Phyto-Engineering of Arsenic Contaminated Soil. (A02-lee213427-Oral)

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Abstract:

Phyto-Engineering principles were applied to arsenic contaminated soil and dredged material using Edenspace ferns to phyto-extract the arsenic from the soil and dredged material. Greenhouse tests were initially conducted to evaluate the potential for reducing soil arsenic concentrations by growing ferns. Field demonstration plots were established to field verify the greenhouse tests. Ferns grown in the arsenic contaminated soil with 100 mg/kg total arsenic contained up to 1,800 mg/kg arsenic in the leaves.

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