

US EPA ARCHIVE DOCUMENT

This chapter presents an index to the examples in Chapter 2. Each example (cited by example number rather than by page number) is referenced by key words that describe the recycled material, the recycling process, the processes that generate and/or use the recycled material, or the industry of interest.

The user can consult this index to locate examples similar to the practice of interest, based on the key words provided.

Acetone

Reclamation - Spent Material 22

Acetylene Gas

Use/Reuse - By-Product 1

Acid Digested Coal Ash

Reclamation - By-Product 11

Acid Etching Solution

Other - Non-Secondary Material 7

Other - Non-Hazardous Secondary Material 3

Other - Non-Hazardous Secondary Material 4

Reclamation - Spent Material 13

Use Constituting Disposal - Spent Material 1

Acid, Spent

Reclamation - Spent Material 11

Activated Carbon Adsorption

(See Carbon adsorption)

Addition to Water  
  Use/Reuse - By-Product 1  
  Use/Reuse - Spent Material 2  
  Use/Reuse - Sludge 3

Adhesive Thinner  
  Reclamation - Spent Material 27

Adsorptive Bubble Technique  
  Reclamation - By-Product 11

Air Emission Control Dust  
  Use/Reuse - Sludge 3

Alcohol  
  Reclamation - Spent Material 26

Alcohols, Heavy  
  Energy Recovery - Spent Material 3  
  Energy Recovery - By-Product 3  
  Energy Recovery - Mixed Material 1

Aluminum  
  Reclamation - By-Product 11  
  Reclamation - Spent Material 15  
  Reclamation - Spent Material 16  
  Reclamation - Spent Material 17

Aluminum Production  
  Use/Reuse - Spent Material 4

Aluminum Sulfate  
  Reclamation - Spent Material 15  
  Reclamation - Spent Material 16  
  Reclamation - Spent Material 17

Aluminum Trichloride  
  Reclamation - Spent Material 8

Amorphous Polypropylene Residues  
  Other - Non-Hazardous Secondary Material 6  
  Other - Non-Hazardous Secondary Material 7  
  Other - Non-Secondary Material 13  
  Use Constituting Disposal - By-Product 4

Arsenic Compounds  
Reclamation - Spent Material 12

Asphalt  
Other - Non-Hazardous Secondary Material 6  
Other - Non-Hazardous Secondary Material 7  
Other - Non-Secondary Material 13  
Use Constituting Disposal - By-Product 4

Assembly of Chain Saws  
Reclamation - Spent Material 27

Assembly of String Trimmers  
Reclamation - Spent Material 27

Automobile Shredder Rejects  
Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 3

Bag Filter Materials  
Use/Reuse - Sludge 5

Baghouse Dust  
Reclamation - Sludge 7  
Use/Reuse - Sludge 8

Basic Organic Chemicals  
Energy Recovery - Spent Material 2

Battery Crackers  
Reclamation - Spent Material 1  
Reclamation - Spent Material 2

Battery Manufacturing  
Reclamation - By-Product 10  
Reclamation - Scrap Metal 2  
Reclamation - Spent Material 3

Benzyl Chloride  
Reclamation - By-Product 3

Berms  
Other - Non-Hazardous Secondary Material 2  
Use Constituting Disposal - Sludge 1

**Blast Furnace**

Energy Recovery - By-Product 1  
Energy Recovery - By-Product 2  
Use/Reuse - Sludge 6  
Use/Reuse - Sludge 7

**Blending**

Other - Non-Secondary Material 13  
Other - Non-Hazardous Secondary Material 6  
Other - Non-Hazardous Secondary Material 7  
Use Constituting Disposal - By-Product 4

**Brass**

Reclamation - Sludge 7

**Brass Dross Skimmings**

Reclamation - By-Product 1  
Use Constituting Disposal - By-Product 1  
Use Constituting Disposal - By-Product 2  
Use Constituting Disposal - By-Product 3

**Brass Mill**

Other - Non-Secondary Material 6  
Reclamation - Sludge 7  
Reclamation - Spent Material 11

**Brass Production**

Other - Non-Secondary Material 6  
Reclamation - Sludge 7  
Reclamation - Spent Material 11

**Bright Dipping**

Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17

**Briquetting**

Use/Reuse - Sludge 8

**By-Product**

(See Listed By-Product or Characteristic By-Product)

**By-Product Recovery**

Reclamation - Sludge 8

Cadmium

- Reclamation - Sludge 8
- Use Constituting Disposal - Sludge 6

Carbon

- Energy Recovery - By-Product 1
- Energy Recovery - By-Product 2

Carbon Adsorption

- Other - Non-Secondary Material 8
- Reclamation - Spent Material 5
- Reclamation - Spent Material 9
- Reclamation - Spent Material 18
- Reclamation - Spent Material 19
- Reclamation - Spent Material 20

Carbon Tetrachloride

- Other - Non-Secondary Material 10
- Reclamation - By-Product 8
- Use/Reuse - By-Product 2

Catalysts

- Other - Non-Hazardous Secondary Material 9
- Reclamation - Spent Material 8
- Use/Reuse - Spent Material 4
- Use/Reuse - Spent Material 5

