

# Position Description



## Regional Supply & Flood Modelling Manager

**Business Unit:** Water and Catchment Protection

**Reporting to:** Manager Water Modelling & Advice

### Position Purpose

To effectively lead a team of technical specialists, to deliver timely and accurate hydrological and flood modelling investigations, studies and related advice, in accordance with regulatory and customer requirements, and drive excellence in safety.

### Key Accountabilities

1. **Safety:** ensure all activities are undertaken with the safety of our people as the number one priority and always role model safe behaviour.
2. **Values:** behave and make decisions in accordance with the WaterNSW Values at all times.
3. **Leadership:** delivering strategic priorities and developing the culture, capability and performance of our people.
4. Manage and lead the Regional Supply & Flood Modelling team and oversee the delivery of complex hydrology and hydraulic studies, including Probable Maximum Flood estimation and extreme flood studies in the assessment of spillway adequacy, dam break studies, flood mapping and operation, water delivery, and emergency procedures and consequence assessments to assist in meeting legal, regulatory and business requirements.
5. Provide high level expert hydrologic advice and support for activities across WaterNSW, including investigation of water supply system capabilities to meet our customers desired levels of service and future demand and support for flood and emergency operations to ensure hydrologic factors are well understood and managed with acceptable risk.
6. Manage, develop and review plans, budget and business cases for the delivery of modelling services to internal, external customers and regulatory bodies.
7. Determine the objectives and priorities of the Regional Supply & Flood Modelling team to achieve alignment with the strategic direction of Water Modelling & Advice Team, and develop the team to maximise its effectiveness, engagement, and achieve business objectives.

## Key Challenges

- Sound judgement on the use of complex hydraulic/hydrologic engineering applications at their limitations
- Quality assurance of hydrologic/hydraulic information provided for high impact decisions
- Application of state of art technologies on computing for modelling
- Sound judgement on trade-offs of competitive customer requirements

## Significant Internal Relationships

Stakeholder	Purpose of Relationship
Dam Safety	Provide dam break modelling studies for Portfolio Risk Assessment. Review of Probable maximum Flood studies
Systems Operations	Provide advice on Flood Management Procedures
Major Infrastructure Delivery	Review and application of hydrologic/hydraulic data for infrastructure projects
Asset Strategy	Provide modelling advice on regional water security infrastructure projects

## Significant External Relationships

Stakeholder	Purpose of Relationship
Regulators	Provide technical insights on operational aspects in consultation with Operations

## Delegations, Financial Accountabilities & Freedom to Act

- As defined in the WaterNSW Financial Delegations as varied from time to time.

## WaterNSW Leadership & Performance Competencies

People	Level	
Coaching and Developing Others	B	<ul style="list-style-type: none"> <li>• Supports individual development in line with career aspirations and business requirements</li> <li>• Challenges others to achieve their full potential</li> <li>• Actively listens to others</li> <li>• Supports others to establish meaningful goals</li> <li>• Asks questions to create awareness and encourage self-directed problem solving</li> </ul>
Driving Performance	B	<ul style="list-style-type: none"> <li>• Ensures the team has the capability and resources required to undertake work effectively</li> <li>• Monitors team's progress in achieving goals; takes action to keep the team on track and recognise achievements</li> <li>• Works with team members to develop SMART goals</li> <li>• Listens to and involves others in team decisions and actions; values and utilises individual differences and talent</li> </ul>
Managing Change	C	<ul style="list-style-type: none"> <li>• Leads and engages teams in all aspects of the change process</li> <li>• Provides coaching to employees and teams to manage change effectively</li> <li>• Creates a safe environment in times of change to express views</li> <li>• Understands the need to apply effective change disciplines to achieve business outcomes</li> </ul>

Customer	Level	
Partnering & Advice	B	<ul style="list-style-type: none"> <li>• Engages in a productive dialogue with the customer to consultatively identify a solution</li> <li>• Provides credible advice for customers based on an understanding of the underlying issue</li> <li>• Knows when to draw on additional resources to provide appropriate support and advice for customers</li> </ul>

Collaboration & Engagement with Stakeholders	C	<ul style="list-style-type: none"> <li>Proactively builds relationships internally and externally to positively impact the business</li> <li>Actively engages with customers and stakeholders to understand concerns and leverage opportunities for adding value</li> <li>Initiates and maintains extensive networks to enable the achievement of business objectives</li> </ul>
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Business	Level	
Analysis & Problem Solving	C	<ul style="list-style-type: none"> <li>Takes a broad view when analysing complex and ambiguous situations</li> <li>Recognises patterns and draws linkages between data and/or situations</li> <li>Develops long term solutions that address the root cause of problems and prevent recurrences</li> <li>Selects and uses problem solving tools appropriate to the problem and the context</li> <li>Evaluates the effectiveness of implemented solutions</li> </ul>

## Mandatory Candidate Requirements

### Qualifications:

- Relevant Tertiary Engineering qualifications and expert knowledge in hydrology/hydraulics/water supply/water data systems through post graduate studies or through demonstrated extensive experience.
- Current NSW Drivers Licence

### Knowledge:

- High level understanding of risk assessment processes including economic and environmental impact of dams.
- High level understanding of floodplain management in the context of the State Emergency Services procedures.

### Experience:

- Experience in planning for water infrastructure operations, configuration and optimisation.
- Extensive experience in flood hydrology and catchment hydrology, floodplain management, use of analytical techniques in hydrology and hydraulics.

- Extensive experience in Probable Maximum Flood estimation and extreme flood studies in the assessment of spillway adequacy.
- Experience leading a high performing team

### **Favourable Candidate Requirements**

- Evidence of understanding of water quality and quantity issues confronting Government and how this directly impacts on the WaterNSW.

### **Pre-Employment Checks Required**

- Identification
- Qualifications
- Drivers Licence
- Pre-employment Medical
- Police Check