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Water environmental function zoning at watershed scale and its key problems

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At present, some problems are found in the current water environmental function zoning. Based on the theory of the landscape ecology, the watershed protection approaches and the ecosystem services, the methods of ecoregions, the the ecosystem integrity assessment, and the comparative analysis, this paper proposes the concept of water environmental function zoning at watershed scale (WEFZWS) and analyzes its meaning, technical approaches and key problems. This WEFZWS is consistent with the international trend and the national requirement, especially at watershed scale, harmony and the site-specific and dynamic. And this WEFZWS efficiently balances the relationship between the human demand function and the water ecosystem demand function, and harmonizes the conflicts in trans-boundary regions, and synthetically considers the use of water resource, the environment restoration and the water ecosystem protection. In a word, this WEFZWS will promote China's water environment management and watershed management in the future.

【Key Words】 : **water environmental function zoning at watershed scale technical approach watershed management water ecosystem**

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