

# Annual Dams Safety Standards Reports 2024

25 March 2025



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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Avon Dam - 5**

Avon River near Bargo

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Avon Dam
Dam location	Avon River near Bargo
Type of dam	Concrete arch
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



#### **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	04/05/2020
Individual risk rating of the dam	1.66E-08
Societal risk rating of the dam	1.69E-06
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	
Date of last safety review	04/05/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	22/01/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

#### **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



#### **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mital
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Bendeela Pondage - 18

**Off-stream storage near Nowra** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Bendeela Pondage
Dam location	Off-stream storage near Nowra
Type of dam	Embankment
Main purpose of dam	Hydroelectric
Other	
Is the dam built on a river, stream or watercourse?	No
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



#### **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Significant
Has an independent review been done?	No
Name of independent reviewer	
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/08/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
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Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety manageme system, have you reviewed it?	nt No

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

at least once every 5 years

Date of last review

- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	04/06/2020
Individual risk rating of the dam	4.40E-10
Societal risk rating of the dam	4.36E-08
Date of next planned risk report	31/03/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch), Dr Mark Foster (AECOM)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	04/06/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. **Regulation**, **subclause 20(6A)** 

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch), Dr Mark Foster (AECOM)

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	19/07/2022
Planned date for next 'theoretical classroom' emergency exercise	19/07/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	12/10/2022
Planned date for next practical emergency exercise	12/10/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	30/09/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

#### **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



#### **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabas
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Blowering Dam - 23**

**Tumut River near Tumut** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Blowering Dam
Dam location	Tumut River near Tumut
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



#### **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2024
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	18/12/2024
Individual risk rating of the dam	1.79E-08
Societal risk rating of the dam	3.91E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Matt Ludeke (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Kapil Singh (Aurecon), Alan Chemaly (Aurecon)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	20/08/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	04/05/2023
Planned date for next practical emergency exercise	4/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	26/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	fireta)
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Brogo Dam - 34

**Brogo River near Bega** 

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Brogo Dam
Dam location	Brogo River near Bega
Type of dam	Rockfill
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High B
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	07/09/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
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Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	3.42E-07
Societal risk rating of the dam	4.56E-06
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	01/10/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	02/10/2024
Planned date for next practical emergency exercise	28/02/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	09/07/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mittal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Broughtons Pass Weir - 37**

**Cataract Weir near Wilton** 

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Broughtons Pass Weir
Dam location	Cataract Weir near Wilton
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Significant
Has an independent review been done?	No
Name of independent reviewer	
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
-	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	04/05/2020
Individual risk rating of the dam	0
Societal risk rating of the dam	5.44E-06
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	04/05/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question		Answer
•	eview commenced after 1 July 2022 - idependent competent reviewers and sation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer	
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)	

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	03/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)	
Local Council	General Manager	
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>	
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board	
Statutory corporation	<ul> <li>Corporation with 2 or more members:</li> <li>President, chairperson or another principal officer of the corporation</li> <li>Sole corporation</li> <li>The person who constituted the constitution</li> <li>The person managing the affairs of the corporation</li> </ul>	
Government department	Secretary	
Individual	Individual	



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitato
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Burrendong Dam - 43**

Macquarie River near Wellington

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Burrendong Dam
Dam location	Macquarie River near Wellington
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2026
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
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Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	4.68E-08
Societal risk rating of the dam	2.05E-05
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
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Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	26/11/2024
Planned date for next 'theoretical classroom' emergency exercise	26/11/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	15/11/2023
Planned date for next practical emergency exercise	15/11/2025



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	22/01/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Michael
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Burrinjuck Dam - 44**

**Murrumbidgee River near Yass** 

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Burrinjuck Dam
Dam location	Murrumbidgee River near Yass
Type of dam	Concrete gravity
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	30/06/2023
Individual risk rating of the dam	4.28E-07
Societal risk rating of the dam	7.50E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022) Dene Jamieson (Jamieson Dams and Civil)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	20/08/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	04/05/2023
Planned date for next practical emergency exercise	04/05/2025



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	14/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabay
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Carcoar Dam - 49

Belubula River near Carcoar

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Carcoar Dam
Dam location	Belubula River near Carcoar
Type of dam	Concrete arch
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person? <u>Regulation, subclause 3 (1)</u>	Yes
Date of the last consequence category assessment	01/12/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	30/08/2023
Individual risk rating of the dam	3.39E-08
Societal risk rating of the dam	2.53E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

