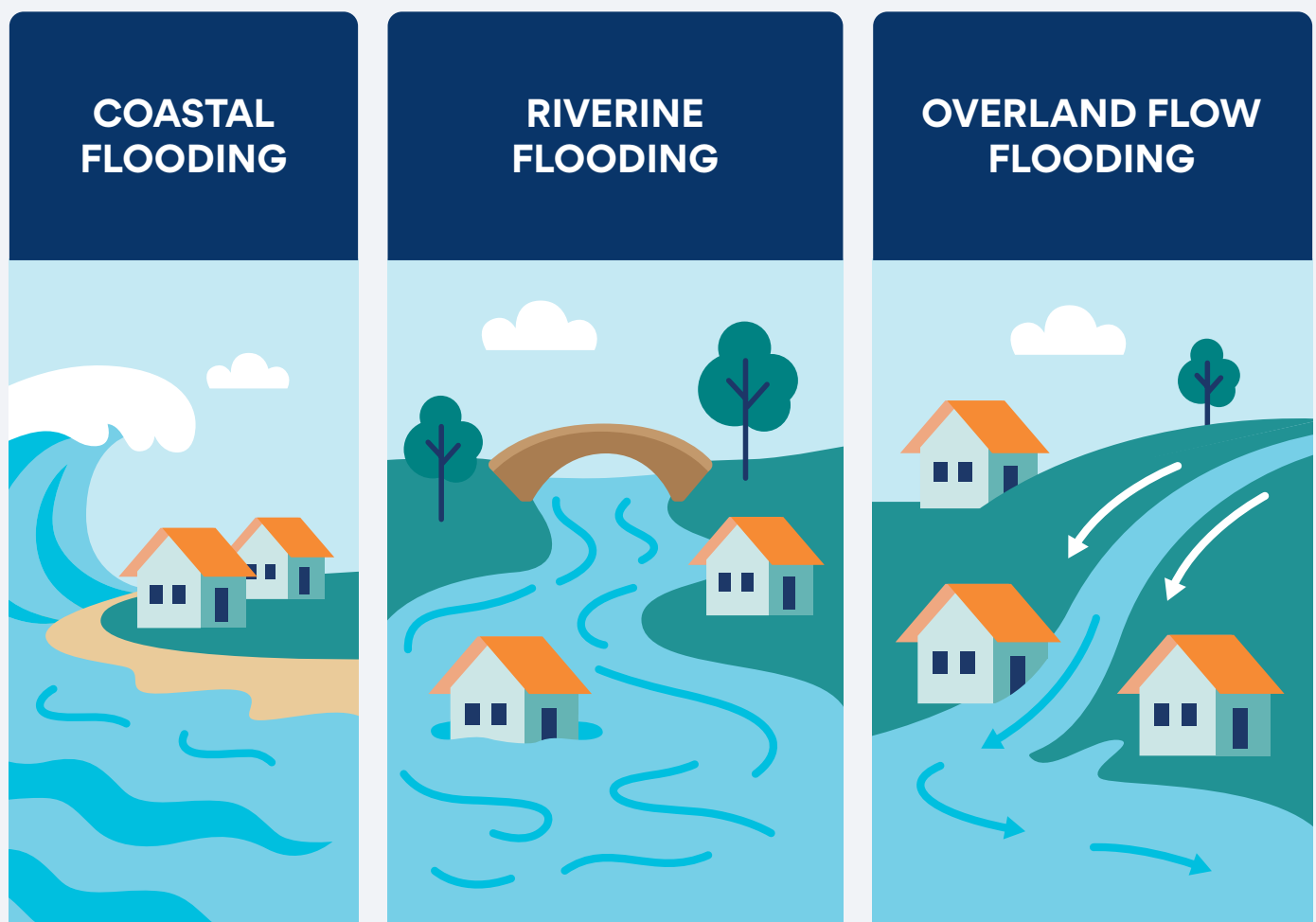


Figure 05. Different types of flooding in Sutherland Shire.

Flood flow behaviour and flood risk varies significantly across Sutherland Shire. While it is difficult to prevent flooding, flood risks can be managed. Council prepares Flood Studies to define flood risk. Subsequent Flood Risk Management (FRM) Studies and Plans outline options to mitigate and manage flood risk to our community – in line with NSW government policies and guidelines.

The NSW Government Flood Prone Land Policy aims to make communities more flood resilient. It accomplishes this by reducing the impacts of flooding on owners and occupiers of flood-prone property and reducing public and private losses. The [NSW Flood Risk Management Manual](#) supports the Flood Prone Land Policy and guides Council on managing flood risk through the framework shown in the figure below:

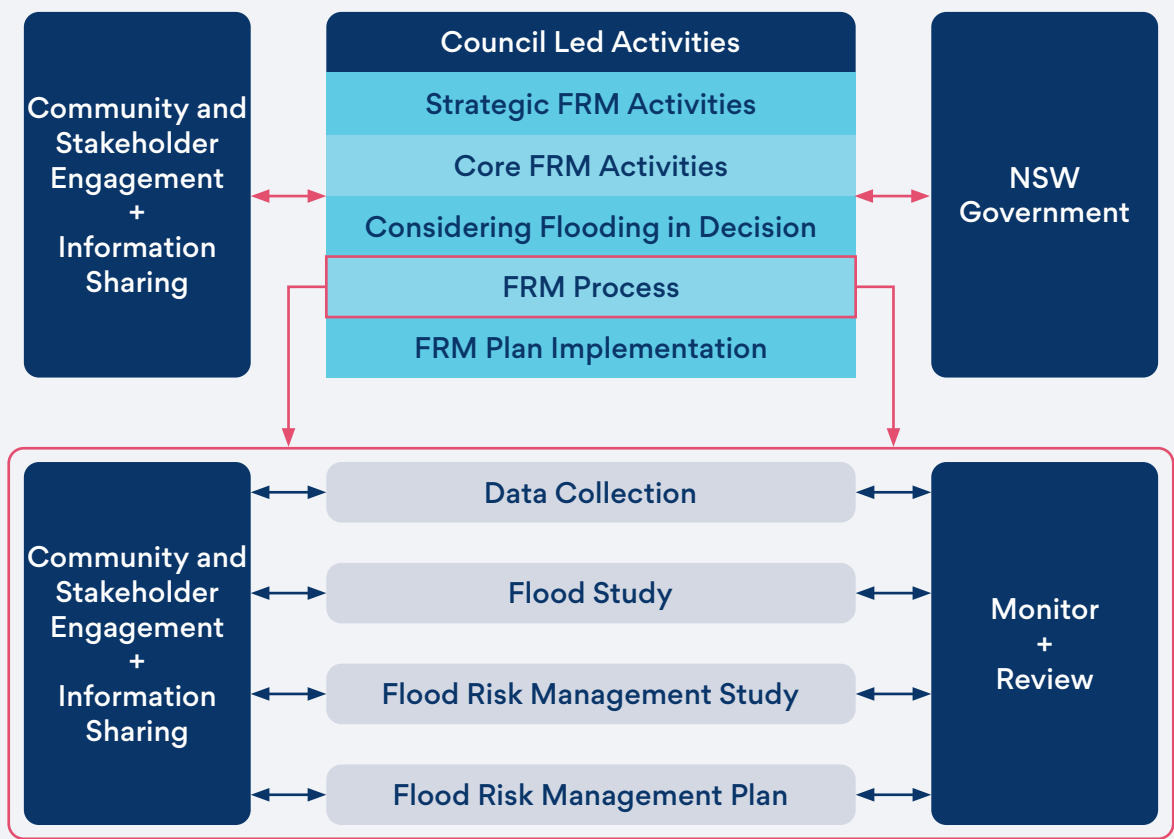


Figure 06. NSW Governments flood risk management framework and process.
Source: NSW Government Flood Risk Management Manual, 2023.

