

# Material Flow Charts

**Organics Projects: Pages 2 - 6.**

**Fiber, Plastic, and Glass Projects: Pages 7 – 10.**

**NOTE: TWO (2) MATERIAL FLOW CHARTS ARE REQUIRED, Baseline and Projected**

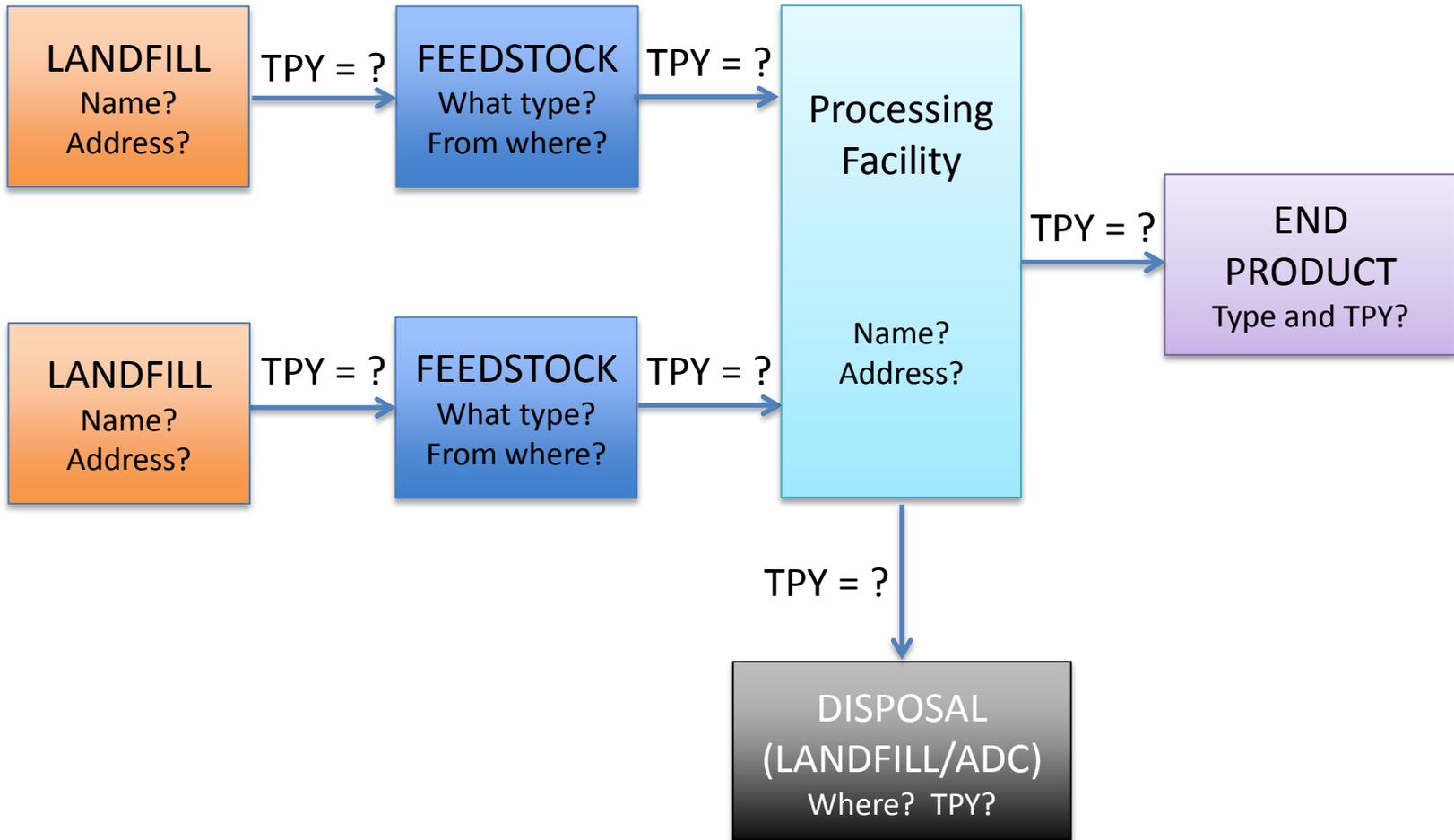
## **MATERIAL FLOW CHART – BASELINE ORGANIC MATERIAL**

**INSTRUCTIONS:** The Material Flow Chart – Baseline Organic is a required application document. It provides information about the applicant’s current operations and will be used in comparison with the proposed project. You may use the Flow Chart Example below as a guide to preparing your flow chart. A Baseline Flow Chart must include the following information:

- All business entities or other organizations involved, as well as their roles, activities, and addresses.
- Current Feedstock Flow; where current feedstock is coming from and where the feedstock is going. Include the original source (generator name) and type of disposed material, the jurisdiction(s) of origin for each major material type, and the hauler or who currently controls the materials. (e.g., food waste; new commercial route, Prosperity City, Busy Bee Disposal).
- The weight in tons per year (TPY) for each step of the current material flow.
- The disposal to landfills, including the tonnage in TPY and the name and location of the landfills currently being utilized.
- For composting projects, how much compost you currently generate, in TPY
- For anaerobic digestion projects, how much is currently being digested in TPY, how much energy is currently being generated (kWh/year and/or standard cubic feet of biomethane/year), and the fate of all digestate as applicable:
  - For solid digestate, indicate how much in TPY is currently disposed to the landfill, how much digestate is currently composted or how much is currently applied directly to land.
  - For liquid digestate, indicate how much (gallons per year) is sold as a liquid fertilizer, how much is sent off site for other processes (i.e. irrigating compost piles) and how much is sent to sewer.

# MATERIAL FLOW CHART EXAMPLE - BASELINE ORGANIC MATERIAL

This is an example of an Material Flow Chart - Baseline Organic Material. Please include specific details about the project such as landfill that material originates from, feedstock type, tonnage per year (TPY), disposal, and business names/addresses with as much clarity as possible. See Instructions.