2023 Review - Dene Jamieson (Director of Jamieson Dams & Civil Pty Ltd) 2012 quantitative report - David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

2012 Quantitative report - Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	23/07/2024
Planned date for next 'theoretical classroom' emergency exercise	30/06/2026

### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	26/06/2023
Planned date for next practical emergency exercise	26/06/2028



### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	21/11/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabay
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Cascade Dam No 1 - 50

Cascade Creek near Katoomba

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Cascade Dam No 1
Dam location	Cascade Creek near Katoomba
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High C
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	05/06/2020
Individual risk rating of the dam	9.36E-09
Societal risk rating of the dam	4.95E-06
Date of next planned risk report	31/03/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	05/06/2020
Planned date for next safety review	31/12/2034

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. **Regulation**, **subclause 20(6A)** 

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	31/05/2023
Planned date for next 'theoretical classroom' emergency exercise	31/05/2025

### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	31/05/2023
Planned date for next practical emergency exercise	30/05/2028



### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	03/05/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Metal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Cascade Dam No 2 - 51

Cascade Creek near Katoomba

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Cascade Dam No 2
Dam location	Cascade Creek near Katoomba
Type of dam	Embankment
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High C
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
-	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	16/06/2020
Individual risk rating of the dam	7.02E-06
Societal risk rating of the dam	2.56E-05
Date of next planned risk report	31/03/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	18/06/2020
Planned date for next safety review	31/12/2034

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. **Regulation**, **subclause 20(6A)** 

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	31/05/2023
Planned date for next 'theoretical classroom' emergency exercise	31/05/2025

### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	31/05/2023
Planned date for next practical emergency exercise	31/05/2028



### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	30/10/2023
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitation
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Cascade Dam No 3 - 52

Cascade Creek near Katoomba

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

## Section 1 - Declared dam identification details

Question	Answer
Dam name	Cascade Dam No 3
Dam location	Cascade Creek near Katoomba
Type of dam	Embankment
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

## Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High B
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

## Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

## Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	03/11/2024

## Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	05/06/2020
Individual risk rating of the dam	4.31E-07
Societal risk rating of the dam	6.41E-06
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

## Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	05/06/2020
Planned date for next safety review	31/12/2034

## For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

## Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	31/05/2023
Planned date for next 'theoretical classroom' emergency exercise	31/05/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	31/05/2023
Planned date for next practical emergency exercise	31/05/2028



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	30/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitaka
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Cataract Dam - 54

**Cataract River near Bulli** 

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

## Section 1 - Declared dam identification details

Question	Answer
Dam name	Cataract Dam
Dam location	Cataract River near Bulli
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

## Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

## Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

## Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

## Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	Yes
Do you know the date of your last risk report?	Yes
Date of last risk report	04/08/2023
Individual risk rating of the dam	1.19E-04
Societal risk rating of the dam	1.98E-03
Date of next planned risk report	30/06/2028



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Lorreta Agnew (AECOM), Dr Mark Foster (DCS)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr David Bowles (RAC), Dr Gavan Hunter (Hunter Geotechnical)

## Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	Yes
How many incidents?	1
Topic/subject of the incident(s)	g) any change in the dam or its surrounds that is abnormal and could indicate an increased risk of the failure of the dam



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	04/08/2023
Planned date for next safety review	31/12/2034

## For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr David Bowles (RAC), Dr Gavan Hunter (Hunter Geotechnical)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

## Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	04/09/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	//teta/
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

Dams Safety NSW

# **Chaffey Dam - 59**

**Peel River near Tamworth** 

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

## Section 1 - Declared dam identification details

Question	Answer
Dam name	Chaffey Dam
Dam location	Peel River near Tamworth
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

## Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

## Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

## Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

## Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	29/12/2024
Individual risk rating of the dam	7.91E-08
Societal risk rating of the dam	1.08E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Mike Ahmadi (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Kapil Singh (Aurecon), Alan Chemaly (Aurecon)

## Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

## For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

## Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise <u>Regulation</u> , <u>subclause 22(1)</u>	01/06/2022
Planned date for next 'theoretical classroom' emergency exercise	01/06/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	11/11/2021
Planned date for next practical emergency exercise	11/11/2026



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/06/2024
Date of last Operations and Maintenance Plan review	05/08/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mittel
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Copeton Dam - 77**