Catholyte

- Other - Non-Hazardous Secondary Material 8
- Reclamation - Spent Material 25

Chain Saw Assembly

- Reclamation - Spent Material 27

Characteristic By-Product

- Energy Recovery - By-Product 3
- Energy Recovery - Mixed Material 1
- Energy Recovery - Spent Material 3
- Other - Non-Hazardous Secondary Material 6
- Other - Non-Hazardous Secondary Material 7
- Other - Non-Secondary Material 10
- Other - Non-Secondary Material 13
- Reclamation - By-Product 1
- Reclamation - By-Product 4
- Reclamation - By-Product 7
- Reclamation - By-Product 8

Characteristic By-Product, continued

Reclamation - By-Product 9  
Reclamation - By-Product 10  
Reclamation - By-Product 11  
Use Constituting Disposal - By-Product 1  
Use Constituting Disposal - By-Product 2  
Use Constituting Disposal - By-Product 3  
Use Constituting Disposal - By-Product 4  
Use/Reuse - By-Product 1  
Use/Reuse - Sludge 7

Characteristic Scrap Metal

Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 2  
Reclamation - Scrap Metal 3

Characteristic Sludge

Other - Non-Hazardous Secondary Material 2  
Reclamation - Sludge 4  
Reclamation - Sludge 5  
Reclamation - Sludge 7  
Reclamation - Sludge 8  
Reclamation - Sludge 10  
Reclamation - Sludge 11  
Use Constituting Disposal - Sludge 1  
Use Constituting Disposal - Sludge 2  
Use Constituting Disposal - Sludge 3  
Use Constituting Disposal - Sludge 4  
Use Constituting Disposal - Sludge 5  
Use Constituting Disposal - Sludge 6  
Use/Reuse - Sludge 2  
Use/Reuse - Sludge 3  
Use/Reuse - Sludge 4  
Use/Reuse - Sludge 6  
Use/Reuse - Sludge 8

Characteristic Spent Material

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 1  
Energy Recovery - Spent Material 3  
Other - Non-Hazardous Secondary Material 3  
Other - Non-Hazardous Secondary Material 4  
Other - Non-Hazardous Secondary Material 8  
Other - Non-Secondary Material 6  
Other - Non-Secondary Material 7

Characteristic Spent Material (continued)

Other - Non-Secondary Material 14  
Other - Spent Material 1  
Other - Spent Material 2  
Other - Spent Material 3  
Other - Spent Material 4  
Reclamation - Spent Material 1  
Reclamation - Spent Material 2  
Reclamation - Spent Material 3  
Reclamation - Spent Material 6  
Reclamation - Spent Material 8  
Reclamation - Spent Material 11  
Reclamation - Spent Material 13  
Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17  
Reclamation - Spent Material 23  
Reclamation - Spent Material 25  
Reclamation - Spent Material 26  
Use Constituting Disposal - Non-Hazardous Secondary Material 1  
Use Constituting Disposal - Spent Material 1  
Use Constituting Disposal - Spent Material 2  
Use/Reuse - Spent Material 3  
Use/Reuse - Spent Material 4  
Use/Reuse - Spent Material 5  
Use/Reuse - Spent Material 6  
Use/Reuse - Spent Material 7  
Use/Reuse - Spent Material 8

Chemical Manufacturing

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3  
Other - Non-Hazardous Secondary Material 2  
Other - Non-Hazardous Secondary Material 9  
Reclamation - Spent Material 8  
Reclamation - By-Product 3  
Reclamation - By-Product 4  
Use Constituting Disposal - Sludge 1  
Use/Reuse - Spent Material 4  
Use/Reuse - Spent Material 5

Chloralkali Sludges

Reclamation - By-Product 6



Chloride

Reclamation - By-Product 3  
Reclamation - By-Product 4

Chlorinated Organic Solvents

Use/Reuse - Spent Material 8

Chlorination

Other - Non-Secondary Material 10  
Reclamation - By-Product 8

Chlorine

Reclamation - By-Product 3  
Reclamation - By-Product 4

Chlorine Production

Reclamation - By-Product 5

Chloromethanes

Other - Non-Secondary Material 10  
Reclamation - By-Product 8

Chlorinated Hydrocarbon Waste

Reclamation - By-Product 5

Chromic Acid

Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 3  
Reclamation - Spent Material 4

Chromium

Other - Non-Hazardous Secondary Material 8  
Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - By-Product 11  
Reclamation - Sludge 3  
Reclamation - Spent Material 4  
Reclamation - Spent Material 25

Chromium Hydroxide

Use/Reuse - Sludge 1

Chromium Sulfate

Use/Reuse - Sludge 1

Circuit Boards  
    Other - Non-Secondary Material 4

Cleaning  
    Other - Non-Secondary Material 11  
    Reclamation - Spent Material 22

Closed Loop Process  
    Use/Reuse - Sludge 2  
    Use/Reuse - Spent Material 3  
    Use/Reuse - Sludge 4  
    Use/Reuse - Sludge 5  
    Use/Reuse - Sludge 6  
    Use/Reuse - Sludge 7  
    Use/Reuse - Sludge 8

Coal  
    Energy Recovery - By-Product 1  
    Energy Recovery - By-Product 2

Coal Ash  
    Reclamation - By-Product 11

Coated Fabric Production  
    Other - Non-Secondary Material 11

Cobalt  
    Reclamation - By-Product 11

Coke  
    Energy Recovery - By-Product 1  
    Energy Recovery - By-Product 2  
    Energy Recovery - By-Product 4

