Consultant's Design Certification Checklist Waterways

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: _____

	Waterways	Yes	No	N/A	Comments
1	There are no pipelines (other than the connection from the sediment pond) discharging into the waterway. If there are, these should be removed unless pre-treatment is provided. (All piped outlets are to be directed into the sedimentation pond.)				
2	All batter slopes are at or flatter than 1 in 5. (If not the plans must show appropriate planting or other safety protection measure suitable for the proposed batter).				
3	The plant species, quantity and density are in line with the Constructed Waterway Guidelines.				
4	All rock work and void filling is to Melbourne Water standard.				
5	All rock chutes are to Melbourne Water standard.				
6	All crossings of the waterway meet either Melbourne Waters constructing waterway crossing guideline or shared pathway guideline (depending which is appropriate) and are indicatively shown on the civil plans. Council has accepted the maintenance of these assets in writing.				
7	Jute matting has been incorporated rather than mulch.				
8	Temporary or permanent fencing has been provided for fall protection or until permanent planting is established.				
9	Maintenance responsibilities (line of demarcation typically between Council and Melbourne Water) have been agreed upon in writing.				
10	A draft maintenance plan has been developed and reviewed.				
11	All stakeholders (including Council) have accepted the design and ongoing maintenance in writing.				
12	The waterway has been designed using an appropriate hydraulic model that considers roughness coefficients, limiting velocities and shear stress analysis.				
13	There is appropriate freeboard between the TWL and the block levels.				
14	Maximum water level in the channel is below the lowest points of				

	abutting land.				
15	Waterway design takes into account the safety of people and vehicles.				
16	The planting plans have been submitted and accepted by River Health.				
17	All flora and fauna, geological and AAV requirements have been met.				
18	Ground water impacts been considered in the design.				
19	H&S implications have been considered.				
20	All pipe connections are to Melbourne Water connection standards (1.12) as per the Planning and Building website (including outlet velocity).				
21	A SEMP has been created and accepted.				
22	Existing habitat has been retained.				
23	The design caters for fish passage.				
24	The setback from waterway requirements has been met.				
25	Appropriate signage has been incorporated in the design.				
26	All underground assets/services meet Melbourne Water's cover and offset requirements.				
27	The design is unencumbered by any fall from height or public safety issues.				
28	All land owners have accepted the design and construction in writing.				
29	Appropriate freeboard has been added to the flow depth.				
30	Channel design is based on Manning's formula with appropriate roughness coefficients and limiting velocities used.				
31	The compound channel method has been used.				
32	Maximum water level in channel is below the lowest points of abutting land.				
33	Floodway design takes into account the safety of people and vehicles.				

34	Allowance has been made for drop structures and rock.				
35	Allowance has been made for entry or exit control on culvert designs.