**Gwydir River near Inverell** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Copeton Dam
Dam location	Gwydir River near Inverell
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2026
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	28/11/2022
Individual risk rating of the dam	3.59E-06
Societal risk rating of the dam	1.78E-04
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

(Water

Alex Duwell (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Dr Mark Foster (DCS)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	22/10/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2027

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	22/10/2024
Planned date for next practical emergency exercise	31/05/2026



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	02/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitata
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

## Cordeaux Dam - 78

**Cordeaux River near Wilton** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Cordeaux Dam
Dam location	Cordeaux River near Wilton
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	04/08/2023
Individual risk rating of the dam	6.90E-05
Societal risk rating of the dam	1.72E-04
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Lorreta Agnew (AECOM) / Dr Mark Foster (DCS)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr David Bowles (RAC), Dr Gavan Hunter (Hunter Geotechnical)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	04/08/2023
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr David Bowles (RAC), Dr Gavan Hunter (Hunter Geotechnical)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/06/2024
Date of last Operations and Maintenance Plan review	30/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitaka
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Fitzroy Falls Dam - 109

Yarrunga Creek near Moss Vale

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Fitzroy Falls Dam
Dam location	Yarrunga Creek near Moss Vale
Type of dam	Embankment
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/08/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	18/06/2020
Individual risk rating of the dam	2.67E-05
Societal risk rating of the dam	2.74E-04
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM), Prof. Robin Fell (Unisearch)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	18/06/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM), Prof. Robin Fell (Unisearch)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	19/07/2022
Planned date for next 'theoretical classroom' emergency exercise	19/07/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	12/10/2022
Planned date for next practical emergency exercise	12/10/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	02/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitale
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Glenbawn Dam - 121

**Hunter River near Scone** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Glenbawn Dam
Dam location	Hunter River near Scone
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2025
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
-	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	1.93E-07
Societal risk rating of the dam	3.93E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	24/10/2024
Planned date for next 'theoretical classroom' emergency exercise	31/03/2027

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	08/06/2021
Planned date for next practical emergency exercise	31/03/2025



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	11/07/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitales
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Glennies Creek Dam - 124**

**Glennies Creek near Singleton** 

Date of report: 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Glennies Creek Dam
Dam location	Glennies Creek near Singleton
Type of dam	Rockfill
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2025
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	2.62E-07
Societal risk rating of the dam	8.65E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	24/10/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2027

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	09/03/2022
Planned date for next practical emergency exercise	09/03/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	06/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mital
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Glenquarry Cut - 125**

Off-stream storage near Moss Vale

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Glenquarry Cut
Dam location	Off-stream storage near Moss Vale
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Significant
Has an independent review been done?	No
Name of independent reviewer	
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/08/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	04/06/2020
Individual risk rating of the dam	3.57E-07
Societal risk rating of the dam	4.46E-06
Date of next planned risk report	31/03/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	04/06/2020
Planned date for next safety review	31/12/2034

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

## Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	19/07/2022
Planned date for next 'theoretical classroom' emergency exercise	19/07/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	20/07/2022
Planned date for next practical emergency exercise	20/07/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	03/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabas
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

Dams Safety NSW

# **Greaves Creek - 131**

**Greaves Creek near Blackheath** 

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Greaves Creek
Dam location	Greaves Creek near Blackheath
Type of dam	Concrete arch
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	12/06/2020
Individual risk rating of the dam	2.35E-06
Societal risk rating of the dam	1.90E-04
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an Consultant), Dr Mark Foster

(AECOM)

### Other safety requirements - Regulation, Part 6

extreme, high A or high B consequence dam

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	Yes
How many incidents?	1
Topic/subject of the incident(s)	g) any change in the dam or its surrounds that is abnormal and could indicate an increased risk of the failure of the dam



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	12/06/2020
Planned date for next safety review	31/12/2034

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	31/05/2023
Planned date for next 'theoretical classroom' emergency exercise	31/05/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	06/04/2022
Planned date for next practical emergency exercise	28/02/2025



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	09/12/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

Dams Safety NSW

# Hume Dam - 142

**Murray River near Albury-Wodonga** 

**Date of report:** 31/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

## Section 1 - Declared dam identification details

Question	Answer
Dam name	Hume Dam
Dam location	Murray River near Albury-Wodonga
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	Murray-Darling Basin Authority
ACN number	



# **Section 2 - Dams safety standards Consequence category of dam - Regulation, Part 3**

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	David Bowles
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/02/2022
Date of next planned consequence category assessment	31/12/2025
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



How was this checked?