Collection  
    Use/Reuse - Sludge 8

Column Bottoms  
    Other - Non-Secondary Material 2  
    Other - Non-Secondary Material 5  
    Reclamation - By-Product 2

Commercial Chemical Product  
    Other - Non-Secondary Material 15  
    Reclamation - Spent Material 24

Commercial Conditioning Agent  
 Other - Spent Material 4

Commercial Product Substitute  
 (See substitute for commercial product)

Computer Manufacturing  
 Reclamation - Sludge 9

Concentrate  
 Other - Non-Secondary Material 14  
 Reclamation - Spent Material 23

Concentration  
 Other - Non-Secondary Material 14  
 Reclamation - Spent Material 7  
 Reclamation - Spent Material 23

Condensate  
 Reclamation - By-Product 7

Condensation  
 Reclamation - By-Product 6  
 Reclamation - Spent Material 15  
 Reclamation - Spent Material 16  
 Reclamation - Spent Material 17

Continued Use of Material  
 Other - Non-Secondary Material 1  
 Other - Non-Secondary Material 3  
 Other - Non-Secondary Material 4

Converter  
 Use/Reuse - Sludge 4

Copper  
 Other - Non-Secondary Material 6  
 Other - Non-Secondary Material 14  
 Reclamation - By-Product 1  
 Reclamation - By-Product 11  
 Reclamation - By-Product 18  
 Reclamation - Sludge 9  
 Reclamation - Sludge 10  
 Reclamation - Spent Material 23  
 Use Constituting Disposal - Sludge 6  
 Use/Reuse - Spent Material 3

Copper Electroplating  
  Other - Non-Secondary Material 14  
  Reclamation - Spent Material 23

Copper Production  
  Use/Reuse - Spent Material 3  
  Use/Reuse - Sludge 4

Cyanide Plating Bath  
  Other - Non-Secondary Material 8  
  Reclamation - Spent Material 19  
  Reclamation - Spent Material 20

Decanter Tank Tar Sludge  
  Energy Recovery - By-Product 1  
  Energy Recovery - By-Product 2  
  Energy Recovery - By-Product 4

Decanting  
  Reclamation - Spent Material 5

Decolorization Operations  
  Reclamation - Spent Material 12

Degreasing  
  Other - Non-Hazardous Secondary Material 6  
  Other - Non-Hazardous Secondary Material 7  
  Other - Non-Secondary Material 13  
  Reclamation - Spent Material 21  
  Use Constituting Disposal - By-Product 4

Demisting  
  Reclamation - By-Product 6

Dewatering  
  Reclamation - By-Product 6  
  Reclamation - Sludge 9

Diaphragm Cell Process  
  Reclamation - By-Product 5

Diluents  
  Reclamation - Spent Material 18

**Distillate**

Other - Non-Secondary Material 14  
Reclamation - Spent Material 23

**Distillation**

Energy Recovery - Spent Material 1  
Other - Non-Secondary Material 10  
Reclamation - By-Product 3  
Reclamation - By-Product 4  
Reclamation - By-Product 7  
Reclamation - By-Product 8  
Reclamation - By-Product 11  
Reclamation - By-Product 16  
Reclamation - Sludge 4  
Reclamation - Spent Material 10  
Reclamation - Spent Material 21  
Reclamation - Spent Material 22  
Reclamation - Spent Material 26

**Distillation Bottoms**

Use/Reuse - By-Product 2

**Distillation Residue**

Energy Recovery - Spent Material 1

**Dredging**

Energy Recovery - Non-Secondary Material 1

**Dross Furnace**

Use/Reuse - Sludge 2

**Dross Skimmings**

Reclamation - By-Product 1  
Use Constituting Disposal - By-Product 1  
Use Constituting Disposal - By-Product 2  
Use Constituting Disposal - By-Product 3

**Dusts, Blast Furnace**

Use/Reuse - Sludge 7

**Electrolytes**

Reclamation - Spent Material 3

**Electrolytic Stripping**

Reclamation - Sludge 11

Electronics Manufacturing  
Reclamation - Sludge 9

Electroplating  
Other - Non-Secondary Material 8  
Other - Non-Secondary Material 14  
Reclamation - Sludge 8  
Reclamation - Spent Material 19  
Reclamation - Spent Material 20  
Reclamation - Spent Material 23

Electroplating Sludge  
Reclamation - Sludge 9

Electrostatic Precipitator Ash  
Reclamation - Sludge 11

Emission Control Dust  
Reclamation - Sludge 5  
Reclamation - Sludge 8  
Use/Reuse - Sludge 2  
Use/Reuse - Sludge 4  
Use/Reuse - Sludge 6

Equipment Washing  
Other - Non-Secondary Material 11

Etchants  
Other - Non-Hazardous Secondary Material 8  
Reclamation - Spent Material 25

Etching Solution  
Use/Reuse - Spent Material 6

Ethyl Alcohol  
Energy Recovery - Spent Material 1  
Reclamation - Spent Material 6

Evaporation  
Other - Non-Secondary Material 8  
Other - Non-Secondary Material 14  
Reclamation - Spent Material 7  
Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17  
Reclamation - Spent Material 19

Evaporation, continued

Reclamation - Spent Material 20  
Reclamation - Spent Material 23  
Use/Reuse - Spent Material 6

