## The Current State of Recycling

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#### State Recycling Program

#### Division of Environmental Assistance & Customer Service Recycling and Materials Management Section

- Non-regulatory
- Recycling Business Assistance
- Local government Assistance
- Technical assistance
- Grants
- Studies, Data, Reports
- Conferences, Workshops & Events

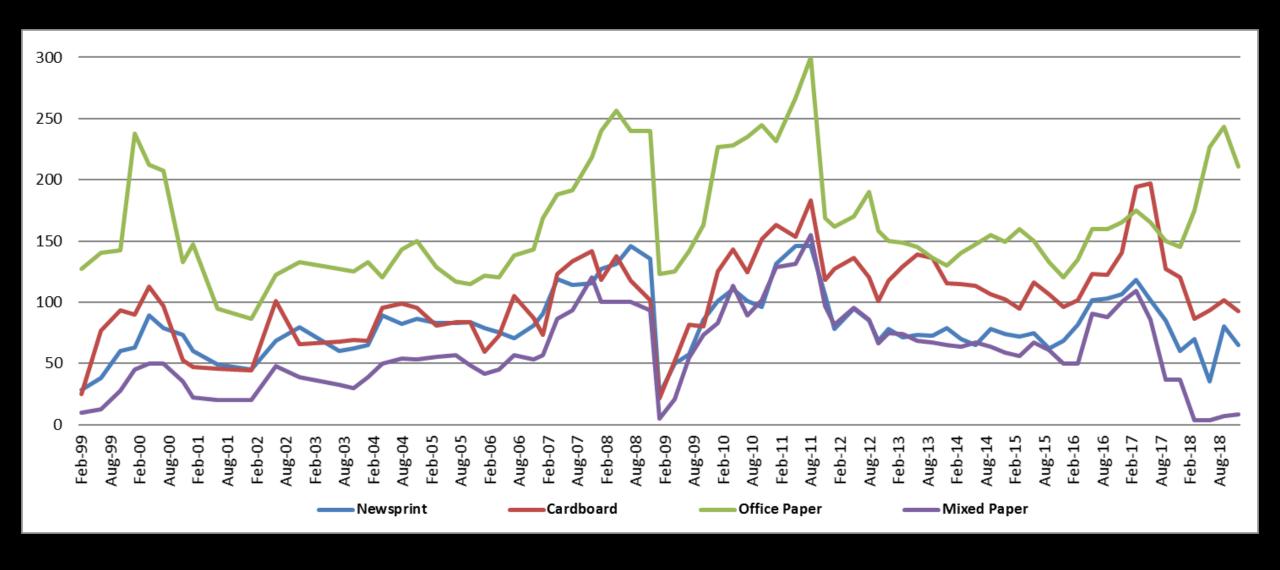


#### Recycling Market Disruptions

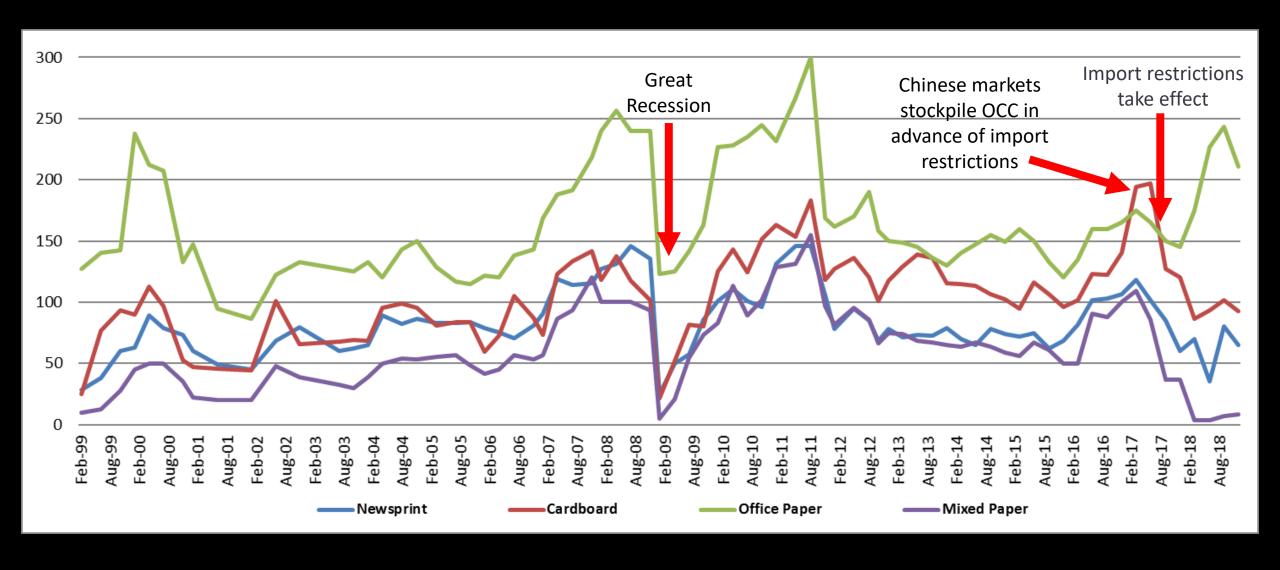
- 2017 China announces National Sword
- Unprocessed plastics are BANNED Effective January 2018
- Mixed paper is BANNED
   Effective January 2018
- Other recovered paper and plastic must not exceed 0.5% contamination
  - Effective March 2018
- Other southeast Asian countries following suit



