

Annie Dudley, MURP Michigan State University July 26th, 2024







PROJECT TEAM



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INTRODUCTION

- In 2020, Ferndale hired Resource Recycling Systems (RRS) to develop a sustainable waste and recycling plan.
- RRS identified an educational gap in Ferndale's current waste management system.
- Information was provided ad hoc to new businesses but not continuously updated.
- This fellowship project aims to implement the ongoing education recommended by RRS in 2020.



WASTE REDUCTION AND RECYCLING MASTER PLAN FOR FERNDALE DOWNTOWN

PREPARED BY:

COMMISSIONED BY:





INTRODUCTION

Downtown Ferndale utilizes shared collection sites for recycling and refuse

To address this gap, create an informational training guide aimed at restaurant staff and business owners.

46% of total employment in the CBD is in restaurants

restaurant staff turn over and lack of training leads to collection site contamination

ALOOK AT FERNDALE'S SYSTEM

Zero Waste Coordinator and Sanitation Officer positions are key in creating and enforcing sustainable practices in Ferndale

These staff positions are funded through Ferndale's sanition fee

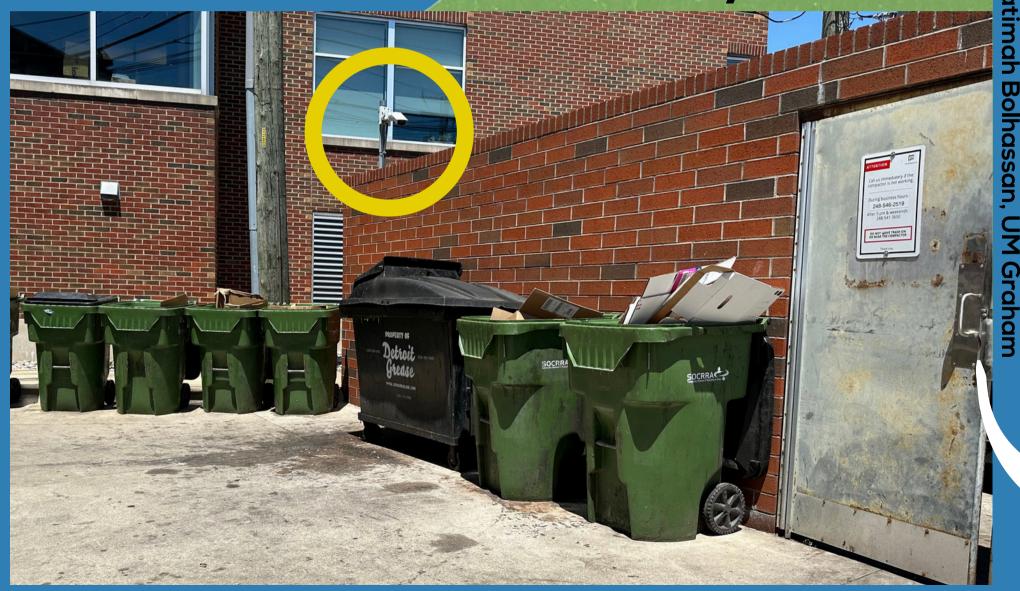




Strong interdepartmental relationships help ensure effective communication and implementation

A LOOK AT FERNDALE'S SYSTEM

- key fob system
- security cameras





FERNDALE'S SYSTEM CONT.

