

LIVABLE MECK
YOUR VOICE. YOUR VISION.

ENGAGEMENT CAFÉ

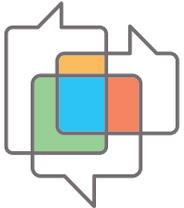
September 21, 2017



YOUR VOICE. YOUR VISION.

SOLID WASTE & RECYCLING ENGAGEMENT CAFÉ

September 21, 2017



LIVABLE
MECK

AGENDA

1. Introduction

2. Overview of the Project (Erbert)

3. Objectives

4. Current Status & Challenges (Smithberger)

- ▶ Highlights of Current Services
- ▶ Trends & Impacts
- ▶ Decisions for the Future

5. Key Findings

6. Recommendations (Erbert)

7. Conclusions

8. Next Steps (Erbert)

9. Summary

10. Appendix (Erbert)

10. Contact

11. Acknowledgements

LIVABLE MECK

COMMUNITY PLAN BASED ON 120 ORGANIZATIONS & 2000 VOICES

Guiding Principles	 WELCOMING	 INNOVATIVE	 CONNECTED	 INCLUSIVE	 PREPARED	 HEALTHY	 RESILIENT
Descriptors	Character. Entertainment. Opportunity. Safe Neighborhoods.	Jobs. Entrepreneurship. Commerce.	Engaged Residents. Transportation Choices.	Community. Participation.	A Skilled Workforce. Quality Education.	Physical Activity. Healthy Foods. Clean Environment.	Future Well-being. Collaboration.
Strategies	<ul style="list-style-type: none"> • Build safe neighborhoods • Increase access to community-based arts, science, and history education • Continue to be an inviting destination for residents, visitors and businesses • Celebrate and integrate history, culture and diversity 	<ul style="list-style-type: none"> • Make it easier for new businesses to succeed and existing businesses to flourish • Increase global economic competitiveness • Promote the redevelopment, reuse, and rehabilitation of declining and vacant properties • Leverage technology 	<ul style="list-style-type: none"> • Expand capacity and increase use of sidewalks, bikeways, greenways/ paved trails, bus routes, and rail • Build stronger connections across diverse population groups 	<ul style="list-style-type: none"> • Balance available housing options • Coordinate the work of organizations addressing the needs of at-risk residents • Expand the availability of affordable recreation and cultural services programs 	<ul style="list-style-type: none"> • Expand and enhance learning across all age groups • Enhance partnerships between workforce development initiatives and employers 	<ul style="list-style-type: none"> • Create a culture of health and wellness • Protect and restore the natural environment • Coordinate open space, greenways/ paved trails, and parks planning with neighborhood accessibility 	<ul style="list-style-type: none"> • Manage zoning and development to revitalize community character and the natural environment while allowing for growth and innovation • Manage resources wisely • Develop community and neighborhood leaders for the future

TODAY'S OBJECTIVES

- **Educate partners** about solid waste and recycling services.
- **Inform partners** about the impacts and trends.
- **Ask partners** for their thoughts and priorities for the future.
- **Involve partners** in recommendations for the future.





YOUR VOICE. YOUR VISION.

JEFFREY SMITHBERGER
MECKLENBURG COUNTY SOLID
WASTE DIRECTOR



LIVABLE
MECK

LEARNING OBJECTIVES

- Expand your **knowledge** about Solid Waste Management
- Discuss the **big picture** of our operations
- Provide **feedback** to influence our **community's future**



A FEW QUESTIONS...

Where does your trash and recycling go?

Away is not an appropriate answer.

How much do you pay for trash?

Is this important to you?

As Mecklenburg County moves forward into our future these two questions will be paramount in our decision matrix.

WE DON'T DO THIS...



OUR VISION

To operate solid waste management systems that serve the public in a **safe, efficient,** and **cost effective** manner. Minimizing waste generation, always looking to the future.

COUNTY AGREEMENTS

Mecklenburg County has an agreement with:

- The City of Charlotte
- The 6 Towns in Mecklenburg County
 - Davidson
 - Pineville
 - Cornelius
 - Matthews
 - Huntersville
 - Mint Hill

The County will provide solid waste disposal capacity as part of these agreements. This agreement runs through 2028.