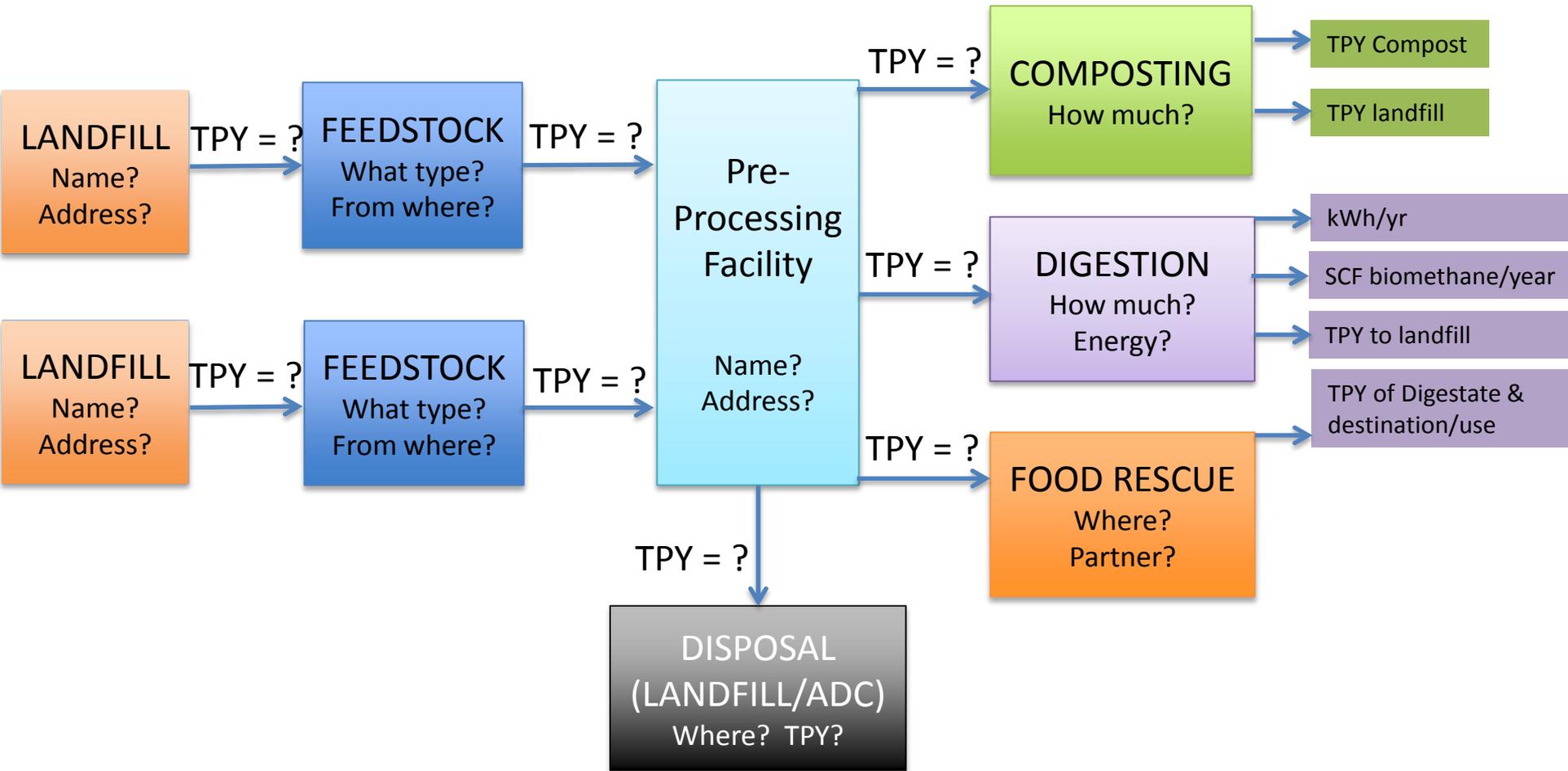
## MATERIAL FLOW CHARTS – PROJECTED ORGANIC MATERIAL

**INSTRUCTIONS:** The Material Flow Charts(s) – Projected Organic is a required document. It must provide information about the proposed project. The Projected Flow Chart(s) must include the following information for the entire project:

- All business entities or other organizations involved, as well as their roles, activities, and addresses.
- Feedstock; where the feedstock is coming from and where the feedstock is going. Include the original source (generator name) and type of disposed material, the jurisdiction(s) of origin for each major material type, and the hauler or who currently controls the materials. (e.g., food waste; new commercial route, Prosperity City, Busy Bee Disposal)
- The weight in tons per year (TPY) for each step of the proposed material flow.
- The disposal to landfill(s), including the tonnage in TPY and the name and location of the landfill.
- For composting projects, how much compost will be generated, in TPY.
- For anaerobic digestion projects, how much will be digested in TPY, how much energy will be generated (kWh/year and/or standard cubic feet of biomethane/year), and the fate of all digestate as applicable:
  - For solid digestate, indicate how much in TPY will be disposed to the landfill, how much will be composted or how much will be applied directly to land.
  - For liquid digestate, indicate how much (gallons per year) will be sold as a liquid fertilizer, how much will be sent off site for other processes (i.e. irrigating compost piles) and how much will be sent to sewer.
- For projects incorporating a Food Waste Prevention component, include: how much food is being rescued, and which communities are the intended recipients of the food; as well as type of food residuals and how much, including composting, digestion, or disposal to landfill for food which was rescued but was not eaten.