Excluded

Other - Spent Material 1  
Other - Spent Material 2  
• Other - Spent Material 3

Exempt

Energy Recovery - By-Product 2  
Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 2  
Reclamation - Scrap Metal 3  
Reclamation - Sludge 2  
Reclamation - Spent Material 1  
Reclamation - Spent Material 3  
Reclamation - Spent Material 6  
Use Constituting Disposal - Sludge 4

Explosives

Reclamation - Sludge 6

F001 Waste

Reclamation - Spent Material 5

F001-F005 Wastes

Reclamation - Spent Material 9  
Reclamation - Spent Material 21

F002 Waste

Reclamation - Spent Material 10

F003 Waste

Reclamation - Spent Material 22

F005 Waste

Other - Non-Secondary Material 11  
Reclamation - Spent Material 27

F006 Waste

Reclamation - Sludge 2  
Reclamation - Sludge 9  
Use/Reuse - Sludge 1

**F007 Waste**  
 Other - Non-Secondary Material 8  
 Other - Non-Secondary Material 9  
 Other - Non-Secondary Material 12  
 Reclamation - Spent Material 4  
 Reclamation - Sludge 3  
 Reclamation - Spent Material 19  
 Reclamation - Spent Material 20

**F021 Waste**  
 Use/Reuse - Sludge 5

**Ferric Chloride**  
 Reclamation - Spent Material 7

**Ferrous Chloride**  
 Reclamation - Spent Material 7

**Fertilizer**  
 Other - Non-Hazardous Secondary Material 2  
 Other - Non-Hazardous Secondary Material 3  
 Other - Non-Hazardous Secondary Material 4  
 Reclamation - By-Product 1  
 Use Constituting Disposal - By-Product 1  
 Use Constituting Disposal - By-Product 2  
 Use Constituting Disposal - By-Product 3  
 Use Constituting Disposal - Non-Hazardous Secondary Material 1  
 Use Constituting Disposal - Sludge 1  
 Use Constituting Disposal - Sludge 2  
 Use Constituting Disposal - Sludge 3  
 Use Constituting Disposal - Sludge 4  
 Use Constituting Disposal - Sludge 5  
 Use Constituting Disposal - Sludge 6  
 Use Constituting Disposal - Spent Material 1  
 Use Constituting Disposal - Spent Material 2

**Filter Press Sludge**  
 Other - Non-Hazardous Secondary Material 5

**Filtration**  
 Use/Reuse - Spent Material 6



Flue Dusts  
Reclamation - Sludge 10  
Use Constituting Disposal - Sludge 2  
Use Constituting Disposal - Sludge 3  
Use Constituting Disposal - Sludge 4  
Use Constituting Disposal - Sludge 5

Flue Gas  
Reclamation - Sludge 11

Fluoridating Agent  
Use/Reuse - Sludge 3

Food-Grade Phosphoric Acid  
Use/Reuse - Spent Material 5

Friedel Krafts Catalyst  
Use/Reuse - Spent Material 4

Fuel  
Energy Recovery - By-Product 4

Further Reclamation  
Other - Non-Secondary Material 15  
Reclamation - Spent Material 24

Galvanized Metals  
Reclamation - Sludge 10  
Reclamation - Sludge 11

Gold  
Reclamation - Sludge 2

Graphic Arts Industry  
Reclamation - Spent Material 18

Graphite Anodes  
Reclamation - By-Product 5

Greases  
Reclamation - Spent Material 21

Halogenated Solvents  
Reclamation - Spent Material 10

Heavy Alcohols

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3

Heavy Ends

Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Reclamation - By-Product 2

Heavy Metals

Use Constituting Disposal - Sludge 6

Heavy Residuals

Energy Recovery - By-Product 3  
Energy Recovery - Spent Material 3

Herbicides

Reclamation - Sludge 4

Hexachlorobenzene

Other - Non-Secondary Material 10  
Reclamation - By-Product 8

Hexachlorobutadiene

Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Other - Non-Secondary Material 10  
Reclamation - By-Product 2  
Reclamation - By-Product 8

Hydrocarbon Waste

Reclamation - By-Product 5

Hydrocarbons

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3

Hydrochloric Acid

Reclamation - By-Product 3  
Reclamation - By-Product 4  
Use/Reuse - Spent Material 8

Hydrofluoric Acid

Use/Reuse - Spent Material 6

Hydrofluorosilicic Acid  
Use/Reuse - Sludge 3

Incinerator  
Reclamation - Sludge 11

Industrial Boiler  
Energy Recovery - Spent Material 2

Industrial Ethyl Alcohol  
Energy Recovery - Spent Material 1  
Reclamation - Spent Material 6

Ingredient  
Use/Reuse - By-Product 2  
Use/Reuse - Sludge 1  
Use/Reuse - Spent Material 6  
Use/Reuse - Spent Material 7

Inherently Waste-Like  
Use/Reuse - Sludge 5

Inks  
Reclamation - Spent Material 18

Integrated Circuits  
Reclamation - By-Product 10

Ion Exchange  
Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 3  
Reclamation - Sludge 4  
Reclamation - Spent Material 4  
Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17

