

HILL ROAD UPGRADE

Western Sydney Flood
Resilience Program



**CITY OF
PARRAMATTA**

본 안내서는 한국어(Korean)로 제공됩니다.
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本手册提供中文(Simplified Chinese)版本, 请访问
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INTRODUCTION

For many years, City of Parramatta has advocated on behalf of residents in Wentworth Point and the Carter Street Precinct for additional resources to better manage flooding in this area.

Hill Road, the main road for the area, is a major source of community frustration. Its frequent flooding (more than 50cm deep in some instances) poses a risk to residents and the 2,200 vehicles that travel along the 4km road each hour during peak times.

With \$50M in funding now provided by the NSW Government under the Western Sydney Resilience Program, Council will begin a long-term program to manage flooding to reduce flood risk and minimise disruption to the community.

The project will investigate and upgrade the drainage along Hill Road and consider broader flooding issues in areas surrounding Hill Road, such as Wentworth Point, Newington, and Carter Street, Lidcombe.

The main goal of the project is to reduce localised low rainfall event flooding along Hill Road. Due to the multiple causes of flooding in the area, it is likely even with improved drainage design major flood events will still impact on Hill Road.

The project work will begin with various technical studies, before moving into conceptual design, detailed design, and construction.

The work is expected to have several complex interconnected components. The flood study, flood risk study and plan, and the drainage upgrade of Hill Road is expected to take around three years to complete. Other flooding improvements will take place in the years following the finalisation of the initial works (flood study, flood risk study and plan and drainage construction).

The flood work will be supported by \$8.5 million in funding from the Australian Government for upgrades to Hill Road, including improved lighting, stormwater upgrades, and intersection treatments that address current safety concerns.

Key outcomes of the project are expected to include:

- a flood study mapping the behaviour of flood waters along Hill Road and in surrounding suburbs, detailing where water is likely to cause flooding and calculating its likely depth
- assessment of the flooding risks in the area and identifying options for managing these risks
- creating a floodwater drainage design for Hill Road
- integration of the proposed drainage design solutions into the Council-endorsed Hill Road Master Plan which will include integrated Water Sensitive Urban Design facilities to deliver improved water quality
- creation of a revised and detailed public domain and landscape concept plan
- construction works for prioritised drainage design options
- integration of any works with other key infrastructure projects, such as the future Transport for NSW delivered Parramatta Light Rail Stage 2 and Hill Road Upgrade between Parramatta Road and Old Hill Link Road.

Timeline

DATE*	ACTIVITY
May 2024	NSW Government grant given to Council
Mid to late 2024	<ol style="list-style-type: none">1) Engage specialist flood and drainage consultants2) Add Hill Road into Parramatta's early warning system, FloodSmart
Late 2024 to late 2025	<ol style="list-style-type: none">1) Investigate flooding along Hill Road2) Produce possible options for drainage improvements for Hill Road3) Consult with community about drainage improvement design for Hill Road4) Investigate flooding across all of Wentworth Point, Newington, those parts of Lidcombe within the City of Parramatta Council area5) Consult with community about flood management options in these areas
Late 2025 to early 2026	<ol style="list-style-type: none">1) Detailed design of preferred drainage improvement option for Hill Road2) Community consultation and information sharing
Mid 2026 to mid 2027	<ol style="list-style-type: none">1) Ongoing communication with community2) Finalisation of options to manage flooding across Wentworth Point, Newington, parts of Lidcombe3) Build drainage upgrades along Hill Road
2027 onwards	Deliver projects to reduce flooding in areas beyond Hill Road, such as Carter Street, Lidcombe.

*All timings subject to change.

HILL ROAD FAST FACTS

Hill Road runs from Wentworth Point in the north to the M4/A44 in the south, a length of nearly 4 km.

Hill Road from Bennelong Parkway to Parramatta River is impacted by regular flooding. Various low points along Hill Road from the M4 to Bennelong Parkway are impacted by flooding.

TOTAL AREA: of Hill Road and its road reserve is 90.8 hectares

INTERSECTIONS: 20

SIGNALISED INTERSECTIONS: 6

TRAFFIC: 2,200 vehicles per hour in pm peak time

#1 OBJECTIVE:

Reducing flood risk and improving the safety of residents and visitors.

