Phyto-Engineering Applications to Brownfield Redevelopment. (A02-lee220503-Oral)

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Abstract:

Phyto-Engineering was applied in an evaluation of restoration for an abandoned slag pile on a brownfield project in Pittsburgh, PA. A field demonstration was established on slag residue using available materials such as dredged material, biosolids, ash, and wastepaper fiber. The demonstration was part of a job-training program at the Brownfield Center of Carnegie Mellon University to train students for job opportunities in the redevelopment of brownfields. Students applied and blended the various materials alone or in combination to specific plots. All plots were seeded to grass. The best vegetative growth was observed from the blend of dredged material, wastepaper fiber and biosolids according to Recycled Soil Manufacturing Technology. Consequently, the conclusion of the demonstration was that fertile topsoil could be produced with dredged material, wastepaper fiber and biosolids for application to slag residual materials at brownfields.

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