Iridium  
Reclamation - Sludge 2

Iron  
Reclamation - By-Product 11

Iron Oxide  
Use/Reuse - Spent Material 7

Isopropyl Alcohol  
Reclamation - Spent Material 26

K014 Waste  
Reclamation - By-Product 3

K016 Waste  
Use/Reuse - By-Product 2

K030 Waste  
Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Reclamation - By-Product 2

K045 Waste  
Reclamation - Sludge 6

K047 Waste  
Use/Reuse - Spent Material 1

K061 Waste  
Use/Reuse - Sludge 6  
Use/Reuse - Sludge 8

K062 Waste  
Other - Non-Secondary Material 6  
Reclamation - Spent Material 7  
Reclamation - Spent Material 11  
Reclamation - Spent Material 14  
Use/Reuse - Spent Material 2

K071 Waste  
Reclamation - By-Product 6

K073 Waste  
Reclamation - By-Product 5

K086 Waste  
Reclamation - Spent Material 18

K087 Waste

Energy Recovery - By-Product 1  
Energy Recovery - By-Product 2  
Energy Recovery - By-Product 4

K102 Waste

Reclamation - Spent Material 12

Ketones

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3

Kieselguhr Clay

Use/Reuse - Spent Material 5

Landfill Cover Material

Other - Non-Hazardous Secondary Material 2  
Use Constituting Disposal - Sludge 1

Lanolin

Reclamation - Spent Material 21

Lead

Reclamation - By-Product 5  
Reclamation - By-Product 10  
Reclamation - By-Product 11  
Reclamation - Spent Material 1  
Reclamation - Spent Material 2  
Use Constituting Disposal - Sludge 6

Lead Acid-Batteries

Reclamation - By-Product 10

Leather Tanning

Use/Reuse - Sludge 1

Levees

Other - Non-Hazardous Secondary Material 2  
Use Constituting Disposal - Sludge 1

Lime

Use/Reuse - By Product 1

Liquid-Liquid Extraction  
Reclamation - Spent Material 14

Listed  
(See numerical listing, e.g., K062)

Listed By-Product  
Energy Recovery - By-Product 1  
Energy Recovery - By-Product 2  
Energy Recovery - By-Product 4  
Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Reclamation - By-Product 2  
Reclamation - By-Product 3  
Reclamation - By-Product 5  
Reclamation - By-Product 6  
Use/Reuse - By-Product 2

Listed Sludge  
Other - Non-Secondary Material 12  
Reclamation - Sludge 1  
Reclamation - Sludge 2  
Reclamation - Sludge 3  
Reclamation - Sludge 6  
Reclamation - Sludge 9  
Reclamation - Spent Material 4  
Use/Reuse - Sludge 1  
Use/Reuse - Sludge 5

Listed Spent Material  
Other - Non-Secondary Material 8  
Other - Non-Secondary Material 9  
Other - Non-Secondary Material 11  
Other - Non-Secondary Material 12  
Other - Non-Secondary Material 15  
Reclamation - Sludge 3  
Reclamation - Spent Material 4  
Reclamation - Spent Material 5  
Reclamation - Spent Material 7  
Reclamation - Spent Material 9  
Reclamation - Spent Material 10  
Reclamation - Spent Material 11  
Reclamation - Spent Material 12  
Reclamation - Spent Material 14  
Reclamation - Spent Material 18

Listed Spent Material, continued

Reclamation - Spent Material 19  
Reclamation - Spent Material 20  
Reclamation - Spent Material 21  
Reclamation - Spent Material 22  
Reclamation - Spent Material 24  
Reclamation - Spent Material 27  
Use/Reuse - Spent Material 1  
Use/Reuse - Spent Material 2

Magnesium Casting

Reclamation - Spent Material 27

Manganese

Reclamation - By-Product 11

Marine Fuel

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3

Mercury

Reclamation - By-Product 6

Metal Cations

Reclamation - By-Product 11

Metal degreasers

Other - Non-Secondary Material 4

Metal Finishing

Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 2  
Reclamation - Sludge 3  
Reclamation - Sludge 8  
Reclamation - Spent Material 4  
Use Constituting Disposal - Non-Hazardous Secondary Material 1  
Use Constituting Disposal - Spent Material 2  
Use/Reuse - Sludge 1

Metal Refining

Use Constituting Disposal - Sludge 2  
Use Constituting Disposal - Sludge 3  
Use Constituting Disposal - Sludge 4  
Use Constituting Disposal - Sludge 5

**Metallurgical Industries**

Use/Reuse - Spent Material 6

**Metals**

Other - Non-Hazardous Secondary Material 8

Reclamation - By-Product 1

Reclamation - Spent Material 25

Use Constituting Disposal - Sludge 1

**Metals, Galvanized**

Reclamation - Sludge 10

Reclamation - Sludge 11

**Metals, Heavy**

Use Constituting Disposal - Sludge 6

**Metals, Non-Ferrous Mixed**

Reclamation - Scrap Metal 1

Reclamation - Scrap Metal 3

**Metals, Unspecified**

Other - Non-Hazardous Secondary Material 2

Reclamation - Sludge 9

**Methanol**

Other - Non-Secondary Material 15

Reclamation - Sludge 4

Reclamation - Spent Material 24

**Methyl Ethyl Ketone**

Other - Non-Secondary Material 17

Reclamation - Spent Material 27

**Methylene Chloride**

Reclamation - By-Product 9

Reclamation - Spent Material 10

Use/Reuse - Spent Material 8

**Mixed Metals**

Reclamation - Scrap Metal 1

Reclamation - Scrap Metal 3



Mixing

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3

Motor Oil Production

Other - Spent Material 1

Municipal Incinerator

Reclamation - Sludge 11

Municipal Wastewater Treatment Sludge

Use Constituting Disposal - Sludge 6

Natural Gas Transmission

Energy Recovery - Non-Secondary Material 1

Neutralization

Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 3  
Reclamation - Spent Material 4  
Reclamation - Spent Material 7

