

## Template 4 – Waterway barrier works

(version 1.0)

This template must be completed and submitted with *DA Form 1 – Development application details* for all development applications operational works involving waterway barrier works.

It is mandatory to complete the details in all applicable parts in this form and provide any supporting information that is required to accompany your development application, unless stated otherwise.

Additional pages may be attached if there is insufficient space on this template for any questions.

*Note: All terms used within this template have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules), Fisheries Act 1994 and Fisheries Regulation 2008.*

### Part 1 – DEVELOPMENT DETAILS

1) Has a Fish Movement Exemption Notice been issued for the proposed works?	<input type="checkbox"/> Yes – a copy of the Fish Movement Exemption Notice for the proposed work is attached <input checked="" type="checkbox"/> No – details of how the proposed work provides for adequate fish movement is attached
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2) What is the nature of the proposed waterway barrier(s)? (tick all applicable boxes)	<input checked="" type="checkbox"/> New construction <input type="checkbox"/> Temporary <input type="checkbox"/> Partial	<input type="checkbox"/> Raise existing <input checked="" type="checkbox"/> Permanent <input checked="" type="checkbox"/> Bank to bank
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3) What type is the proposed work? (tick all applicable boxes)	Type <input checked="" type="checkbox"/> Dam, weir or a barrage <input type="checkbox"/> Culvert <input type="checkbox"/> Causeway <input type="checkbox"/> Bridge pylon (abutments or pile foundations) <input type="checkbox"/> Flow-control structure such as a floodgate <input type="checkbox"/> Pollution-control device (e.g. trash rack or boom gate) <input type="checkbox"/> Levee bank across a waterway <input type="checkbox"/> Other – specify below (e.g. groyne, construction platform, sediment curtain, causeway)	Number of barriers 1 only        	Parts to complete 2 only 3 only 4 only 4 only 4 only 4 only 4 only
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*Note: An individual section must be completed for each barrier relevant to this development application. Also ensure that the relevant plans that accompany the development application identify the location of existing works and proposed works.*

### Part 2 – CONSTRUCTING A NEW OR RAISING/MODIFYING AN EXISTING DAM, WEIR, BARRAGE, BUND WALL, COFFER DAM OR OTHER SIMILAR STRUCTURES

*Note: If the development application involves more than one barrier relating to this part, generate another part 2 and attach to the application.*

4) What is the proposed development application seeking approval for?	<input checked="" type="checkbox"/> New barrier <input type="checkbox"/> Raising/modifying an existing barrier
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5) Briefly describe the type of barrier proposed (i.e. dam, weir, tidal barrage)	Earth and rock-fill dam 13.1 m high, with a storage volume of approx. 486 ML incorporating dual spillways and fish-way.
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6) If the barrier is temporary (*in place less than 12 months*) how many days will the barrier be in place?

7) Will the barrier extend across the waterway from bank to bank?

☒ Yes, go to question 8  
☐ No

7.1) What is the length of the proposed barrier? (*across the waterway*)

210

metres

7.2) What is the width of the waterway? (*bank to bank*)

Approx. 20

metres

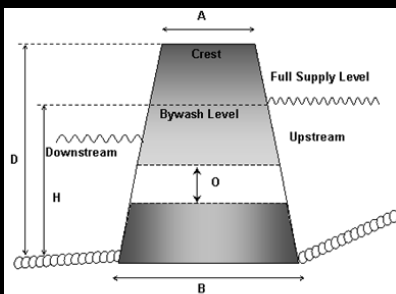
8) What is the purpose of the proposed barrier? (*e.g. creating a new or increasing the capacity of the existing water storage, maintenance work*)

Creation of a new water storage for the purpose of irrigating adjoining land.

