

Kent County Department of Public Works



Recycling & Education Center



South Kent Landfill





Waste-to-Energy Facility

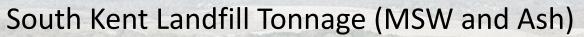


North Kent Transfer Station













Landfilling 2 million CY3 every year







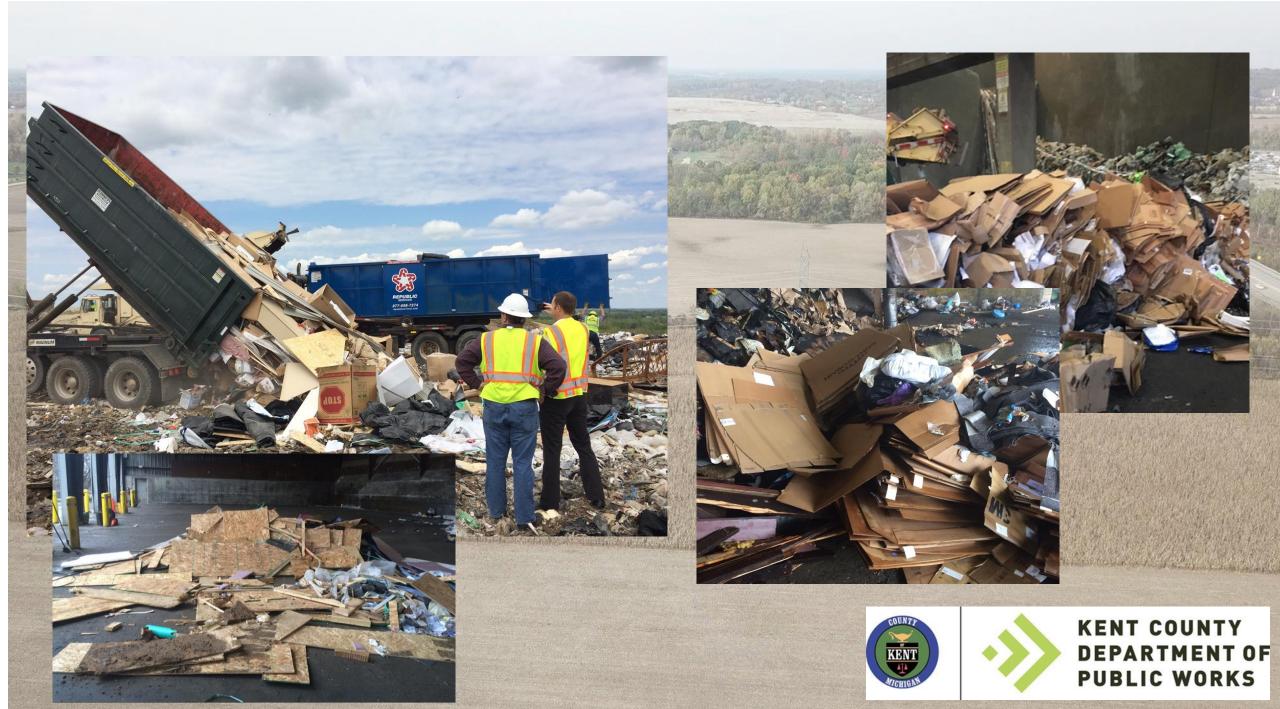
Landfilling is a waste









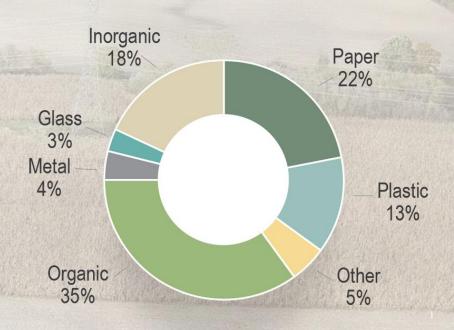


2015: WMSBF Waste Characterization Study





Kent Municipal Solid Waste Composition (mean % by weight)



Source: West Michigan Sustainable Business Forum 2016 Michigan MSW Valuation Study. wmsbf.org/msw

2016: Landfilling will not be our legacy.



