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| <b>Position Title:</b>         | Water Resources Asset Engineer                                                                                                 |
| <b>Position Number:</b>        | 30078                                                                                                                          |
| <b>Team:</b>                   | Asset Engineering                                                                                                              |
| <b>Division:</b>               | Infrastructure Services                                                                                                        |
| <b>Reporting To:</b>           | Manager Asset Engineering                                                                                                      |
| <b>Direct Reports:</b>         | Nil                                                                                                                            |
| <b>Industrial Instruments:</b> | Queensland Local Government Industry (Stream A) Award - State 2017 & Cassowary Coast Regional Council Certified Agreement 2023 |
| <b>Level:</b>                  | 5 - 7                                                                                                                          |

## THE ROLE

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The Water Resources Asset Engineer is responsible for the strategic planning, management, and continuous improvement of Council's stormwater and marine assets.

Working within the Asset Engineering team, the role delivers asset management, water resources engineering, and capital planning to manage risk, improve service performance, and support safe, resilient, and sustainable communities. This includes developing and prioritising investment programs aligned with Council's long-term financial planning and corporate priorities.

The position provides specialist technical expertise and contributes to informed decision-making across the organisation, working collaboratively with internal teams and external stakeholders to identify, prioritise, and progress mitigation and funding opportunities.

The role also provides an internal advisory function as the subject matter expert in water resources engineering, applying a risk-based approach to prioritise competing demands and balance customer service, operational requirements, and strategic outcomes.

## KEY OUTCOMES

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- Stormwater and marine asset management plans are developed, maintained, and implemented to support sustainable and reliable service delivery.
- Hydrologic and hydraulic modelling is maintained and applied to inform risk-based decision-making, land use planning, infrastructure investment, and emergency response.
- Capital works programs are developed and prioritised (three-year detailed and ten-year indicative) in alignment with long-term financial planning and strategic priorities.
- Flood risk mitigation opportunities are identified, prioritised, and progressed to improve community safety and resilience.
- External funding opportunities are identified and supported to enable delivery of priority infrastructure outcomes.
- Customer and internal requests relevant to the role are effectively managed and prioritised, delivering timely, consistent, and risk-based responses.
- Strong partnerships are maintained with internal teams, and external stakeholders including the Cassowary Coast River Improvement Trust, and Bureau of Meteorology.



## KEY ACCOUNTABILITIES

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### Asset Management Planning

- Lead the planning, management, and continuous improvement of stormwater and marine assets, including drainage networks, waterways, wharfs, piers, and associated facilities such as carparks.
- Develop, implement, and maintain asset management plans and lifecycle strategies.
- Assess asset performance, condition, capacity, and risk, including future growth and demand, to identify renewal, upgrade, and mitigation priorities.
- Develop and maintain prioritised capital works programs (three-year detailed and ten-year indicative) aligned to long-term financial planning and strategic priorities.
- Identify, scope, and prioritise capital works based on risk, performance, and service outcomes.
- Prepare or support business cases, capital bids, and funding submissions.
- Identify and pursue external funding opportunities aligned to priority outcomes.

### Water Resources Engineering

- Deliver hydrologic and hydraulic modelling to inform planning, design, risk assessment, and emergency response.
- Maintain and continuously improve Council's modelling capability and datasets.
- Interpret modelling outputs to identify flood behaviour, infrastructure limitations, and mitigation opportunities.

### Service Delivery and Engagement

- Provide specialist advice on stormwater, flooding, and marine asset matters to support organisational decision-making.
- Act as the internal referral point for enquiries relevant to the role, providing specialist technical advice where required.
- Manage and prioritise competing requests using a risk-based approach, balancing customer, operational, and strategic needs.
- Engage with internal teams, government agencies, external stakeholders, and the community, providing clear, consistent, and evidence-based advice.
- Support collaboration, advocacy, and partnerships to progress mitigation and infrastructure outcomes.

### Governance and Continuous Improvement

- Contribute to the development and review of strategies, policies, and procedures relating to stormwater and marine infrastructure.
- Ensure compliance with relevant standards and guidelines such as FNQROC, ARR and QUDM.
- Support asset revaluation, condition assessment, and data integrity processes.
- Drive continuous improvement in stormwater and marine asset management.

## BEHAVIOURAL COMPETENCIES

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- Demonstrates behaviours consistent with Council's values and Code of Conduct in all interactions.
- Takes accountability for own work, exercising sound judgement and delivering outcomes that support organisational priorities.
- Communicates clearly and respectfully, providing advice that is practical and understood by a range of stakeholders.
- Builds and maintains effective working relationships across Council, the community, and



external agencies.

- Applies problem-solving skills to analyse issues, identify risks, and develop practical solutions.
- Effectively plans and prioritises work to manage competing demands and meet agreed timeframes.
- Provides professional and reliable advice to support informed decision-making.
- Works proactively and contributes to continuous improvement in service delivery and asset management outcomes.
- Adapts to changing priorities and responds constructively to challenges.

## SELECTION CRITERIA

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### Essential:

- Degree qualification in Civil Engineering or related discipline, or equivalent qualifications and experience.
- Demonstrated experience in stormwater, drainage, floodplain management, catchment management, or related infrastructure disciplines.
- Knowledge and application of hydrologic and hydraulic modelling principles.
- Experience in the planning, design, operation and renewal of stormwater and drainage infrastructure assets.
- Experience in asset management planning, lifecycle management, risk assessment and development of capital works programs.
- Ability to analyse technical data and provide practical, evidence-based engineering recommendations.
- Experience managing consultants, technical investigations, and engineering projects.
- Demonstrated knowledge of relevant legislation, standards and guidelines relating to stormwater management, drainage infrastructure and floodplain management.
- Well-developed written communication skills, including the ability to prepare technical reports, briefing notes, funding applications, and business cases.
- Demonstrated ability to engage effectively with internal and external stakeholders, including government agencies, consultants, contractors, and the community.
- Ability to manage competing priorities and deliver outcomes within agreed timeframes.
- Current Queensland "C" Class Driver Licence.

### Desirable:

- Experience using GIS platforms for infrastructure planning and asset management.
- Knowledge of floodplain management, climate resilience and coastal adaptation planning.
- Experience in integrated water management or catchment-scale planning.
- Experience preparing funding applications and reporting on grant-funded infrastructure projects.