



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION

**STORING WATER
DAM CLASSIFICATION**

1. PARTICULARS OF DOWNSTREAM DEVELOPMENT THAT WOULD BE THREATENED BY DAM FAILURE

Describe, with reference to a 1:50 000 map, the nature and situation of downstream development that would be threatened by failure of the dam. "Development" means any houses, dwellings, other buildings, roads, bridges, cultivated lands, orchards, powerline foundations, etc.

Definition of the downstream area wherein all development must be described:

- for every one metre of maximum wall height, analyse at least one kilometre of the valley downstream of the wall

- for the calculation of the width of the strip, assume the following heights above the river bed:

2/3 of maximum wall height for the first kilometre downstream and 1/2 of the maximum wall height for the rest of the downstream distance.

1.1 Buildings such as houses, dwellings and other similar structures:

Distance down-stream (km)	Purpose or use of structure	Height above river bed (metres)	Distance from river (metres)	Number of inhabitants or users

1.2 Road and railway crossings downstream of the dam:

Distance down-stream (km)	Type ¹	Tar road? (X)	Height above river bed (metres)	Bridge, culvert or pipe openings			Crossing type ²	Visibility distance (m)		Number of vehicles per day
				width and height (metres)	diameter (metres)	how many		first	second approach ³	

¹Type Use one of the following abbreviations: MRD = main road, SRD = secondary road, DRD = district road, FRD = farm road, STR = single track railway, MTR = multi-track railway. Explain other abbreviations below:
 = =

²Crossing Use one of the following abbreviations: C = culverts or pipes encased in concrete, E = culverts or pipes buried in earthfill or rockfill, B = concrete bridge with piers. Explain other abbreviations below:
 = =

³Visibility This is the distance to a bridge or crossing from where a motorist can see if there is any danger in using the bridge or crossing. Both approach distances are required. If the distance equals or exceeds 1 kilometre, enter 999.

1.3 Other development downstream of the dam, not covered by 1.1 or 1.2:

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<i>category (mark one with X)</i>	I <input type="checkbox"/>	II <input type="checkbox"/>	III <input type="checkbox"/>
<i>size class (mark one with X)</i>	small <input type="checkbox"/>	medium <input type="checkbox"/>	large <input type="checkbox"/>
<i>hazard potential rating (mark one with X)</i>	low <input type="checkbox"/>	significant <input type="checkbox"/>	high <input type="checkbox"/>

<i>File number</i>		
<i>Water use licence or registration number</i>		
<i>Water management area</i>		
<i>Received by:</i>	<div style="border: 1px solid black; width: 100%; height: 100%; margin-bottom: 5px;"> </div> <i>Date stamp of receiving office</i>	
<i>Surname</i>		
<i>Initials</i>		
<i>Rank</i>		
<i>Signature</i>		