

# Position Description



## Dam Safety Engineer

### Business Unit: Assets

### Reporting to Dam Safety Manager

#### Position Purpose

As the specialist dam safety engineer, effectively monitor and identify dam safety issues, deficiencies, and potential development of failure modes; support the effective delivery of dam safety activities in accordance with the DSMS, to meet business, regulatory and statutory requirements and puts safety first.

#### 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. Ensure all activities are undertaken with the safety of people as the number one priority and at all times role model safe behaviour.
4. Plan and undertake dam surveillance activities in accordance with the DSMS.
5. Evaluate the safety status and performance of dams. Monitor existing risks; identify new and emerging risks; initiate in-depth evaluation of dam safety risks arising from surveillance activities.
6. Support the development and maintenance of portfolio risk profiles and risk management plans. Periodically assess and report on dam safety compliance and monitor risk profiles in accordance with the DSMS.
7. Support the implementation of the DSMS to ensure that statutory dam safety requirements are appropriately met in a timely manner.
8. Plan for and manage dam safety issues, alarm responses, and emergencies, together with other subject matter experts, as may be required from time to time. Actively participate in emergency preparedness.
9. Optimise dam safety management practices using risk-based frameworks.

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10. Contribute to the development and implementation of technical guidelines and methodologies in the dam safety program.

### Key Challenges

- Ability to consistently produce high quality and cost-effective results and decisions.
- Continually keeping up to date with contemporary trends in Dam Safety in Australia and internationally, including knowledge of dam safety surveillance trends, standards, innovations and technologies.

### Significant Internal Relationships

| Stakeholder   | Purpose of Relationship  |
|---|--|
| <ul style="list-style-type: none"> <li>• AMS</li> <li>• Asset Capability</li> <li>• Water Operations</li> </ul> | Providers of routine information and recipients of standards and operating protocols |

### Significant External Relationships

| Stakeholder | Purpose of Relationship |
|-------------|-------------------------|
|             |                         |

### 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 |   |
|------------------------------|-------|---|
| Communicating with Influence | A     | <ul style="list-style-type: none"> <li>• Uses information, facts and figures to explain an idea or concept</li> <li>• Initiates conversations and asks appropriate questions where necessary</li> <li>• Presents information in a clear and structured manner, both verbally and in writing, to ensure a positive response from the audience</li> </ul> |

|                 |   |  |
|-----------------|---|--|
|                 |   | <ul style="list-style-type: none"> <li>• Handles challenging questions confidently and constructively</li> </ul>   |
| Managing Change | A | <ul style="list-style-type: none"> <li>• Maintains a positive attitude during times of change</li> <li>• Works effectively even when faced with disruption and uncertainty</li> <li>• Supports others during times of change</li> <li>•</li> </ul> |

| Customer   | Level |  |
|--|-------|--|
| Collaboration & Engagement With Customers and Stakeholders | A     | <ul style="list-style-type: none"> <li>• Builds effective and positive relationships with customers and stakeholders</li> <li>• Understands customer and stakeholder needs</li> <li>• Forms strong relationships with immediate networks to achieve results</li> </ul>   |
| 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> |

| Business                        | Level |  |
|---------------------------------|-------|--|
| Planning and Delivering Results | A     | <ul style="list-style-type: none"> <li>• Completes work in a timely manner to expected standards</li> <li>• Identifies issues or roadblocks, looks to solve first and if needed advises upwards</li> <li>• Plans and organises work by drawing on necessary tools and resources</li> </ul> |

|                              |   |   |
|------------------------------|---|---|
|                              |   | <ul style="list-style-type: none"> <li>• Monitors the progress of plans and deliverables</li> <li>• Identifies more critical and less critical activities; adjusts priorities when appropriate</li> <li>• Displays drive and a clear focus on achieving results</li> <li>•</li> </ul>   |
| Analysis and Problem Solving | B | <ul style="list-style-type: none"> <li>• Defines the extent and cause of the problem through observation and investigation</li> <li>• Knows when and how to source and use additional information to effectively diagnose the problem and determine suitable solutions.</li> <li>• Considers all possible solutions and seeks input from subject matter experts where appropriate</li> <li>• Takes necessary action to implement the identified solution</li> </ul> |

## Mandatory Candidate Requirements

### Qualifications:

- Degree in Civil Engineering or related discipline
- Eligibility for membership of Engineers Australia
- Current NSW Drivers Licence

### Knowledge:

- Extensive knowledge of principles and practices of dam and weir design, construction, operation, safety surveillance and maintenance
- Detailed knowledge of relevant Australian and International codes and standards.
- Proven technical engineering skill and knowledge of dam safety policy and regulatory requirements combined with site experience.
- Excellent written and oral communication skills to communicate internally and to technical professionals, client groups, regulators, and the public, including reports, addressing forums and providing and interpreting technical information.
- Highly developed analytical and problem-solving skills, ability to analyse and interpret data

and information and make sound judgements.

**Experience:**

- Experience in the safety evaluation of existing dams
- 5+ years of experience in dams engineering
- Experience in the safety evaluation and visual inspection of existing dams.
- Experience in dam design, construction, operation and maintenance

**Favourable Candidate Requirements**

- Experience in comprehensive risk assessments.
- Experience in crisis management and high stakes decision making

**Pre-Employment Checks Required**

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