



NE-AIPG - Webinar

Tuesday, March 25th, 2025
6:00PM-7:00PM



Title: Posillico Wash Plant
Recover, Repurpose, Reuse:
Sustainable Soil Washing
with Posillico Materials

Presented by:
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Posillico Materials and PPark, NJ

Registration is open on
NE-AIPG's website
(<https://ne-aipg.org>).

Abstract:

Approximately 50 billion tons of sand are used each year by the construction industry. The construction industry is the biggest consumer of this natural resource. Other industries that use sand at great volumes include the fracking industry, the glass industry and the electronics industry. **The demand for sand and gravel products is significantly higher than the amount of sand our resources can sustainably provide.** According to the New York City Department of Design and Construction (NYC DDC), **construction and demolition (C&D) waste makes up 25–45% of the solid waste stream in the United States by weight.** In New York City, **C&D waste makes up more than 60% of the solid waste stream.** And according to Environmental Research and Education Foundation (EREF), as of 2020, **C&D waste is accepted at MSW landfills in 41 states and comprises roughly 12 percent of the landfilled waste stream. Illegally dumped material is not accounted for.** Because of high tipping fees, high transportation costs and the lack of permitted facilities in close proximity to the work, contaminated material has been dumped in local communities (including Long Island, NY where Posillico is located) posing a danger to public health and groundwater quality.

This presentation will discuss: the theory and process of soil washing, Posillico Material's Wash Plant Facility, the regulatory hurdles, different Wash Plant processes, Long Island geology, New York State historic fill, the types of material accepted, and the types of products that are produced from the washing process which demonstrates the sustainable value that soil washing produces.

The ultimate goal is to change the industry and project required specifications to **have recycled products to be an option and not just native/virgin material, where applicable.** Based on engineering specifications for projects, the recyclable product the Wash Plant produces is a cheaper and more sustainable option for backfill needs. **Recycled aggregate is a sustainable alternative to virgin material and can be used interchangeably in many applications.** There are engineering, economic, and environmental benefits to using a washed recycled aggregate.

Learning Objectives:

- Understand soil washing and its applications and end-products.
- Understand how the geotechnical properties of certain regional areas (Long Island, NYC and New Jersey geology) determines how effective the soil washing process can be and what reusable material that can be produced.
- Understand that natural/virgin aggregates are being depleted and are not a sustainable resource and how recycled aggregates can be a great alternative to natural/virgin materials.

Tickets:

AIPG Members – Ticket, no PDH* _____ \$20
AIPG Members – Ticket with/PDH* _____ \$25
NON-AIPG Members – Ticket, no PDH* _____ \$35
NON-AIPG Members – Ticket with/PDH* _____ \$40

*PDH pending approval by NYSCPG for Professional Geologists (NY design professionals - engineers, land surveyors, geologists)

For more information and to register
visit <https://ne-aipg.org>.