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An Evaluation of the Eclox Chemiluminescence Test, Hach Pesticide/Nerve Agent Test Strips, and Agri-Screen Test Tickets

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Abstract: The United States Army Center for Environmental Health Research (USACEHR) has developed an Environmental Sentinel Biomonitor (ESB) system to test Army drinking water supplies for the presence of toxic industrial chemicals (TICs). One of the technologies considered for inclusion in the ESB system was the Eclox **Chemiluminescence** Test, which, along with the Pesticide/Nerve Agent (P/NA) Test Strip is available as part of the Hach Eclox Rapid Response Water Toxicity Kit. The Eclox test and P/NA Test Strips are simple, rapid tests with sturdy packaging and materials, and the reagents used are stable for up to one year. However, the Eclox and P/NA Test Strip combination responded to only 2 of 21 chemicals in the desired sensitivity range between the military exposure guideline and human lethal concentrations for each chemical.

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Description:	Technical rept.
Pages:	48
Report Date:	30 Jun 2010
Report Number:	A515525

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