Other

Other

Local staff knowledge of affected area and no significant increase in dwelling numbers were identified by WaterNSW staff from Google Earth comparisons with dambreak inundations maps.

#### Documenting the dam safety management system

Question Answer

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to more than one dam?

Yes

### Implementing the dam safety management system

Question Answer

Is the dam safety management system fully implemented at this dam?

Yes

If no, what percentage of the dam safety management system is implemented?

How did you confirm this percentage?



# Section 2 continued - Dams safety standards Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- · after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	24/09/2024
Individual risk rating of the dam	8.20E-07
Societal risk rating of the dam	5.70E-04
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Loretta Agnew (AECOM) / Dr Mark Foster (DCS)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Prof. Robin Fell (Unisearch), Dr David Bowles (RAC)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. **Regulation**, **clause 19** 

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- · the dam consequence category changes, or
- it is required by Dams Safety NSW. <u>Regulation, clause 20</u>

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	24/09/2024
Planned date for next safety review	30/06/2039

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Prof. Robin Fell (Unisearch), Dr David Bowles (RAC)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. **Regulation**, **subclause 20(6A)** 

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# Section 2 continued - Dams safety standards Emergency exercises

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	29/02/2024
Planned date for next 'theoretical classroom' emergency exercise	01/05/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. <u>Regulation</u>, <u>subclauses 22 (3) and 22 (4)</u>

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	30/05/2024
Planned date for next practical emergency exercise	03/05/2027



# Section 2 continued - Dams safety standards Design and construction

#### Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Yes

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, **subclause 23(1)** 

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/03/2024
Date of last Operations and Maintenance Plan review	16/08/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/data/assets/pdf_file/0011/248339/WaterNSW-Annual-Dams-Safety-Standards-Reports-2023.pdf

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



### **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Jacqui Hickey
Position of declared dam owner office holder attesting to the accuracy of this report	Executive Director - River Management
Signature	A
Name of declared dam owner office holder attesting to the accuracy of this report	Matthew Ludeke
Position of declared dam owner office holder attesting to the accuracy of this report	Dam Safety Manager
Signature	11/1

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Kangaroo Pipeline Control Structure - 154

Off-stream storage at Morton National Park near Fitzroy Falls

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Kangaroo Pipeline Control Structure
Dam location	Off-stream storage at Morton National Park near Fitzroy Falls
Type of dam	Embankment
Main purpose of dam	Hydroelectric
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High C
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/ Mark Foster/ Robin Fell
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/08/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	22/05/2020
Individual risk rating of the dam	1.88E-08
Societal risk rating of the dam	3.77E-07
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	22/05/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	19/07/2022
Planned date for next 'theoretical classroom' emergency exercise	19/07/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	15/10/2022
Planned date for next practical emergency exercise	15/10/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	07/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitetal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Keepit Dam - 156**

Namoi River near Gunnedah

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Keepit Dam
Dam location	Namoi River near Gunnedah
Type of dam	Concrete gravity
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2026
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	2.28E-06
Societal risk rating of the dam	8.44E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	01/06/2022
Planned date for next 'theoretical classroom' emergency exercise	01/06/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	09/05/2024
Planned date for next practical emergency exercise	30/06/2026



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/06/2024
Date of last Operations and Maintenance Plan review	03/05/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabas
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

Dams Safety NSW

# Lake Medlow - 167

Wall's Creek near Medlow Bath

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Lake Medlow
Dam location	Wall's Creek near Medlow Bath
Type of dam	Concrete arch
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/ Mark Foster/ Robin Fell
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	23/05/2023
Individual risk rating of the dam	3.68E-06
Societal risk rating of the dam	1.45E-05
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk muhammad Hameed (WaterNSW)

Name of independent competent person and their organisation who reviewed Marius Jonker

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Marius Jonker (Aurecon Australia Pty Ltd)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	05/06/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	31/05/2023
Planned date for next 'theoretical classroom' emergency exercise	31/05/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	06/04/2022
Planned date for next practical emergency exercise	06/04/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	14/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	present
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Lostock Dam - 184**

**Paterson River near Gresford** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Lostock Dam
Dam location	Paterson River near Gresford
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
-	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2024
Individual risk rating of the dam	1.34E-06
Societal risk rating of the dam	6.93E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Matthew Ludeke (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

2012 Quantitative report - Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	21/10/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2027