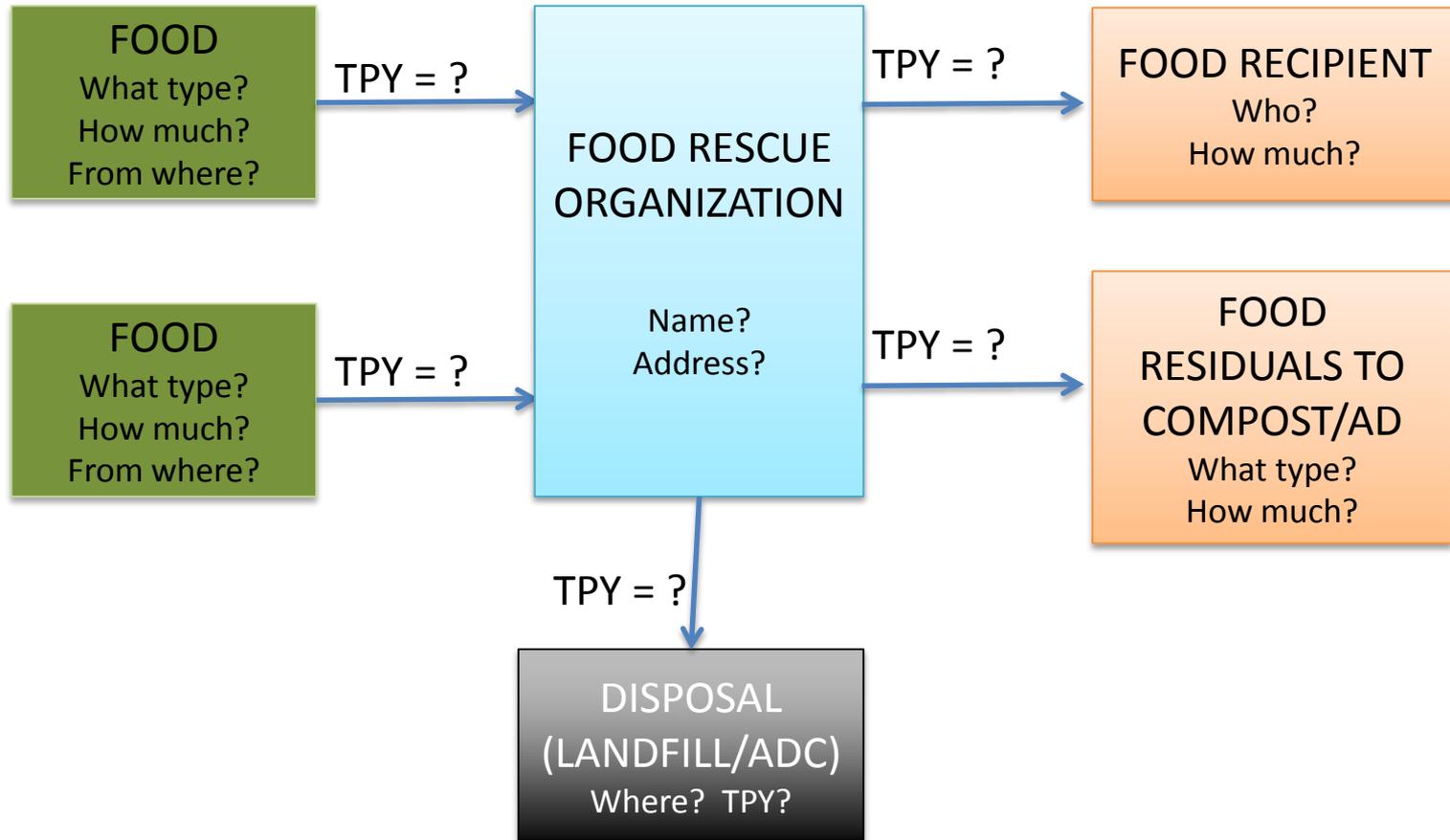
# MATERIAL FLOW CHART EXAMPLE – PROJECTED ORGANIC

This is an example of a Material Flow Chart – Projected Organic. Please include specific details about the project such as landfill that material originates from, feedstock type, tonnage per year (TPY), disposal, and business names/addresses with as much clarity as possible. For digestion projects, please include kilowatt hour per year (kWh/yr) and standard cubic feet (SCF) biomethane/year.