Nickel

Reclamation - By-Product 11  
Use Constituting Disposal - Sludge 6

Nickel Tube

Other - Non-Secondary Material 10  
Reclamation - By-Product 8

Nitric Acid

Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17

Non-Beneficial Use

Other - Spent Material 4

Non-Magnetic Shredder Rejects

Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 3

Non-Ferrous Mixed Metals  
Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 3

Oils  
Reclamation - Spent Material 26

Olefin Polymerization Catalyst  
Use/Reuse - Spent Material 5

Oleum  
Other - Spent Material 1

Organic Chemicals Manufacturing  
Energy Recovery - Spent Material 2

Organic Intermediates  
Energy Recovery - Spent Material 2

Organic Solvents  
Use/Reuse - Spent Material 8

Organo-Arsenic Compounds  
Reclamation - Spent Material 12

Organo-Tin Manufacturing  
Other - Non-Hazardous Secondary Material 5

Osmium  
Reclamation - Sludge 2

Oxides  
Reclamation - By-Product 1  
Reclamation - Spent Material 1  
Reclamation - Spent Material 2  
Use Constituting Disposal - By-Product 1  
Use Constituting Disposal - By-Product 2  
Use Constituting Disposal - By-Product 3

Paint Manufacture  
Other - Non-Secondary Material 7  
Reclamation - Spent Material 13

Palladium  
Reclamation - Sludge 2

Paper Industry  
Use/Reuse - Spent Material 1

Pentachlorophenol  
Use/Reuse - Sludge 5

Perchloroethylene  
Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Reclamation - By-Product 2

Perfumes  
Reclamation - Spent Material 26

Petroleum Fractionalization  
Use/Reuse - Spent Material 5

Petroleum Refining  
Reclamation - By-Product 7

pH Adjustment  
Reclamation - By-Product 11

Pharmaceutical Manufacturing  
Other - Non-Secondary Material 15  
Reclamation - Spent Material 24

Phenol  
Reclamation - By-Product 7

Phenoxy Herbicides  
Reclamation - Sludge 4

Phosphoric Acid  
Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17  
Use/Reuse - Spent Material 5

Pickle Liquor  
Other - Non-Secondary Material 6  
Reclamation - Spent Material 7  
Reclamation - Spent Material 14  
Use/Reuse - Spent Material 2  
Use/Reuse - Spent Material 8

Pickling  
 Reclamation - Spent Material 14  
 Use/Reuse - Spent Material 8

Pink/Red Water  
 Use/Reuse - Spent Material 1

Pipeline Condensate  
 Energy Recovery - Non-Secondary Material 1

Plasticizers  
 Energy Recovery - Spent Material 2

Plating Bath  
 Other - Non-Secondary Material 9  
 Other - Non-Secondary Material 12  
 Other - Non-Secondary Material 14  
 Reclamation - Sludge 3  
 Reclamation - Spent Material 4  
 Reclamation - Spent Material 23

Plating Bath Rinsewaters  
 Other - Non-Secondary Material 14  
 Reclamation - Spent Material 23

Platinum  
 Reclamation - Sludge 2

Platinum Catalysts  
 Other - Non-Hazardous Secondary Material 9

Pollution Control  
 Reclamation - Sludge 4

Polymeric Residues  
 Other - Non-Hazardous Secondary Material 6  
 Other - Non-Hazardous Secondary Material 7  
 Other - Non-Secondary Material 13  
 Use Constituting Disposal - By-Product 4

Polypropylene  
 Other - Non-Hazardous Secondary Material 6  
 Other - Non-Hazardous Secondary Material 7  
 Other - Non-Secondary Material 13  
 Use Constituting Disposal - By-Product 4

Polyurethane Waste  
Reclamation - By-Product 9

Potassium Fluoride  
Use/Reuse - Spent Material 6

Potassium Hydroxide  
Use/Reuse - Spent Material 6

Precious Metals  
Reclamation - Sludge 2

Preservative  
Use/Reuse - Spent Material 6

Press and Roller Cleanup  
Other - Non-Secondary Material 3

Primary Smelting  
Reclamation - Sludge 5  
Reclamation - Sludge 8  
Use/Reuse - Sludge 2

Printed Circuit Boards  
Reclamation - By-Product 10  
Reclamation - Spent Material 9

Printing and Coating Operations  
Other - Non-Secondary Material 3

Printing and Publishing Industry  
Reclamation - Spent Material 18

Process Water  
Other - Non-Secondary Material 14  
Reclamation - Spent Material 23

Processor  
Other - Non-Hazardous Secondary Material 6  
Other - Non-Hazardous Secondary Material 7  
Other - Non-Secondary Material 13  
Use Constituting Disposal - By-Product 4