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	05/04/2023
Planned date for next practical emergency exercise	05/04/2028



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	22/01/2025
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitetas
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Menindee Storages - 198**

Darling River and adjacent lakes near Menindee

Date of report: 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Menindee Storages
Dam location	Darling River and adjacent lakes near Menindee
Type of dam	Earthfill
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	David Bowles
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2023
Date of next planned consequence category assessment	31/12/2042
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



How was this checked?	Study and report by consultant
-----------------------	--------------------------------

Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	Don't know
Do you know the date of your last risk report?	No
Date of last risk report	
Individual risk rating of the dam	
Societal risk rating of the dam	
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Review not done yet
Date of last safety review	N/A
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	06/12/2022
Planned date for next 'theoretical classroom' emergency exercise	31/03/2025

### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	07/12/2022
Planned date for next practical emergency exercise	31/03/2025



### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	27/07/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	proces
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Nepean Dam - 216

Nepean River near Bargo

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Nepean Dam
Dam location	Nepean River near Bargo
Type of dam	Concrete arch
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/ Robin Fell/ Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	18/05/2020
Individual risk rating of the dam	3.46E-09
Societal risk rating of the dam	1.71E-07
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	18/05/2020
Planned date for next safety review	31/12/2034

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2026

### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	26/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabas
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Oberon Dam - 225**

Fish River near Oberon

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Oberon Dam
Dam location	Fish River near Oberon
Type of dam	Concrete buttress
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	02/04/2024
Individual risk rating of the dam	1.34E-06
Societal risk rating of the dam	8.82E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Mike Ahmadi (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

2014 Quantitative Report: Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	12/06/2024
Planned date for next 'theoretical classroom' emergency exercise	30/04/2024

### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	28/03/2023
Planned date for next practical emergency exercise	28/03/2028



### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	01/04/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Pindari Dam - 229

Severn River near Ashford

**Date of report:** 21/03/2025



# Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

# Section 1 - Declared dam identification details

Question	Answer
Dam name	Pindari Dam
Dam location	Severn River near Ashford
Type of dam	Rockfill
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

# Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2026
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

# Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

# Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



## Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

# Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	30/01/2024
Individual risk rating of the dam	3.31E-07
Societal risk rating of the dam	2.46E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Mike Ahmadi (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

2014 Quantitative Report: Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

# Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

# For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
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Name of independent competent reviewed and their organisation

# Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	22/10/2024
Planned date for next 'theoretical classroom' emergency exercise	31/05/2026

## For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	23/03/2023
Planned date for next practical emergency exercise	23/03/2027



## **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	16/09/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# **Prospect Dam - 241**

**Prospect Creek, Prospect** 

**Date of report:** 21/03/2025



# Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

# Section 1 - Declared dam identification details

Question	Answer
Dam name	Prospect Dam
Dam location	Prospect Creek, Prospect
Type of dam	Embankment
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

# Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/04/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

# Documenting the dam safety management system

Question	Answer
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Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

# Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



## Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

# Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	26/08/2024
Individual risk rating of the dam	4.59E-08
Societal risk rating of the dam	7.80E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Damian Nott (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Dr Gavan Hunter (Hunter -Geotechnical), Dr Mark Foster (Dam Consulting Services)

# Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	26/08/2024
Planned date for next safety review	31/12/2034

# For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Dr Gavan Hunter (Hunter - Geotechnical), Dr Mark Foster (Dam Consulting Services)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

# Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/03/2023
Planned date for next 'theoretical classroom' emergency exercise	16/03/2025

## For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	28/09/2023
Planned date for next practical emergency exercise	28/09/2026



## **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	24/07/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Rydal Dam - 256

Off-stream storage near Rydal

**Date of report:** 21/03/2025



# Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

# Section 1 - Declared dam identification details

Question	Answer
Dam name	Rydal Dam
Dam location	Off-stream storage near Rydal
Type of dam	Earthfill
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

# Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High B
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2026
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

# Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

# Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



## Dam safety management system review

	Question	Answer
-	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

# Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	2.23E-05
Societal risk rating of the dam	8.41E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

# Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

# For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

# Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	12/06/2024
Planned date for next 'theoretical classroom' emergency exercise	30/04/2027

## For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	30/08/2022
Planned date for next practical emergency exercise	30/08/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	14/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitchel
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Split Rock Dam - 268

