

Turning Organic Waste Into Value

A 3-Step Audit Process

Brought to you by Wessuc to uncover the optimal solution for your business



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Introduction

The Wessuc team works with companies across the industry to examine organic waste and determine an optimal solution. We focus on turning your waste into value so you can focus on your business. This document can be used to gain a better understand of your waste stream and provide some insight into available options.

What is a Waste Stream Audit?

A waste audit typically involves not only measuring the quantity of waste and identifying its composition, but also identifying how the waste gets produced, including management decisions or policies that may be related to the production of waste. Start by assessing:

<i>The amount, nature and composition of the waste.</i>	
<i>How the waste is produced.</i>	
<i>How the waste is managed.</i>	

Conducting a Waste Stream Audit

A waste audit is a process for evaluating the materials in your waste stream and assessing whether materials are being disposed of correctly.

The waste audit process allows you to identify opportunities for diverting waste streams away from the landfill and toward recycling or composting.

Benefits of a Waste Stream Audit

- Identify opportunities for reducing waste & increasing reuse
- Identify changes you can make and take action
- Reduce the amount of waste
- Reduce waste management costs

How to Review a Waste Stream Audit

Waste Stream Audit Results

Waste Type	Weight (kg)		Percentage of Waste Type Diverted	Percentage of Total Waste Associated with Waste Type
	Disposal Stream	Diversion Stream		
Glass, Metal, Plastics	5	250	98%	7.8%
Mixed Paper	20	400	95%	12.9%
Cardboard	25	100	80%	3.8%
Batteries	0	0	0%	0.0%
Wet Waste	150	0	0%	4.6%
Restroom Waste	100	0	0%	3.1%
Wash water	750	0	0%	23.1%
Process water	750	0	0%	23.1%
DAF waste	0	500	100%	15.4%
Oil waste	200		0%	6.2%
Totals	2000	1250	38%	

The total amount of waste examined during the audit was 2000 kg including the following subtotals for each waste type:

- 1250 kg of waste was successfully diverted for recycling
 - No batteries, lamps, or durable good items were misplaced in the ongoing recycling or landfill/incinerator waste
- 2000 kg of waste was sent to landfill or other disposal sites

Best Practices for Conducting a Waste Stream Audit

1. Analysis
2. Review existing methods
3. Collect/transport
4. Reduce/Reuse/Recycle
5. Report back

Step 1: Waste Characteristics For Each Source

<i>What is the material consistency (% solids)?</i>	
<i>Is the material a solids or liquid?</i>	
<i>Any known hazardous chemicals in the waste?</i>	
<i>Does the material have a waste classification?</i>	
<i>If so what is the waste classification?</i>	
<i>Sample analysis available?</i>	
<i>Historical analysis available?</i>	
<i>Volume of waste to manage per day, week, month, year?</i>	
<i>Present annual cost?</i>	
<i>Combined or single waste stream?</i>	

Step 2: Looking at Site Characteristics

<i>Present management method</i>	
<i>Onsite storage volume</i>	
<i>Collection frequency required</i>	
<i>Site accessibility for waste removal</i>	
<i>Site entry procedure</i>	
<i>Hours of operation</i>	
<i>Loading facilities onsite</i>	
<i>Loading rate litres/min</i>	

Step 3: Review Your Options

After documenting details of your process and waste it's time to examine available options to reduce, reuse, recycle and recover waste in a cost effective manner.

Things for you to consider:

- Waste volumes can often be reduced.
- Treatment and isolation of a hazardous waste component could provide reuse options.
- Organic waste can usually be recycled.
- Waste options such as, composting, digestion, energy production, soil amendment, bedding, cover, animal feed, etc.
- Onsite storage affects collection frequency and cost.
- Onsite treatment options can reduce haulage and end use cost.
- Washwater can be treated onsite and often reused.
- Sewer discharge restrictions and associated fees need to be added into annual cost.



About Wessuc

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Established in 2000, Wessuc is a family owned and operated business that cares about the environment and how our operations affect it. We don't just pump, clean, inspect, and haul. We continue to expand our services and our capabilities to make a greener and environmentally safer place to live, work, and play.

We do all of this with a safety-first mindset and a quest for the latest in technological advances. We're dedicated to constantly improving our processes and finding new ways to meet the needs of our customers. The status quo is never enough and at Wessuc it never will be.

It's why we're the leader in our industry and the reason our relationships with clients go beyond to just getting the job done. We really do care about and are proud of everything we do. It's in our DNA and the only way we know how to do business.



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