Product of Reclamation

Energy Recovery - Spent Material 1  
Other - Non-Hazardous Secondary Material 2  
Other - Non-Hazardous Secondary Material 3  
Other - Non-Hazardous Secondary Material 4  
Other - Non-Hazardous Secondary Material 6  
Other - Non-Hazardous Secondary Material 7  
Other - Non-Hazardous Secondary Material 8  
Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Other - Non-Secondary Material 7  
Other - Non-Secondary Material 8  
Other - Non-Secondary Material 9  
Other - Non-Secondary Material 10  
Other - Non-Secondary Material 12  
Other - Non-Secondary Material 13  
Other - Non-Secondary Material 14  
Other - Non-Secondary Material 15  
Reclamation - Scrap Metal 3  
Reclamation - Spent Material 2  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17  
Reclamation - Spent Material 20

Pulping Liquor

Use/Reuse - Spent Material 1  
Other - Spent Material 2

Purification

Reclamation - By-Product 5  
Reclamation - Spent Material 19  
Reclamation - Spent Material 20  
Use/Reuse - Spent Material 6

Pyrolitic Plant

Use/Reuse - Sludge 2

Quick Drying

Reclamation - Spent Material 27

Refuse Incineration

Reclamation - Sludge 11

Regeneration

Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Other - Non-Secondary Material 15  
Other - Non-Hazardous Secondary Material 8  
Other - Non-Hazardous Secondary Material 9  
Reclamation - Sludge 1  
Reclamation - Sludge 3  
Reclamation - Sludge 4  
Reclamation - Sludge 6  
Reclamation - Spent Material 3  
Reclamation - Spent Material 4  
Reclamation - Spent Material 5  
Reclamation - Spent Material 6  
Reclamation - Spent Material 9  
Reclamation - Spent Material 10  
Reclamation - Spent Material 11  
Reclamation - Spent Material 12  
Reclamation - Spent Material 14  
Reclamation - Spent Material 18  
Reclamation - Spent Material 21  
Reclamation - Spent Material 22  
Reclamation - Spent Material 24  
Reclamation - Spent Material 25  
Reclamation - Spent Material 26

Residuals, Heavy

Energy Recovery - By-Product 3  
Energy Recovery - Mixed Material 1  
Energy Recovery - Spent Material 3

Residue from Reclamation

Energy Recovery - Spent Material 1

Resin

Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 3  
Reclamation - Sludge 4  
Reclamation - Spent Material 4  
Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17

Reverse Osmosis System

Other - Non-Secondary Material 14  
Reclamation - Spent Material 23

Rhodium

Reclamation - Sludge 2

Rinsewaters

Other - Non-Secondary Material 14  
Reclamation - Spent Material 23

Rinsing Operations

Other - Non-Secondary Material 8  
Reclamation - Spent Material 19  
Reclamation - Spent Material 20

Roasting

Reclamation - By-Product 6  
Use/Reuse - Sludge 4

Ruthenium

Reclamation - Sludge 2

Scouring Operations

Reclamation - Spent Material 21

Scrap Metal

Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 2  
Reclamation - Scrap Metal 3

Secondary Smelting

Other - Non-Hazardous Secondary Material 5  
Other - Non-Hazardous Secondary Material 8  
Reclamation - By-Product 1  
Reclamation - By-Product 5  
Reclamation - By-Product 10  
Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 2  
Reclamation - Scrap Metal 3  
Reclamation - Sludge 7  
Reclamation - Sludge 8  
Reclamation - Sludge 10  
Reclamation - Spent Material 1  
Reclamation - Spent Material 2



Secondary Smelting, continued  
Reclamation - Spent Material 25  
Use Constituting Disposal - By-Product 1  
Use Constituting Disposal - By-Product 2  
Use Constituting Disposal - By-Product 3

Segregation  
Other - Non-Secondary Material 3

Separation  
Reclamation - By-Product 1

Sham Recycling  
Other - Spent Material 4

Shredder Rejects  
Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 3

Silver  
Reclamation - Sludge 2

Sintering Plant  
Use/Reuse - Sludge 6

Sludge  
(See Listed Sludge or Characteristic Sludge)

Smelting  
(See Primary Smelting or Secondary Smelting)

Sodium Hydroxide  
Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 3  
Reclamation - Spent Material 4

Solder Drosses  
Reclamation - By-Product 10

**Solvents**

- Energy Recovery - By-Product 3
- Energy Recovery - Mixed Material 1
- Energy Recovery - Spent Material 2
- Energy Recovery - Spent Material 3
- Other - Non-Hazardous Secondary Material 6
- Other - Non-Hazardous Secondary Material 7
- Other - Non-Secondary Material 4
- Other - Non-Secondary Material 13
- Reclamation - Spent Material 5
- Reclamation - Spent Material 9
- Reclamation - Spent Material 10
- Reclamation - Spent Material 18
- Reclamation - Spent Material 21
- Use Constituting Disposal - By-Product 4
- Use/Reuse - Spent Material 8

**Solvent Extraction**

- Reclamation - By-Product 7

**Spent Activated Carbon**

- Reclamation - Sludge 1

**Spent Carbon**

- Other - Non-Hazardous Secondary Material 1
- Reclamation - Sludge 6
- Reclamation - Spent Material 12

