

# Recommendations

## Raw water quality

1	The operators and regulator(s) of the sewage treatment systems in the Catchment should continue efforts to reduce current levels of nutrient loads discharged into the Catchment.	New
	The SCA focus its programs for nutrient reduction from diffuse sources on the Wingecarribee River (priority), Wollondilly River (priority), and Mulwaree River (priority) sub-catchments, and encourage other organisations undertaking related programs to focus on these same sub-catchments where possible.	2005 Rec. 5 Carried over
	The SCA identify the cause of exceedence of the Bulk Water Supply Agreement for turbidity, pH and algae at water filtration plants.	2005 Rec. 6 Carried over
2	The SCA should continue the process of understanding the causes of the 'high' incidences of algae in the water storages of the Kangaroo River (priority), Wingecarribee River (priority) and Lake Burragorang sub-catchments, to help ensure that specific management strategies are in place for the short, medium and long term in each sub-catchment.	New (Revised 2005 Rec. 7)
3	The SCA should investigate the causes of the continuing presence of pathogens in the Nattai River (Gibbergunyah Creek), and the Wollondilly River, Mid Coxs River and Werriberri Creek (priority) sub-catchments.	New (Revised 2005 Rec. 8)
4	The SCA should undertake sampling for the presence of pathogens in the Kangaroo River (priority) sub-catchment.	New

## Managing water resources

	The DWE undertake research into the impact of different levels of water extraction and harvesting of water in farm dams on flow regimes and ecosystem health within the Catchment, focusing on the sub-catchments most under pressure from water extraction and water harvesting.	2005 Rec. 9 Carried over
	The DNR require groundwater extraction volume metering and reporting with a priority for implementation on licences in the Southern Highlands, Kangaroo River (priority), Werriberri Creek (priority) and Wingecarribee River (priority) sub-catchments.	2005 Rec. 11 Carried over
	The DNR give consideration to locating new monitoring bores in the Southern Highlands, Kangaroo River (priority), Werriberri Creek (priority) and Wingecarribee River (priority) sub-catchments.	2005 Rec. 12 Carried over
5	DWE should work with stakeholders to complete a Water Sharing Plan that covers the Catchment as soon as practicable.	New

## Land condition

	The SCA and DECC prepare a detailed land-use map at five-year intervals. The resolution and categorisation should be sufficient so that change from the previous map can be determined.	2005 Rec. 16 Carried over
	The SCA develop pollution prevention or rehabilitation programs at sites identified as very high, high and medium risk to water quality, in consultation with relevant agencies, operators and landholders.	2005 Rec. 18 Carried over

	DECC and DWE develop systems in consultation with the SCA for recording the location, nature and extent of actual cases of soil erosion and land salinity in the Catchment.	2005 Rec. 19 Carried over
6	The SCA, DECC and CMAs should undertake programs that address soil erosion and salinity in the areas with identified and observed risk, and integrate them with other programs for riparian and vegetation management where possible.	New (Revised 2005 Rec. 20)

### Ecosystem health

7	The SCA should investigate the reasons and drivers for the decline in both water quality and macroinvertebrate health in those sub-catchments where declines have been documented.	New
8	The SCA should review its water quality and macroinvertebrate monitoring program to ensure that appropriate integrated ecosystem monitoring is undertaken in all sub-catchments.	New (Revised 2005 Rec. 21 and 22)
9	The SCA should undertake follow-up monitoring at macroinvertebrate monitoring locations that have significantly impaired or severely impaired AusRivAS ratings.	New (Revised 2005 Rec. 23)
	The DPI, in consultation with SCA, develop a fish community monitoring program for the Catchment to assist the management of aquatic ecosystem health.	2005 Rec. 24 Carried over
	DECC and SCA jointly undertake vegetation condition mapping of areas outside the Special Areas.	2005 Rec. 25 Carried over
	The SCA examine the potential for, and benefits of, integrating ecosystem water quality, macroinvertebrate, fish (when developed) and riparian vegetation condition monitoring programs	2005 Rec. 3 Carried over

### General

10	The frequency of the Audit should be changed to every three years, instead of two years, from 2009 to align with State of Environment (SoE) and Monitoring, Evaluation and Reporting (MER) timeframes.	New (Revised 2005 Rec. 1)
11	Opportunities for the development of common or complementary indicators between the Audit SoE and MER reporting processes should be examined.	New
12	The SCA, DECC and CMAs should work together to establish a spatial information system to track and record information on all on-ground works being undertaken or funded by government for the purposes of water quality and ecosystem health management in the Catchment.	New (Revised 2005 Rec. 2)