Flood Studies and Flood Risk Management Studies and Plans are not “one and done” solutions. Our environment is consistently changing - driven by many factors such as increased urbanization, climate change, and increasing rainfall patterns.

It is important to make sure that old Flood Studies and Flood Risk Management Studies and Plans are periodically reviewed and updated to make sure our flood risk management strategies meet the needs of our changing environment.

Flood Awareness Campaign

Flood awareness campaigns are designed to educate and inform the community about flood risks, preparedness and response strategies. These programs may partner with NSW State Emergency Services (SES) through public workshops, distribution of informative material, and engagement through social media and local events.

Through these programs, Council aims to enhance community resilience, minimise the impact of floods on life and property and foster a culture of preparedness that can significantly benefit Sutherland Shire holistically.

Overland Flow Flood Studies

Overland flow flooding in urbanised catchments occurs when intense rainfall exceeds the capacity of in-ground stormwater networks ability to handle the volume of stormwater. Stormwater follows natural topography creating flow paths that can result in localised flooding. Overland Flow Flood Studies model this phenomenon to identify overland flow flood risk in urban and developing catchments.

To help protect our community, Council aims to have completed overland flood studies for all urban catchments of Sutherland Shire. Smaller communities that were not included in previous flood studies will be assessed and incorporated into broader catchment-based Flood Risk Management Studies and Plans. This inclusion will provide these communities with the necessary flood information enabling them to take proactive measures to mitigate flood impact.

Riverine Flood Studies

Riverine flooding occurs when rivers and streams exceed the capacity of their natural or constructed channels causing water to overflow the banks and spill into adjacent low-lying areas. This type of flooding can result from heavy rainfall and can persist for days depending on the terrain.

During major storm events, significant riverine flooding may occur in the Woronora River Valley resulting in some properties experiencing above-floor flooding.

Similarly to managing overland flow, Council prepares Riverine Flood Studies to define flood risk and subsequent Flood Risk Management Studies and Plans to mitigate the risk and consequences of flooding to the community.

A Riverine Flood Study is required for the Woronora River, Georges River and Hacking River/Port Hacking.

Overland and Riverine Flood Risk Management Studies and Plans

Overland and Riverine Flood Risk Management Studies and Plans are comprehensive approaches to understanding and mitigating flood risk. These studies and plans are informed by completed flood studies.

Implementation of the flood mitigation measures identified in these studies and plans is dependent on the availability of state government grant funding. These Studies and Plans can take multiple years to develop - assessing potential risks to life and property, enhancing community awareness and identifying options to prevent, mitigate, manage, and respond to flood events.

We aim to identify overland flow and riverine flood risks in all urban and developing catchments within Sutherland Shire.

Flood Risk Management Studies and Plans are required for all completed overland and riverine flood studies. Smaller communities without flood studies will be included in broader Flood Risk Management Studies and Plans that cover their respective catchment areas.

Development Control Plan Chapter 40: Environmental Risk – Part C Flood Risk Management

Council's [Development Control Plan](#) (DCP) guides land use and development in a way that minimises the risk and impact of flooding on people, property, and the environment. It sets out planning principles and controls that ensure new developments are located, designed, and constructed to avoid, mitigate or manage flood hazards. This includes specifying controls for flood-prone areas such as setting minimum floor levels and requiring flood impact assessments for certain types of development.

The DCP helps integrate flood risk considerations into the broader planning process, promoting safer and more resilient communities.

Reviewing and updating the DCP every decade is crucial because flood risks evolve over time due to factors like climate change, urban expansion, and changes in catchment hydrology. More frequent intense rainfall events, rising sea levels, and increased impervious surfaces can all alter flood behaviour making older flood planning controls outdated or insufficient.

Flood Risk Management Technical Specification

Council currently does not have a Flood Risk Management Technical Specification.

When developed, the Flood Management Technical Specification will supplement the Development Control Plan by providing the detailed engineering and design standards necessary to implement the DCP's objectives and controls for flood risk management.

While the DCP sets out the overarching policy framework (such as identifying flood-prone land, setting minimum floor levels, and requiring flood impact assessments), the technical specification translates these policies into practical requirements. It includes precise methodologies for flood modelling, design flood levels, freeboard allowances, drainage infrastructure standards, and construction details for flood mitigation measures.

Implementation of a flood risk management technical specification will ensure that developments are not only compliant with planning principles but also technically sound and resilient to flood hazards.

Review and Monitor

Flood modelling is constantly evolving with changes to urban geographical features, stormwater infrastructure and advancements in science and technology. As such, flood risk studies should be reviewed periodically to ensure that the implementation recommendations remain effective in managing flood risk.

Flood risk studies should be reviewed after major flood events to assess if the predicted flood extents were accurate and whether the implemented recommendations managed the flood risk effectively.

FloodSmart – Flood Information Made Accessible

Council provides two key avenues for accessing flood risk information.

1. Online flood mapping – via [Shire Maps](#), which visually identifies areas of known flood risk across Sutherland Shire. These interactive maps allow residents, developers, and planners to quickly determine whether a property is within a known flood extent.
2. The second is [Flood information Certificates](#), which provide property-specific details such as predicted flood levels, minimum floor height requirements, hazard ratings, and other relevant flood risk information. These certificates are often used during property transactions and development applications to ensure informed decision-making.

To make this information more accessible and user-friendly, this project proposes to modernise the presentation and delivery of flood risk information. The project aims to create a transparent, intuitive system that empowers residents to easily access and interpret flood risk information without requiring technical expertise.



Protecting waterways to sustain healthy ecosystems and communities.

FOCUS AREA 03

WATERWAYS MANAGEMENT

‘We aim to safeguard and enrich our natural waterways, while educating future generations on the vital importance of maintaining their health and biodiversity’

Clean and safe waterways provide vibrant habitats for fauna and flora and are critical for sustaining biodiversity in Sutherland Shire. As Sutherland Shire’s population grows demands for public amenity and accessibility along our waterways will increase, making our natural waterways more vulnerable.

Sustainable and effective waterways management is crucial for both the community and the environment. Effective management helps to mitigate bank erosion, protect water quality, and maintain the natural beauty of waterways whilst enhancing the quality of life for residents. By prioritising waterways management, communities can safeguard their environment, reduce the impact of urbanisation, and promote a balanced coexistence between human activities and nature.