**Spent Electrolyte**

- Use/Reuse - Spent Material 3

**Spent Lead-Acid Batteries**

- Reclamation - Spent Material 1
- Reclamation - Spent Material 2
- Use Constituting Disposal - Non-Hazardous Secondary Material 1
- Use Constituting Disposal - Spent Material 2

**Spent Material**

(See Listed Spent Material or Characteristic Spent Material)

**Steam Stripper Condensate**

- Reclamation - By-Product 7

**Steel**

Energy Recovery - By-Product 1  
Energy Recovery - By-Product 2  
Reclamation - Spent Material 14  
Use/Reuse - Sludge 6

**Steel Pickling**

Use/Reuse - Spent Material 8

**Steel Production**

Use/Reuse - Sludge 8

**Still Bottoms**

Reclamation - By-Product 3  
Reclamation - By-Product 4

**String Trimmer Assembly**

Reclamation - Spent Material 27

**Substantially Complete Reclamation**

Other - Non-Secondary Material 15  
Reclamation - Spent Material 24

**Substitute for Commercial Product**

Use/Reuse - By-Product 1  
Use/Reuse - Sludge 3  
Use/Reuse - Sludge 8  
Use/Reuse - Spent Material 1  
Use/Reuse - Spent Material 2  
Use/Reuse - Spent Material 8

**Substitute for Raw Material**

Energy Recovery - By-Product 1  
Energy Recovery - By-Product 2

**Substrate**

Other - Non-Hazardous Secondary Material 8  
Reclamation - Spent Material 25

**Sulfite**

Reclamation - By-Product 11  
Use/Reuse - Spent Material 1

**Sulfur Dioxide**

Other - Spent Material 3

Sulfuric Acid

Other - Non-Hazardous Secondary Material 8  
Other - Spent Material 1  
Other - Spent Material 3  
Other - Spent Material 4  
Reclamation - Spent Material 15  
Reclamation - Spent Material 16  
Reclamation - Spent Material 17  
Reclamation - Spent Material 25  
Use Constituting Disposal - Non-Hazardous Secondary Material 1  
Use Constituting Disposal - Spent Material 2  
Use/Reuse - Sludge 1  
Use/Reuse - Spent Material 7

Surface Finishing

Other - Non-Hazardous Secondary Material 8  
Reclamation - Spent Material 25

Synthetic Rubber

Other - Non-Secondary Material 11

TNT Production

Use/Reuse - Spent Material 1

Tank House

Use/Reuse - Sludge 4

Tetrachloroethylene

Use/Reuse - By-Product 2

Thinner

Other - Non-Secondary Material 3

Thinner, Adhesive

Reclamation - Spent Material 27

Tin

Other - Non-Secondary Material 18

Toluene

Other - Non-Secondary Material 3  
Reclamation - Spent Material 5

Torpedo

Other - Non-Secondary Material 1

Treatment

Other - Non-Secondary Material 9  
Other - Non-Secondary Material 12  
Reclamation - Sludge 3  
Reclamation - Spent Material 4

Trivalent Chromium

Other - Non-Hazardous Secondary Material 8  
Reclamation - Spent Material 25

Unreacted Raw Material

Other - Non-Secondary Material 1

Unused Propulsion Fuel

Other - Non-Secondary Material 1

Used Batteries

Reclamation - Spent Material 3

Vanadium

Reclamation - By-Product 11  
Reclamation - Spent Material 8

Vanadium Trichloride

Reclamation - Spent Material 8

Veterinary Pharmaceuticals

Reclamation - Spent Material 12

Volatile Materials

Other - Non-Secondary Material 2  
Other - Non-Secondary Material 5  
Reclamation - By-Product 2

Washing

Other - Non-Secondary Material 11

Waste-Derived Fuel

Energy Recovery - Mixed Material 1

Wastewater

Reclamation - Sludge 6

Wastewater Conditioner  
Other - Spent Material 4  
Use/Reuse - By-Product 1  
Use/Reuse - Spent Material 2

Wastewater Treatment  
Reclamation - Sludge 6  
Reclamation - Sludge 9

Wastewater Treatment Sludge  
Reclamation - Sludge 2  
Reclamation - Sludge 6  
Reclamation - Sludge 9  
Use Constituting Disposal - Sludge 6

Water Elutriator System  
Reclamation - Scrap Metal 1  
Reclamation - Scrap Metal 3

Water Fluoridating Agent  
Use/Reuse - Sludge 3

Wet Process Phosphoric Acid Production  
Use/Reuse - Spent Material 5

Wool Industry  
Reclamation - Spent Material 21

Ziegler Natta Polymerization Catalyst  
Reclamation - Spent Material 8

Zinc  
Other - Non-Hazardous Secondary Material 3  
Other - Non-Hazardous Secondary Material 4  
Other - Non-Secondary Material 7  
Other - Non-Secondary Material 14  
Reclamation - By-Product 1  
Reclamation - By-Product 11  
Reclamation - Sludge 5  
Reclamation - Sludge 7  
Reclamation - Sludge 8  
Reclamation - Sludge 10  
Reclamation - Sludge 11  
Reclamation - Spent Material 13  
Reclamation - Spent Material 23  
Use Constituting Disposal - Sludge 6

Zinc, continued

Use Constituting Disposal - Spent Material 1  
Use/Reuse - Sludge 2

Zinc Electroplating

Other - Non-Secondary Material 14  
Reclamation - Spent Material 23