OUR FACILITIES

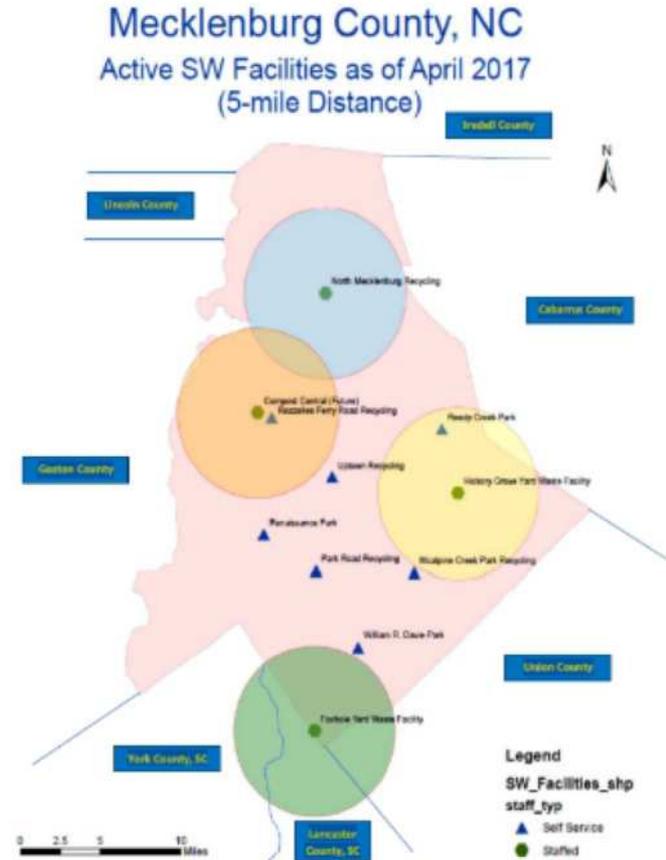


CURRENT FACILITIES

Full Service Centers:

- North Meck
- Hickory Grove
- Compost Central
- Foxhole
- *Metal and Tire Site**

7 Remote Recycling Sites



SOLID WASTE SERVICES

Requiring various permits and knowledge



WHO WE SERVE

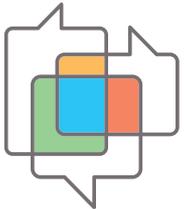
- All residents of Mecklenburg County
- Some residents outside of Mecklenburg County, Lancaster SC, Union, Cabarrus.
- Visit us online @ www.WipeOutWaste.com



YOUR VOICE. YOUR VISION.

FUTURE SOLID WASTE MANAGEMENT

Balancing Services, Contamination, Cost, and Capacity



LIVABLE
MECK

WHAT WE DO (EVERY YEAR)

We manage public Solid Waste for the government units in Mecklenburg County



Speedway Landfill:
384,000 tons

Commercial & Development Waste



Foxhole Landfill:
116,000 tons

Recycling Facility



Materials Recovery Facility:
76,000 tons

Yard Waste Facility



Compost Central:
130,000 tons

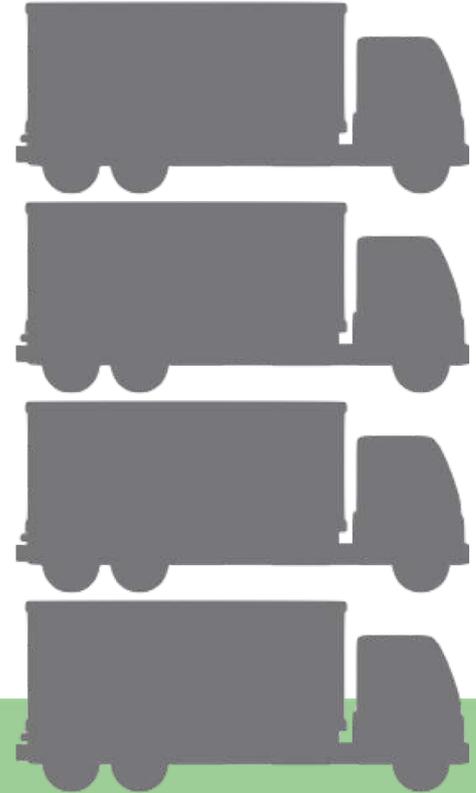
706,000 TOTAL TONS

TELEVISION AND ELECTRONICS

Mecklenburg County Solid Waste processes almost 4 tractor trailer loads of TV's EACH week.

Over 28,000 TV's each year.

52 x



TIRES

We process almost six tractor trailer loads of tires EACH week.

Roughly 312 tractor trailers each year.

52 x





PAPER SHREDDING



ECOFLO

Taking The Hazard Out Of Waste Management

800-999-6510 www.ecoflo.com

CESQG DAY

Concrete Diversion:

FY 16 7,137

FY 17 8,486



CONCRETE DIVERSION

Drywall Diversion:

FY 16 4,971

FY 17 6,541

**CLEAN
DRYWALL
ONLY**

DRYWALL DIVERSION

recycle

THE
runway
ECO-FRIENDLY GARDE
N SHOW



- CONVULSATED
- AGDATA
- Beautiful
- WIPE OUT WASTE
- WORTHLAKE MALL
- Bank of America
- Target
- Trex
- Publix
- PAUL MITCHELL
- CARMEN CARMEN

- WIPE OUT
- WATER
- WATER
- WATER

RECYCLE THE RUNWAY

Have You Recycled Your
CARDBOARD
Today?

