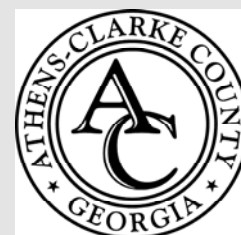


# New Recovered Material Processing Facility (Project #49)

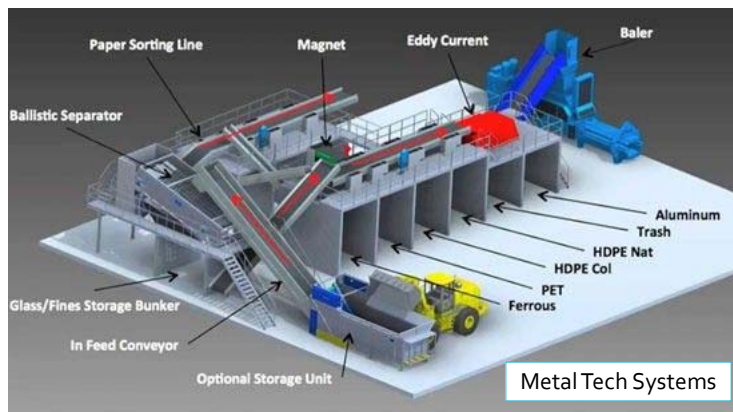
Suki Janssen

ACC Solid Waste Department



## What? SPLOST Proposal

New Recovered Material Processing Facility (RMPF) or Recycling Facility – The ACC Solid Waste Department is proposing a new RMPF on the ACC Landfill property at 5700 Lexington Road. A RMPF, by state of Georgia definition, processes source separated or commingled recyclables only to sort and prepare them for market. This type of facility in Georgia requires no permit.



## Why? Current Facility

The ACC RMPF public-private processing facility that is nearly twenty-five years old and processes approximately 80 tons of material a day. Last fiscal year (FY18), the ACC RMPF processed approximately 20,000 tons of material, over 1,600 tons per month. The facility processes glass bottles and jars, aluminum (including cans, foil, pie pans, trays), plastic bottles and tubs (#1 - #7), steel and aerosol cans (bimetal or tin), paper (newspaper, magazines, office, paperboard, shredded) and cardboard .

### Current Challenges:

- Age of Facility
- Facility set up to sort more paper
- Lacks enough covered storage for tipped material and finished bales
- Land locked – no room for growth



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## Why? M&C Goals

**ACC Solid Waste Department Vision Statement** - To be a leader in sustainable material management by creating a culture of zero waste.

**ACC Solid Waste Department Mission Statement** - To efficiently deliver integrated material management through comprehensive and innovative collection, disposal, waste reduction and education services.

**Goals** - Waste Diversion Goals set by the Mayor and Commission on November 3, 2010: 40% by 2015, 60% by 2018, 75% by 2020.

**Currently, we are still hovering around 40%.**

*Note: Proposed ACC Sustainability Plan goals list 90% diversion by 2050.*

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## Why? Processing Improvements

- Processing and sorting technology continues to evolve to produce high quality commodities, reduce labor costs, improve safety and increase throughput.
- A RMPF can seem “magical” to children as forces such as eddy currents repel aluminum, magnets pull ferrous metals, compressed air blast materials over divider walls and light waves differentiate between material types. In reality, basic physics is responsible for sorting and sorting improvements.
- Currently, the ACC RMPF sorts plastic #1 (PET), plastic #2 (HDPE) pigmented from natural and then the remainder of plastics are together in a mixed plastic combination (#3-#7). Mixed plastics are hard to market and have low value when able to market. Separate.
- Cartons are combined with mixed paper. Separate.
- Explore glass technology or glass separation; potential for grants and pilot.
- Additional space for pre-sorting.
- Market conditions are very volatile which encourage further separation of mixed streams to capitalize on profitable markets.

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## Processing Improvements Illustrated



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## Why? Marketing Improvements



Larger covered tip floor for unprocessed material



Larger covered area for baled material

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## Why? Location Improvements

- ACC Landfill houses the Materials Recovery Facility (MRF) – this GEFA funded facility processes municipal solid waste to extract recyclables and requires a permit to operate. Facility utilizes inmate labor along with a Landfill Crew Leader. The ACC Landfill MRF is pictured.
- Co-locating a new RMPF with a MRF creates creative opportunities to divert more waste and realizes cost savings in transportation.
- All ACC Solid Waste activities would be located at two sites.



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## Why? Education Improvements

- The ACC RMPF is the cornerstone of the education program with over 2,000 people touring the facility annually.
- Currently, tour groups walk on catwalk and facility floor, although really interesting, not to current industry safety standards.
- ACC Solid Waste Department needs a new tour space to accommodate larger groups and younger individuals. Currently, must be third grade (and above) and maximum 30 individuals due to space and safety concerns.



<https://www.youtube.com/watch?v=PFzjRhJ5kKY>

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## Additional Considerations

- Project #48 ACC Recycling Division's Creative Reuse Space and Facility Relocation is tied to Project #49 New RMPF. The Creative Reuse Space will take the location of the current RMPF and repurpose the site once the new RMPF is built. The CHaRM, Teacher Reuse Store and Toolshed will also be moved from the current location at 1005 College Avenue to join the Creative Reuse Space.
- If the SPLOST committee is unable to recommend a fully funded Project #49, partial funding for grading, building and utilities should be considered. Partial funding would provide leverage to the ACC Solid Waste Department when approaching private companies interested in a public-private partnership.
- The ACC Landfill has approximately 50 years of capacity at current generation, population and recycling rates. Currently, 300 tons of waste is landfilled each day in ACC.
- In a lifetime the average American will throw away 600 times the amount of his or her adult weight in garbage. For example, a 150 pound adult will leave a trash legacy of 90,000 pounds. Most of which currently enters a landfill.

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Summary:  
Why?  
Select Project #49



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## Questions?

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