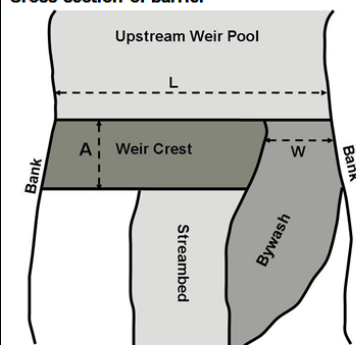
9) What are the details of the proposed construction materials? (*e.g. earth, concrete, rock fill, steel, timber, sand*)

Zoned earth and rock-fill.

10) Provide the following details of the proposed barrier in reference to the diagrams below.



Cross section of barrier



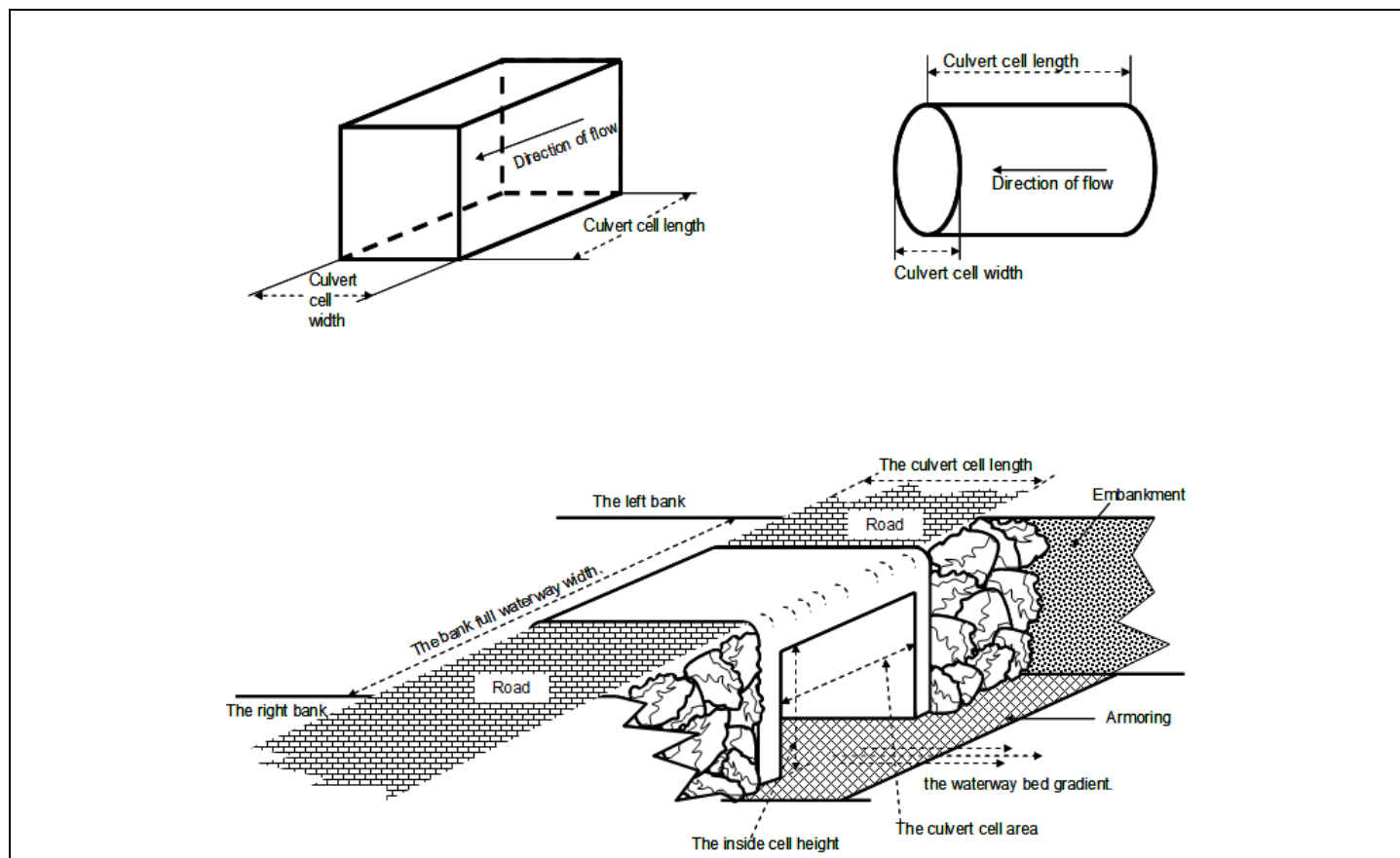
Aerial view of waterway

Total crest height (D)	13.3	metres
Thickness (A) of crest	4.0	metres
Height of spillway/bywash (H)	12.1	metres
Width of spillway/bywash inlet (W)	60	metres
Base width (B)	Approx. 72	metres
Internal diameter (O) of outlet pipe/works and discharge capacity	Nil	millimetres
Length of wall (L)	270	metres
Distance of backup from barrier wall at full supply level	Approx. 850	metres
Volume of storage	486	megalitres
If raising an existing waterway barrier, additional height above existing crest	n/a	metres
If raising an existing waterway barrier, method of raising (e.g. capping crest, inflatable bag, gates etc.).	n/a	

### Part 3 – CONSTRUCTING A NEW OR MODIFYING (INCLUDING MAINTENANCE AND REPLACEMENT OF) AN EXISTING CULVERT

*Note: If the development application involves more than one culvert relating to this part, please generate another part 3 and attach to the application.*

11) What is the nature of the proposed work?	<input type="checkbox"/> Construction of a new culvert <input type="checkbox"/> Maintenance of an existing culvert <input type="checkbox"/> Replacement of an existing culvert		
12) What is the purpose of the proposed culvert?			
13) If the culvert is temporary ( <i>in place less than 12 months</i> ) how many days will the culvert be in place?			
14) Will the culvert extend across the waterway from bank to bank?	<input type="checkbox"/> Yes, go to question 15 <input type="checkbox"/> No		
14.1) What is the length of the proposed culvert? ( <i>across the waterway</i> )		metres	
14.2) What is the width of the waterway? ( <i>bank to bank</i> )		metres	