WipeOutWaste.co.uk

1310

The billboard features a photograph of a pizza box being crushed into a pile of cardboard. The text is in a mix of black and green fonts. The website URL is at the bottom left of the billboard, and the number 1310 is on the right side.

WHY DO WE ADVERTISE?

SPECIFIC MESSAGING

Never in curbside cans.

Rechargeable batteries are a new and emerging problem for curbside recycling.

**NO PROPANE TANKS
NO FLAMMABLE
SUBSTANCES**



All gasoline & oil must
be drained from mowers
and engines

MRF





Plastic bags wrapped around equipment at the Materials Recycling Facility, causing damage to equipment and hazards for employees.



Employees must hand sort contamination at remote self service recycling sites.



Plastic bags of leaves received during a one week period in November 2016.

REMEMBER TO #RECYCLERIGHT



At Home, Don't Just
RECYCLE

Recycle Right!
YES!

					
Paper, Junk Mail & Paperboard Boxes	Aluminum Cans	Glass Bottles & Jars	Flattened Cardboard	Plastic Bottles Jugs & Tubs	Juice & Milk Cartons

NO!

					
Food	Plastic Bags & Trash	Shredded Paper	Scrap Metal & Auto parts	Plastic Film	Cords

Many of the unaccepted items above can be taken to retailers, or Mecklenburg County Full Service Recycling Locations where they are recycled through separate systems.

For more information, visit WipeOutWaste.com or call 980.314.3867 for our automated 24-hour line.







YES!	RECYCLE RIGHT!	NO!	
	PAPER Recycled paper can become: Paperboard, paper towels and other paper products. Did you know? One ton of paper recycled can save the energy equivalent of 166 gallons of gasoline.		NO PLASTIC BAGS & PLASTIC FILM Plastic bags are among the leading equipment for littering and are among the most common and persistent. Please use our green bins set of articles. Do NOT put your recyclables in plastic bags.
	ALUMINUM & METAL CANS Recycled aluminum is a metal can become: Aluminum foil, window pans, furnace car parts, & household appliances. Did you know? Recycling 1 ton of aluminum can save 1,224 gallons of gasoline.		NO STYROFOAM & CLEAR CLEAN SHELLS Although Styrofoam is a recyclable, it requires highly specialized equipment that Mecklenburg County's Household Recycling Facility (HRF) is not equipped with.
	PLASTIC BOTTLES, JUGS & TUBS (with caps & lids) Recycled jugs can become: Plastic tables, desk chairs, recycling bins, & 5-liter drinking. Did you know? It takes 1200 milk jugs to make one 4-hour plastic path bench.		NO SHREDDED PAPER Shredded paper makes it difficult for recycling equipment to sort. Shredded paper for recycling, Mecklenburg County has an annual shredding event in partnership with America Recycles Day in our Recycler.
	CARDBOARD Recycled cardboard can become: New boxes, gift wrap, shroud liner. Did you know? Recycling 1 ton of cardboard saves 60 gallons of oil. Boxes: remove staples & bubble wrap.		NO HOUSEHOLD GLASS Light bulbs and fluorescent glass such as window panes, mirrors & glass are dangerous & should not be placed in your recycling bin. Light bulbs & other household glass can be properly managed at our Mecklenburg County Full Service Recycling Center.
	METAL Recycled metal can become: Driveway, egg crates and insulation. Did you know? 1 ton of recycled paper can save 7000 gallons of water.		NO CERAMICS, POTTERY, POTS & PANS These items, including coffee mugs & old flower pots, should be disposed if they are in good shape. If they are in poor condition, dispose of them in your household trash or at our Mecklenburg County Full Service Recycling Center.
	PIZZA & FOOD BOXES Recycled food boxes can become: Paper towels, tissue & cardboard. Did you know? Recycling a food box requires 70% less energy than making a new one.		NO PAINT, PESTICIDES, AUTOMOTIVE FLOORS, OIL & OTHER BATTERIES Should not be put in your recycling bin. Please take these items to our Mecklenburg County Full Service Recycling Center for proper disposal.
	BIKE & MILK CARTONS Recycled bike & milk cartons can become: Tissue, office paper & wall board. Did you know? Over 5 years, the average adult of 400 million average lives will save the equivalent of almost 1,000 tons of paper. 72 tons & 50,000 gallons of water.		NO AUTOMOTIVE PARTS & SCRAP METAL Should not be put in your recycling bin. These items can be properly managed at our Mecklenburg County Full Service Recycling Center. Please recycling materials in the one after each for long term.
	GLASS BOTTLES & JARS Recycled glass bottles can become: Highway marking beads, counter tops, flooring, tile & landscaping stone & brick. Did you know? 1 ton of recycled glass can save 3 gallons of oil.		NO CLOTHING & TEXTILES Clothing, shoes and bags should be placed in your recycling bin. Please donate gently used clothing.
	SMART HOUSEHOLD CARS Recycled smart cars become: New car seats, car parts & other metal components. Did you know? Each year Americans recycle more metal than aluminum, glass, paper and plastic combined in weight.		NO FLAMMABLE, VOLATILE LIQUIDS, AEROSOLS & ELECTRICAL CORDS Flammable, volatile liquids, aerosols, and electrical cords should be disposed of in your household trash. These items may contain hazardous equipment and should be taken to the trash unit.

