

RESIDUAL MATERIALS MANAGEMENT AND BENEFICIAL USE
Reducing Waste While Increasing Value

Sterling Environmental Engineering, P.C. offers RESIDUAL MATERIALS MANAGEMENT AND BENEFICIAL USE services. Sterling has extensive experience finding new beneficial uses of materials, including post-consumer end-of-life and waste materials typically destined for disposal, thereby capturing embedded value and reducing the environmental stress associated with continued reliance on virgin natural resources.

Residual materials that may be used beneficially are often disposed of at a cost to the generator or manufacturer. STERLING can work with an industry to examine its production and materials handling processes for potential ways to divert residual material towards beneficial use. This can result in significant savings over current waste management costs. Examples of STERLING's experience includes assisting concrete manufacturing companies in developing options for managing residuals from cement production, concrete mixing, transportation, and delivery operations.

STERLING tailors its evaluation through understanding a client's unique needs as it develops potential management options.



The evaluation looks for opportunities to use a residual material as a resource for new product lines including pursuing Beneficial Use Determinations (BUDs), regulatory exemptions, exclusions, or other regulatory relief. When applicable, STERLING prepares a petition for a case specific BUD addressing the proposed action or end use at a given site for submission to the NYSDEC.

Additionally, material handling procedures go hand in hand with stormwater management and other onsite environmental management practices. STERLING staff is certified and credentialed to provide stormwater management and environmental permitting services.

PROJECT EXPERIENCE

Residual Materials Management

STERLING routinely utilizes the following materials in engineered landfill closure or general construction projects: Construction surplus soil, stone, wood chips, plaster, brick, pavement, crushed glass, C&D, CKD, coal ash, Class 1 compost, masonry products, rock dust, concrete, clinker, clearing & grubbing materials, wood, roofing materials, dewatered sewage sludge/soil mixture, and foundry sand.

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Experience:

- Taylor Recycling Facility, LLC, Town of Montgomery, NY.
Utilized processed C&D as grading material, fill, and erosion control mulch in several landfill closures.
- Steel Style, Newburgh, NY
Assisted in the management of regulated solid waste including dredge spoil.
- Iroquois Foundry, Waverly, NY
Developed a beneficial use petition for Iroquois' foundry sand seeking to utilize foundry sand for various clean fill applications.
- Kilby Brothers, Inc., Albany, NY
Landfill project utilized glass cullet for gas venting and grading material.
- Coal ash was utilized as landfill grading material for the following projects:
 - Ø Town of Shawangunk Landfill, NY
 - Ø Central Hudson, Danskammer, NY
- C&D was utilized as landfill grading material for the following projects:
 - Ø Town of Bethel Landfill, Bethel, NY
 - Ø Town of Monroe Landfill, NY
 - Ø Town of Fallsburg Landfill, NY
 - Ø Town of Southeast Landfill, NY

REPRESENTATIVE SERVICES:

- Alternate Grading Material
- Beneficial Use Petitions
- Comprehensive Solid Waste Planning
- Construction Certification
- Engineering Design
- Environmental Impact Analysis
- Environmental Monitoring Programs
- Federal, State and Local Regulatory Permitting
- Material Tracking/Construction Supervision
- Recycling Programs
- Solid Waste Facility Siting Studies
- Waste Characterization Studies

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