Manilla River near Manilla

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Split Rock Dam
Dam location	Manilla River near Manilla
Type of dam	Rockfill
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2026
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2014
Individual risk rating of the dam	6.35E-07
Societal risk rating of the dam	1.42E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise <u>Regulation</u> , <u>subclause 22(1)</u>	01/06/2022
Planned date for next 'theoretical classroom' emergency exercise	01/06/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	08/02/2022
Planned date for next practical emergency exercise	08/02/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	06/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

## Tallowa Dam - 277

**Shoalhaven River near Nowra** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Tallowa Dam
Dam location	Shoalhaven River near Nowra
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High A
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/08/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	30/08/2024
Individual risk rating of the dam	9.27E-07
Societal risk rating of the dam	7.56E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Guy Jayasekara (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Orson Thien (Aurecon), Alan Chemaly (Aurecon)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	22/05/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	19/07/2022
Planned date for next 'theoretical classroom' emergency exercise	19/07/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	12/10/2022
Planned date for next practical emergency exercise	12/10/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	05/06/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitation
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

## **Toonumbar Dam - 290**

Iron Pot Creek near Kyogle

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Toonumbar Dam
Dam location	Iron Pot Creek near Kyogle
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High B
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2012
Date of next planned consequence category assessment	31/12/2024
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
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Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	30/06/2024
Individual risk rating of the dam	2.46E-07
Societal risk rating of the dam	1.62E-06
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Guy Jayasekara (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Orson Thien (Aurecon), Alan Chemaly (Aurecon)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2024
Planned date for next safety review	31/12/2026

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	19/03/2024
Planned date for next 'theoretical classroom' emergency exercise	19/03/2027

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	07/06/2023
Planned date for next practical emergency exercise	07/06/2028



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	20/08/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitation
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Upper Cordeaux No 2 - 295

**Cordeaux River near Wollongong** 

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

## Section 1 - Declared dam identification details

Question	Answer
Dam name	Upper Cordeaux No 2
Dam location	Cordeaux River near Wollongong
Type of dam	Concrete arch
Main purpose of dam	Other
Other	No longer used for water supply
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Low
Has an independent review been done?	No
Name of independent reviewer	
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

## Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	21/05/2020
Individual risk rating of the dam	0
Societal risk rating of the dam	6.86E-05
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	21/05/2020
Planned date for next safety review	31/12/2034

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Prof. Robin Fell (Unisearch)

## Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2023

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	16/09/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

# **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



# **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	proces
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Warragamba Dam - 300

Warragamba River near Warragamba

**Date of report:** 21/03/2025



## Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

### Section 1 - Declared dam identification details

Question	Answer
Dam name	Warragamba Dam
Dam location	Warragamba River near Warragamba
Type of dam	Concrete gravity
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



# **Section 2 - Dams safety standards**

### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	David Bowles
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/07/2021
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	Yes
Do you know the date of your last risk report?	Yes
Date of last risk report	29/11/2024
Individual risk rating of the dam	3.50E-05
Societal risk rating of the dam	2.98E-01
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 Steve Fox (SGJV) July 2022)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Dr Mark Foster (DCS), Guy Lund (Schnabel Engineering), David Ryan (Independent Consultant), Mark Eggers (PSM)

### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	29/11/2024
Planned date for next safety review	30/06/2039

### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Dr Mark Foster (DCS), Guy Lund (Schnabel Engineering), David Ryan (Independent Consultant), Mark Eggers (PSM)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	26/09/2024
Planned date for next 'theoretical classroom' emergency exercise	31/03/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/09/2022
Planned date for next practical emergency exercise	01/09/2025



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



# **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	30/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitato
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

## Windamere Dam - 310

**Cudgegong River near Mudgee** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Windamere Dam
Dam location	Cudgegong River near Mudgee
Type of dam	Embankment
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/11/2012
Date of next planned consequence category assessment	31/12/2027
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
-	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	31/01/2024
Individual risk rating of the dam	8.31E-10
Societal risk rating of the dam	2.34E-07
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

2024 Risk Review - Matthew Ludeke (WaterNSW) 2012 Quantitative report -David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

2012 Quantitative report - Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	31/01/2014
Planned date for next safety review	31/12/2027

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Paul Heinrichs, Phil Carter, Len McDonald (all independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	15/11/2023
Planned date for next 'theoretical classroom' emergency exercise	15/11/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	27/03/2024
Planned date for next practical emergency exercise	31/07/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	25/06/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	/ hotelas
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