CURBSIDE RECYCLING ACCESS* IN KENT COUNTY

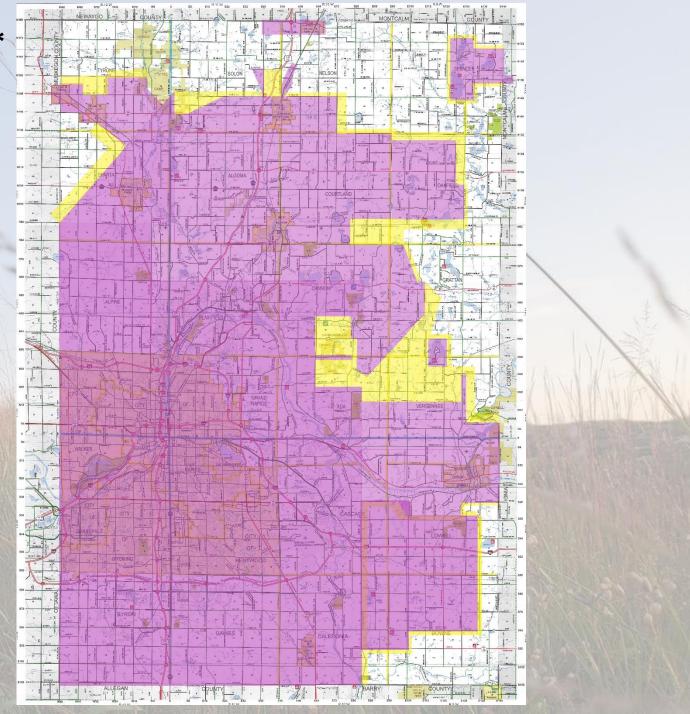
- Access to Curbside Recycling
- Potential Access to Curbside Recycling
- No Access to Curbside Recycling

* "Curbside Recycling Access" refers to recycling programs that serve individual households by collecting recyclables in bins or carts at the residence.

Typically these programs <u>do not include multi-</u> family facilities in excess of four units per building and the resident must place the bin or cart along a <u>public street</u>.

There may or may not be <u>a fee or tax</u> associated with this service.

(Definition based on information from The Recycling Partnership)



Most recyclables still end up in the trash

Only 25% of residential recycling in Kent County is collected & sorted into commodities.

The remaining <u>75,000</u> tons are thrown away annually.

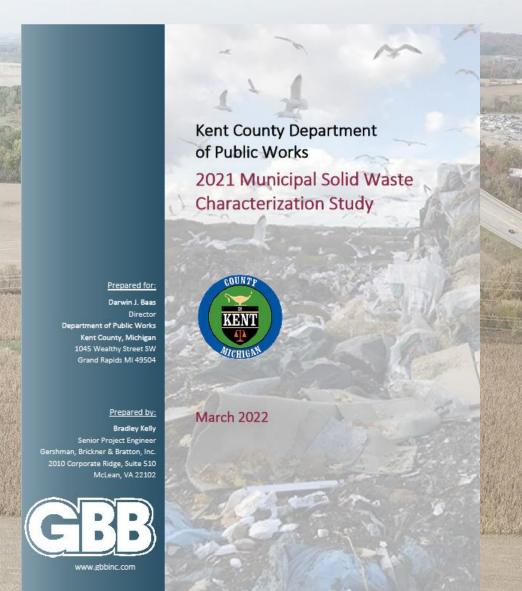




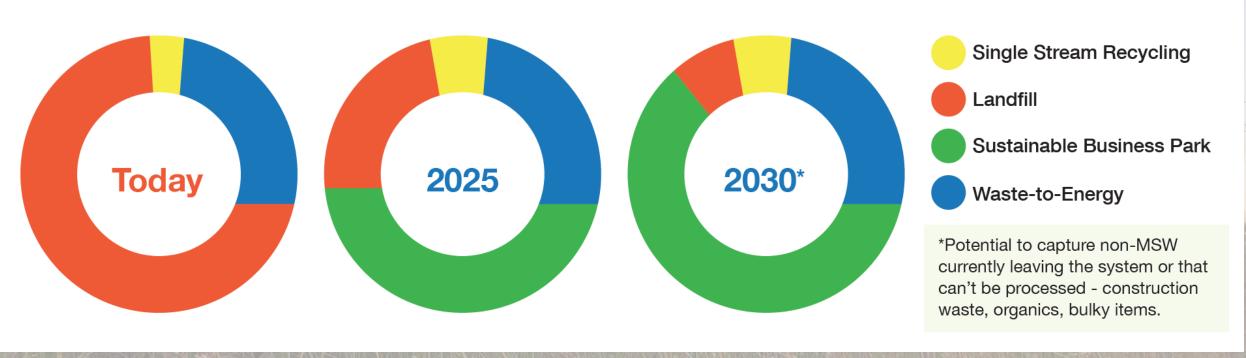
2021 Waste Characterization Study

465,000 tons of processible waste generated in Kent County annually.