What Is Under Council’s Control: Council can develop programs and undertake work in upstream catchments and along the banks of some watercourses. Council stewardship of waterways extends to the Mean High-Water

Mark. Council may need additional approval from varying state organisations for any works proposed within key fish habitats, aquatic reserves, coastal wetlands, littoral rainforests and other sensitive ecosystems.

As part of development assessment, Council considers solutions to manage risk and protect the environment along the foreshore and within waterways.

What is Not Under Council’s Control:

Waterways at or below the Mean High-Water Mark are the jurisdiction of the relevant State or Federal government agency. Council may carry out works in these areas on their behalf, subject to approval and funding from the relevant agency.

In some cases, Council provides recommendations to the NSW government for land rezoning. It is important that Council considers the health of the waterways as a key factor in its decision-making. Council’s re-zoning recommendations must consider and protect the waterways.

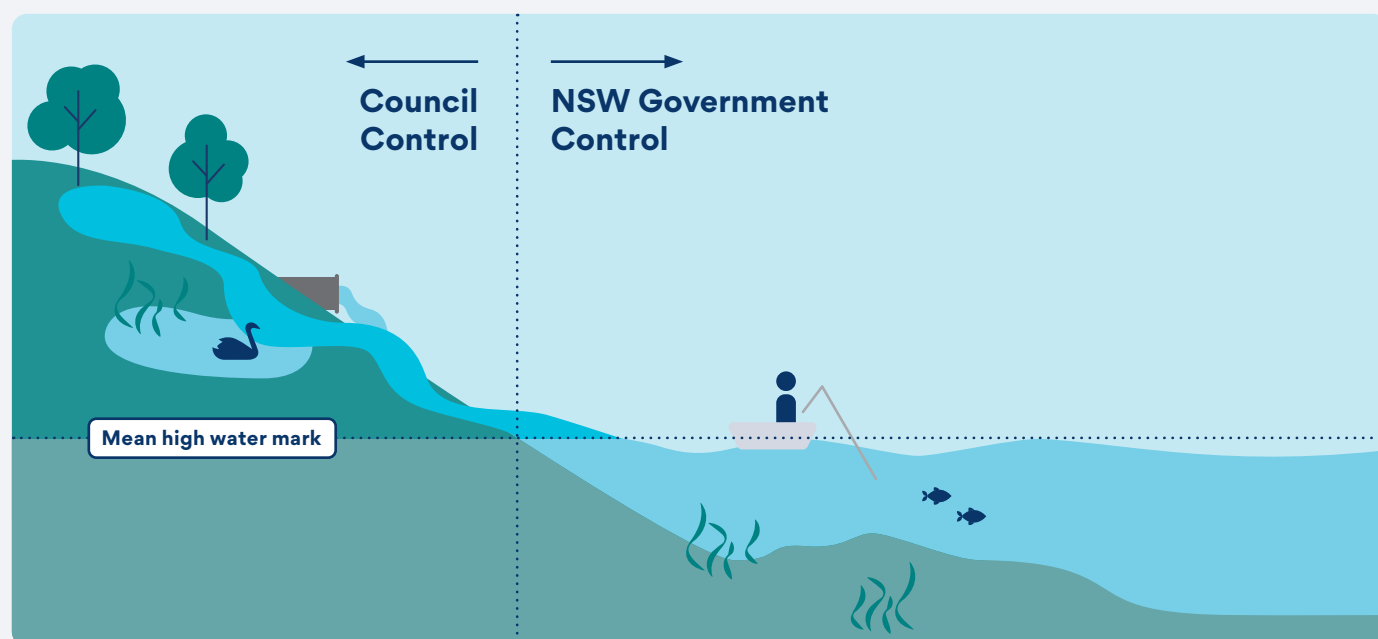


Figure 07. Not all waterways are under Councils control or care. Typically, NSW Government have care and control for water-bodies below the mean high tide water mark.

Dredging Assessment and Prioritisation Plan

A Dredging Assessment and Prioritisation Plan is a strategic framework designed to guide the systematic removal of sediment and debris from Sutherland Shire's waterways to ensure navigational safety and the functioning of infrastructure.

Stage 1: Identify locations within Sutherland Shire's waterways that require dredging – informed by community consultation.

Stage 2: Prioritise the identified locations using risk-based analysis and assessment. Further stages will be prioritised in line with Stage 2's findings.

Stage 3: Develop independent dredging management plans for the prioritised waterways. This document will support funding applications to the NSW Government for dredging works in waterways not owned by Council.

NOTE: Council will continue to apply for grant funding prior to the completion of Stage 3 - where appropriate. This prioritisation plan aims to justify Council's dredging needs using risk based practices.

Stage 4: Conduct periodic surveys of the waterway post-dredging to monitor siltation movement and identify trigger points for further dredging activities

Dredging poses significant environmental risks and must be carefully considered to ensure sensitive areas such as White's Seahorse habitats and Posidonia seagrasses are not disturbed.

All dredging must be completed in accordance with Council's Dredging Policy.

Council's Dredging Policy

Outlines the principles and responsibilities for dredging of waterways within Sutherland Shire. The responsibility for dredging (including funding) rests solely with the NSW Government where it owns the bed of the waterway. Council may undertake dredging works on behalf of the NSW Government.

Wetland Management Plan

Sutherland Shire is home to both constructed and natural wetlands.

Constructed Wetlands are engineered systems designed to mimic the functions of natural wetlands. They are created to treat stormwater runoff by utilising natural processes involving wetland vegetation, soil and microbial communities. These wetlands help remove pollutants, improve water quality, and can also provide habitat for wildlife.

Natural Wetlands are ecosystems that are either permanently or seasonally saturated with water, creating unique habitats for a variety of aquatic plants and animals. These wetlands play a crucial role in maintaining biodiversity, regulating water flow and improving water quality by trapping sediments and nutrients. In Sutherland Shire, some of these wetlands are threatened ecosystems – such as Sydney Freshwater Wetlands.

The Wetland Management Plan is a strategic document designed to guide the conservation, restoration, maintenance and sustainable use of Sutherland Shire's constructed and natural wetlands. It outlines specific goals, objectives, actions and maintenance schedules required to protect wetland ecosystems.

In the past, individual management plans have been developed for some of Sutherland Shire's wetlands. These will be reviewed and incorporated into this Wetland Management Plan which will oversee all wetlands in Sutherland Shire.



Sand dredged from Port Hacking being dropped offshore of Cronulla Beach.

