

APPENDIX A

Appendix A
Pennsylvania Waste Characterization Study
Final Material Definitions 7/10/01

| Material Group | Material Category | Material Definition | Packaging | Non-Packaging |
|----------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Paper | 1 Newspaper | Printed and unprinted ground wood newsprint. This category includes glossy paper inserts included with the newspaper. | | ✓ |
| | 2 Corrugated Cardboard | Old Corrugated Cardboard (OCC) and Kraft Paper - Kraft linerboard and containerboard cartons and shipping boxes with corrugated paper medium (excludes wax or plastic coated boxes). Includes Kraft paper bags. | ✓ | |
| | 3 Office | High-grade paper. Bond, rag-content, manila, or stationery grade paper with or without color. Includes ledger, photocopy paper, computer printouts, manila folders, index cards, and envelopes (with and without windows or gummed labels). | | ✓ |
| | 4 Magazine/Glossy | Magazines and catalogs printed on glossy, coated paper stock. | | ✓ |
| | 5 Polycoated/Aseptic Containers | Polycoated gable top beverage cartons (such as milk and orange juice cartons) and aseptic drink boxes. Excludes non-beverage polycoated paperboard boxes. | ✓ | |
| | 6 Mixed Paper (Recyclable) | Low grade recyclable paper. Includes paperboard, phone books, text books, other books and catalogs with groundwood paper; construction paper, junk mail, polycoated cartons and aseptic packages, blue prints, and glossy, coated paper (except magazines and catalogs). | ✓ | ✓ |
| | 7 Other Paper (Non-recyclable) | Low-grade non-recyclable paper. Includes tissue paper, napkins, paper towels, paper plates, paper food cartons, cigarette packages, waxed paper, wax or plastic coated corrugated boxes, coated FAX paper, and carbon paper, whether or not they are contaminated with fluids or food. Includes all other grades of paper if substantially contaminated with fluids or food waste, including pizza boxes. | ✓ | ✓ |
| Plastic | 8 #1 PET Bottles | Blow molded plastic bottles and jars labeled #1 PET | ✓ | |
| | 9 #2 HDPE Bottles | Blow molded plastic bottles and jars (both natural and pigmented) labeled #2 HDPE | ✓ | |
| | 10 #3-#7 Bottles | Blow molded plastic bottles and jars labeled #3, #4, #5 #6 or #7 | ✓ | |
| | 11 Expanded Polystyrene | Food service polystyrene, polystyrene packaging, and "peanuts". Any expanded foam product labeled #6. | ✓ | |
| | 12 Film Plastic | Any film plastic including garbage bags, retail bags, cereal bags, sheet plastic, shrink wrap, tarping, and other non-rigid plastic. | ✓ | ✓ |
| | 13 Other Rigid Plastic | Includes other thermoformed or injection-molded rigid plastic not captured in the above categories. Includes tubs, trays and containers labeled #1, #2, #3, #4, #5, #6 and #7. Includes all non-container rigid plastics such as plastic pipe, electrical components, automotive components, toys, and foamed plastics. | ✓ | ✓ |

