

OKALOOSA COUNTY RECYCLING ADVISORY COMMITTEE
Tuesday, July 27, 2021

1. Call to order

The meeting was called to order by the Chairman at 1:00 P.M.

2. Committee Members and Staff

Members Present:

Amanda Grandy, Chairman
Sharon McAuliffe, Vice-Chairman
Nicholas Hall
Kimberly Hopkins
Renee Wood

Staff Present:

Jason Autrey, Director of Public Works
Scott Henson
Jim Reece
Janet Thompson (via ZOOM)

Public Present:

Morgan Stokes, Lewis School
Steve Hopkins (via ZOOM)

3. Approval of Agenda

Motion:	Approve the agenda as presented.
Made by:	Kim Hopkins
Seconded by:	Renee Wood
Disposition:	Approved unanimously

4. Approval of Minutes from 6/3/2021

Motion:	Move approval of the 6/3/21 minutes to the next meeting.
Made by:	Sharon McAuliffe
Seconded by:	Renee Wood
Disposition:	Approved unanimously

5. Old Business:

a. Recommendations to BCC

The Board of County Commissioners gave consensus approval to the recommendations from the Committee.

6. New Business:

a. ECUA Contract with Jason Autrey

The Public Works Director presented the proposed contract from ECUA and discussed other options available to the County as to the collection and disposal of recycled materials. A copy of the contract and presentation materials from the Public Works Director are attached to and made a part of these minutes.

b. Kim Hopkins PP Presentation

Kim Hopkins made a presentation, a copy of which is attached to and made a part of these minutes.

The Committee took the following actions.

Motion:	That Okaloosa County continues to recycle.
Made by:	Sharon McAuliffe
Seconded by:	Nick Hall
Disposition:	Approved unanimously

Motion:	Recommend to the Director of Public Works that the ECUA contract be presented to the Board of County Commissioners for approval as written.
Made by:	Sharon McAuliffe
Seconded by:	Renee Wood
Disposition:	Approved unanimously

7. Public Comment (3 minutes each)

8. Next meeting will be August 10, 2021

9. Adjourn

The meeting was adjourned at 3:10 P.M.

NOW THEREFORE in consideration of the mutual promises and covenants contained in this Agreement, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

AGREEMENT

1. Recitals. The recitals contained in the preamble to this Agreement are declared to be true and correct and are hereby incorporated into this Agreement.

2. Definitions. As used in this Agreement the following terms shall have the following meanings:

2.1 *Applicable Law* -- shall mean all applicable federal, state and local statutes, codes, ordinances and standards and all applicable rules, regulations, licenses, permits, registrations, approvals, decisions, authorizations, judgments, orders, writs, decrees, directives or other action adopted, issued or taken by a governmental authority.

2.2 *Construction and Demolition Waste or C&D Waste* -- shall mean waste building materials, packaging and rubble resulting from construction, remodeling, repair, or demolition operations on houses, commercial buildings, and other structures, or as otherwise defined from time to time. Such wastes include, but are not limited to, concrete and paving debris, masonry materials, sheet rock, roofing waste, insulation (not including asbestos or asbestos containing materials), scrap metal, wood products, and other similar materials (not including asbestos or asbestos containing materials).

2.3 *ECUA MRF* -- shall refer to the Municipal Recycling Facility designed and constructed by ECUA which is located at the Perdido Landfill at 13009 Beulah Road, Cantonment, Florida 32533.

2.4 *Effective Date* -- shall mean XXXXXX, 2021, and the first day on or after that date on which the County collects Source Separated Recyclables and the ECUA MRF is operating shall be the date the ECUA MRF begins accepting Source Separated Recyclables delivered to it from the County.

2.5 *Garbage* -- shall mean any putrescible animal and/or vegetative waste resulting from the handling, preparation, cooking and consumption of food, including, but not limited to, waste from markets, storage facilities, handling and sale of produce and other food products and further includes the packaging materials and

containers, but excepting such materials that may be serviced by garbage grinders and handled as household sewage.

2.6 *Hazardous Waste* -- shall mean (a) any waste which by reason of its quality, concentration, composition or physical, chemical or infectious characteristics which is defined or regulated as a hazardous waste, toxic substance, hazardous chemical substance or mixture, or asbestos under Applicable Law, as may be amended from time to time, including: (i) the Resource Conservation and Recovery Act of 1976 ("RCRA") and the regulations contained in 40 CFR Parts 260-281, (ii) the Toxic Substances Control Act (15 U.S.C. Sections 2601 *et seq.*) and the regulations contained in 40 CFR Parts 761-766, and (iii) future additional or substitute federal, state or local laws pertaining to the identification, treatment, storage, or disposal of toxic substances, or hazardous wastes; (b) radioactive materials, which are source, special nuclear, or by-product materials, as defined by the Atomic Energy Act of 1954 (42 U.S.C. Section 2011 *et seq.*) and the regulations contained in 10 CFR Part 40; (c) a chemical listed by the United States Environmental Protection Agency in accordance with Section 302(a) or Section 313(c) of the Emergency Planning and Community Right-to-Know Act of 1986, 42 U.S.C.A. § § 11002(a), 110239(c) (Supp. 1993), in each case as the same may be amended, replaced, or superseded; (d) a material or substance which may endanger health or safety, including any material or substance or combination of materials or substances which are explosive, volatile, radioactive, toxic, corrosive, flammable, reactive, an irritant or a strong sensitizer, or which generate pressure through decomposition, heat or other means if such materials or substances may cause injury, illness or harm to humans, domestic animals, livestock or wildlife; (e) a material falling within the definition of Fla. Stat. § 403.703(13); or (f) a material or substance that is treated as a hazardous or toxic waste, substance, or material by any Applicable Law or is otherwise prohibited from being deposited in a municipal solid waste processing facility under Applicable Law. Household Hazardous Waste contained in SSR shall not be considered Hazardous Waste for purposes of this Agreement and shall be accepted at the Facility if such acceptance is in compliance with the requirements of RCRA and the requirements of the MRF. With regard to materials or substances which are not Hazardous Waste as of the Effective Date, if any Applicable

Law is subsequently enacted or amended or any governmental authority thereafter determines that such material or substance is a hazardous or toxic waste, substance or material, then such material or substance shall be considered Hazardous Waste for the purposes of this Agreement from and after the effective date of such enactment or amendment of Applicable Law or governmental authority determination.