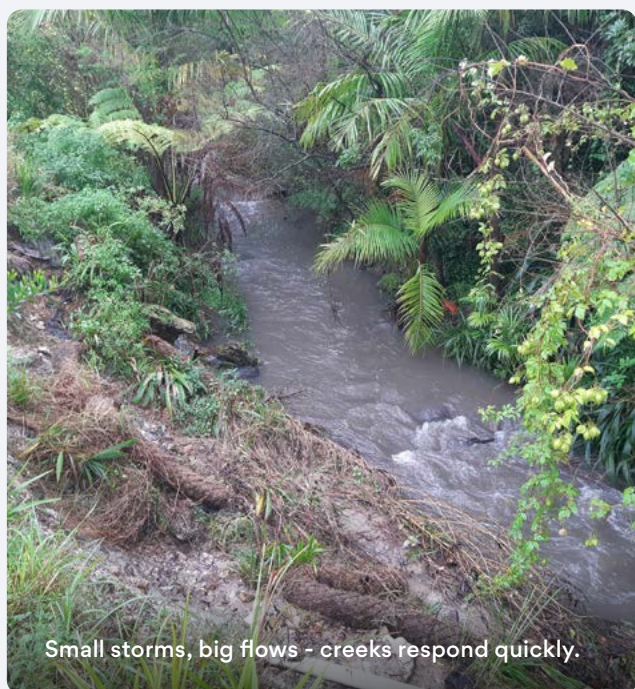
Watercourse Assessment and Rehabilitation Prioritisation

Sutherland Shire's creeks and wetlands are home to endangered ecological communities. Riparian corridors are impacted by erosion, weed infestation and pollution – issues that are further exacerbated by urbanisation.

To address these issues, Council's Watercourse Assessment and Rehabilitation Prioritisation Study outlines actions to be implemented through the Waterways Rehabilitation Program. This program receives financial assistance from both the NSW and Commonwealth Governments.

The Study was completed in 2012 with most rectification works being implemented across Sutherland Shire. A review of this study is proposed to determine which recommendations still need to be implemented, to assess completed works, and identify areas for further rehabilitation activities.

In 2025 the NSW Department of Primary Industries and Regional Development – Fisheries undertook the [Georges River Estuary NEAP Bank Erosion and Riparian Condition Assessment Report](#). The data and analyses from this study will guide future management actions aimed at enhancing bank stability, and the condition of riparian vegetation.



Small storms, big flows – creeks respond quickly.

Clean Catchments Program

The cleanliness and health of the waterways are vitally important to sustain biodiversity in Sutherland Shire. Our urban catchments suffer from increases in sediment, nutrients (such as nitrogen and phosphorous), metals and rubbish - which reduce biological diversity and habitat complexity.

The Clean Catchments Program is an initiative aimed at improving the health and quality of waterways by managing runoff in upstream catchments.

Currently Council prevents approximately 1,010 tonnes of litter and debris per year from entering our waterways through our stormwater quality improvement devices. This program focuses on increasing Council's capacity to trap litter, sediment and debris by improving management and implementation of stormwater quality improvement devices in key areas to filter and trap pollutants before they can enter larger water bodies.

The Department of Planning, Industry and Environment (DPIE) has set two ambitious litter reduction targets in the NSW Waste and Sustainable Materials Strategy 2041. These targets are:

1. Reduce all plastics litter items by 30% by 2025, and
2. Reduce all litter items by 60% by 2030.

The EPA's NSW Litter Prevention Strategy and the Georges Riverkeeper's Litter Prevention Strategy have adopted DIPE's targets to reduce litter and plastic pollution by 60% by 2030.

Community consultation indicates that one of the biggest concerns residents have about our catchments and waterways is reduced biodiversity and poor water quality. Both concerns are heavily impacted by litter.

Council aims to adopt NSW's litter reduction target and expand them to represent the community's desires for Sutherland Shire's catchments and waterways.

Targets of Clean Catchments Program

1. Achieve 60% gross pollutant annual reduction from all urbanised catchments by 2030
2. Achieve 90% gross pollutant annual reduction from all high pollutant catchments by 2035
3. ≥90% scheduled maintenance schedule met (ongoing)

‘Gross Pollutants’ refer to any litter or debris larger than 5mm.

The program will be delivered across all catchments through two projects:

- Georges River Catchments (including Woronora and Botany Bay Catchments)
- Port Hacking Catchments (including Hacking River and Pacific Ocean Catchments)

Each catchment will have tailored infrastructure strategies based on land use, pollutant profiles, and community needs.

The Clean Catchments program will be staged as follows:

Stage 1: Baseline Assessment

- Map existing stormwater quality improvement devices and pollutant hotspots.
- Quantify current pollutant loads and litter volumes.
- Identify sub-catchments requiring Stormwater quality improvement device investments.

Stage 2: Infrastructure Planning and Community Engagement

- Audit existing maintenance methodologies and strategy to identify shortcomings.
- Determine recommendations to improve Councils infrastructure management to meet the programs targets
- Prioritise high-pollution sub-catchments for stormwater quality improvement device upgrades, renewals and new infrastructure.
- Launch ‘Zero Litter to Ocean’ campaign in parallel.

Stage 3: Infrastructure Delivery and Monitoring

- Install/upgrade stormwater quality improvement devices. New instantiations and upgrades will occur as part of Councils Capital Works Program.
- Implement smart monitoring systems – such as yearly report card.
- Track pollutant capture and maintenance compliance.

The Clean Catchments Program will also help improve Beachwatch water quality results by reducing the amount of litter, sediment, and pollutants that flow into our rivers and coastal areas. By installing and upgrading stormwater quality improvement devices in key upstream locations, we can capture contaminants before they reach beaches and swimming spots. Cleaner catchments mean fewer bacteria and nutrient spikes, which often lead to poor Beachwatch ratings.

This holistic approach to increase Council’s capacity to trap litter and debris, while also decreasing the amount of pollution being generated, ensures that both technological solutions and community involvement work together to create a sustainable and healthy environment for future generations.



There is no “one size fits all” solution to keeping our waterways healthy. Floating wetlands are one way we remove pollutants in our waterways.

Zero Litter to Ocean Campaign

While the Clean Catchments Program aims to increase Council's capacity to trap litter and debris, the Zero Litter to Ocean Campaign aims to educate the community about catchment management to decrease the amount of pollution being discharged to our waterways.

It is important to remember that Council is not wholly responsible for pollution in our waterways. Developers, businesses, visitors and residents of Sutherland Shire share responsibility in reducing litter and pollution to our waterways.

The Zero Litter to Ocean Campaign includes community education actions to raise awareness about the importance of pollution prevention and encourage responsible behaviours. Public workshops, education campaigns, informative videos and school programs may form key components of this initiative to foster a sense of stewardship among our community. By engaging the community, the program addresses immediate pollution issues and builds long-term resilience and commitment to protecting waterways.

Strategic Water Monitoring Program

Council monitors the health of our catchments through our [Strategic Water Monitoring Program](#) (SWaMP), which tests water quality based on biological, physical and chemical components.

An [annual report card](#) outlining the overall condition of our main testing sites informs implementation strategies and plans, providing an insight into the effectiveness of actions carried out in the previous year.

Implementation strategies may be adjusted and changed following a review of SWaMP findings.



Through collective action, we can break the cycle for cleaner catchments from streets to sea.



Managing change to keep our beaches
safe and accessible.

FOCUS AREA 04

COASTAL MANAGEMENT

‘We aim to protect and enhance the unique coastal environments of Sutherland Shire through innovative management practices, community engagement and scientific research for future generations and the diverse wildlife that depend on these habitats’

The coastal environment must be managed to deliver on community expectation and preserve the health and stability of ecosystems that thrive in coastal areas. These regions are home to diverse species and habitats, including mangroves, reefs, and estuaries. Effective management practices help protect these habitats from pollution and habitat destruction. Coastal ecosystems also provide vital actions such as water filtration, carbon sequestration, and storm protection which benefit both environmental health and community well-being.

