

# Beneficial Use (Reuse)

Department of Environmental Protection  
Carey L. Hurlburt

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# What is Beneficial Use?

- Defined in Section 22a-209f of the CGS
  - Reusing a non-hazardous “solid waste” in a manufacturing process to make a product or as an effective substitute for a commercial product
  - “Solid Waste” assumes unwanted, discarded materials
  - “By-product materials” is actually the preferred terminology used today
  - DEP is authorized to develop “BU General Permits”



# History of Beneficial Use

- 1990's – Many landfills began to close & mandatory recycling started
- Industry's Awareness that by-products may have “value”
- CT DEP develops a Beneficial Use Guidance Document
  - [http://www.ct.gov/dep/lib/dep/waste\\_management\\_and\\_disposal/beneficial\\_use/beneficialuseguide.pdf](http://www.ct.gov/dep/lib/dep/waste_management_and_disposal/beneficial_use/beneficialuseguide.pdf)
  - Requires Waste Characterization Studies, Ecological Risk & Health Risk Assessments especially for broad, unrestricted reuse scenarios
  - To date, DEP has issued only “4” BU General Permits



# CT Beneficial Use General Permits

- “Crushed Recycled Container Glass” - generated only at Intermediate Processing Centers & reused as reclaimed aggregate in concrete, asphalt & trenching applications (valid 1996-2001) \* 2003 – CGS Section 22a-208z
- “Processing Tires for Beneficial Use Applications” (valid since 2005 – expires Sept. 30, 2010)
- “Two-Inch Nominal Tire Chips” - to be used as a substitute for aggregate in sub-surface sewage disposal leaching fields (also expires Sept. 30, 2010)
- “Asphalt Roofing Shingles” used in sub-base, aggregate base, and/or hot mix binder applications according to industry standards (Valid 2006-May 31, 2011)



# Beneficial Use Determinations

- CT needed the authority to issue individual “Beneficial Use Determinations” (BUDs) as opposed to Statewide General Permits
- Other States have had this authority and have issued literally hundreds of BUDs
- Starting October 1, 2009, CT DEP is now authorized to issue BUDs !



# Anticipated Registrations

- **PSEG** - Coal Ash reuse in concrete applications
- **Redland Brick** – Scrubber residue reused as lime
- **NLR** – Recycled Fluorescent Bulb Glass reused for sand in road construction applications
- **Utilities** - Contaminated Soils reused in asphalt & as sub-base
- **Water Treatment Plants** – Sludge reuse as a soil or compost blending agent
- **Sewage Treatment Plants** – Grit reuse in asphalt production
- **Municipalities** – Street sweeps reused in asphalt production



# Registration Form & Fees

- Form will be posted on DEP's website soon
- For today, a paper version of the form is available; We will send an electronic version, upon request
- Fees for a "5" year BUD approval:
  - Less than or equal to "12" tons/yr = \$2,625.
  - Over "12" tons/yr = \$5,250.
- Renewal BUD approvals:
  - Less than or equal to "12" tons/yr = \$1,315.
  - Over "12" tons/yr = \$ 2,625.



# For Additional Information

- DEP's website: "Beneficial Use"  
<http://www.ct.gov/dep/cwp/view.asp?a=2718&q=325332&depNav-GID=1646>
- Contact Carey L. Hurlburt @ 860-424-3248