2.7 *Municipal Solid Waste or MSW* -- shall mean Garbage, household waste, and commercial solid waste; provided that for the purposes of this Agreement, Municipal Solid Waste shall not include Source Separated Recyclables, C&D Waste, Hazardous Waste, Special Handling Waste, Unacceptable Waste, or scrap tires.

2.8 *Perdido Landfill* -- shall mean the landfill currently operated by Escambia County, Florida which is located at 13009 Beulah Road, Cantonment, Florida 32533.

2.9 *Prohibited Materials* -- shall mean Municipal Solid Waste, C&D Waste, Hazardous Waste, Special Handling Waste, Unacceptable Waste, Yard Waste, scrap tires and any other solid waste or material of any kind that the ECUA MRF is prohibited from accepting pursuant to agreement, Applicable Law, or operational constraints.

2.10 *Recyclables or Recyclable Materials* -- shall mean various recyclable products and packaging designated by ECUA to be accepted at the MRF for processing, including various types of paper (including but not limited to newspaper, junk mail, magazines, office paper, cardboard and paperboard packaging), containers (including but not limited to glass bottles and jars, aluminum and steel cans, and #1 - #7 plastics), and mixed ferrous and non-ferrous metals. The terms Recyclables and Recyclable Materials shall not include Municipal Solid Waste, Construction and Demolition Waste, Hazardous Waste, Special Handling Waste, Unacceptable Waste, styrofoam, or scrap tires. The list of Recyclables may be expanded or contracted from time to time as determined by ECUA and the operator of the ECUA MRF, if any.

2.11 *Rejects* -- shall refer to materials collected along with the Recyclable Materials that are not designated by ECUA to be accepted at the MRF for processing.

2.12 *Residue* -- shall refer to Rejects and Recyclable Materials that are accepted by the operator of the ECUA MRF, processed at the MRF, and not converted to Recovered Materials due to breakage and/or transportation or processing limitations or inefficiencies.

2.13 *Shutdown* -- shall refer to those times in which the operator of the ECUA MRF is unable to receive Source Separated Recyclables for any reason except Force Majeure.

2.14 *Source Separated Recyclables or SSR* -- shall refer to Recyclables which (a) have been diverted or removed from the Municipal Solid Waste prior to collection, (b) are not C&D Waste, Hazardous Waste, Special Handling Waste, Yard Waste, Unacceptable Waste or scrap tires, (c) are not Municipal Solid Waste, and (d) the ECUA MRF is not prohibited from accepting and/or Processing under Applicable Law. The Parties acknowledge, however, that incidental amounts of Rejects may be collected and delivered with Source Separated Recyclables as a normal part of a recycling collection program.

2.15 *Special Handling Waste* -- shall mean any waste or other material that requires the delivery and disposal to be supervised by a government authority, including confiscated drugs and records of a police department or similar governmental authority.

2.16 This paragraph is intentionally left blank.

2.17 *Unacceptable Waste* -- shall mean (a) Hazardous Waste, explosives and ordinance materials, pathological wastes, radioactive materials, lead acid batteries, sewage sludge, highly flammable substances, cesspool or other human wastes, human and animal remains, motor vehicles, farm or other large machinery, construction materials and demolition debris and hazardous refuse addressed by regulations adopted by the United States Environmental Protection Agency ("EPA") pursuant to the Resource Conservation and Recovery Act of 1976, as amended, or other federal or state statutes, such as, but not limited to, cleaning fluids, hazardous paints, acids, caustics, poisons, radioactive materials, fine powdery earth used to filter cleaning fluid; (b) unless consented to by ECUA, any item of waste exceeding six feet in any one of its dimensions

or being in whole or in part a solid mass, the solid mass portion of which has dimensions such that a sphere with a diameter of eight inches could be contained within such solid mass portion; (c) all large household appliances, commonly referred to as “white goods” including refrigerators, stoves, washing machines, drying machines and water heaters; (d) any controlled substances regulated under the Controlled Substances Act, 21 USA 801 *et seq.*, or any equivalent state law; (e) small appliances containing chlorofluorocarbons (CFCs) including air conditioners, water coolers, and dehumidifiers; (f) cathode ray tubes; and (g) all other items of waste which pose a substantial threat to health or safety or the acceptance and disposal of which will cause substantial damage to, or adversely affect the continuous operation of the MRF or be in violation of any Applicable Law. Any substance or material which is determined by the EPA or any other Governmental authority subsequent to the Effective Date hereof to be hazardous, toxic, dangerous, harmful, or otherwise designated as a “waste ban,” shall, at the time of such determination, be considered Unacceptable Waste.

2.18 *Yard Waste* -- shall refer to vegetative matter resulting from landscaping maintenance and land clearing operations and includes associated rocks and soils.

3. Term. The initial term of this Agreement shall begin on the Effective Date, as defined in paragraph 2.4, above, and end on September 30, 2023. Provided, however, that the Parties may extend the term of this Agreement upon mutual written agreement.

4. Delivery and Acceptance of Source Separated Recyclables.

a. *Delivery of Source Separated Recyclables to ECUA.* Beginning on the Effective Date and throughout the term of this Agreement, the County will deliver, to the ECUA MRF, all SSR collected within the County.¹

b. *Right to Reject Loads Containing Excess Rejects.* In the event that SSR delivered to the ECUA MRF contains Rejects in excess of twenty-five percent (25%)

¹The ECUA MRF shall only be obligated to receive SSR at those times and on those days in which the ECUA MRF is operating, receiving SSR, and not Shutdown.

by weight, the entire load may be rejected by the operator of the ECUA MRF. In the event that such a rejection occurs, the County shall be liable for a processing fee of \$250 per load plus the disposal costs attributable to that entire rejected load at the Perdido Landfill, at the rates established by Escambia County which are then in effect.² Moreover, in the event that the County's SSR has excess Reject contamination on three separate loads within a thirty (30) day calendar period, the ECUA Executive Director or his designee, in his sole discretion, may terminate this Agreement and disqualify the County from further deliveries.

c. *Charges to County.* The County shall be charged monthly for each ton of SSR processed at the ECUA MRF, in accordance with paragraph 6 of this Agreement, below.

5. Disposal of Residue. The Parties acknowledge and understand that each load of SSR may contain Garbage, Unacceptable Waste, or other Rejects which cannot be recycled and put to beneficial use (collectively hereafter referred to as Residue). Because the SSR received from the County will likely be commingled with SSR generated from other jurisdictions, the Parties acknowledge and understand that it is impossible to therefore segregate the Residue by each entity. Accordingly, all such Residue shall be disposed of at the Perdido Landfill at no charge to the County.