Wentworth Point, Carter Street and Sydney Olympic Park

Wentworth Point and Carter Street are some of the most highly-populated areas in our Local Government Area and in the State. With high-density living, a rapidly increasing population, and a lot of hard surfaces impervious to water, managing flooding becomes increasingly difficult.

In Wentworth Point and Carter Street there isn't the green space to absorb or slow floodwater.

Flooding in the Wentworth Point area is also affected by tidal variation in the Parramatta River. When a storm coincides with a high tide, stormwater cannot easily drain from Hill Road into the Parramatta River, increasing flood risk.

The Hill Road project will consider all these conditions and constraints to provide design options that will reduce the impact of flooding.

Never walk, ride or drive through flood waters.

For help call NSW SES on 132 500. If lives are at risk call 000.



FAST FACTS

Existing population in Wentworth Point and Carter Street precinct areas:

- 2021 census showed 7,008 dwellings in Wentworth Point, another 5,573 dwellings are expected to be built in the next few years.
- Carter Street precinct – ultimate dwellings in the area are likely to be 6,200+.
- Carter Street population is 2,861
- Newington population is 5,648
- Wentworth Point 12,703
- There are two schools in the area, and a growing population.
- There are more than 5,000 events held at Sydney Olympic Park each year with up to 171,000+ in attendance at various venues across the precinct.

#2 OBJECTIVE:

Conduct technical studies and investigations.

Hill Road

Hill Road as we all know, is the main road in and out of Wentworth Point. While it's our main road, it is also the main source of frustration for many in our community.

Flooding is a safety risk, and flooding often results in closure of Hill Road. Road closures with few alternative routes cause great distress for the community

With a road at shallow grade and many low points, many parts of Hill Road can flood, with water levels sometimes reaching 50cm or deeper.

What causes Hill Road to flood?

A number of issues combine to make Hill Road very flood prone:

Gradient – Hill Road is flat

Hill Road has a very shallow grade of as little as 0.2% in some sections. Hill Road is actually very flat, with some localised low points where water ponds.

Dwellings

The number of roads and dwellings which drain to Hill Road also contribute to the high frequency of flooding.

Infrastructure

In heavy rain, the local pipes, gutters and stormwater pits cannot drain the water away quickly, resulting in flooding spreading across the road.

When the rain is even more intense, the nearby Parramatta River or Haslams Creek can rise and send floodwaters directly across Hill Road.

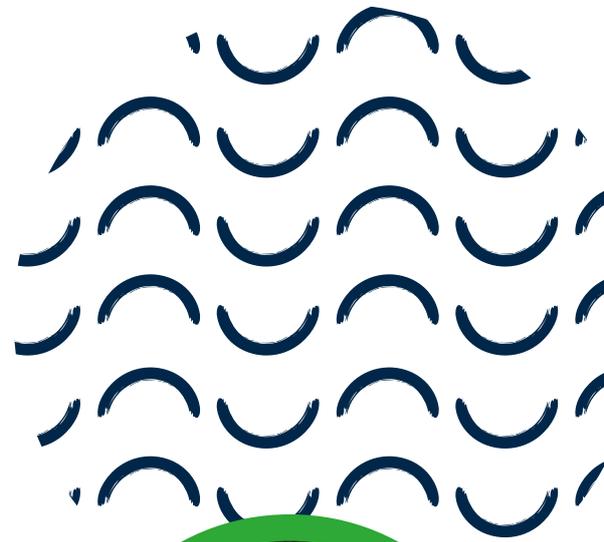
Tides

High tides also play a part in reducing the amount of stormwater that can be discharged into the Parramatta River.

Hill Road drainage discharges into a tidal part of Haslams Creek and the Parramatta River at Wentworth Point.

If the tide is high and covers the stormwater pipe outlet, this limits the amount of water that can be released from the pipe. With the drainage outlet covered by the Parramatta River, water cannot easily drain to the river. Water banks up in the drain and pools at the drain inlet.

This problem will only get worse over time, as sea levels gradually rise.