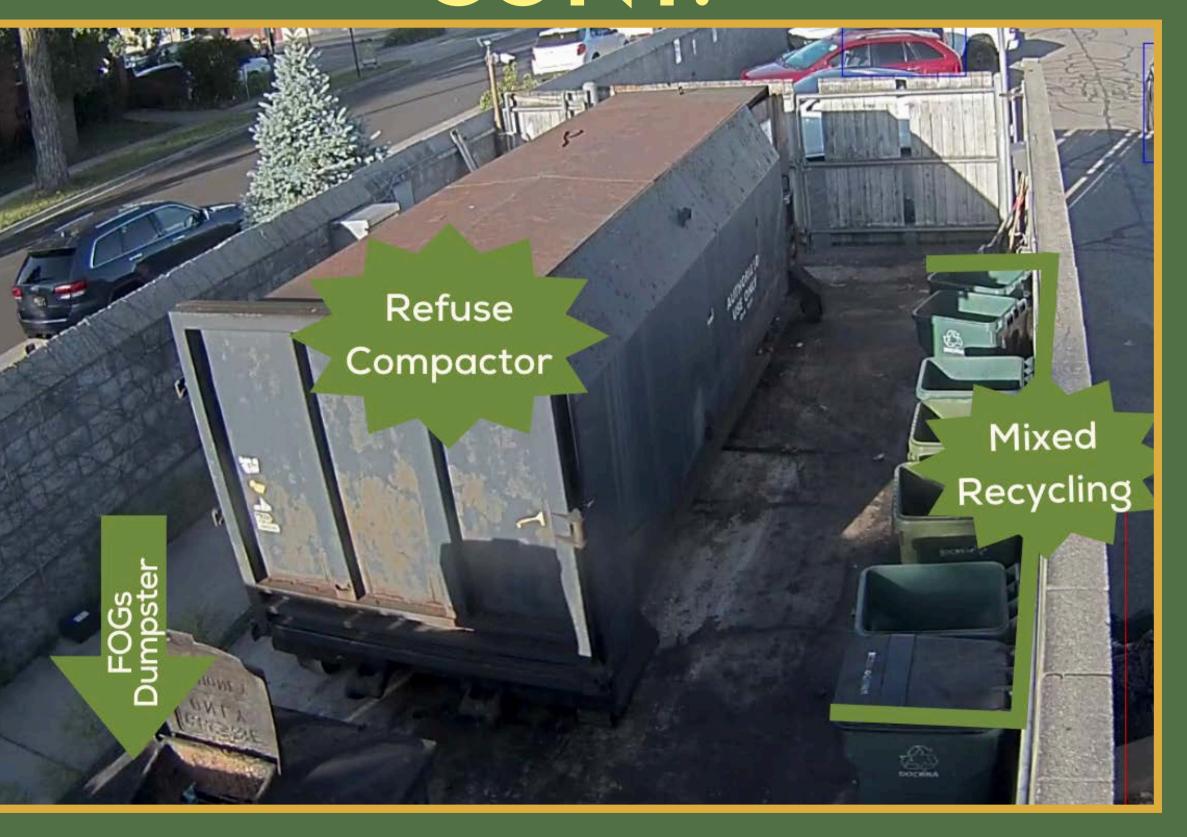


Photo: Roger Long, Ferndale DPW

Waste hubs collect various streams: mixed recycling, FOGs (fats, oils, greases), refuse, and cardboard.

High-volume materials like cardboard are collected separately.

Centralized waste hubs keep alleyways clear and improve aesthetics.

Tracking contamination and providing targeted waste management education in shared spaces is challenging.



APPROACH



Stakeholder Conversations

- -Business owners
- -Downtown Development Authority (DDA)
- Department of Public Works (DPW)
- -City of Ferndale Communications department



Synthesize findings in Downtown Waste Management Toolkits, one for Ferndale, another as a plug-and-play kit.





Conversations with Ferndale business owners and DDA



Deliverables



TOOL-KIT

An Informational Guide

by CLCF Annie Dudley











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Deliverables Cont.

How to Dispose of Trash

Ferndale contracts with Car Trucking to collect their solid waste and recycling from the central business district. Guidelines for all commodities collected are based on SOCRRA's requirements, which you can find linked here, through the QR code at the bottom, or depicted on page 11.

The first step in waste disposal is to identify which waste hub is closest to you (See Pg 5 for Map).

> Once visual check is complete, close compactor door/ dumpster lid. If using the compactor, do not be alarmed by any loud. mechanical noises that may follow. This is normal.

Trash should be taken to the compacter in a secure bag and should only contain acceptable refuse (no recyclables, food, or hazardous waste).

After placing trash in compactor, look around to ensure that there is no trash or debris on the ground.



SOCRRA's Guidelines Found Here

Ferndale Specific

Guidelines

How to Dispose of FOGs

Fats, Oils, and Greases (FOGs) are collected in containers [INSERT FOGs COLLECTION SITE]. [INSERT COLLECTION AGENCIES] service the FOG containers. When disposing of FOGs, it is important to keep the following in mind:

Make sure that kitchen staff are properly equipt with the correct tools to get the job done. This looks like investing in easy-to-clean 5 gallon pails and transport containers with wheels.

> Before taking FOGs from inside a restaurant to the outdoor dumpster, conduct a visual check to make sure no contaminants have fallen into the transport bucket.

For more information, check out previous CLC Fellow Audrey Wilfong's FOG management guides through this QR code!

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Do not overfill FOG containers and use covers. If containers are overfull or lack covers, the FOG may spill over and get into storm drains.

Make your own spill kits with absorbent material such as absorbent pads or kitty litter. Keep these spill kits well marked and accessible for cleaning spills.



General Guidelines

CENTRAL BUSINESS DISTRICT MIXED RECYCLING GUIDE

Recycling Preparation

- •Clean, dry, & empty
- •Goes in roll-off cart Cardboard NOT accepted in roll-off
- cart. Please place in cardboard dumpster if applicable.





Plastic Bottles and Tubs



NOT RECYCLABLE



Plastic Bags Syringes



Food Waste



Styrofoam



Textiles



Lightbulbs **Batteries**



Electronics







Extractable Flyers Work for Both

How to Dispose of Trash

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 Links to Ferndale specific resources

References to
 Ferndale specific infrastructure/
 companies



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 Fill-in-the-blank blurbs

- General resources and best practices
- Template customizable

For more information. check out previous CLC through this QR code!



Central Business District Grease Recycling Guide

1)Let grease cool.

2)Pour into a transport container.

3)Dispose of grease in can.

4)Used Cooking Oil (UCO) is the only acceptable material to be placed in grease can.



