

If the Dam is to be built on-stream:

- Details of the spillway and justification to show that it has adequate capacity to prevent overtopping at peak flows.

If the Dam is to be built off-stream:

- Details of the proposed maximum capacity of pump and pipe work or diversion weir and channel / pipe work capacity
- Details of the means of preventing overtopping.

Further information required for all Dam applications:

- Details of the foundation and its preparation.
- Details of the wall cross-section, details of the materials to be used, details of the upstream and downstream slope and details of the zoning of the embankment.
- Details of the key between the foundation and the wall.
- Details of the procedure to be used to ensure that the materials to be used will be properly placed and compacted.
- Details of the allowance made for settlement.
- Details of the provisions to be made to prevent damage by wave action
- Details of the bank protection.

- Any dam (including those exempt from Development Regulations) on a second or higher watercourse will require the licensing Natural Resources Kangaroo Island (Kangaroo Island Natural Resource Management Board). Contacts should be made directly with the NRKI on 08 8553 4444
- All dams that are not exempt from Development Regulations will require licensing from NRKI; this will be included in the Development Assessment process.

For more information regarding Dam construction requirements please see Council's brochure 'Farm Dam Construction'.

address 43 Dauncey Street, Kingscote

postal PO Box 121, Kingscote SA 5223

phone 08 8553 4500 | **fax** 08 8553 2885

email kicouncil@kicouncil.sa.gov.au

website www.kangarooisland.sa.gov.au

abn 93 741 277 391

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Farm Dams

FARM DAMS

Development Approval

Development approval will need to be sought if the dam wall levee or mound will have a finished height of greater than 3 metres or if the dam will have a capacity exceeding 5 megalitres.

Plans will be required indicating the anticipated size and location of the dam including the height, breadth and length of the dam wall construction and the anticipated area of inundation. (see Farm Dam Construction Brochure).

The plans will need to include contour levels of the area of the dam and the location of property boundaries, roads, fences, buildings and any other features that may be affected by the dam.

Purpose of the dam

Confirmation will be required that the dam is for farming purposes only.

If the dam is to be used for other than farming purposes e.g. aquaculture, additional detail, design, construction and information of the dam may be required.

Hazard Potential Classification

The hazard potential of the dam will need to be classified. Supporting information in the form of maps e.g.. Google earth image and / or photographs will be required to justify the classification nominated.

High Hazard

If the dam fails, loss of life expected because of community or other significant developments downstream.

Excessive economic loss such as; serious damage to communities, industrial, commercial or agricultural facilities, highways, primary roads, important utilities or other storages downstream.

Professional Input and Contractor Requirements:

The design and supervision of the construction is to be carried out by an experienced qualified engineer with at least five years dam engineering experience.

The design is also to be independently reviewed and certified by a consultant experienced in that type of dam.

Significant Hazard

If the dam fails, no loss of life expected but the possibility recognized. No urban development and no more than a small number of habitable dwellings downstream.

Professional Input and Contractor Requirements:

The design and supervision of the construction is to be carried out by an experienced qualified engineer with at least five years dam engineering experience.

The design is also to be independently reviewed and certified by a consultant experienced in that type of dam.

Low Hazard

If the dam fails, no loss of life expected.

Minimal economic loss, such as farm buildings. Limited damage to agricultural land and minor roads, etc.

Professional Input and Contractor Requirements:

The dam may be designed and supervised by persons with at least five years experience in that type of design.

Very Low Hazard

Farm dams in remote locations. If the dam fails, no loss of life expected.

Very low economic loss, such as minor damage to neighboring properties, minor roads, etc.

Professional Input and Contractor Requirements:

The design and supervision of the construction to be carried out by an experienced earthmoving contractor.

Information required relating to physical dam construction:

The following minimum information will be required to be supplied in relation to the dam construction.

Clarification as to whether the dam is to be constructed on stream or off stream.

- (An off stream dam is one built adjacent to a watercourse and filled by diverting water to it by pumping or using a weir structure and diversion channel).