## MATERIAL FLOW CHART EXAMPLE – FOOD RESCUE

This is an example of a Material Flow Chart – Food Rescue. Please include specific details about the project such as food type, tonnage per year (TPY), disposal, and business names/addresses with as much clarity as possible.



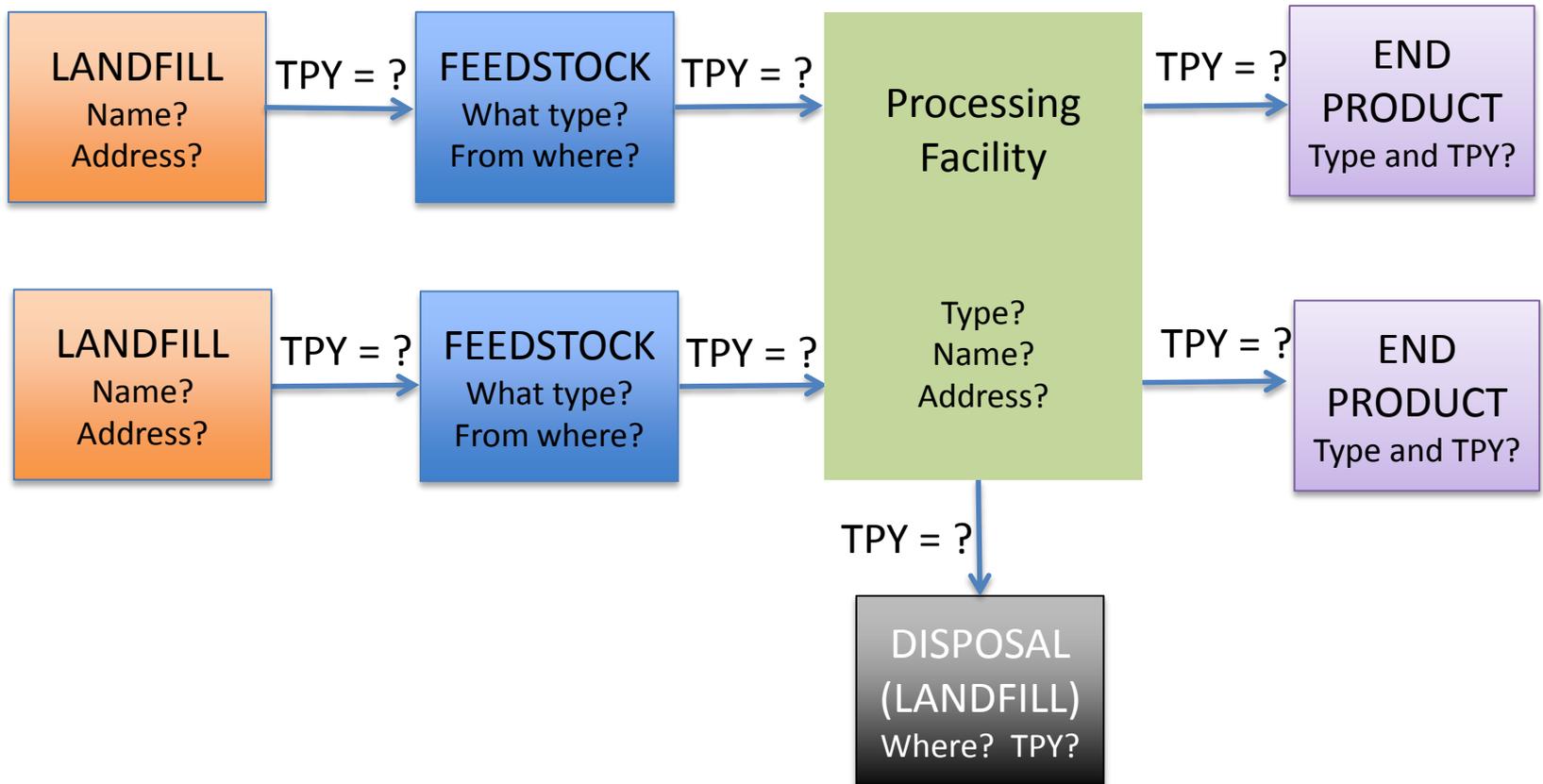
**NOTE: TWO (2) MATERIAL FLOW CHARTS ARE REQUIRED, Baseline and Projected**

