RECYCLING UPDATE

Environmental Quality and Public Works Committee July 7, 2020





Recycling Update

Topics covered

- Recent maintenance challenges
- Market changes
- Current status of operations
- Progress



Maintenance Challenges (Dec 2019 - Feb 2020)

Hazardous Materials including medical waste

- Multiple incidents led to facility closures to protect employees.
 - 1 employee sent to the hospital
- Material diverted to the landfill numerous times to ensure employee safety.

Response

- News release and social media outreach campaign
- Direct tracing conducted back to the source businesses for education outreach.



Scheduled Maintenance (January 2020)

Planned 2-week closure

- Main conveyor belt replaced.
- Portion of the fire sprinkler located over the conveyor system replaced.
- Permanent water lines installed to support summer cooling efforts.



Maintenance Challenges (April 2020)

Main shaft that drives the material sorting conveyor system broke.

- Local contractor determined that multiple replacement parts were needed.
- Worked with Machinex to get the part as soon as possible and complete installation.
- MRF was closed for 3 weeks.



Scheduled Maintenance (June 2020)

New eddy current machine installed to improve sorting aluminum cans.

- Existing machine failed in 2018 and 2019.
- Out of date and no longer supported by the manufacturer without specialized labor and machining.
- Rebuilt in 2018.
- In 2019, ordered the replacement and established a price contract for parts until the new eddy current arrived. The manufacturer is in Germany, which extended the time for the machine to be assembled and shipped.
- Arrived in January but other needs postponed this work.
- Successfully replaced and new separator running.



Market changes

COVID-19 has generated an increased demand for recycled paper

- Increased demand for toilet paper and cleaning supplies
- Receiving approximately 50-75% of the quantity of paper that we were receiving prior to May 2019.
 - We have been able to find a home for this paper and it is easier the last 2 months.
 - Still no financial value.



Market Changes

Yellow Bin Paper

- Receivables much less contaminated.
- Receiving \$50/ton.
- Working with paper mills to determine the value and tonnage if we mix the yellow bin paper with the Rosie collected paper.

Cartons

- Will likely start collecting these in 2021, after the new equipment is installed.
- Market has been historically positive and steady.
- Entering into a partnership with the Carton Council to purchase and dedicate an optical sorter to increase the capture rate and value of marketable materials.



Recent Market Changes

- Plastic bottles & jugs lost value due to a glut of virgin material
- Cardboard Amazon effect and COVID-19 increased demand in packaged materials offset by packaging using flexible materials resulting in steady market and continued recovery from the collapse that began in 2017.
- Glass still no value due to our quality and market availability. No change in the \$15/ ton shipping fee.
- Aluminum and steel steady but lower value due to glut of virgin material from China and Russia and no growth in demand.



Current Status of Operations

Where we are today

- Open for business
- Paper drop-off
 locations
 monitored &
 collected regularly
- Eddy current, conveyor and sprinkler in place





Continuing our Progress

- Issuing a bid very soon for a new optical sorter. Overall process will take a few months.
 - Will improve the quality of the paper we collect both through the curbside and the yellow bins.
- Working on a larger bid package for additional improvements for more reliable processing. Estimated at \$3.4 million in the recently passed budget.
 - how we process glass,
 - add a second optical sorter,
 - add a second baler and
 - replace the maintenance intensive disc screens with a more reliable method.



Continuing our Progress

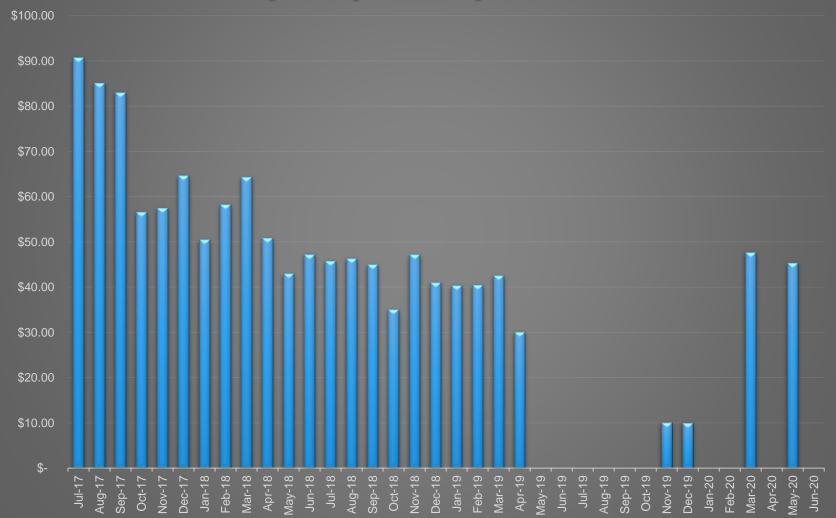
- Recycling requires the entire community
 - LFUCG will continue to adapt to challenges
 - Encourage public to use yellow bins
- Continue educational efforts that reduce trash in the collection
- Yellow Bin paper is much higher quality than curbside collected paper.

Questions?

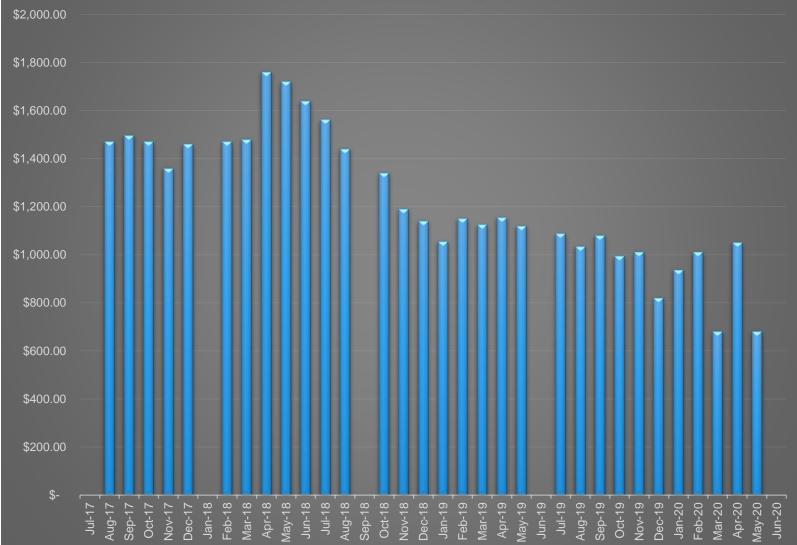


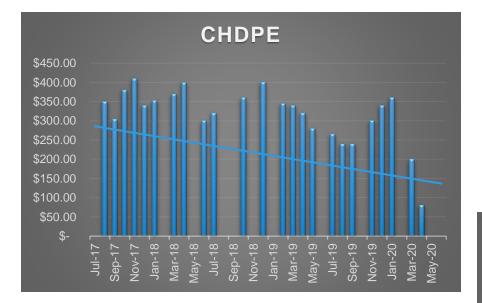


Paper price per ton



Aluminum price per ton





Different Plastics price per ton