Best Sources: Websites for EPA and National Waste & Recycling Association Begin with the Bin

AN EXAMPLE:

In 2017, the City of Charlotte generated:
~220,000 tons of trash @ \$32/ton = \$7,040,000

But what if the disposal rate went to...

- \$60/ton
- \$80/ton
- \$120/ton

THE COST WOULD BE:

- \$60/ton \$13.2 M **\$6.2M** increase
- \$80/ton \$17.6M **\$10.6M** increase
- \$120/ton \$26.4M **\$19.4M** increase

REPUBLIC CONTRACT (2020)

- We have done a search, with the aid of HDR Engineering, to see what other “permitted” solid waste facilities are within range of Mecklenburg County.
- We have determined that the only 3 facilities are:
 - Speedway Landfill
 - Foxhole Landfill
 - Rowan County Landfill
- From those 3 options, only one is viable.

TECHNOLOGY

- Landfilling of waste is the most prevalent technology used in the US
- Why?
 - It is relatively inexpensive (compared to other technologies)
 - Modern landfills are considered safe, as they have liners and groundwater protection features
 - They are not dependent upon mechanical systems that break (no conveyor belts, no combustion control systems, etc.)
- Other technology: Waste to Energy
 - Is relatively expensive
 - Produces either power or steam

PROJECTS THIS FISCAL YEAR

- 2 additional scales at Foxhole Landfill
- 2 scales at North Meck; Plus a new traffic pattern at North Meck with new fee booth
- Additional fee booth at Hickory Grove and new traffic pattern
- Covered area at Foxhole to store ground drywall
- Several paving projects

FUTURE CAPACITY

Mecklenburg County, NC
Active SW Facilities as of April 2017
(5-mile Distance)

DSM Environmental completed a utilization assessment of full-service and self-service waste and recycling facilities.

Conclusions:

1. Full-service facilities were not designed for the traffic they now handle
2. Some self-service facilities are experiencing illegal dumping

Solid Waste Facilities operate under permits issued by the NC DEQ.

Each facility has permit conditions, such as where we can receive waste from; how high the landfill can go; what we can accept; and what items are banned.

PATH FORWARD

- ✓ **Educate partners** about solid waste and recycling services.
- ✓ **Inform partners** about the impacts and trends.

Now...

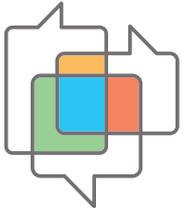
- **Ask partners** for their thoughts and priorities for the future.
- Promise = ensure public concerns and aspirations are reflected in future decisions.





YOUR VOICE. YOUR VISION.

TABLE DISCUSSIONS



LIVABLE
MECK

FEEDBACK

+	△

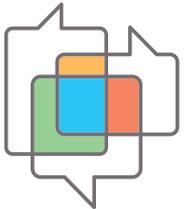
FEEDBACK

Individual Survey



YOUR VOICE. YOUR VISION.

A CALL TO ACTION



LIVABLE
MECK

ENGAGEMENT CAFÉ

APPLYING INFORMATION & FOSTERING ACTION

- As a Partner organization, what will you do this week?
- As a Partner organization, what will you do this year?
- To accomplish your commitments, would you like to collaborate with other Livable Meck Partners? If so, who?
- Are there supports (i.e. engage, facilitate, measure, or communicate) Livable Meck could offer you as you take action?

CLOSING REMARKS

- ✓ Thank you attending today's Engagement Café!
- ✓ Next Steps
- ✓ Stay Informed
 - On Facebook & Twitter [Wipe-out Waste](#) and [Livable Meck](#)
 - [LivableMeck.com](#) and register for our bulletins.