#### NC Fiber Pricing



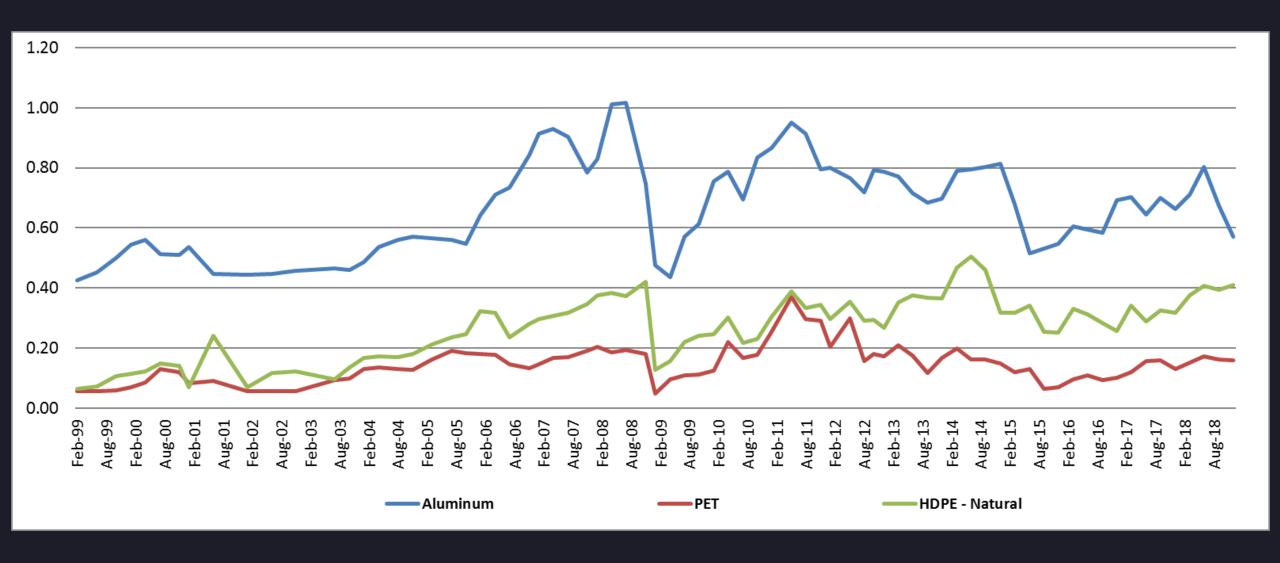
#### **NC Fiber Pricing**



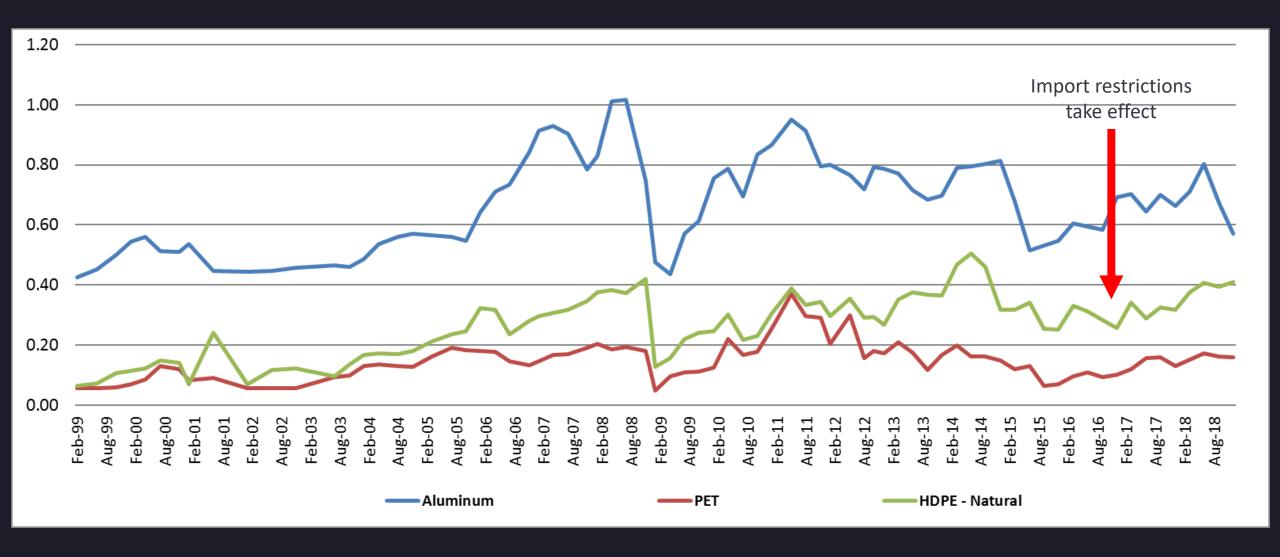


- Some vendors are currently experiencing record low cardboard prices or disruptions in the ability to sell cardboard
- Temporary issue
- Due to paper mill retooling
- Cardboard market should improve mid-summer

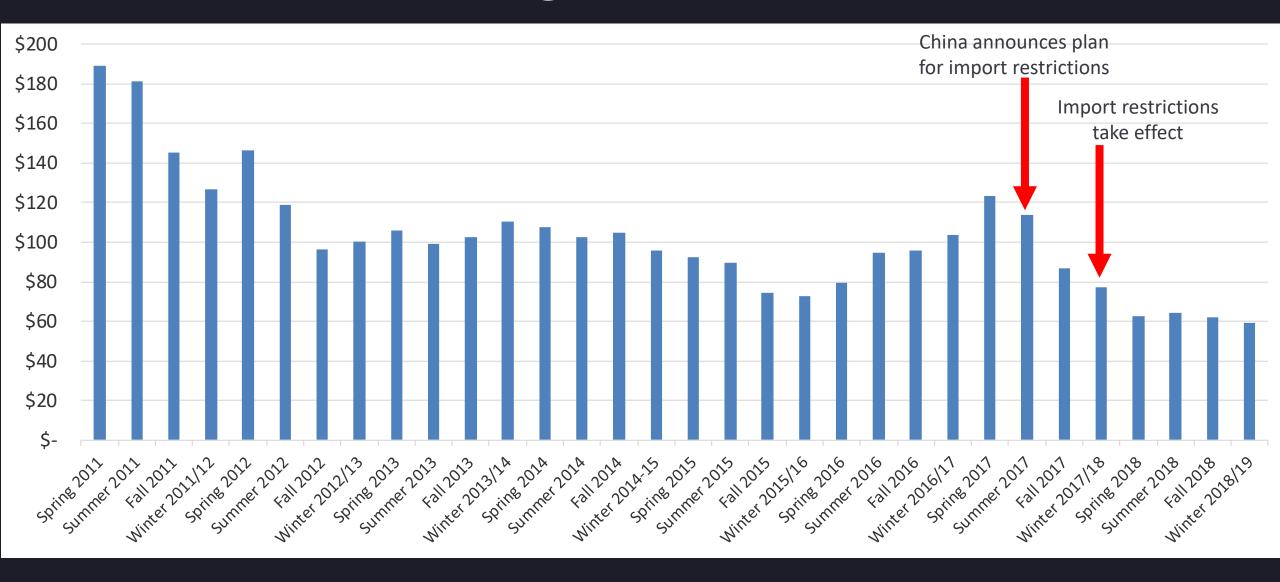
#### NC Market Prices – Containers



#### NC Market Prices – Containers



#### Value of a Commingled Ton





### Recycling Challenges for Manufacturers

- "Hard-to-recycle" materials
  - Specialty or blended/layered material
  - Most likely not high value material
  - Markets fluctuate -- not worth what it may have been in the past
  - It's a "buyers market" due to global market changes
- Cost avoidance
  - Best case scenario is a cost neutral solution
    - You will likely have to pay to have material recycled

#### Don't forget: Reduce/Reuse

- Could you change the material you are using?
  - Source reduction
- Can you change the packaging to be reusable or reduce the amount of packaging?
- Is your packaging recyclable?
- Will your supplier backhaul the scrap material for recycling?
- Is your waste a resource for someone else?