Sustainable coastal management addresses significant human and community challenges, such as coastal erosion and the impacts of

climate change. Coastal erosion, driven by natural processes and human activities, can lead to the loss of valuable land and infrastructure, threatening homes, businesses, and recreational areas. Implementing coastal management strategies protects our community from the adverse effects of erosion and sea level rise.

Council encourages resilient development that withstands coastal environmental hazards, and protects our unique marine environments.

Engaging the community and stakeholders in coastal management efforts fosters a sense of stewardship and resilience to ensure that coastal areas remain vibrant and sustainable for years to come.



Responding to nature's forces, planning for the future, and a lasting commitment to coastal resilience.

Coastal Management Programs

NSW Government's [coastal management framework](#) aims to achieve a healthy and resilient coastline. This framework is implemented through Coastal Management Programs (CMP) prepared by local councils. CMPs set long-term, coordinated and sustainable management directions to better equip coastal communities to respond to existing and future coastal risks and challenges.

These Programs are a legislative requirement of the NSW Government and are eligible for financial assistance through the Coastal and Estuary Grants Program.

CMPs follow a staged framework which mirrors Council's risk management approach:

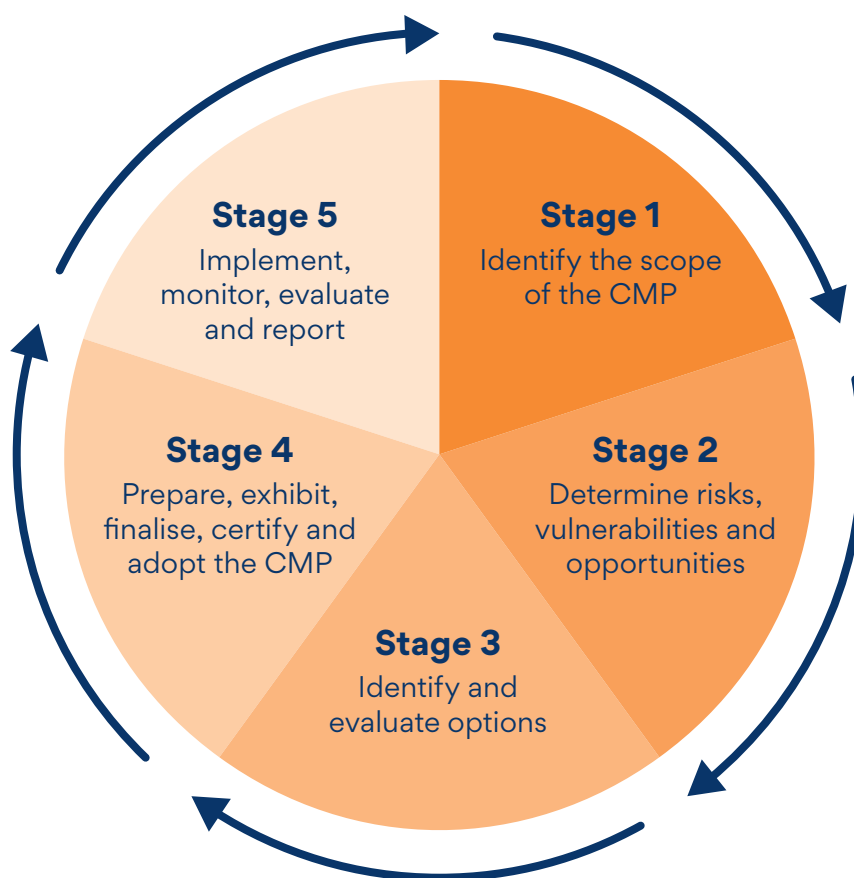


Figure 08. NSW Government process for preparing and implementing coastal management programs.

Coastal Management Programs are to be prepared and implemented for Sutherland Shire's three major coastal waterbodies:

- Georges River
- Bate Bay
- Port Hacking

The Georges River CMP is being prepared by Georges Riverkeeper with financial assistance

from Sutherland Shire Council.

The [Bate Bay CMP](#) was gazetted in 2025 and lays out further coastal management actions to be implemented. Several of these actions form part of the Catchment and Waterways Strategy.

Development of the Port Hacking CMP is proposed to commence in the 2025/2026 financial year.



Working together to safeguard dunes, beaches, and coastal habitats.

Bate Bay CMP actions

A **Beach Nourishment Campaign** will investigate alternative sand sources and opportunities for beach nourishment. Council will engage with relevant agencies to investigate the potential to increase the frequency and/or volume of sand generated through dredging of Port Hacking (and/or other sources), subject to consideration of navigation, environmental and other factors.

A **Dune Maintenance Plan** has been developed in 2025 and aims to protect, restore, and sustainably manage sand dune systems across Bate Bay. Key components typically include assessing dune health and erosion risks, redistributing sand, implementing vegetation restoration (often using native species), maintaining pedestrian access and monitoring changes over time. The plan may also incorporate community education and engagement to promote stewardship.

Inspection and maintenance of back-beach stormwater outlets, inlet pits, and infiltration devices to prevent blockages minimise localised beach erosion and reduce water quality impacts. This action item will be addressed under the Maintenance 'Hot Spot' Register outlined in Focus Area 1 – Stormwater Management.

Sea Level Rise

Sea level rise is the increasing levels of the world's oceans due to factors such as climate change and the thermal expansion of seawater. As sea levels rise, coastal communities face challenges including increased flooding, erosion, and habitat loss for wildlife. Understanding and planning for sea level rise is crucial for protecting our coastal communities.

In 2011 Council completed the Sea Level Rise Risk Assessment study of potential impacts of a changing climate on coastal and catchment flooding. A 2014 Planning Circular from the NSW Government required councils to address the issue of coastal hazards in Section 149 Planning Certificates. Sea level rise is one of the key coastal hazards to be considered.

Council adopted a Sea Level Rise policy in 2016 to quantify sea level rise and outline values to be used to ensure coastal development is resistant to challenges imposed by sea level rise. This Policy was revised in 2025 based on a 4-year cycle benchmarked to the latest climate change and sea level rise projections and advice from state, federal and international agencies. It may be reviewed and updated to comply with NSW legislation.

Current adaptation actions by Council include development controls to mitigate the potential impact of sea level rise and preparation of a resilience strategy. Further research both nationally and internationally will guide future resilience and adaptation strategies.



Turning strategy into action—delivering projects that protect our waterways.

IMPLEMENTATION PLAN

This implementation plan is a comprehensive roadmap for delivering the strategic actions identified in the focus areas to achieve our targets. This plan outlines the timelines and responsibilities required to achieve our desired outcomes.

Delivering the strategy

Integration

This Strategy will be integrated into Council’s four-year Delivery Program and annual Operational Plans, supporting our delivery of Sutherland Shire’s Community Strategic Plan.

Implementation

The delivery of the Strategy will be guided by the Implementation Plan included within the document. The Implementation Plan sets out a program of actions aligned with each Focus Area and identifies timeframes, required resources and responsibilities.

Evaluation

Our targets have been carefully selected to ensure they are measurable. Each plan and project outlined in our focus areas contributes to our targets.