15) What type of culvert is proposed? ( <i>Tick all applicable boxes</i> )	<input type="checkbox"/> Box culvert <input type="checkbox"/> Combination culvert	<input type="checkbox"/> Arch culvert <input type="checkbox"/> Other – please specify	<input type="checkbox"/> Pipe culvert <div></div>
16) In reference to the diagrams below, provide the following details of the proposed culvert.	How many culvert cells are there?		
	What is the upstream downstream culvert cell length?		metres
	What is the inside cell width of each culvert (or diameter of pipe culvert)?		metres
	What is the internal height within the culvert cell?		metres



#### Part 4 – CONSTRUCTING NEW OR MODIFYING (INCLUDING MAINTENANCE AND REPLACEMENT) AN EXISTING WATERWAY BARRIER EXCEPT THOSE LISTED IN PARTS 2 AND 3

*Note: If the development application involves more than one barrier relating to this part, please generate another part 4 and attach to the application.*

17) What is the nature of the proposed work?	<input type="checkbox"/> Construction of a new barrier <input type="checkbox"/> Maintenance of an existing barrier <input type="checkbox"/> Replacement of an existing barrier	
18) Briefly describe the proposed barrier.		
19) If the barrier is temporary ( <i>in place less than 12 months</i> ) how many days will the barrier be in place?		
20) Will the barrier extend across the waterway from bank to bank?	<input type="checkbox"/> Yes, complete question 20.1 and 20.2 <input type="checkbox"/> No	
20.1) What is the length of proposed barrier? ( <i>across the waterway</i> )		metres
20.2) What is the width of the waterway? ( <i>bank to bank</i> )		metres

21) What is the purpose of the proposed barrier?

22) What is the maximum height of the proposed barrier above the existing bed level?

metres

23) What are the proposed construction materials? (e.g. earth, concrete, rock fill, timber, sand)

24) Does the barrier follow the natural gradient of the bed level?

☐ Yes

☐ No