- Generic imagery
- Universal instruction
- Minimal language

 (meant to be printed
 and displayed)
- Toolkits are offered online as Canva templates for further customization

Trash Compactor Tutorial

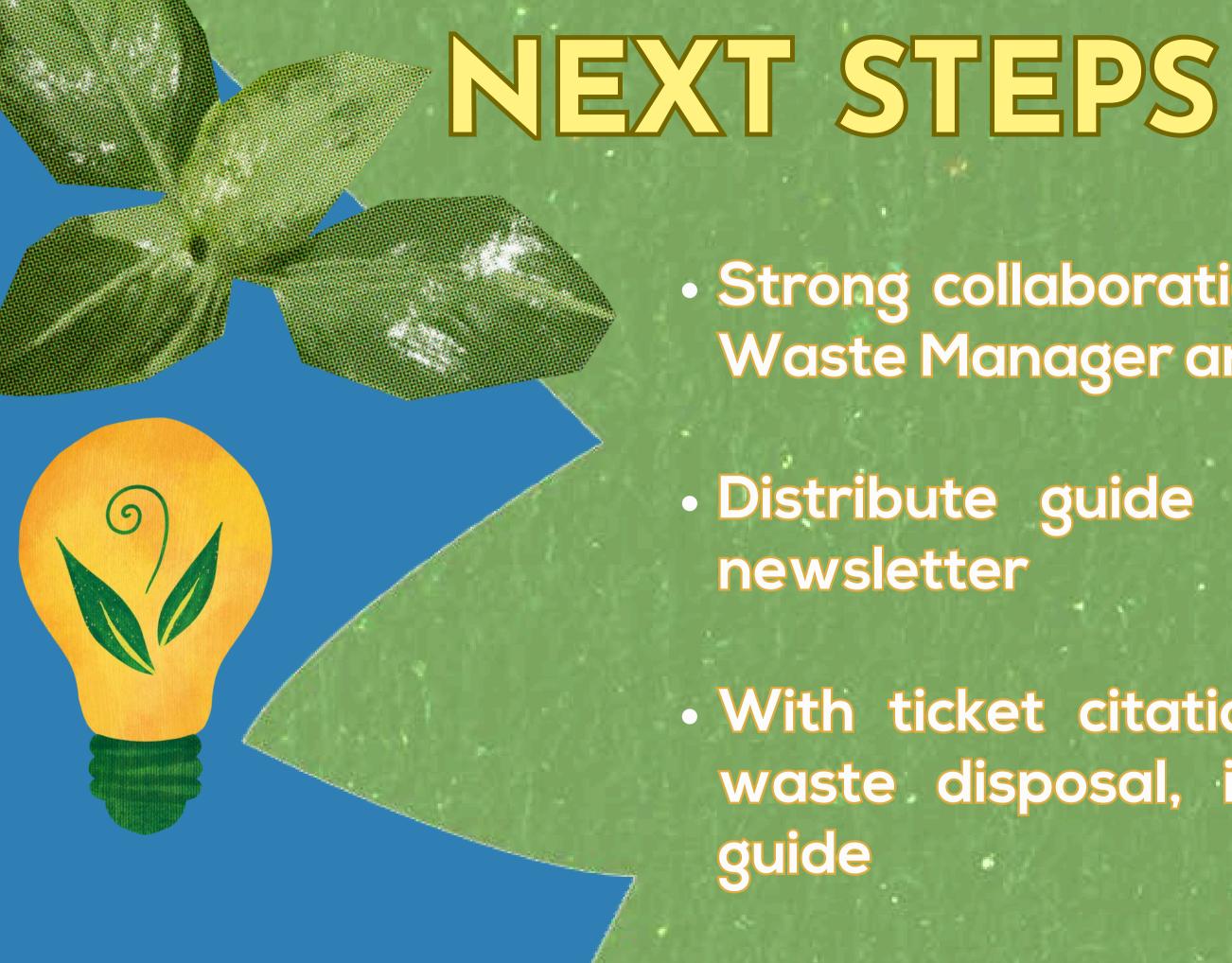


City of Ferndale, MI Trash Compactor Tutorial

No views • 3 minutes ago

City of Ferndale Trash Compactor Tutorial By: Annie Dudley, 2024 Catalyst Leadership Circle Fellow Logan Applebee, Zero Waste Systems Manager, City of Ferndale Alexandra Haddad, Communications...

- Location of trash compactors
- Acceptable use guidelines
- What is / is not trash
- What is / is not recycling
- Extra resources



- Strong collaboration between Zero Waste Manager and DDA is key
- · Distribute guide through DDA enewsletter
- With ticket citations for improper waste disposal, include copy of guide

QUESTIONS? THANK YOU!



This work would not have been possible without the participation and information of so many stakeholders and supporters, special thanks to:

All the CLC Fellows!

Sarah Lee, CLC Fellowship Director, Graham Sustainability Institute

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Sommer Realy, Engagement Manager

Jennie Beeker, DDA Director

Roger Long, DPW Officer

Michael Hennes, Howe's Bayou Owner

Ferndale Communications Department