# Wingecarribee Dam - 312

Wingecarribee River near Moss Vale

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Wingecarribee Dam
Dam location	Wingecarribee River near Moss Vale
Type of dam	Embankment
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	High B
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/08/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	27/10/2020
Individual risk rating of the dam	2.07E-07
Societal risk rating of the dam	2.23E-04
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Muhammad Hameed (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Dr Mark Foster (DCS)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	05/06/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	15/02/2023
Planned date for next 'theoretical classroom' emergency exercise	31/07/2025

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	20/07/2022
Planned date for next practical emergency exercise	20/07/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	03/05/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitchel
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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## **Annual Safety Standards Report**

**Dams Safety NSW** 

## Woodford Dam - 315

**Woodford Creek near Woodford** 

**Date of report:** 21/03/2025



#### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Woodford Dam
Dam location	Woodford Creek near Woodford
Type of dam	Concrete arch
Main purpose of dam	Other
Other	No longer used for water supply
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Significant
Has an independent review been done?	No
Name of independent reviewer	
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

	Question	Answer
•	Since implementing your dam safety management system, have you reviewed it?	Yes
	Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	12/06/2020
Individual risk rating of the dam	0
Societal risk rating of the dam	5.06E-07
Date of next planned risk report	31/12/2026



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	12/06/2020
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. **Regulation**, **subclause 20(6A)** 

Question	Answer
Name of independent competent reviewed and their organisation	Brian Cooper (Independent Consultant), Dr Mark Foster (AECOM)

### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, **clause 22** 

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	31/05/2023
Planned date for next 'theoretical classroom' emergency exercise	31/05/2023

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	No
Date of last practical emergency exercise	
Planned date for next practical emergency exercise	



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	30/09/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitabal
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

Dams Safety NSW

# **Woronora Dam - 322**

Woronora River near Waterfall

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Woronora Dam
Dam location	Woronora River near Waterfall
Type of dam	Concrete arch
Main purpose of dam	Water Supply
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper/Robin Fell/Mark Foster
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/03/2019
Date of next planned consequence category assessment	31/12/2034
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	26/06/2023
Individual risk rating of the dam	1.85E-07
Societal risk rating of the dam	6.48E-05
Date of next planned risk report	31/12/2028



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022) Lorreta Agnew (AECOM) / Dr Mark Foster (DCS)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam Brian Cooper, Dr David Bowles (RAC), Dr Gavan Hunter (Hunter Geotechnical)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ? Regulation, subclause 20(2)	Yes
Date of last safety review	26/06/2023
Planned date for next safety review	31/12/2034

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

Question	Answer
If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation	Brian Cooper, Dr David Bowles (RAC), Dr Gavan Hunter (Hunter Geotechnical)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	16/08/2023
Planned date for next 'theoretical classroom' emergency exercise	16/08/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	01/08/2024
Planned date for next practical emergency exercise	31/05/2027



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/10/2024
Date of last Operations and Maintenance Plan review	14/03/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitata
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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# **Annual Safety Standards Report**

**Dams Safety NSW** 

# Wyangala Dam - 323

Lachlan River near Cowra

**Date of report:** 21/03/2025



### Introduction

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

#### Section 1 - Declared dam identification details

Question	Answer
Dam name	Wyangala Dam
Dam location	Lachlan River near Cowra
Type of dam	Embankment
Main purpose of dam	Irrigation
Other	
Is the dam built on a river, stream or watercourse?	Yes
Name of dam owner (Person or public authority who owns, controls, operates, manages or maintains the dam)	WaterNSW
ACN number	21147934787



## **Section 2 - Dams safety standards**

#### Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW. Regulation, subclause 7 (2).

Question	Answer
Dam consequence category	Extreme
Has an independent review been done?	Yes
Name of independent reviewer	Brian Cooper, Rory Nathan, Rob Ayre
Why has no independent review been done?	
Do you know the date of the last consequence category assessment by a competent person?  Regulation, subclause 3 (1)	Yes
Date of the last consequence category assessment	01/09/2020
Date of next planned consequence category assessment	31/12/2042
Has the number of people likely to be affected by a dam failure changed since the last consequence category review?	No



Other

#### Documenting the dam safety management system

Question	Answer
----------	--------

Is the dam safety management system fully documented?

Yes

If no, what percentage of the dam safety management system documentation is complete?

How did you confirm this percentage?

Does the dam safety management system apply to Yes more than one dam?