6. Charges for Delivered Recyclables. The Parties agree that the County shall be charged for the SSR processed at the ECUA MRF, at a flat rate of \$25 per ton based upon weights measured at the scale house operated by Escambia County at the Perdido Landfill.

7. Billing. ECUA shall send a bill to the County within fifteen (15) days of the end of each month of the calendar year which reflects all charges to the County pursuant to paragraph 6, above. All charges shall be paid by the County within forty-

²In the event some or all of the load cannot be lawfully disposed of at the Perdido Landfill, County shall be liable for all disposal costs associated with the disposal selected by the operator of the ECUA MRF.

five (45) days of the end of each month of the calendar year.

8. Compliance with Law and Procedures. ECUA and the County shall perform their respective obligations under this Agreement in compliance with all Applicable Law. The County shall transport and handle SSR in its control in a safe and workmanlike manner and in full compliance with Applicable Law. ECUA shall further endeavor to maintain throughout the term of this Agreement, all permits, licenses, certificates, and approvals required by Applicable Law for the operation of the ECUA MRF.

9. Staffing at the ECUA MRF. The Parties understand that the ECUA MRF may be operated by either a third party selected by ECUA or by ECUA staff, in ECUA's sole discretion.

10. Title to Source Separated Recyclables. Upon acceptance of a load of SSR (as opposed to a rejection in accordance with paragraph 4.b, above), title to the SSR shall vest with the operator of the ECUA MRF.

11. County's Obligation to Require the Source Separation of Recyclables; Delivery of said SSR; and Tonnage Limit.

a. *Collection and Delivery Requirements.* The County presently provides for the collection of residential solid waste within its jurisdiction and offers curbside collection of Source Separated Recyclables. The County agrees to keep the curbside collection of Source Separated Recyclables in place throughout the term of this Agreement and any extensions thereof. Additionally, the County will haul all SSR that is collected to the ECUA MRF. It is thus the Parties' intent that all SSR controlled and collected by the County will be delivered to the ECUA MRF. However, if prior to delivery to the ECUA MRF the County reasonably identifies one or more loads of SSR to contain excess contamination, as defined in paragraph 4.b, above, the County shall not be in breach of this Agreement by not delivering such contaminated load/s to the ECUA MRF. Should the County exercise this option, it shall endeavor to educate the public and take such actions it deems necessary or appropriate to improve the quality of its SSR.

b. *Tonnage Limit.* The Parties anticipate approximately 2,500 tons of SSR are generated and collected within the jurisdiction of the County per year.

Despite the requirements in paragraphs 4.a and 11.a above that all SSR be delivered to ECUA, the County is limited to delivering 9,000 tons of SSR per year, absent subsequent written agreement between the Parties pursuant to the notice provisions set forth in paragraph 13, below.

12. Events of Default. A Party shall be in default of this Agreement only upon the expiration of thirty (30) days (ten (10) days in the event of failure to pay money) from receipt of written notice of default from the other Party specifying the particulars in which such Party has failed to perform its obligations under this Agreement unless such Party, prior to the expiration of said thirty (30) days (ten (10) days in the event of failure to pay money), has rectified the particulars specified in said notice of default; provided, however, that such Party shall not be deemed to be in default if such failure (except a failure to pay money) cannot be rectified within said thirty (30) day period and such Party is using good faith and commercially reasonable and diligent efforts to rectify the particulars specified in the notice of default.

13. Notices. All notices called for under this Agreement, other than those called for under paragraph 4.b, above, shall be made in writing and delivered by hand, certified mail with return receipt, or overnight courier, as follows:

To County:



E-mail:
Telephone:

To ECUA:

Randy Rudd
Deputy Executive Director of Shared Services
Emerald Coast Utilities Authority
9255 Sturdevant Street
Pensacola, Florida 32514

14. Force Majeure. In the event that performance by the Parties of any of its obligations under this Agreement shall be interrupted, delayed, or prevented by any

occurrence not occasioned by the conduct of such Party, whether such occurrence be an act of God or any other occurrence whatsoever beyond the reasonable control of such Party, including a change in environmental law or regulation rendering performance impractical or impossible, then such Party shall be excused from such performance for such period of time as is reasonably necessary after the occurrence to remedy the effects thereof, or until such performance is no longer impractical or impossible.

15. ECUA's Right to Refuse to Accept SSR and Parties Right to Cancel for Convenience. Notwithstanding the provisions of paragraph 4, above, in the event that the operator of the ECUA MRF declares a Shutdown, ECUA and the ECUA MRF shall be under no obligation to accept any SSR from the County through the duration of that Shutdown. Additionally, in the event of a Shutdown, the County may dispose of its SSR as it deems fit for the duration of that Shutdown, and the County is not obligated to reimburse ECUA and/or the operator of the ECUA MRF, if any, for lost revenue associated therewith. Moreover, in the absence of a Shutdown, ECUA, acting through its Executive Director, may cancel this Agreement for convenience on one week's written notice notwithstanding the provisions of paragraph 3 above.

16. Records. The Parties acknowledge that this Agreement and any related financial records, audits, reports, plans, correspondence, and other documents may be subject to disclosure to members of the public pursuant to Chapter 119, Florida Statutes, as amended. In the event a Party fails to abide by the provisions of Chapter 119, Florida Statutes, the other Party shall give written notice of the alleged violation of Chapter 119 and seven (7) calendar days to cure the alleged violation. If the alleged violation has not been cured at the end of that time period, then the party giving such notice may terminate this Agreement for cause. ECUA further agrees to:

a. Keep and maintain public records required by the County to perform services under this Agreement.

b. Upon request from the County's custodian of public records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

c. Ensure that public records that are exempt or confidential from public records disclosure requirements are not disclosed except as authorized by law during the term of this Agreement and following completion of the Agreement if ECUA does not transfer the records to the County.

d. Upon completion of the Agreement, transfer, at no cost, to the County all public records in possession of ECUA or keep and maintain public records required by the County to perform the services under this Agreement. If ECUA transfers all public records to the County upon completion of the Agreement, ECUA shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If ECUA keeps and maintains public records upon completion of the Agreement, ECUA shall meet all applicable requirements for retaining the public records. All records stored electronically must be provided to the County, upon request from the County's custodian of public records, in a format that is compatible with the information technology systems of the County.