### **Material Flow Chart – Baseline Recycled Fiber, Plastic, and Glass Material**

#### **INSTRUCTIONS:**

- The Material Flow Chart – Baseline Recycled Fiber, Plastic, and Glass Material is a required application document. It provides information about applicant's current practice for the proposed feedstock materials to be diverted from disposal, and the applicant's current processing or manufacturing operations. The baseline will be compared with the proposed project flow chart, including the net weight of virgin feedstock that will be replaced by material newly diverted from disposal and used in a finished product. You may use the Flow Chart Examples below. A Baseline Flow Chart must include the following information:
- All business entities or other organizations involved, as well as their roles, activities, and addresses.
- Currently disposed material flow (i.e., where proposed project feedstock will come from). Include the original source (generator name) and type of disposed material, the jurisdiction(s) of origin for each major material type, and the hauler or other party that currently controls the materials. (For example, waste carpet fiber from CarpetMaker, Inc. in Prosperity City, CA, currently taken to the Prosperity City Landfill by Busy Bee Disposal.)
- The weight in tons per year (TPY) of materials currently disposed, and names and locations of disposal sites.
- Current feedstock material flow (i.e., current practice for processing and/or manufacturing with virgin materials). Include the names of present feedstock suppliers.
- The weight in tons per year (TPY) for each phase of the current material flow.
- The TPY of yield loss (material lost in processing and manufacturing that is subsequently disposed) at each phase of the project.
- The types and TPY of virgin, postindustrial and postconsumer material, additives and fillers now used as feedstock. The TPY of processed and finished product(s) created.
- Include specific details about the project such as landfill that material originates from, feedstock type, tonnage per year (TPY) for each phase, disposal, and business names/addresses with as much clarity as possible.

# MATERIAL FLOW CHART EXAMPLE – BASELINE RECYCLED, FIBER, PLASTIC, GLASS



## Material Flow Chart – Projected for Recycled Fiber, Plastic, and Glass Material

### INSTRUCTIONS:

The Material Flow Chart – Projected for Recycled Fiber, Plastic, and Glass Material is a required document. It provides information about anticipated practice for the proposed feedstock materials to be diverted from disposal, and the applicant's projected processing and/or manufacturing operations. You may use the Flow Chart Example below as a guide to prepare your flow chart. The Project Flow Chart(s) must include the following information for the entire project:

- All business entities or other organizations involved, as well as their roles, activities, and addresses.
- The projected TPY *when the project is fully operational*, for each phase of the proposed material flow, including yield losses. Project newly diverted material flow. Include the original source and type of previously disposed material, the jurisdiction(s) of origin for each major material type, and the hauler or other party that will supply the materials to the applicant.
- The projected TPY of newly diverted materials, and names and locations of sites where the materials had been disposed.
- Projected feedstock flow for processing and/or manufacturing with the newly diverted materials, including the names of other feedstock suppliers, if applicable.
- The types and TPY of virgin, postindustrial and postconsumer material, additives and fillers projected to be used as feedstock.
- The TPY of processed and finished product(s) projected to be created.
- Include specific details about the project such as landfill that material originates from, feedstock type, tonnage per year (TPY) for each phase, yield loss, disposal, and business names/addresses with as much clarity as possible.

# MATERIAL FLOW CHART EXAMPLE – PROJECTED RECYCLED FIBER, PLASTIC, GLASS