#### Implementing the dam safety management system

Question	Answer
Is the dam safety management system fully implemented at this dam?	Yes
If no, what percentage of the dam safety management system is implemented?	
How did you confirm this percentage?	



#### Dam safety management system review

Question	Answer
Since implementing your dam safety management system, have you reviewed it?	Yes
Date of last review	06/11/2024

#### Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, **Regulation Part 5**, **clause 14** to produce a written report on all forseeable risks to the dam:

- at least once every 5 years
- · when a major change to the dam is proposed, and
- after any significant change in the number of people likely to be affected by a dam failure
- when required by Dams Safety NSW. Regulation, clause 15.

Question	Answer
Is your dam above the safety threshold?	No
Do you know the date of your last risk report?	Yes
Date of last risk report	30/07/2021
Individual risk rating of the dam	2.50E-07
Societal risk rating of the dam	7.34E-04
Date of next planned risk report	31/12/2025



Name of competent person and their organisation who signed off the risk report (if risk report recommenced after 1 July 2022)

Steve Fox (SGJV)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper, Dr Rory Nathan, Rob Ayre (independent contractors)

#### Other safety requirements - Regulation, Part 6

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. Regulation, clause 19

Question	Answer
Have you had any reportable incidents during the last calendar year?	No
How many incidents?	
Topic/subject of the incident(s)	



#### Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person

The declared dam owner must ensure that a safety review is carried out at least once every 15 years, and as soon as practicable after:

- · a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW. Regulation, clause 20

Question	Answer
Do you know the date of last safety review ?  Regulation, subclause 20(2)	Yes
Date of last safety review	30/07/2021
Planned date for next safety review	31/12/2026

#### For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. **Regulation**, **subclause 20(6)** 

<u> </u>	Question	Answer
n	f Safety Review commenced after 1 July 2022 - names of independent competent reviewers and heir organisation	Brian Cooper, Dr Rory Nathan, Rob Ayre (independent contractors)



If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. Regulation, subclause 20(6A)

Question	Answer
----------	--------

Name of independent competent reviewed and their organisation

#### Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

Regulation, clause 21

Question	Answer
Has any significant change to the configuration of the dam been made during the last calendar year?	No
Describe the change	
Is any significant change to the configuration of the dam planned?	No
Describe the change and when is it planned?	
Other	
Date	



# **Section 2 continued - Dams safety standards Emergency exercises**

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. **Regulation**, clause 22

Question	Answer
Have you done a 'theoretical classroom' emergency exercise?	Yes
Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)	23/07/2024
Planned date for next 'theoretical classroom' emergency exercise	30/08/2026

#### For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. Regulation, subclauses 22 (3) and 22 (4)

Question	Answer
Have you done a practical emergency exercise?	Yes
Date of last practical emergency exercise	27/06/2023
Planned date for next practical emergency exercise	27/06/2025



#### **Design and construction**

Dam safety management system for design and construction

Question Answer

Does the dam safety management system cover dam design and construction? **Regulation**, **Clause 12(3)** 

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? <u>Regulation</u>, <u>clause 15(2)</u>

Certain work must be carried out by a person subject to a quality management system. **Regulation**, subclause 23(1)

Question Answer

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design. Regulation, clause 24

Question Answer

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design **Regulation**, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?



## **Section 3 - Additional information for Dams Safety NSW**

Question	Answer
Date of last Emergency Plan review	01/12/2024
Date of last Operations and Maintenance Plan review	03/10/2024
Is last year's Annual Dams Safety Standards Report published on your website?	Yes
Provide the link to the report	https://www.waternsw.com.au/water- services/water-storage/dam-safety

## **Section 4 - Attestation**

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local Council	General Manager
Company	<ul> <li>2 directors, or</li> <li>1 director and 1 company secretary</li> <li>The combined director and company secreatary (where there is only 1 director)</li> </ul>
Statutory state-owned corporation	Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board
Statutory corporation	Corporation with 2 or more members:  President, chairperson or another principal officer of the corporation  Sole corporation  The person who constituted the constitution  The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual



## **Section 4 - Attestation continued**

# Declared dam owner office holder(s) attesting to the accuracy of this report

Name of declared dam owner office holder attesting to the accuracy of this report	Geoff Watson
Position of declared dam owner office holder attesting to the accuracy of this report	General Manager Asset Planning & Delivery
Signature	Mitted
Name of declared dam owner office holder attesting to the accuracy of this report	
Position of declared dam owner office holder attesting to the accuracy of this report	
Signature	

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