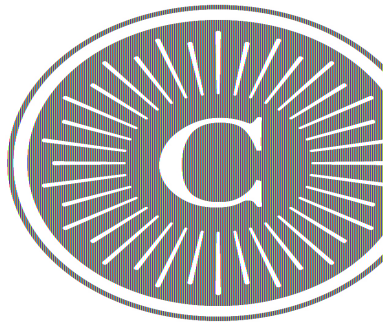


Waste Audits as a Successful Educational Tool & Waste Organizational Structure at Carleton



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Alexandra Miller
Sustainability Program Coordinator
UMACS, Cental College
Pella, IA

September 30, 2017

Carleton College 101:

Private liberal arts college in Northfield, Minnesota

1,995 students from 50 states and 35 countries

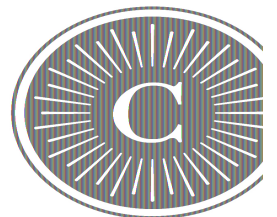
Mostly Residential Campus

Academic calendar on the trimester system

Energy and Sustainability Office housed in Facilities

Carbon reduction to date: 20% since 2008

Carbon neutrality goal: 2050



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FY 17 Waste Profile:

Specialized Recycling

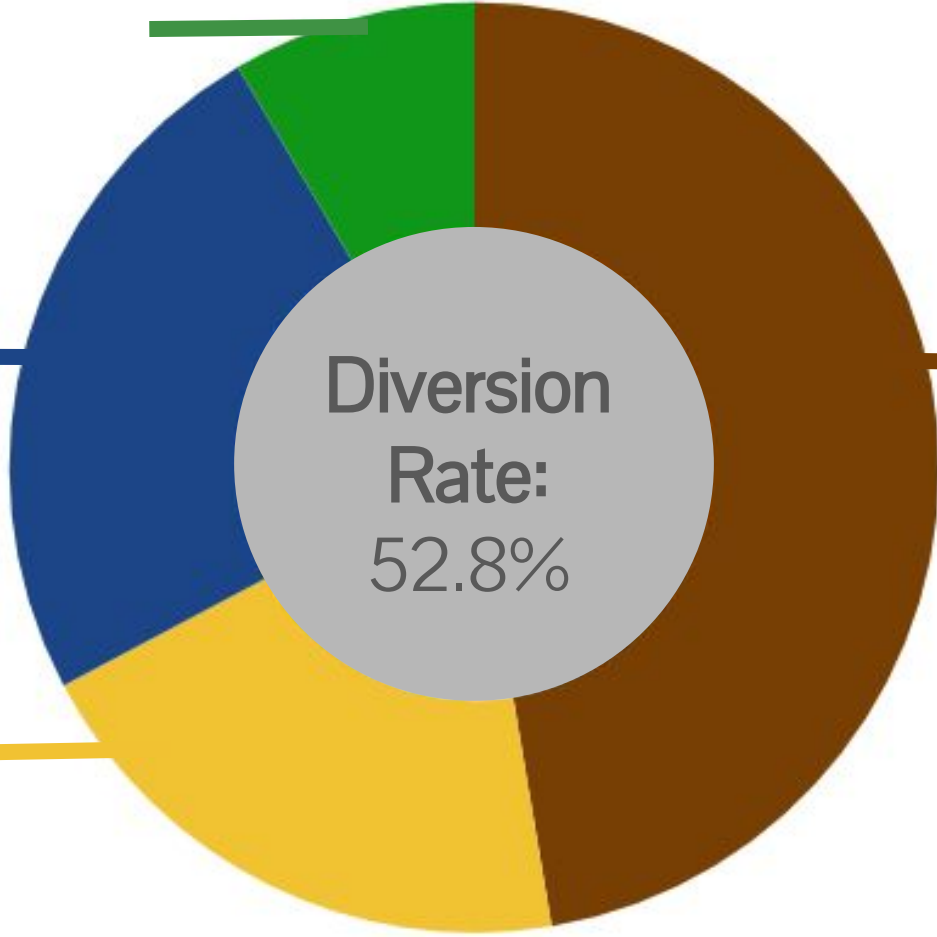
100 Tons
8.5%

Recycling

286 Tons
24.3%

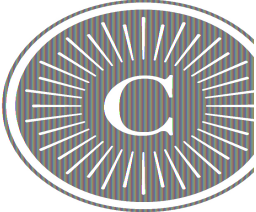
Compost

234 Tons
20%



Landfill

557 Tons
47%



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Waste Projections:

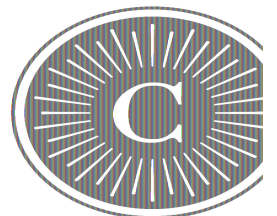
Percentage of total Emissions: 4%

Percentage of Scope 3 Emissions: 13%

BUT, after planned projects & policies are implemented:

Percentage of total Emissions: 8%

Percentage of Scope 3 Emissions: 55%



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Waste Initiatives:



Campus-Wide Initiatives:

Campus-wide Composting & Recycling
Specialized Disposal Request
Office Supply Swap
Dorm Study Breaks
Zero Waste Events
Comprehensive Waste Guide
Triple Bin Signage
Terracycling

Academics:

FOCUS Course
Research Methods Course

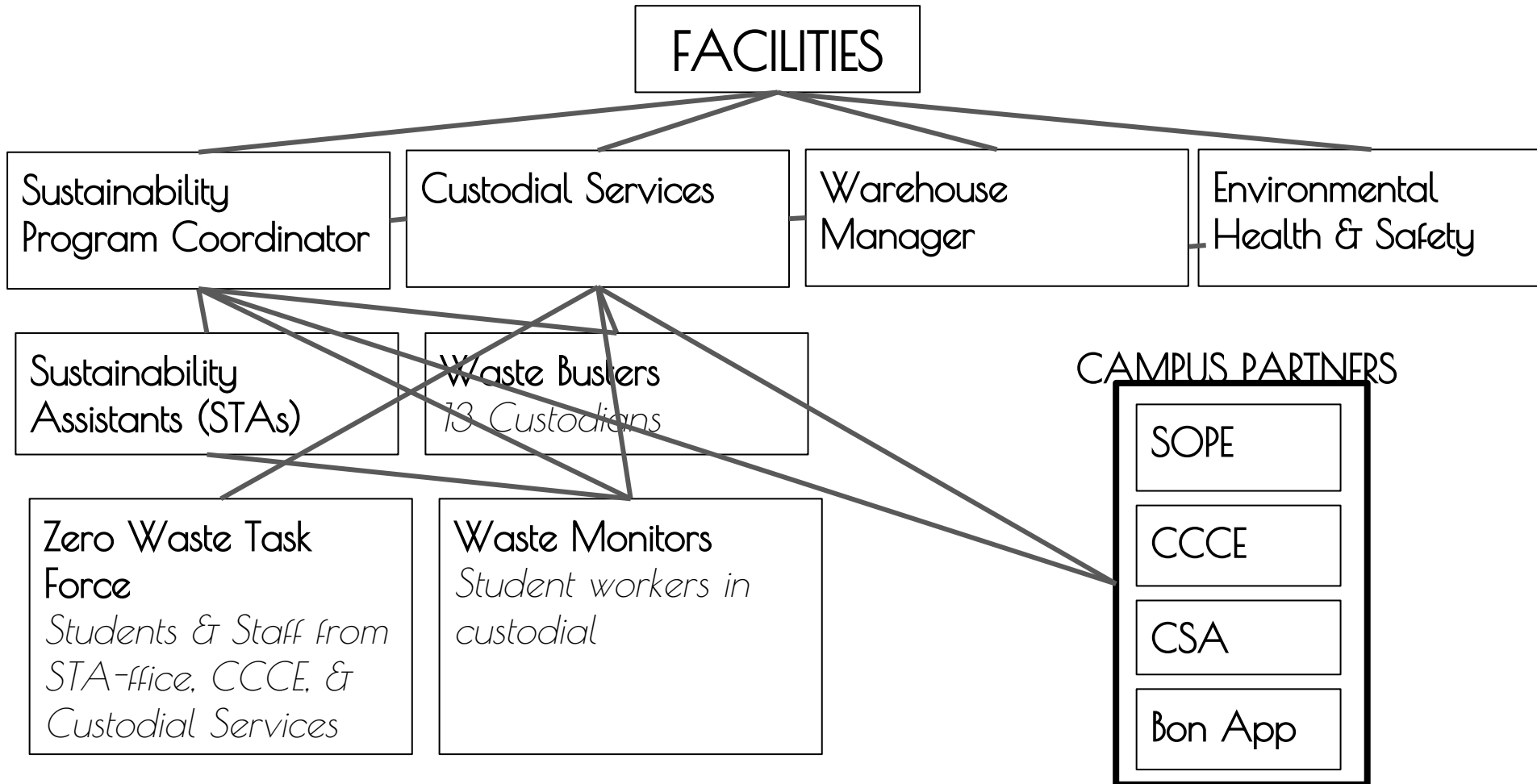
Staff:

Waste Busters
Waste Monitors
Zero Waste Task Force
Sustainability Assistants

Organizations:

Food Recovery Network
SOPE
Post-Landfill Action Network
Center for Civic and Community Engagement
Bon Appetite
Carleton Clothing Connection

Waste People:



Planning at Carleton:



Campus Master
Utility Study
2007



Climate Action Plan
2011



Strategic Plan
2012



Facilities Master Plan
2014



Utility Master Plan
2017

Coming Soon...



Zero Waste Plan
2018

Case Study: Waste Audits

Waste
Audit #1

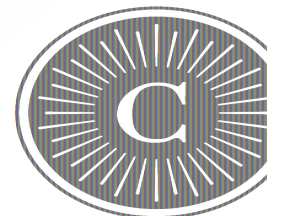


Educate

Report
Results



Waste
Audit #2



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Case Study: Waste Audits



Before



After

Case Study: Waste Audits

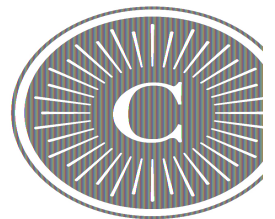


Results:

78% diversion April 4th

95% diversion April 19th

NO contamination of the
compost!



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Case Study: Waste Audits



Staff thoughts:

“You’ve got me sorting out every piece of waste.”

“We have to lead by example!”

“I am so angry...we handle waste every day and should have this down pat.”

Case Study: Waste Audits

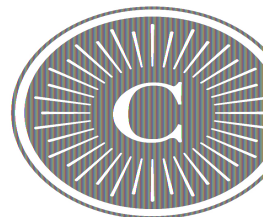
Lessons Learned:

Quality over quantity

Targeted audience = targeted education

Semi-private shaming & public praising

Power of friendly competition & team mentality



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Thank you!

Alexandra Miller

Sustainability Program Coordinator

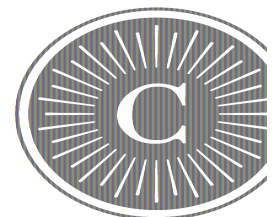
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go.carleton.edu/geothermal



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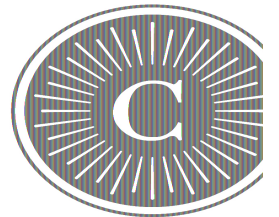
Questions for the group:

Do you have a zero waste goal?

Do you have a plan to achieve that goal?

What are barriers to achieving zero waste on your campus?

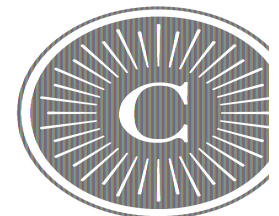
What resources do you need on your campus to achieve zero waste?



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Data:

Comparison of Audits:		
	April 4th, 2017	April 19th, 2017
Contamination in Landfill:		
Recycling	14%	0%
Compost	48%	23%
Contamination in Recycling:		
Landfill	11%	11%
Compost	15%	0%
Contamination in Compost:		
Landfill	0%	0%
Recycling	78%	0%



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