IF ECUA HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, AS TO ECUA'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

17. Assignment. This Agreement or any interest herein, shall not be assigned, transferred, or otherwise encumbered, under any circumstances, by any Party, without the prior written consent of all other Parties.

18. Headings. Headings and subtitles used throughout this Agreement are for the purpose of convenience only, and no heading or subtitle shall modify or be used to interpret the text of any section.

19. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida, and the Parties stipulate that venue for any matter which is the subject of this Agreement shall lie in Escambia County, Florida.

20. Dispute Resolution. The Parties agree that in the event of any dispute or claim relating to, arising out of, or interpreting this Agreement arises, all such disputes or claims shall be fully, finally, and exclusively decided by a State court of competent

jurisdiction sitting in Escambia County, Florida. Additionally, the Parties knowingly and willingly hereby waive their respective rights to have any such disputes or claims decided by a jury; instead, their sole relief shall be via a bench trial in which the judge alone sits as the finder of fact.

21. Interpretation. For the purpose of this Agreement, the singular includes the plural and the plural shall include the singular. References to statutes or regulations include all statutory or regulatory provisions consolidating, amending, or replacing the statute or regulation referred to. Words not otherwise defined that have well-known technical or industry meanings are used in accordance with such recognized meanings. References to persons include their respective permitted successors and assigns and, in the case of governmental persons, persons succeeding to their respective functions and capacities.

a. If any Party discovers any material discrepancy, deficiency, ambiguity, error, or omission in this Agreement, or is otherwise in doubt as to the meaning of any provision of the Agreement, the Party shall immediately notify all other Parties and request clarification of this Agreement.

b. This Agreement shall not be more strictly construed against any party hereto by reason of the fact that one Party may have drafted or prepared any or all of the terms and provisions hereof.

22. Severability. The invalidity or non-enforceability of any portion or provision of this Agreement shall not affect the validity or enforceability of any other portion or provision. Any invalid or unenforceable portion or provision shall be deemed severed from this Agreement and the balance hereof shall be construed and enforced as if it did not contain such invalid or unenforceable portion or provision.

23. Further Documents. The parties shall execute and deliver all documents and perform further actions that may reasonably be necessary to effectuate the provisions of this Agreement.

24. No Waiver. The failure of a Party to insist upon the strict performance of the terms and conditions hereof shall not constitute or be construed as a waiver or relinquishment of any other provision or of either Party's right to thereafter enforce the

same in accordance with this Agreement.

25. All Prior Agreements Superseded. This document incorporates and includes all prior negotiations, correspondence, conversations, agreements, or understandings applicable to the matters contained herein, and the Parties agree that there are no commitments, agreements, or understandings concerning the subject matter of this Agreement that are not contained in this document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representations or Agreements whether oral or written. It is further agreed that no modification, amendment, or alteration in the terms and conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

IN WITNESS WHEREOF, the Parties have executed this Agreement, by and through their duly undersigned and authorized representatives, as of the date and year first written above.

Okaloosa County, Florida, a political subdivision of the State of Florida acting by and through its duly authorized Board.

By: _____, Chairman

ATTEST:

By: _____, Clerk of Court

Approved as to Content:

Approved as to Form and Execution:

, County Administrator

, County Attorney

**EMERALD COAST UTILITIES
AUTHORITY**, a local governmental body,
corporate and politic, acting by and through its
duly authorized Board.

By: _____
Lois Benson, Chairman

ATTEST:

By: _____
Secretary

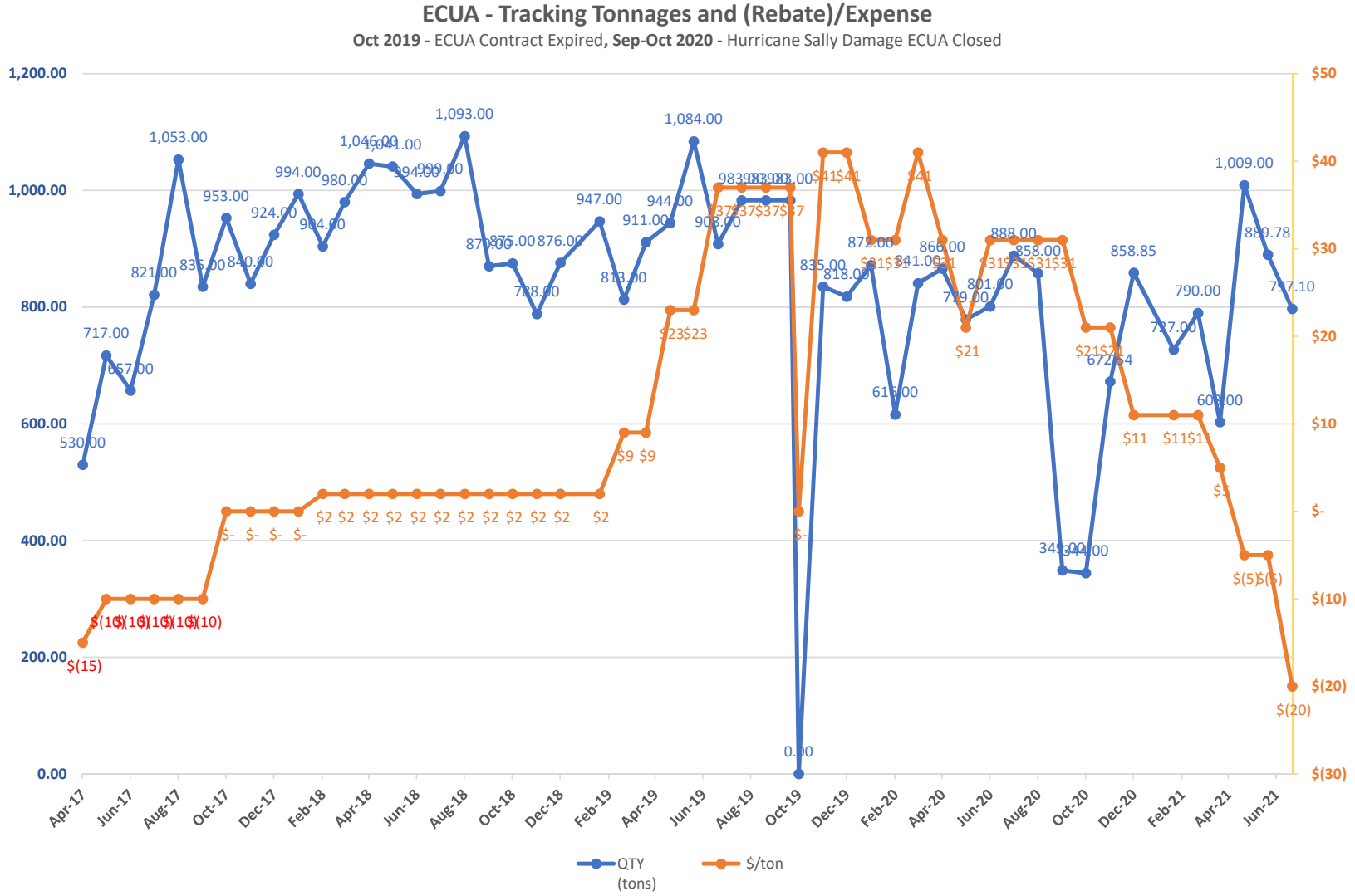
Recycling Tonnages for the Past 5 years

FY16	FY17	FY18	FY19	FY20
9,156.00	530.00	994.00	947.00	872.00
	717.00	904.00	813.00	616.00
	657.00	980.00	911.00	841.00
	821.00	1,046.00	944.00	866.00
	1,053.00	1,041.00	1,084.00	779.00
	835.00	994.00	908.00	801.00
	953.00	999.00	983.00	888.00
	840.00	1,093.00	983.00	858.00
	924.00	870.00	983.00	349.00
	814.00	875.00	0.00	344.00
	814.00	788.00	835.00	672.54
	814.00	876.00	818.00	858.85

9,156.00 9,772.00 11,460.00 10,209.00 8,745.39

AVERAGE: 9,868.48

Date	QTY (tons)	\$/ton	ECUA Invoice
Apr-17	530.00	\$ (15)	\$ (7,950)
May-17	717.00	\$ (10)	\$ (7,170)
Jun-17	657.00	\$ (10)	\$ (6,570)
Jul-17	821.00	\$ (10)	\$ (8,210)
Aug-17	1,053.00	\$ (10)	(10,530)
Sep-17	835.00	\$ (10)	\$ (8,350)
Oct-17	953.00	-	\$ -
Nov-17	840.00	-	\$ -
Dec-17	924.00	-	\$ -
Jan-18	994.00	-	\$ -
Feb-18	904.00	2	\$ 1,808
Mar-18	980.00	2	\$ 1,960
Apr-18	1,046.00	2	\$ 2,092
May-18	1,041.00	2	\$ 2,082
Jun-18	994.00	2	\$ 1,988
Jul-18	999.00	2	\$ 1,998
Aug-18	1,093.00	2	\$ 2,186
Sep-18	870.00	2	\$ 1,740
Oct-18	875.00	2	\$ 1,750
Nov-18	788.00	2	\$ 1,576
Dec-18	876.00	2	\$ 1,752
Jan-19	947.00	2	\$ 1,894
Feb-19	813.00	9	\$ 7,317
Mar-19	911.00	9	\$ 8,199
Apr-19	944.00	23	\$ 21,712
May-19	1,084.00	23	\$ 24,932
Jun-19	908.00	37	\$ 32,808
Jul-19	983.00	37	\$ 36,371
Aug-19	983.00	37	\$ 36,371
Sep-19	983.00	37	\$ 36,371
Oct-19	0.00	-	\$ -
Nov-19	835.00	41	\$ 34,235
Dec-19	818.00	41	\$ 33,538
Jan-20	872.00	31	\$ 27,032
Feb-20	616.00	31	\$ 19,096
Mar-20	841.00	41	\$ 34,481
Apr-20	866.00	31	\$ 26,846
May-20	779.00	21	\$ 16,359
Jun-20	801.00	31	\$ 24,831
Jul-20	888.00	31	\$ 27,528
Aug-20	858.00	31	\$ 26,598
Sep-20	349.00	31	\$ 10,819
Oct-20	344.00	21	\$ 7,224
Nov-20	672.54	21	\$ 14,123
Dec-20	858.85	11	\$ 9,447
Jan-21	727.00	11	\$ 7,997
Feb-21	790.00	11	\$ 8,690
Mar-21	603.00	5	\$ 3,015
Apr-21	1,009.00	(5)	\$ (5,045)
May-21	889.78	(5)	\$ (4,449)
Jun-21	797.10	(20)	\$ (15,942)



RAC -- Recycling Process Options

Company	Processing Fee/ton	Hauling/ton	Contamination Rate	Recycling Tonnage	Annual Cost	Revenue (\$48.35/T) Commercial/Cities - 5500 Tons	Net Annual Cost ECUA	Cost To Springhill (\$44.09/T)	Revenue (\$48.35/T) Commercial/Cities	Net Annual Cost Springhill
ECUA	\$25	\$22	25%	13,000	\$ 611,000.00	\$ 265,925.00	\$ 345,075.00	\$ 573,170.00	\$ 265,925.00	\$ 307,245.00
Marpan	\$90	\$66	?	13,000	\$ 2,028,000.00	\$ 265,925.00	\$ 1,762,075.00	\$ 573,170.00	\$ 265,925.00	\$ 307,245.00
Montgomery	\$40	\$42	10%	13,000	\$ 1,063,660.00	\$ 265,925.00	\$ 797,735.00	\$ 573,170.00	\$ 265,925.00	\$ 307,245.00
Bay										
Santa Rosa										
WM - Tampa	\$70	\$150	20%	13,000	\$ 2,860,000.00	\$ 265,925.00	\$ 2,594,075.00	\$ 573,170.00	\$ 265,925.00	\$ 307,245.00
WM - Nashville	\$57	\$180	10%	13,000	\$ 3,081,000.00	\$ 265,925.00	\$ 2,815,075.00	\$ 573,170.00	\$ 265,925.00	\$ 307,245.00
WM - Little Rock	\$55	\$180	10%	13,000	\$ 3,055,000.00	\$ 265,925.00	\$ 2,789,075.00	\$ 573,170.00	\$ 265,925.00	\$ 307,245.00

City Percentage 42.3%

ECUA: NOTE: assumes flat rate fee to ECUA of \$25/ ton--Rejects: \$45/ton plus \$250 reload fee

Marpan: Currently does not have capacity

Montgomery: Does not accept glass or mixed paper (Cost of rejects unknown?)

Bay: Incinerator appears to be phasing out in near future; expanding landfill

Santa Rosa: Board approved new agreement with ECUA based on latest proposal (Santa Rosa not collecting glass)

WM - Tampa: No rebate (Cost of rejects unknown?)

