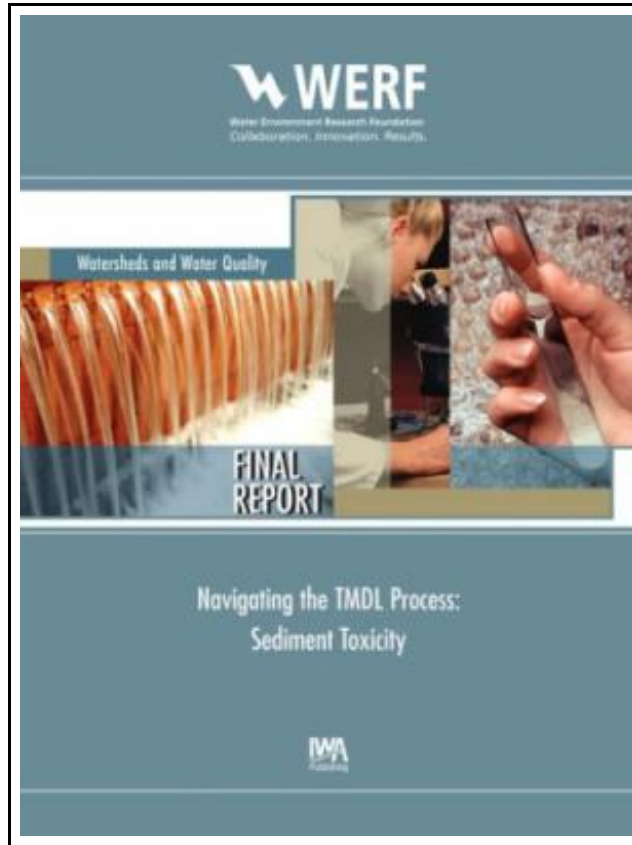


Navigating the TMDL Process: Sediment Toxicity



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Reviews

Very useful to any or all type of people. This is certainly for those who statte there was not a worth reading through. You can expect to like how the writer write this pdf.

(Dr. Rashawn Lang)

NAVIGATING THE TMDL PROCESS: SEDIMENT TOXICITY



Iwa Publishing, United Kingdom, 2008. Paperback. Book Condition: New. 234 x 156 mm. Language: English . Brand New Book ***** Print on Demand *****.A key step in the development of Total Maximum Daily Load (TMDL) allocations for water bodies impaired due to sediment toxicity is the identification of chemicals responsible for toxicity. Sediment toxicity identification evaluation procedures (TIEs) are one of the primary tools used in this process. This project evaluated standardized and recently developed sediment TIE methods developed by the US EPA and others, to determine their utility for identifying chemicals responsible for toxicity. In this study, formulated sediments were spiked with five chemicals: copper, fluoranthene, tetrachlorobenzene, nonylphenol and ammonia. Experiments were conducted using sediments spiked with single chemicals and chemical mixtures. Toxicity tests used the estuarine amphipod *Eohaustorius estuarius* and the freshwater amphipod *Hyalella azteca*. TIEs were conducted using solid-phase (whole sediment) and sediment interstitial waters. Results indicate that the TIE methods are sufficient to characterize and identify toxicity due to single and multiple chemicals using spiked sediments. One key finding from the spiked sediment experiments is that methods to elute chemicals from extraction media used in solid-phase and interstitial water TIEs require further refinement to ensure complete and consistent elution of sorbed chemicals. An additional finding is that both solid-phase and interstitial water TIE procedures provide useful lines of evidence and that both approaches should be used in a weight-of-evidence approach in the sediment TIE process. In the final phase of this project, we evaluated the TIE procedures using ambient samples collected from three marine sites and three freshwater sites. Marine sediments were collected from Switzer Creek in San Diego Bay, Upper Newport Bay in Newport Beach, and Consolidated Slip, in Long Beach Harbor, all of which are sites in southern California. Freshwater sediments were collected from...



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