Data will be collected throughout the implementation of each program. Ongoing monitoring and evaluation will ensure effective delivery using a range of methods to measure the Strategy’s outcomes and impacts.

An annual evaluation report will be completed each year to ensure we remain on track to achieving our 2030 and 2035 targets.

Reporting

Council’s progress in delivering the Strategy will be reported as part of our regular performance reporting cycle. We will report on the Strategy’s delivery in the following ways:

- Annual Evaluation Report to the Catchment and Waterways Reference Group.
- Periodic communications via social media and the Our Shire newsletter when relevant.
- Major Review in 2030/31.

Resourcing

Many of the actions will not require additional funding and will be included as part of our everyday work, this may include reviewing the way we work and looking at how existing resources are being utilised. These actions may be included in Council’s Delivery Program and Operational Plan.

Some actions will require additional funding, and these actions will be considered as part of Council’s annual budget and planning process. Council may seek external funding or partner with other agencies to help us deliver the actions in this Strategy.



Figure 09. Delivering the strategy through the four components of integration, implementation, evaluation, and reporting. All four components are underpinned by the fifth component, resourcing.

Implementation Plan

The projects, programs, plans, studies and campaigns outlined in this strategy were prioritised using a weighted decision matrix to determine which projects would have the greatest benefits in addressing the concerns raised by the community through community engagement surveys and the Catchment and Waterways Community Reference Group.

Ranking	Project	Focus Area
1	Clean Catchments Program	Waterways Management
2	Stormwater Specification	Stormwater Management
3	Overland Flow Flood Studies/ Risk Management Studies and Plans	Flood Risk Management
4	Stormwater Maintenance Optimisation	Stormwater Management
5	Street Sweeping Review	Stormwater Management
6	DCP Chapter 38	Stormwater Management
7	Riverine Flood Risk Management Studies and Plans	Flood Risk Management
8	Coastal Management Program	Coastal Management
9	Zero Litter to Ocean Campaign	Waterways Management
10	Wetland Management Plan	Waterways Management
11	Stormwater Asset Management Plan	Stormwater Management
12	FloodSmart – Flood Information Made Accessible	Flood Risk Management
13	Potential Works Register	Stormwater Management
14	Watercourse Assessment and Rehabilitation Prioritisation Implementation	Waterways Management
15	Dredging Assessment and Prioritisation Plan	Waterways Management
16	Beach Nourishment and Dune Management	Coastal Management
17	Strategic Water Monitoring Program	Waterways Management
18	DCP Chapter 40 - Part C	Flood Risk Management
19	Flood Risk Management Technical Specification	Flood Risk Management
20	CCTV Investigation	Stormwater Management
21	Maintenance of 'Hot Spot' Assets	Stormwater Management
22	Flood Awareness Programs	Flood Risk Management
23	Stormwater Outlet Maintenance Program	Stormwater Management
24	Coastal Outlet Maintenance	Coastal Management
25	Dredging Policy	Waterways Management
26	Sea Level Rise Policy	Coastal Management

In some cases (such as substantial risk, complexity, Council Resolution, or NSW Guidelines) projects with a lower priority may be scheduled for completion before higher priority works. This is most evident in projects that address Focus Area 2: Flood Risk Management – where Council has legislated requirements to undertake flood studies and flood risk management studies and plans.

Implementation Plan overview

The table below outlines when each project will be delivered across the Shire.
Further information is provided in the focus area action tables.

Sutherland Shire									
Catchment	Georges River (including Botany Bay)					Port Hacking			Pacific Ocean
Sub Catchment	All other sub catchments	Gwawley Bay	Woolooware Bay	Kurnell	Woronora River	Hacking River	All other sub catchments	Bundeena	
Overland Flow Flood Studies	✗ In Progress (2023-2027)	✓	✓	✓	✗ In Progress (2023-2027)	✗	✗ In Progress (2023 - 2027)	✓	✗ (2029-2030)
Overland Flood Risk Management Studies and Plans	✗ (2030-2032)	✗ (2031-2033)		✗ In Progress (2026 - 2028)	✗ (2032- 2033)	✗ (2028-2030)			✗ (2034-2035)
Riverine Flood Studies	✓ (2030-2032)				✓ In Progress (2026 - 2028)	✗ (2028 - 2029)			
Riverine Flood Risk Management Studies and Plans	✓ (2033-2035)				✗ (2029-2031)	✗ (2031-2033)			
DCP Chapter 40 Part C: Flood Risk Management	✓ (2026)								
Flood Risk Management Technical Manual	✗ (2034)								
Flood Awareness Program	✗ (2029)								
FloodSmart - Flood Information Made Accessible	✗ (2028)								
Coastal Management Program	✓ Georges Riverkeeper (2026-2030)					✗ (2026 - 2032)			✓
Dune Maintenance									✓ Ongoing
Beach Nourishment Campaign									✗ (2029-2031)
Coastal Outlet Maintenance Program									✓ Ongoing
Sea Level Rise Policy	✓ (2025)								
Clean Catchments Program	✗ (2027-2030)					✗ (2027-2030)			
Dredging Assessment and Prioritisation Plan	✗ (2032-2035)								
Wetland Management Plan	✗ (2031-2032)								
Watercourse Assessment and Rehabilitation Plan	✗ (2032 - 2034)								
Strategic Water Monitoring Program	✓ Ongoing								
Zero Litter to Ocean Campaign	✗ (2028)								
Dredging Policy	✓ (2027)								
Street Sweeping Review	✗ (2028-2030)					✗ (2028-2031)			
Stormwater Asset Management Plan	✓ (2027)								
Stormwater Management Specifications	✓ (2026)								
DCP Chapter 38: Stormwater and Groundwater Management	✓ (2026)								
Proactive CCTV Program	✓ Ongoing								
‘Hot Spot’ Maintenance Register	✓ Ongoing								
Stormwater Maintenance Optimisation	✗ (2027-2028)								
Stormwater Outlet Maintenance Program	✗ (2026) Ongoing								

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Stormwater Management Actions

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
1	Proactive Stormwater CCTV Program	Conduct annual CCTV inspections of high-risk stormwater assets to inform renewals	Lead: Assets Strategy and Delivery Collaboration: Civil Works and Presentation	FUNDED										✓
2	Potential Works Register	Maintain register of community-identified sites and prioritise works in line with asset plan	Lead: Assets Strategy and Delivery Collaboration: Civil Works and Presentation	FUNDED										✓
3	'Hot Spot' Maintenance Register	Maintain register of sensitive assets and schedule targeted inspections and maintenance	Lead: Civil Works and Presentation Collaboration: Assets Strategy and Delivery	FUNDED										✓
4	Stormwater Maintenance Optimisation Stage 1	Undertake an audit of Council's existing stormwater maintenance strategy to identify gaps, risks, and inefficiencies	Lead: Assets Strategy and Deliver Collaboration: Civil Works and Presentation	FUNDED		✓								
5	Stormwater Maintenance Optimisation Stage 2	Develop and prioritise risk-based improvement options to optimise Council's stormwater maintenance strategy and operations. Including development of a framework to track performance against meaningful KPIs	Lead: Assets Strategy and Deliver Collaboration: Civil Works and Presentation	FUNDED			✓							
6	Stormwater Maintenance Optimisation Stage 3	Review Council's service level agreement against the developed performance framework to refine Council's stormwater maintenance strategy	Lead: Assets Strategy and Deliver Collaboration: Civil Works and Presentation	FUNDED				✓		✓		✓		