WM - Nashville: No rebate (Cost of rejects unknown?)

WM - Little Rock: No rebate (Cost of rejects unknown?)

RePower Facility Costs

Land Aquisition	\$1,000,000
Building	\$1,000,000
Processing Equipoment/Machinery	\$25,000,000
Total	\$27,000,000

Estimate based on converasation with Scott Montgomery (RePower). Larger facility in South Carolina built only a few years ago had a total constuction cost of\$43,000,000.

Scenario 1 – Raise Residential Rates

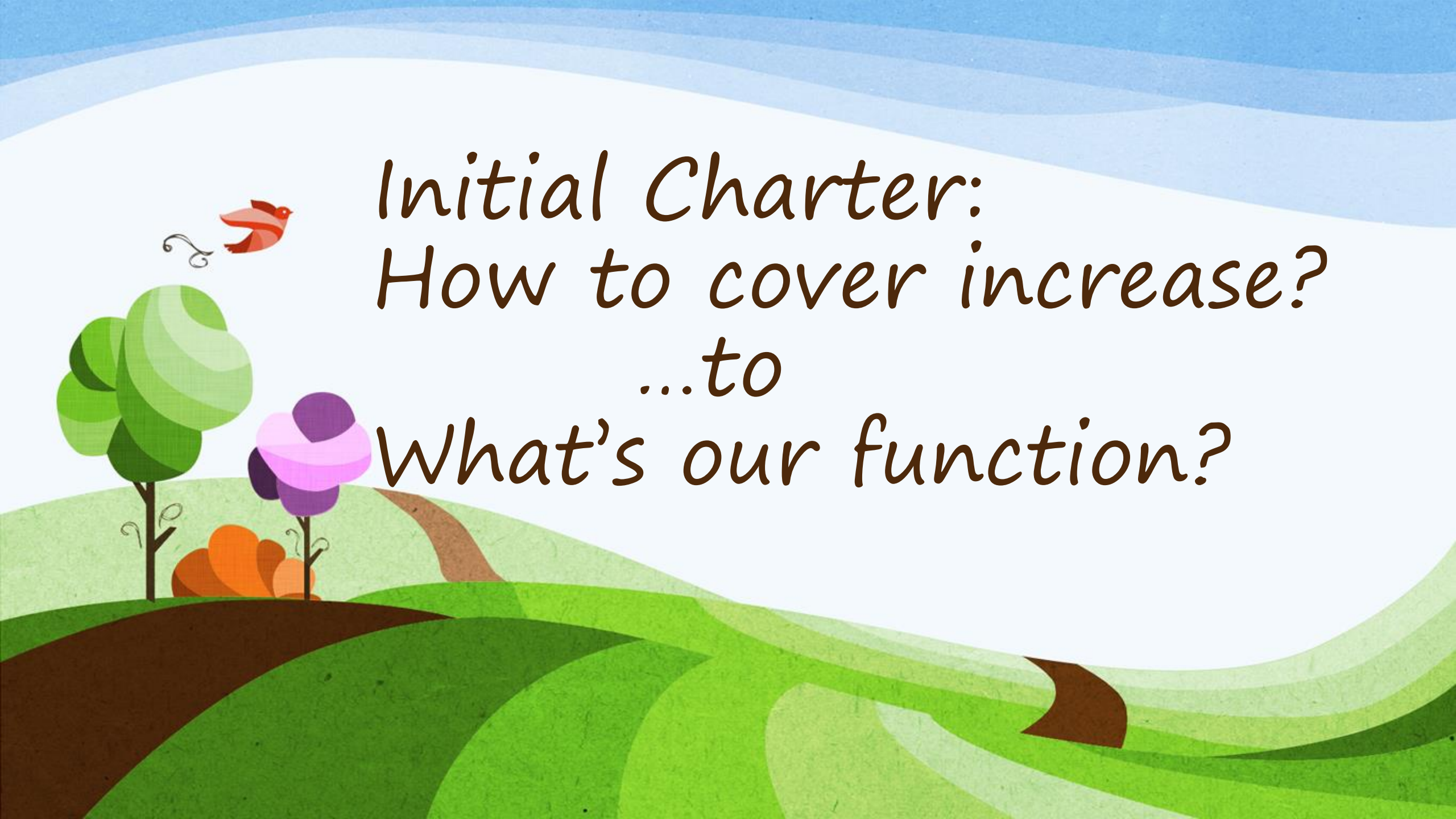
Monthly Increase	Residential Annual Yield
\$ 0.05	\$ 20,400.00
\$ 0.10	\$ 40,800.00
\$ 0.15	\$ 61,200.00
\$ 0.20	\$ 81,600.00
\$ 0.25	\$ 102,000.00
\$ 0.30	\$ 122,400.00
\$ 0.40	\$ 163,200.00
\$ 0.50	\$ 204,000.00

Scenario 2 – Raise Tip-Fee Rates

Customer Type	Projected Tonnage	FY22 Rate/ton
Commercial, County	50,081.6	\$69.84
Commercial, City (Excluding Crestview)	31,472.7	\$59.81
Commercial, City, City of Crestview	3,018.7	\$59.81
Residential, County (Non-Franchise)	1,670.3	\$64.08
Residential, City (Excluding Crestview)	14,502.4	\$56.04
Residential, City, City of Crestview ³	455.5	\$56.04
Residential, County (Franchise)	53,744.2	\$-
Residential, No Charge (Accounts 148, 192& 264)	785.9	\$-
Residential & Commercial, Yard Waste	914.1	\$48.49
Yard Waste, City	3,457.2	\$48.49
C&D Host Fee	5,593.6	\$10.42
Waste Tires	9.5	\$130.35
Recyclables, County - No Charge	7,840.1	\$-
Recyclables, County - Chargeable	2,107.8	\$49.31
Recyclables, City - Chargeable	3,297.3	\$49.31
Recyclables, City - Chargeable	3.2	\$49.31

Increase Tip Fee / Increased Annual Revenue			
\$0.25	\$0.50	\$1.00	\$5.00
\$44,738.50	\$89,477.00	\$178,954.00	\$894,770.00