#### Find Your Recycling Vendor – Need Help?

- NC DEACS
  - Recycling Section
  - ESI coaches, listserve, peers
  - Waste Reduction Partners
- NC Recycling Markets Directory
- NC Waste Trader







#### How Much? How Is It Prepared?

- May need more than one recycling vendor
  - Logistics or brokerage services available
- Truckload quantities preferable
  - Storage
- Aim for mixed loads
- Will your vendor provide equipment?
  - Balers, trailers, Gaylord boxes, densifiers
- Will your company need to purchase additional equipment?
  - Can increase value
  - Tax credits available

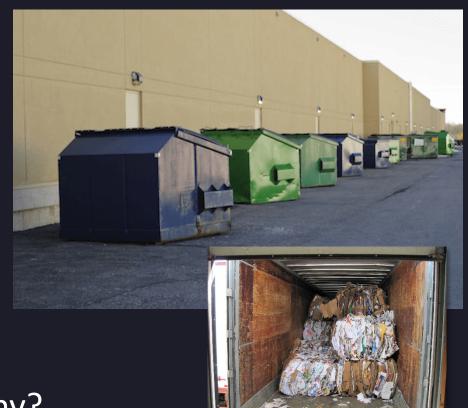


### What Your Recycler Needs You To Know

- May need more item separation than before
  - Example: Plastics that used to be sold in a *mixed* bale now need to be separated in order to be marketable
- Less room for sorting errors
- Zero tolerance for contamination
  - Need more education and enforcement
- Recycling is not free and should not be counted on as revenue
  - Recycling is a utility like water, power, internet

## Check for Cost Savings *Trash* and *Recycling*

- When does your trash contract expire?
- Are the charges correct?
  - Correct number of tips
  - Correct number and size of dumpsters
- Are they "dumping air"?
- Are you paying more than one trash company?
- When is the last time you compared pricing?
- Do you have a contract for recycling services (hauling & processing)?
- Look for cost efficiencies in recycling storage, handling, containers, hauling methods



#### **Bad News**

Experiencing Down Market

- Cost to Process Recycling is Up
- Little room for contamination

#### Good News

- We can work on contamination
- Southeast has strong and growing domestic markets
- Recyclers are investing in facilities and equipment
- We have experienced low market values before



#### 2018 Announcement

Recruiting New Recycling Business to the State

POLYWOOD manufacturer of outdoor furniture from recycled plastics

Person County, NC

384 Jobs | \$35 M Investment

Will consume 34-40 million pounds HDPE each year

RBAC worked with EDPNC & Person County Economic Development to support the company's NC expansion



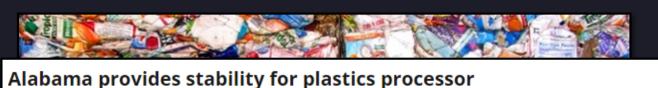




ECONOMIC DEVELOPMENT PARTNERSHIP OF NORTH CARDLINA | EDPNC.COM

#### Other Market Announcements

Posted on September 11, 2018



Import disruptions convinced a longtime Chinese plastics processor to launch a new facility in Alabama. Roy Tech Environ first announced its new facility in February.

Chinese company to open recycling plant in South Carolina

Ecomelida will focus on processing cartons and plastic scrap separated from paper pulp.

UPDATED: Chinese Company Plans To Reopen Wickliffe Paper Mill By The End Of 2018

DV WIGHS STAFF + AUG 16, 2018



Nine Dragons Paper to Buy Two U.S. Paper Mills



Cascades Acquires Virginia Plant to Produce Recycled Linerboard



# Targeted Grant Funding For Your Recycling Vendors

Recycling Business Grants

2018 – prioritized projects addressing materials affected by China's policies (mixed paper, non-bottle plastics)

21 grants awarded
11 involve materials affected by China
3 involve MRFs upgrades



## Targeted Grant Funding For Your Recycling Vendors

#### **Recycling Business Grants**

2019 – prioritized projects addressing materials affected by China's policies (mixed paper, non-bottle plastics)

17 grants awarded
8 involve materials affected by China
2 involve MRFs upgrades

#### Thank You

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www.recyclenc.org

