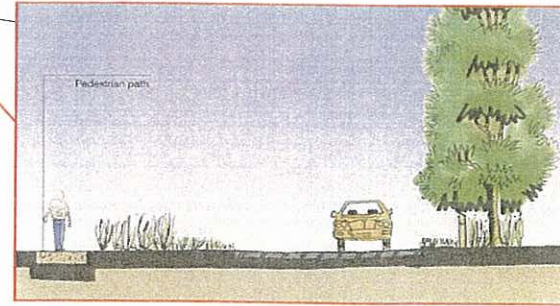


Concept sketch indicating road reserve with vegetated buffer zones and bioretention swales for stormwater runoff and quality treatment.



Typical WSUD vegetated swale treatment along a minor local road.



Concept sketch indicating road reserve with vegetated buffer zones.



Typical WSUD bioretention swale treatment along a minor local road.

Water Sensitive Urban Design Summary for Barlings Beach

- Drainage design intends to use naturally occurring sand with high infiltration rate on property to advantage by:
 - o allowing stormwater to infiltrate the surface from open swales instead of collecting it in pits and pipes and discharging it into nearby streams
 - o allowing sand and vegetation to act as a filter to remove undesirable substances found in stormwater prior it entering waterways.
- For minor rainfall events stormwater is expected to pond in the swales and infiltrate into the watertable. Any small surface flows would be collected in post-treatment drains and piped to creek or existing drainage outlets.
- Water Sensitive Urban Design (WSUD) swales to be provided on internal roads (omitted from plan for clarity)
- Based on recorded height of the water table and assuming no lateral groundwater flow to the south, the water table would not be expected to reach the surface in a 1 in 100 year storm (refer attached data).
- Roads will grade to allow overland flow paths in 1 in 100 year events.

LEGEND

	ROAD GRADING DIRECTION
	EXISTING ROAD GRADING DIRECTION
	SUBSURFACE FLOW DIRECTION
	INDICATIVE 'POST TREATMENT' DRAIN
	CATCHMENT BOUNDARY
	EXISTING CONTOUR (0.5m)
	EXISTING CONTOUR (2.5m)
	PROPOSED CONTOUR (0.2m)
	PROPOSED CONTOUR (1.0m)
	STORMWATER TREATMENT SITE (INFILTRATION/WATER QUALITY)
	PROPOSED FINISHED LEVEL
	EXISTING LEVEL

Department of Infrastructure, Planning and Natural Resources
 Issued under the Environmental Planning and Assessment Act 1979
 Approved Development Application No. 77-3-2002
 granted on the 17 DEC 2005 subject to any conditions contained in the notice of determination.
 Signed *H. Morgan* Date 10/01/06
 Sheet No. 2 of 5

PROPOSED FILL LEVELS AND CONTOURS ARE PRELIMINARY ONLY AND SUBJECT TO DETAIL DESIGN- PRELIMINARY ROAD GRADING MIN: 1 in 500- AREAS EAST OF CREEK SUBJECT TO FURTHER INVESTIGATION

Barlings Beach

Municipality Eurobodalla Shire Council	Sheet 1 of 1
Reference No 150374	Revision 4
Drawing Status PRELIMINARY	Date 14/10/2005
Map Reference	Drawn T. Reed
NORTH Co-ordinate Datum	

File name: 150374007 Fill Plan.dwg Isyent name: AT @ 1 2005
 File location: G:\150374\ACAD\150374.dwg
 Plot date: Fri 14 Oct 2005 17:32
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