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|-----------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|
| Glass | 14 Clear | Recyclable clear beverage and food bottles and jars | ✓ | |
| | 15 Green | Recyclable green beverage and food bottles and jars | ✓ | |
| | 16 Amber | Recyclable amber beverage and food bottles and jars | ✓ | |
| | 17 Other | Flat, pressed and blown glass products such as light bulbs, mirrors, decorative items and fixtures, windows, safety glass, and cooking ware. | | ✓ |
| Metal | 18 Steel Cans | All coated and tin-free ferrous food and beverage cans. Includes bi-metal cans and non-aerosol spray cans | ✓ | |
| | 19 Aluminum Cans | All aluminum food and beverage containers | ✓ | |
| | 20 Other Ferrous | Ferrous and alloyed ferrous scrap metals from any source except intact white goods, brown goods, and composite bulky goods defined below. | ✓ | ✓ |
| | 21 Other Aluminum | Foils, trays, siding, sheet | ✓ | ✓ |
| | 22 Other Non-Ferrous | Copper, brass, pipe, tubing, stainless steel | | ✓ |
| Organics | 23 Yard Waste-Grass | Grass clippings | | ✓ |
| | 24 Yard Waste-Other | Yard waste other than grass clippings such as leaves, garden trimmings, and brush up to 4 inches in diameter | | ✓ |
| | 25 Wood-Unpainted | Wood and dimensional lumber construction materials from new construction, remodeling, or demolition, including plywood and shingles if uncontaminated by paint, stain or preservative treatment. Includes easily separable wood from furniture, tools, and other durable products. Excludes preservative treated wood or particleboard, chipboard, or masonite. | ✓ | ✓ |
| | 26 Wood-Painted | Any wood with paint, stain or preservative treatment. Also includes particleboard, chipboard, and masonite due to their resin content. | ✓ | ✓ |
| | 27 Food Waste | Putrescible food waste. | | ✓ |
| | 28 Textiles | Fabric materials including natural and man-made textile materials made from cottons, wools, silks, nylon, rayon, polyesters, and other materials. This category includes clothing rags, curtains, and other fabric materials. Leather and leather goods are also included such as belts and wallets. Includes all shoes. | | ✓ |
| | 29 Diapers | Diapers and adult sanitary products | | ✓ |
| | 30 Fines | All particles capable of passing through a 2-inch screen if encountered loose, regardless of material type. Includes small pieces of paper, plastic, broken glass, metal, loose soil, food scraps, bottle caps, and grass clippings. | | ✓ |

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| | 31 Other Organics | Organic materials not otherwise categorized, such as natural fibers, manure, cork, hemp rope, wicker products, sawdust, and lint. | | ✓ |
| Inorganics | 32 Electronics | Electronic or electrically powered household products fabricated from metals and plastics and not easily separable into individual materials. Examples include hair dryers, radios, stereos, microwave ovens, computers, televisions, and telephones. | | ✓ |
| | 33 Carpet | Carpet | | ✓ |
| | 34 Drywall | Gypsum-based wallboard, including blueboard for use in the drywall or plaster trades | | ✓ |
| | 35 Other C&D | C&D material not otherwise classified such as concrete, brick, asphalt roofing, fiberglass insulation, polyurethane carpet backing, etc. | | ✓ |
| | 36 HHW | Wastes resulting from products purchased by the general public for household use or similar commercial use which, because of their quantity, concentration, or physical, chemical, or infectious characteristics, may pose a hazard to human health. Examples include paints, solvents, flammable liquids, toxics, corrosives, pesticides and herbicides, batteries, syringes, reactives and explosives. Empty HHW containers are not considered HHW. | | ✓ |
| | 37 Other Inorganics | Inorganic material not otherwise classified, such as rock, dirt, sand, and certain manufactured products composed of entirely inorganic materials | | ✓ |
| | 38 Furniture | Many of the self-haul and bulky loads contained whole pieces of furniture. This category was only used when performing visual samples of bulky loads. Note that some furniture items may have contained significant organic materials (primarily wood). | | ✓ |

Definition of Packaging:

A container providing a means of marketing, protecting or handling a product, including unit packaging, intermediate packaging, and shipping containers. Includes unsealed receptacles such as carrying cases, crates, cups, pails, rigid foil and other trays, wrappers and wrapping films, bags and tubs. Tin-plated steel, hot-dip and electrolyte galvanized steel, and galvanized wire shall be considered packaging. Includes individual parts of a package such as blocking, bracing, cushioning, weatherproofing, exterior strapping, coatings, closures, inks, labels, dyes, pigments, adhesives, stabilizers, or any other additive.

