



Consultant's Design Certification Checklist Retarding Basins

EXAMPLE FOR CONSULTANT'S OPTIONAL INTERNAL USE
NOT REQUIRED TO BE SENT TO MELBOURNE WATER

Project name and EPMS ref: _____

Subdivision: _____

Municipality: _____

Developer: _____

Consultant: _____

Consultant rep: _____































Melbourne Water assessor: _____








































Consultant ref: _____

Melbourne Water ref: _____

Melways ref: _____

Date: _____

Retarding Basins		Yes	No	N/A	Comments
1	An ANCOLD assessment has been completed and accepted by MW.				
2	Risk assessment guidelines have been met – calculating people/group at risk, warning time, vulnerability of people/group at risk, temporal factors, in cut versus filled embankment requirements.				
3	RB sizing is satisfactory - hydrology (designed to operate safely). Options are: 1) if failure occurs no incremental impact to downstream 2) spillway passes flood capacity 3) RB designed to withstand overtopping without failure occurring				
4	Cascade/incremental effect of possible failure, planning for future development, and base safety conditions have been addressed.				
5	Dam break modelling – initial assessment, intermediate assessment and comprehensive assessment requirements have been addressed.				
6	Geotechnical requirements – completed prior to design by qualified and experienced consultant, determination of embankment material including imported material, filter and topsoil requirements. (Geo consultant may also need to be present during construction for sign off of construction hold points.)				
7	Appropriate design – inlet and outlet, foundation, embankment, spillway, appropriate batter slopes, existing services requirements have been met.				
8	Embankment design – stability, scour protection, debris loads, filter, concrete encasing of conduit (RRJ pipes), compaction, freeboard, road on embankment requirements have been met.				
9	Spillway design – depth, velocity, duration of flows, constructed of non-erodible material, unable to be blocked, connectivity between spillway and embankment have been met.				
10	Vegetation requirements - grassing on embankments, no tree or shrubs within 3m of toe of embankment, tree canopy (once mature) should not extend within 3m of toe of embankment.				

11	Construction supervision requirements (Level 1 supervision) have been stated on drawings.				
12	Operational and maintenance agreement has been accepted.				
13	Emergency planning requirements stated.				
14	Ground water impacts have been considered in the design.				
15	H&S implications been considered with this project.				
16	All pipe connections are to Melbourne Water standard (including outlet velocity).				
17	A SEMP has been accepted.				
18	Existing habitat has been retained.				
20	The setback from wetland requirements has been met.				
21	The design is unencumbered by any pumps.				
22	Appropriate signage has been allowed for.				
23	All underground assets/services meet Melbourne Water's cover and offset requirements.				
24	Council's written acceptance of any GPTs has been provided.				
25	All services passing under the asset meet Melbourne Water's flood retarding basin design and assessment guidelines .				
26	The design is unencumbered by any fall from height or public safety issues.				
27	All land owners have accepted the design and construction in writing.				
28	A maintenance track is provided around the RB.				
	Note: If there is a wetland in the base of the RB, refer to both the RB and wetland checklist.				