

Current Remediation Options for 1,4-Dioxane

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This presentation will discuss 1,4-dioxane as a Contaminant of Emerging Concern (CEC) that is increasingly being detected in groundwater, surface water, and drinking water. 1,4-dioxane is primarily associated with chlorinated solvents sites where it was used as a stabilizer primarily for trichloroethane; however, there are many other uses of it resulting in impacts outside of chlorinated solvent spill sites. The presentation will outline the properties of 1,4 -dioxane as it impacts remediation. Case studies will be used to illustrate both ex-situ and in-situ remedial options to treat 1,4 -dioxane. Remedial options to be discussed will include reliable, proven technologies such as advanced oxidation and sorption, but also will discuss evolving technologies such as thermally enhanced removal, bioremediation and phytoremediation.