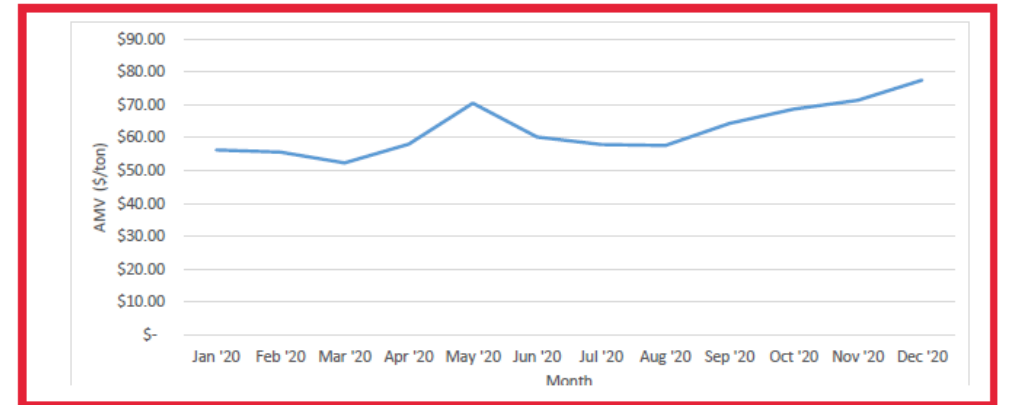
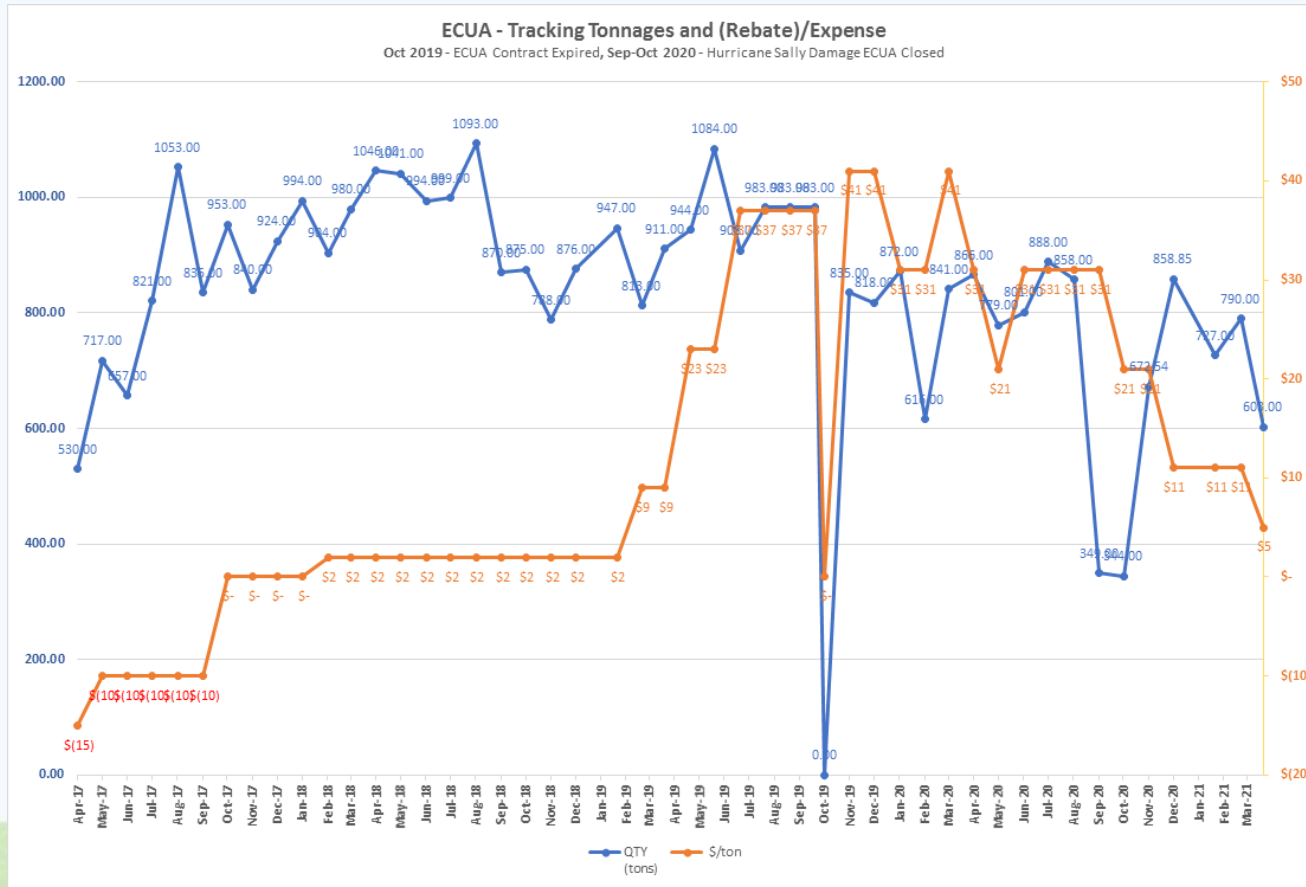
Scenario 3 - Raise Residential and Tip Fee Rates



