

## Floodplain Management Engineer

### Position Description

<b>Division</b>	Infrastructure Planning	<b>Department</b>	Drainage, Waterways and Coastal Planning
<b>Reports To</b>	Coordinator Floodplain Management	<b>Direct Reports</b>	No

### Position Purpose

This position will provide advice and undertake technical investigations, numerical modelling and analysis to support Council's delivery of floodplain management and flood warning services.

### Responsibilities & Outcomes

As a Floodplain Management Engineer and member of the Drainage, Waterways and Coastal Planning department you will:

- Investigate complex flood, stormwater and drainage related problems to identify cost-effective retrofit solutions and prepare detailed options analysis to support floodplain management recommendations.
- Support the ongoing development of Council's Flood Warning System including planning and co-ordination of installation and maintenance of flood warning infrastructure and systems.
- Undertake flood modelling (WBNM & TUFLOW and associated tools), with limited guidance, for waterways within the region to support infrastructure investigations and projects.
- Project manage the delivery of internal and external regional and local flood studies and investigations. This may include preparation of draft request for quote documentation and preliminary project scoping.
- Complete preliminary design and preparation of cost estimates (concept level) for floodplain management infrastructure projects.
- Provide technical input into the development and operation of Council's Flood Warning System to provide timely analysis and advice in extreme rainfall and flooding events using specialist software including Enviromon, Floodmon, ArcGIS, and waterRIDE.
- Provide technical support in the maintenance and operation of Council's Flood Database Integration (FDI) toolset, Flood Check Report (FCR) system and other floodplain management tasks.
- Prepare and present technical reports and correspondence describing the outcome of floodplain management modelling and/or infrastructure investigations.
- Contribute to identification and management of risks applicable to individual projects and the team. In collaboration with senior engineers determine how these risks should be managed.
- Contribute to a positive team environment in order to achieve a high performance, continuous improvement and customer focused culture.
- Engage proactively with key stakeholders in investigating, providing advice and responding to customer/client enquiries relating to the floodplain management and flood warning services provided to the community.

## Our Values

Our values shape the way we behave, how we interact with each other and our customers. They underpin our decision making and are our guiding principles for how we work every day. As a team member you will take individual accountability for demonstrating the values expectations and behaviours in this role.



## Decision Making

Budget	N/A
Delegations	Delegations under the Local Government Act 2009 and as directed and published in Council's Delegation Register

## Knowledge & Experience

- Sound knowledge and experience in floodplain management, including application and use of flood modelling software.
- Demonstrated experience in floodplain management infrastructure planning and design.
- Demonstrated experience in completing technical investigations relating to floodplain management matters.
- Demonstrated ability to apply critical thinking, reasoning, evaluation and decision-making skills.
- Demonstrated experience in the preparation and presentation of technical reports and recommendations.
- Well-developed communication skills to meet the needs of a range of internal and external stakeholders.

## Qualifications

- Degree in Civil or Environmental engineering or equivalent
- Current "C" Class Driver's Licence.

*Note: This position description reflects a summary of the key accountabilities of the position, it is not intended to be an all-inclusive list of duties, steps and tasks. Leaders may direct team members to perform other duties at their discretion.*