Flood resilience - solutions

While improving drainage and reducing flood impact is the key focus of this project, the solution will not be simple or quick.

The scope of the project will include construction of a major drainage system to capture and divert large flows and reduce the depth of water on the road.

In a few years, there could be fewer cars on Hill Road due to improved transportation with delivery of the NSW Government's Light Rail Stage 2 project.

The planning and construction work for Light Rail Stage 2 may also assist in lessening the impact of flooding which is why Council will work closely with all NSW Government agencies to collectively reach the best outcome for our community.



SES advice and Emergency Plans

SES is the responding agency in a flood and they will provide appropriate advice and direction to residents during a flood emergency. Residents can visit the SES website for general advice on preparing for a flood.

In a life threatening situation, call triple zero '000'.

Part of this project is to consider road diversions and emergency procedures and to work closely with SES on managing community flood risks.

This could include temporarily opening the Bennelong Bridge to Rhodes to general traffic for a few hours and other methods initiated by the Police or SES to allow residents to enter or leave Wentworth Point safely.

The NSW SES is the combat agency for floods, storms and tsunamis. You will find information on current NSW SES warnings on the NSW SES Website, HazardWatch website and the Hazards Near Me NSW mobile app. Hazards Near Me shows current information about local emergencies, including flood, bushfire, severe weather and tsunamis, and advice on what to do to stay safe. The app can send you push notifications when there are new incidents or when information changes.

Download Hazards Near Me NSW at nsw.gov.au/emergency/hazards-near-me-app



Wentworth Point, Newington and Lidcombe get FloodSmart

Later in 2024 City of Parramatta's award-winning FloodSmart service will extend to Haslams Creek. This free service will provide subscribers with early warning messages and ongoing updates on flood conditions in real time. Residents and businesses will be able to receive messages via SMS, email or voice message.

FloodSmart will advise residents of the flood condition on Hill Road and when Hill Road is likely to be closed.

For more information and to sign-up to receive early flood warnings, please see our webpage or scan the QR code on the back page.

cityofparramatta.nsw.gov.au/floodsmart

#3 OBJECTIVE:

Managing contamination and ensuring community safety.

The creation of Sydney Olympic Park and much of the Wentworth Point and Carter Street Precinct relied on reclamation and remediation. The earlier industrial use of the Parramatta River and its foreshore left a legacy of high levels of pollutants and contaminants in the water and the soil.

Geotechnical studies and any excavation in these areas will require careful management to ensure remediation 'capping layers' are not disturbed, or that excavation into previously untreated areas does not pose a risk to the community.

Extensive testing will be required to identify the presence of contaminated material or other substances of concern in areas

marked for excavation, and contamination specialists will be required to oversee all work.

Following testing, an Environmental Management Plan will be developed and all work which may include trenching for stormwater pipes, drainage, construction of retention walls etc - will be managed under NSW Environment Protection Authority requirements.

Sydney Olympic Park Authority manages existing contaminated land near Hill Road that is under their care and control through an Environmental Management Plan under NSW Environment Protection Authority.

Council manages land contamination through its land-use planning and development control polices and processes to ensure any land use or any development does not increase the risk of harm to human health and the environment.

Council requires that any contamination is remediated to a level that complies with relevant contamination criteria as required by regulation and will be working closely with all agencies to ensure the Hill Road project is completed safely.



CONTACT US

We are now at the very start of the Hill Road project. As the project develops, we will keep in touch with the community through regular newsletters, social media and in-person meetings and there will be points for formal community consultation.

In the meantime, if you have any questions about this project please email the project team at HillRd@cityofparramatta.nsw.gov.au



For more information, see the project website at cityofparramatta.co/flood-study-Hill-Road or call Council's Customer Contact Centre on 1300 617 058 and ask for the Hill Road project team.

ARE YOU FLOODSMART?



Be FloodSmart, sign-up for free early flood warnings.

Use your phone to scan the QR code and find out more.



BUILDING AUSTRALIA



The \$58.5million Hill Road flood resilience project and safety improvement project is proudly funded by the Australian and NSW Governments in association with City of Parramatta Council.