



Department of
Environmental Quality
PURE *M* ICHIGAN

Phil Roycraft, P.E.
District Supervisor,
OWMRP

MI Solid Waste Regulation

- Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended
- Michigan's Solid Waste Administrative Rules
- Subtitle D of the federal Resource Conservation and Recovery Act of 1976, as amended

Beneficial Reuse Amendments to Part 115

- Act 178 of 2014, amended Part 115
- Views waste as a potential resource
- Defines Beneficial Uses & Beneficial Use By-Products

Materials defined as Beneficial Use By-Products

- Cement Kiln Dust/Lime Kiln Dust
- Coal or Wood Ash
- Dewatered Grinding Sludge
- Flue Gas Desulfurization Material
- Pulp and Paper Mill Material
- Spent Media from sandblasting
- Stamp Sands
- Foundry Sand

Specific Beneficial Uses for By-Products

- **Beneficial Use 1** means use as aggregate, road material, or building material if it will be bonded or encapsulated by cement, limes, or asphalt.
- **Beneficial Use 2** means use as construction fill, road base, soil stabilizer, or road shoulder material.
- **Beneficial Use 3** means application of material as a fertilizer, a soil conditioner under Part 85, or a liming material under 1955 PA 162.
- **Beneficial Use 4** means use to stabilize, neutralize solid, or treat waste; to treat wastewater or sludge; to stabilize hazardous substances; or to serve as landfill construction material.
- **Beneficial Use 5** means soil mixtures using foundry sand and organic material to manufacture soil.

<div style="text-align: center;"> USE </div> <div style="text-align: center;"> MATERIAL </div> <div style="text-align: center;"> </div>	Bonded by lime, cement, or asphalt	Construction fill under impervious surface/Road shoulder	Land Applied	Remediate/ treat waste or used as fill at landfills	Soil blending	Flue gas scrubbing reagent
	Beneficial Use 1	Beneficial Use 2	Beneficial Use 3	Beneficial Use 4	Beneficial Use 5	
Wood ash/coal bottom ash			X			
Wood ash/coal ash	X	X		X		
Pulp/paper mill ash	X	X	X	X		
Mixed wood ash	X	X	X	X		
Cement kiln dust/Lime kiln Dust	X	X	X	X		X
Foundry sands (ferrous/aluminum)	X	X	X	X	X	
Stamp sands	X	X				
Pulp/paper mill material			X			
Sand blasting media from new products	X	X				
Dewatered concrete grinding slurry	X	X	X	X		
Lime Softening residuals			X	X		
Sugar beet soils			X			
Flue gas desulfurization sludge	X		X			

Beneficial Use 4

- ü To stabilize, neutralize solid, or treat waste;
- ü To treat wastewater or sludge;
- ü To stabilize hazardous substances; or
- ü To serve as landfill construction material.

