



The State of New Hampshire
Department of Environmental Services



Michael P. Nolin
Commissioner

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To: Interested Parties

From: Anthony P. Giunta, P.G.
Director, Waste Management Division
Department of Environmental Services

**SUBJECT: CERTIFIED WASTE-DERIVED PRODUCT NO. 19, WOOD-FIRED
POWER PLANT BOTTOM ASH**

Pursuant to Env-Sw 1507.05 and Env-Sw 1508 of the New Hampshire Solid Waste Rules (Rules), the Department of Environmental Services, Waste Management Division (Department) has added Wood-Fired Power Plant Bottom Ash (product) to the Department's list of certified waste derived products. Use of the product must adhere to Part Env-Sw 1502.04 of the Rules which are designed to protect public health and the environment. Before distributing the product, be sure to note any specifications or restrictions that have been placed on the use, storage, handling, and production of the product.

Product definitions, specifications, and permissible uses are attached.

This certification granted by the Department shall not affect the user's obligation to obtain all requisite federal, state, or local permits, licenses or approvals, and to comply with all other applicable federal, state, district or local permits, ordinances, laws or approvals or conditions pertaining to the use of the product.

For permitting information and questions, please call the Department's Solid Waste Management Bureau at (603) 271-2925 for assistance.

cc: PDRS CWDP File

Certified Waste-Derived Product No. 19
Wood-Fired Power Plant Bottom Ash Definitions, Specifications, and Permissible Uses

Wood-Fired Plant Bottom Ash (product) shall be deemed certified for distribution and use as a construction aggregate under the following conditions:

A. Definitions

1. "Base Course" means the layer or layers of specified or selected material placed on a subbase or subgrade to support pavement or other structure.
2. "Subbase" means the layer or layers of specified or selected material placed on a subgrade to support a base course.
3. "Subgrade" means the top soil surface upon which a subbase or base courses are placed.

B. Specifications

1. The product shall be derived as a by-product of the combustion of virgin wood products.
2. Stockpiles of the product will be limited to that amount of ash that is intended to be used, and site access will be restricted for all areas where the product is stored. Stockpiles are to be actively managed and shall comply with the universal facility requirements of Env-Sw 1000 of the New Hampshire Solid Waste Rules (Rules).
3. The product shall be tested on at least a quarterly basis using monthly composite samples for arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, and zinc.
4. Screening concentrations for permissible use of the product as a construction aggregate shall not exceed:

Metal	Screening Concentration (mg/kg)
Arsenic	10
Cadmium	10
Chromium	160
Copper	1000
Lead	270
Mercury	7
Molybdenum	18
Nickel	98
Selenium	18
Zinc	1780

C. Permissible Uses

1. Base course and subbase aggregate for the construction of a portland cement concrete or asphaltic concrete paved lot
2. Base course and subbase aggregate for the construction of a paved federal, state, or municipal roadway
3. As a component of storage pads for other materials
4. Substitute for drainage sand used in construction projects where a free draining subsurface is desired (e.g., backfilling foundations or pipes incorporated into drainage systems such as tiles or perforated piping)
5. Subgrade product to bring a surface to grade (e.g., leveling fill for recreational field)
6. Aggregate used in the production of concrete or asphalt