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
7	Street Sweeping Review: Stage 1 Georges River Catchments (including Woronora River, Waterfall and Botany Bay catchments)	Undertake street sweeping audit in Georges River catchments to identify sweeping coverage and frequency	Lead: Recycling and Waste Collaboration: Civil Works and Presentation Assets Strategy and Delivery Parks and Natural Areas Environment and Regulation	FUNDED			✓							
8	Street Sweeping Review: Stage 1 Port Hacking Catchments (including Hacking River, Bundeena and Pacific Ocean catchments)	Undertake street sweeping audit in Port Hacking and Pacific Ocean catchments to identify sweeping coverage and frequency	Lead: Recycling and Waste Collaboration: Civil Works and Presentation Assets Strategy and Delivery Parks and Natural Areas Environment and Regulation	FUNDED			✓							
9	Street Sweeping Review: Stage 2 Georges River Catchments (including Woronora River, Waterfall and Botany Bay catchments)	Undertake analysis to determine and implement sweeping improvements in Georges River catchments	Lead: Recycling and Waste Collaboration: Civil Works and Presentation Assets Strategy and Delivery Parks and Natural Areas Environment and Regulation					✓						
10	Street Sweeping Review: Stage 2 Port Hacking Catchments (including Hacking River, Bundeena and Pacific Ocean catchments)	Undertake analysis to determine and implement sweeping improvements in Port Hacking and Pacific Ocean catchments	Lead: Recycling and Waste Collaboration: Civil Works and Presentation Assets Strategy and Delivery Parks and Natural Areas Environment and Regulation						✓					
11	Stormwater Asset Management Plan	Review and update the Stormwater asset management plan to set renewal priorities and align budgets to risk needs	Lead: Assets Strategy and Delivery Collaboration: Civil Works and Presentation	FUNDED		✓		✓			✓			
12	Development Control Plan CH38: Stormwater and Groundwater Management	Update DCP Chapter 38 to align with Australian Standards and industry best practice	Lead: Urban Futures Collaboration: Assets Strategy and Delivery Development Services	FUNDED	✓								✓	
13	Stormwater Management Specification	Update stormwater technical specifications to align with Australian Standards, best practice and DCP objectives	Lead: Urban Futures Collaboration: Assets Strategy and Delivery Development Services	FUNDED	✓								✓	
14	Stormwater Outlet Maintenance Program	Renew Stormwater Outlet Maintenance Program Code of Practice with DPIRD Fisheries to ensure continued maintenance of coastal stormwater infrastructure	Lead: Assets Strategy and Delivery Collaboration: Civil Works and Presentation DPIRD Fisheries	FUNDED	✓				✓				✓	

02

Flood Risk Management Actions

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
1	Flood Awareness Programs	Deliver community education on flood risk and preparedness	Lead: Assets Strategy and Delivery Collaboration: Customer and Engagement				✓			✓		✓		
2	FloodSmart - Flood Information Made Accessible	Modernise flood information delivery through online maps and property certificates	Lead: Assets Strategy and Delivery Collaboration: Development Services Information Management and Technology Customer and Engagement			✓								
3	Development Control Plan CH40: Environmental Risk Part C Flood Risk Management	Review and Update DCP Chapter 40 to align with latest Australian Rainfall and Runoff guidelines and industry best practice	Lead: Urban Futures Collaboration: Assets Strategy and Delivery Development Assessment	FUNDED	✓								✓	
4	Flood Risk Management Technical Specification	Develop technical manual for flood modelling, design standards and mitigation work that align with flood management controls outlined in DCP chapter 40	Lead: Urban Futures Collaboration: Assets Strategy and Delivery Development Services									✓		
OVERLAND FLOW FLOOD STUDIES														
5	Sutherland Shire Overland Flow - Flood Study	Complete the Sutherland Shire Overland Flow Flood Study	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW	FUNDED	✓	✓								
6	Pacific Ocean Catchment Overland Flow - Flood Study	Complete overland flow flood study for the Pacific Ocean catchment	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW				✓	✓						

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
RIVERINE FLOOD STUDIES														
7	Woronora Riverine Flood Study	Complete riverine flood study for Woronora River	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW	FUNDED	✓	✓	✓							
8	Georges Riverine Flood Study (including Botany Bay)	Assist Georges Riverkeeper in preparing the riverine flood study for the Georges River	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW Georges River Keeper				✓	✓	✓	✓				
9	Port Hacking Riverine Flood Study (including Hacking River)	Prepare riverine flood study for Port Hacking catchment	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW			✓	✓							
OVERLAND FLOW FLOOD RISK MANAGEMENT STUDY AND PLAN														
10	Kurnell Flood Risk Management Study and Plan	Develop FRMS&P for Kurnell to identify mitigation options	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW	FUNDED	✓	✓	✓							
11	Botany Bay Catchment Overland Flow Flood Study Risk Study and Plan	Prepare flood risk management studies and plans for Botany Bay sub-catchments	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW						✓	✓	✓			
12	Georges River Overland Flow Flood Risk Management Study and Plan (including Sandy Point, Kangaroo Point and Gwawley Bay)	Prepare flood risk management studies and plans for Georges River sub-catchments within Sutherland Shire	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW					✓	✓	✓				
13	Port Hacking Overland Flow Flood Risk Management Study and Plan (including Hacking River, Bundeena and Maianbar sub-catchments)	Prepare flood risk management studies and plans for Port Hacking sub-catchments	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW			✓	✓	✓						

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
14	Woronora Overland Flow Flood Risk Management Study and Plan (including Waterfall)	Prepare flood risk management studies and plans for Woronora sub-catchments	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW							✓	✓			
15	Pacific Ocean Overland Flow Flood Risk Management Study and Plan (including Waterfall)	Prepare flood risk management studies and plans for Pacific Ocean sub-catchments	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW									✓	✓	
RIVERINE FLOOD RISK MANAGEMENT STUDY AND PLAN														
16	Woronora Riverine Flood Risk Management Study and Plan	Complete flood risk management study and plan for Woronora riverine flooding to identify priority mitigation works	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW				✓	✓	✓					
17	Georges Riverine Flood Risk Management Study and Plan (including Botany Bay)	Assist the Georges River Keeper in progressing the flood risk management study and plan for Woronora riverine flooding to identify priority mitigation works	Lead: Assets Strategy and Delivery Collaboration: Asset Strategy and Delivery Urban Futures Customer and Engagement DCCEEW Georges Riverkeeper								✓	✓	✓	
18	Port Hacking Riverine Flood Risk Management Study and Plan (including Hacking River)	Complete flood risk management study and plan for Port Hacking riverine flooding to identify priority mitigation works	Lead: Assets Strategy and Delivery Collaboration: Urban Futures Customer and Engagement DCCEEW						✓	✓	✓			