APPENDIX B

Physical Sample Waste Sort Data Collection Form - Pennsylvania DEP

SAMPLE NUMBER: _____

Date Sampled: _____

Date Sorted: _____

Facility: _____

Truck Number: _____

Crew Chief: _____

Notes: _____

Single-family Residential _____

Multi-family residential _____

Com'l/Inst'l/Ind'l _____

Residential Mix _____

Urban _____

Suburban _____

Rural _____

| | Material Categories | Weight(s) (Circle if net weight) |
|---------------------|----------------------------------|----------------------------------|
| Paper | 1 Newspaper | |
| | 2 Corrugated Cardboard | |
| | 3 Office | |
| | 4 Magazine/Glossy | |
| | 5 Polycoated/ Aseptic Containers | |
| | 6 Mixed (Other Recyclable) | |
| | 7 Other (Non-recyclable) | |
| Plastic | 8 #1 PET Bottles | |
| | 9 #2 HDPE Bottles | |
| | 10 #3-#7 Bottles | |
| | 11 Expanded Polystyrene | |
| | 12 Film Plastic | |
| | 13 Other Rigid Plastic | |
| Glass | 14 Clear | |
| | 15 Green | |
| | 16 Amber | |
| | 17 Other | |
| Metal | 18 Steel Cans | |
| | 19 Aluminum Cans | |
| | 20 Other Ferrous | |
| | 21 Other Aluminum | |
| | 22 Other Non-Ferrous | |
| Organic | 23 Yard Waste- Grass | |
| | 24 Yard Waste- Other | |
| | 25 Wood- Unpainted | |
| | 26 Wood- Painted | |
| | 27 Food Waste | |
| | 28 Textiles | |
| | 29 Diapers | |
| | 30 Fines | |
| | 31 Other Organics | |
| | Inorganics | 32 Brown Goods |
| 33 Carpet | | |
| 34 Drywall | | |
| 35 Other C&D | | |
| 36 HHW | | |
| 37 Other Inorganics | | |

Visual Sample Waste Sort Data Collection Form-Pennsylvania DEP

SAMPLE NUMBER: _____

Date Sampled: _____

Weight of Load: _____

CY of Truck: _____

Percent full: _____

Truck Number: _____

Single-family Residential _____

Multi-family residential _____

Com'l/Inst'l/Ind'l _____

Urban _____ Suburban _____ Rural _____

Facility: _____

Field Supervisor: _____

Notes: _____

| | Material Categories | Percent by Volume |
|-------------------------|-------------------------------------------|-------------------|
| Paper | 1 Newspaper | |
| | 2 Corrugated Cardboard | |
| | 3 Office | |
| | 4 Magazine/Glossy | |
| | 5 Polycoated/ Aseptic Containers | |
| | 6 Mixed (Other Recyclable) | |
| | 7 Other (Non-recyclable) | |
| Plastic | 8 #1 PET Bottles | |
| | 9 #2 HDPE Bottles | |
| | 10 #3-#7 Bottles | |
| | 11 Expanded Polystyrene | |
| | 12 Film Plastic | |
| | 13 Other Rigid Plastic | |
| Glass | 14 Clear | |
| | 15 Green | |
| | 16 Amber | |
| | 17 Other | |
| Metal | 18 Steel Cans | |
| | 19 Aluminum Cans | |
| | 20 Other Ferrous | |
| | 21 Other Aluminum | |
| | 22 Other Non-Ferrous | |
| Organic | 23 Yard Waste- Grass | |
| | 24 Yard Waste- Other | |
| | 25 Wood- Unpainted | |
| | 26 Wood- Painted | |
| | 27 Food Waste | |
| | 28 Textiles | |
| | 29 Diapers | |
| | 30 Fines | |
| | 31 Other Organics | |
| | Inorganics | 32 Brown Goods |
| 33 Carpet | | |
| 34 Drywall | | |
| 35 Other C&D | | |
| 36 HHW | | |
| 37 Other Inorganics | | |
| Other | 38 Commercial MSW Bagged | |
| | 39 Residential MSW Bagged | |
| | 40 Furniture (composite materials) | |