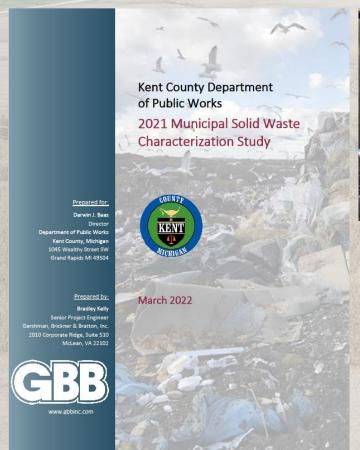
16% of this waste is Single Stream Recycling material.



Percentage Breakdown of Kent County Municipal Solid Waste by Destination



2022 Waste Characterization Study







1M tons of commodities to be recovered from waste stream over next 25 years.

\$300M value.

(metal, plastic, glass, paper and old corrugated cardboard)





Sustainable Business Park - how we got here:

2016

- Waste characterization study
- Goal: Reduce landfilled waste by 90% by 2030
- Roadmap to "re-imagine trash" approved – includes Resource Recovery Park concept

2017

 Sustainable Business Park Master Planning Process

2018

- SBP Master Plan approved
- Three-year moratorium on expanding SKL

2019

- Business Development
- Infrastructure Analysis
- Alternatives Analysis

2020/2021

- Anchor Tenant RFP Issued
- Evaluation & Finalist selected
- Grants and Allocations

2022

Project Development
 Agreement approved

Anchor Tenant Procurement Process

9 RFP responses

5 shortlisted

2 finalists

Technology Maturity and Suitability

Diversion Rate, Business Development Plan and Environmental

Qualifications/Capability: Organization, Financial, Key Personnel

Net Cost to DPW

Project Plan and Understanding

RFP Evaluation Team:



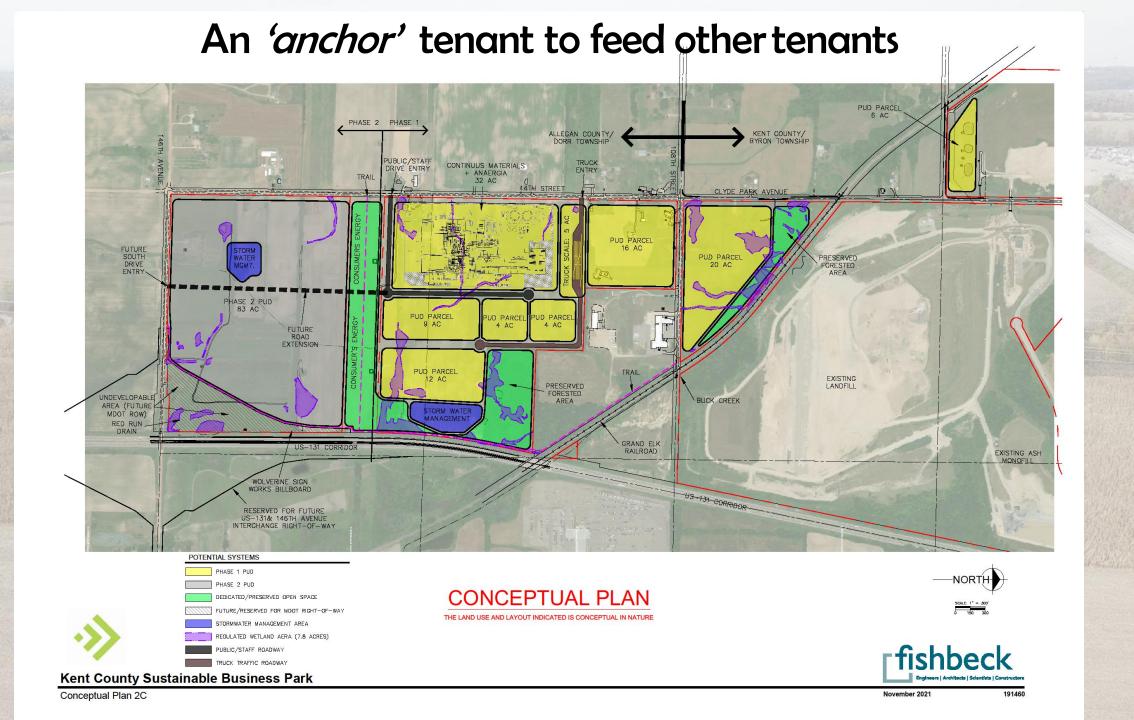




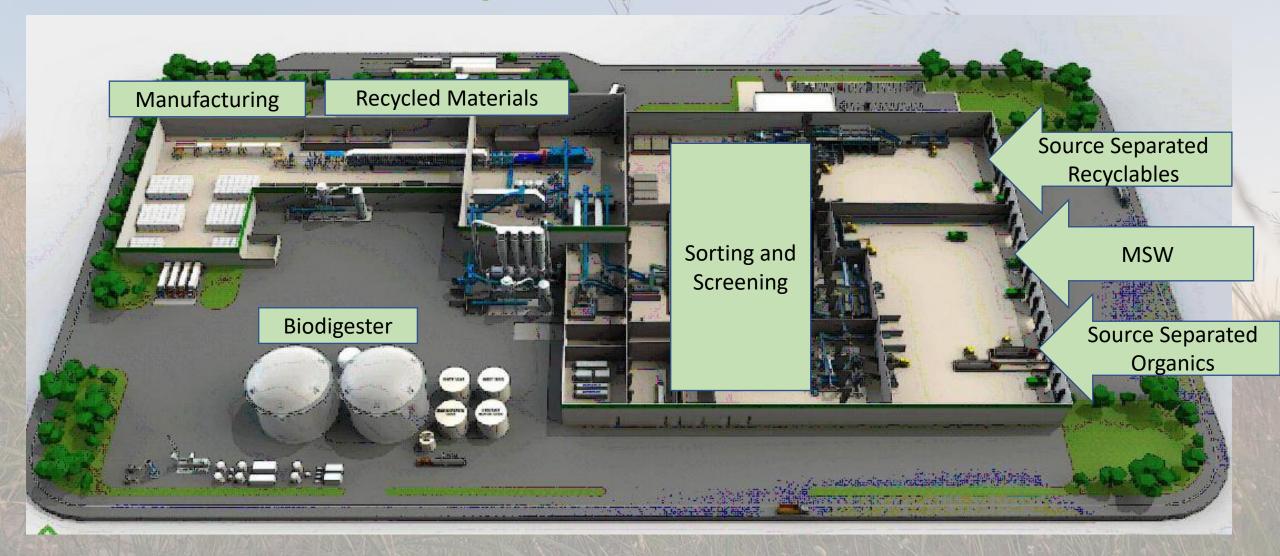




- Finalist interviews
- Site Tours
- Financial Analysis
- Risk Analysis
- MEDC Staffing and Investment
- Final Selection



Continuus Materials + Anaergia Breaking Barriers to Sustainability



Continuus Materials + (Anaergia



60% Landfill Diversion + Outputs:



Roof Coverboard



Fertilizer



Renewable **Natural Gas**



Recyclable Commodities

Continuus Materials Process Overview

Continuus develops, manufactures and sells premium building products using a proprietary process to upcycle waste that would otherwise be landfilled

SCALABLE MANUFACTURING PROCESS

Waste Arrives



Receive unsorted municipal solid waste (MSW) and recycling residuals

Materials Separated



Automated separation to recover paper and plastic

Feedstock Prepared



Paper and plastic are blended, dried and amended (biocide, binders) per product specifications

Everboard Made



Feedstock is pressed using heat and pressure; facers are added as needed; Everboard cut to size and tested per spec

Roof Cover Board Is A High Performance Product

Roof cover board provides a durable layer under the membrane that protects the insulation while enhancing the overall strength and performance of the roof



Everboard Has Proven Performance with Multiple Customers

Everboard has been successfully supplied in over **200** commercial roofing installations.





Retail / Office















Warehouse/Data Center











Manufacturing

















Public-Private Partnership

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Investment	\$70M	\$280M
Phase One Infrastructure	\$19M	-

	General Obligation Bonds	Revenue Bonds
Issuer	Kent County	Kent County via DPW Enterprise Fund
Pros / Cons	Lowest transaction cost and interest rate (Current 25-Yr. AAA tax exempt: 1.40%)	Higher transaction cost and interest rate (Current 25-Yr. Single A tax exempt: 1.6%)
Repayment	All County revenues	DPW system revenues
Debt Service difference		\$100,000 more than GO bonds

Systemwide Tipping Fee Estimate	\$76/ton
*Impact to Curbside Cost for Processing Estimate	+ \$3.10/mo

As we think forward about the future of managing municipal solid waste, we cannot perpetuate it's simply okay to throw resources away by landfilling them.





We make decisions everyday what we're "throwing away" no longer has value. While it may be cheaper today, the reality is our current approach to manage trash by burying it in the ground creates externalities. We have a choice. There is a path. We can recapture the value of what is deemed garbage destined for landfill.





We're proving out that we can recapture resources to drive economic development, job creation, private investment, technology and renewable energy - making the best use of these resources and protecting the environment for future generations.