03

Waterways Management Actions

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
1	General	All development reviewed by Council along the foreshore, creek banks and within waterways must consider and protect the ecological, scenic, and recreational values of waterways	Lead: Development Assessment Collaboration: Environment and Regulation Urban Futures	FUNDED										✓
2	General	All land rezoning proposals – regardless of location within the catchment - are to consider and protect the ecological, scenic, and recreational values of waterways	Lead: Urban Futures Collaboration: Environment and Regulation Development Assessment	FUNDED										✓
3	Dredging Policy	Review and update dredging policy clarifying responsibilities and safeguards	Lead: Assets Strategy and Delivery Collaboration: Customer and Engagement	FUNDED		✓			✓				✓	
4	Dredging Assessment and Prioritisation Plan: Stage 1	Identify candidate dredging sites through technical assessment and community input	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Customer and Engagement TfNSW - Maritime							✓				
5	Dredging Assessment and Prioritisation Plan: Stage 2	Apply risk-based criteria to prioritise dredging locations and confirm feasibility	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Customer and Engagement TfNSW - Maritime								✓			
6	Dredging Assessment and Prioritisation Plan: Stage 3	Prepare site-specific dredging management plans	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Customer and Engagement TfNSW - Maritime									✓	✓	

Project		Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
7	Wetland Management Plan	Review existing wetland plans and set conservation, restoration and maintenance actions	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Recycling and Waste Environment and Regulation Civil Works and Presentation							✓	✓				
8	Watercourse Assessment and Rehabilitation Prioritisation	Review and update watercourse assessment and rehabilitation and prioritisation	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Environment and Regulation								✓	✓	✓		
9	Clean Catchments Program: Stage 1 Georges River Catchments (including Woronora River, Waterfall and Botany Bay catchments)	Undertake assessment to determine pollutant hotspots, quantify loads and determine vulnerable areas within Sutherland Shire's Georges River Catchment	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Environment and Regulation Recycling and Waste Civil Works and Presentation Georges Riverkeeper	FUNDED		✓	✓								
10	Clean Catchments Program: Stage 1 Port Hacking Catchments (including Hacking River, Bundeena and Pacific Ocean catchments)	Undertake assessment to determine pollutant hotspots, quantify loads and determine vulnerable areas within the Port Hacking and Pacific Ocean catchments	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Recycling and Waste Environment and Regulation Civil Works and Presentation	FUNDED		✓	✓								
11	Clean Catchments Program: Stage 2 Georges River Catchments (including Woronora River, Waterfall and Botany Bay catchments)	Audit existing stormwater quality improvement devices and their maintenance. Develop prioritised implementation strategy for devices for Sutherland Shire's Georges River catchments	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Recycling and Waste Environment and Regulation Civil Works and Presentation Georges Riverkeeper					✓	✓						
12	Clean Catchments Program: Stage 2 Port Hacking Catchments (including Hacking River, Bundeena and Pacific Ocean catchments)	Audit existing stormwater quality improvement devices and their maintenance. Develop prioritised implementation strategy for devices for Port Hacking and Pacific Ocean catchments	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Recycling and Waste Environment and Regulation Civil Works and Presentation					✓	✓						
13	Clean Catchments Program: Stage 3 All Catchments	Implement smart monitoring systems to track stormwater quality device performance as a yearly report card	Lead: Assets Strategy and Delivery Collaboration: Parks and Natural Areas Recycling and Waste Environment and Regulation Civil Works and Presentation	FUNDED						✓	✓	✓	✓	✓	

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
14	Zero Litter to Ocean Campaign	Deliver education campaign to reduce litter entering waterways and promote stewardship	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Recycling and Waste Customer and Engagement Georges Riverkeeper				✓		✓		✓			
15	Strategic Water Monitoring Program	Deliver annual water quality monitoring and publish report card for adaptive management	Lead: Environment and Regulation Collaboration: Assets Strategy and Delivery	FUNDED										✓

04

Coastal Management Actions

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
1	General	All development reviewed by Council within coastal areas must promote resilience through appropriate coastal hazard protections and prevent adverse impacts to the coastal environment	Lead: Development Assessment Collaboration: Environment and Regulation Urban Futures	FUNDED										✓
2	Port Hacking Coastal Management Program: Stage 1 (including Hacking River)	Define Coastal Management Program scope, stakeholders and study area for Port Hacking	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Customer and Engagement DCCEEW	FUNDED	✓	✓	✓							
3	Port Hacking Coastal Management Program: Stage 2 - 4 (including Hacking River)	Assess risks and options and prepare CMP for certification and adoption	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Customer and Engagement DCCEEW					✓	✓	✓	✓			
4	Georges River Coastal Management Plan: Stage 2-4 (including Botany Bay and Woronora River)	Assist the Georges River Keeper in defining CMP scope, stakeholders and study area for Georges River	Lead: Georges Riverkeeper Collaboration: Asset Strategy and Delivery Environment and Regulation Customer and Engagement DCCEEW	FUNDED	✓	✓	✓	✓	✓					
5	Bate Bay Coastal Management Program: Stage 5 (Implementation) Dune Maintenance	Implement dune maintenance actions in-line with Bate Bay Coastal Management Program	Lead: Parks and Natural Areas Collaboration: Environment and Regulation Assets Strategy and Delivery Civil Works and Presentation DCCEEW		✓									✓

Project	Action	Collaboration	Funding	Y1. FY25/26	Y2. FY26/27	Y3. FY27/28	Y4. FY28/29	Y5. FY29/30	Y6. FY30/31	Y7. FY31/32	Y8. FY32/33	Y9. FY33/34	Y10. FY34/35	Ongoing
6	Beach Nourishment Campaign - Develop Strategy	Develop a strategy for beach nourishment in-line with Bate Bay Coastal Management Program including review of potential sand sources	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Parks and Natural Areas Civil Works and Presentation DCCEEW				✓							
7	Beach Nourishment Campaign - Environmental Assessment	Undertake environmental assessments and securing all necessary approvals for any sand replenishment activities identified through the Beach Nourishment Campaign	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Parks and Natural Areas Civil Works and Presentation DCCEEW					✓				✓		
8	Beach Nourishment Campaign - Implementation	Implement the Beach Nourishment Campaign	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation Parks and Natural Areas Civil Works and Presentation DCCEEW						✓				✓	
9	Bate Bay Coastal Management Program: Stage 5 (Implementation) Coastal Outlet Maintenance	Implement CMP Stage 5 actions for stormwater outlet maintenance	Lead: Civil Works and Presentation Collaboration: Environment and Regulation Assets Strategy and Delivery											✓
10	Sea Level Rise Policy	Review and update Council's sea level rise policy in line with global standards and contemporary projections	Lead: Assets Strategy and Delivery Collaboration: Environment and Regulation	FUNDED	✓			✓					✓	

Connecting past and present - evolving to meet
changing needs as communities and infrastructure grow.



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Contact Details

4-20 Eton Street,
Sutherland NSW Australia

Locked Bag 17,
Sutherland NSW 1499

T 02 9710 0333
ssc@ssc.nsw.gov.au
sutherlandshire.nsw.gov.au

SUTHERLANDSHIRE