*Initial Charter:
How to cover increase?
...to
What's our function?*

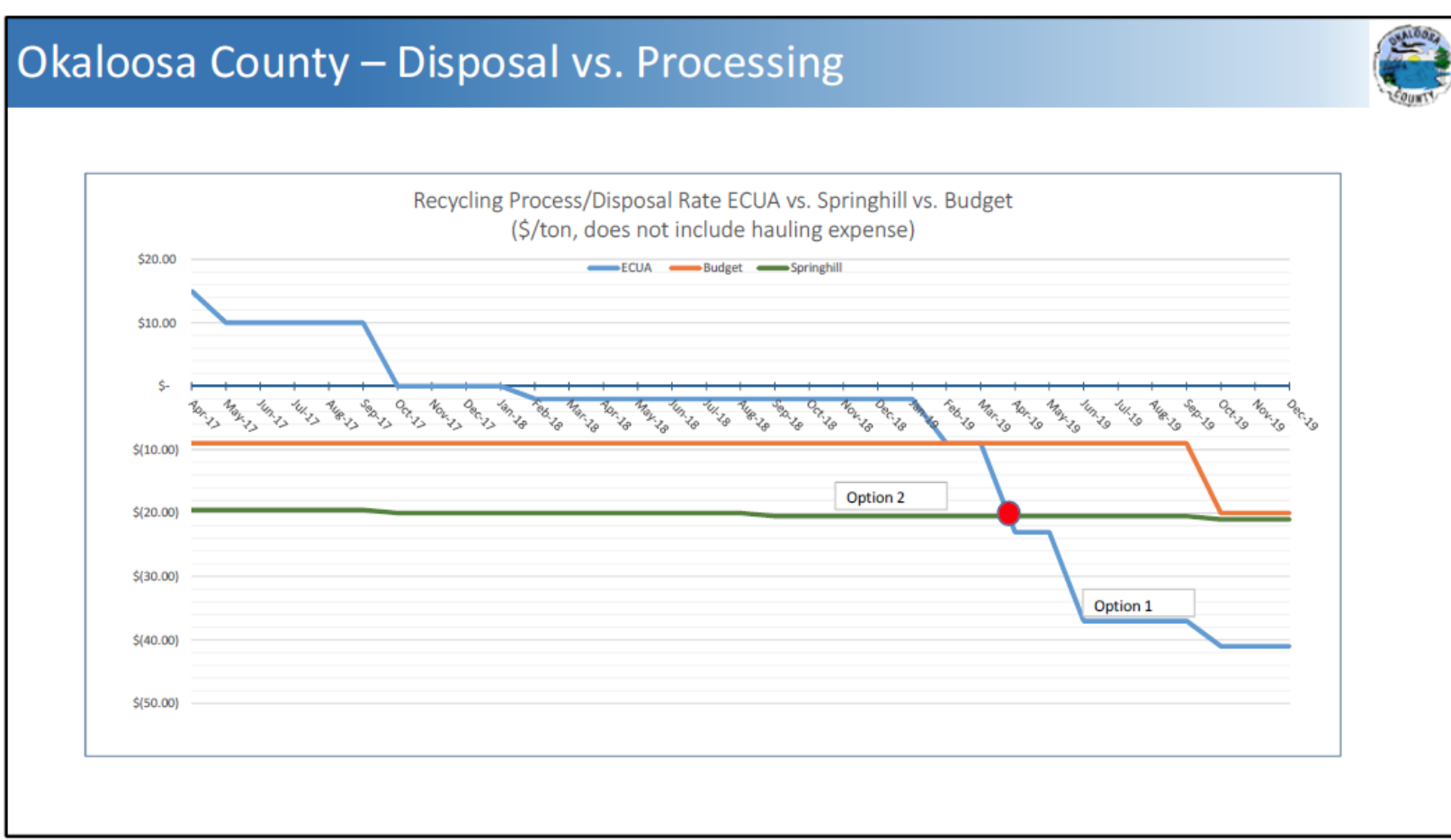
Prior contract did not correlate cost with quantity $f(\text{AMV})$ avg mkt value

- \$/ton and quantity provided are not correlated



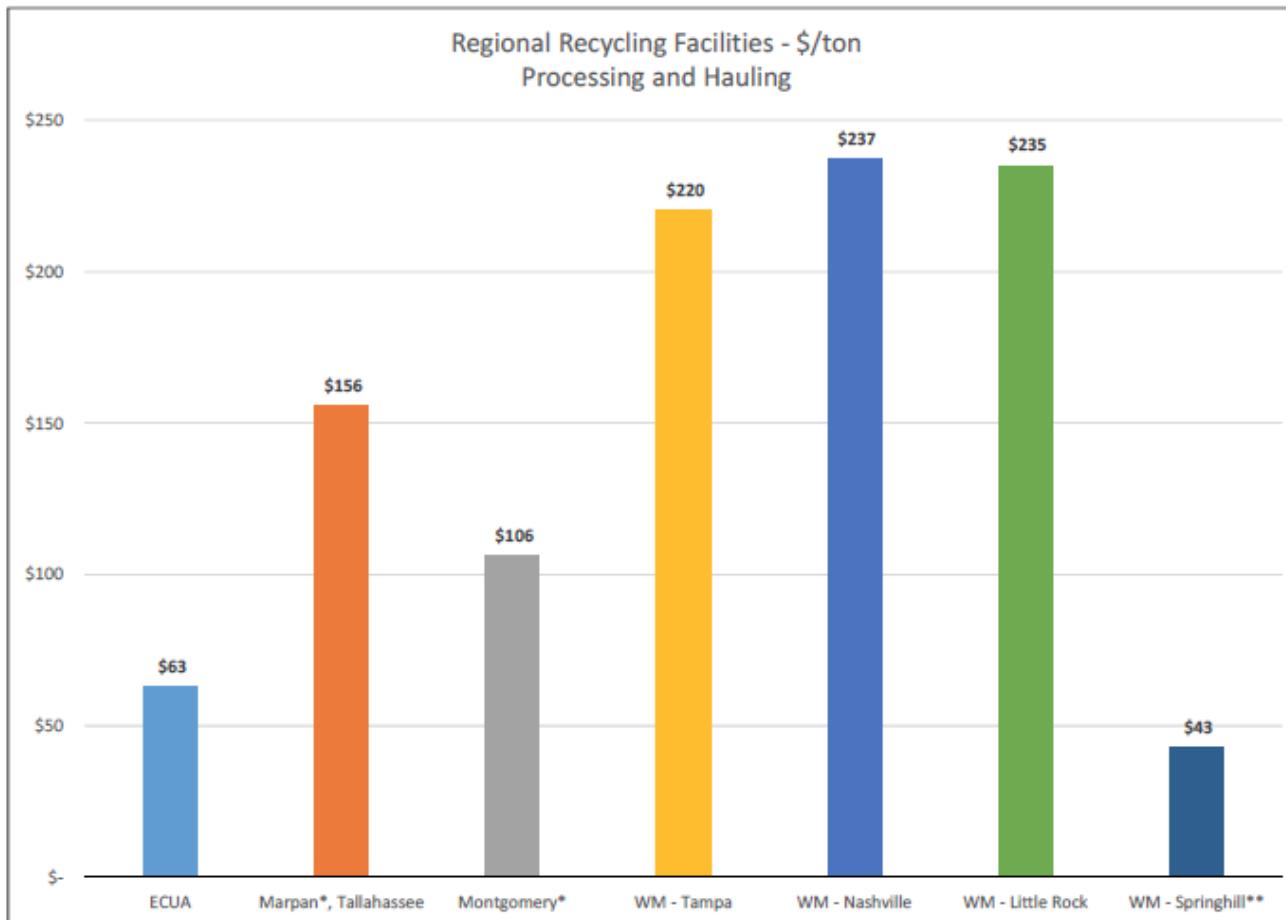
Flat Fee

- Springhill costs \$5/ton less (Is this recycling or landfill?)



ECUA still lowest (Except Springhill)

Okaloosa County – Alternative Processing Facilities



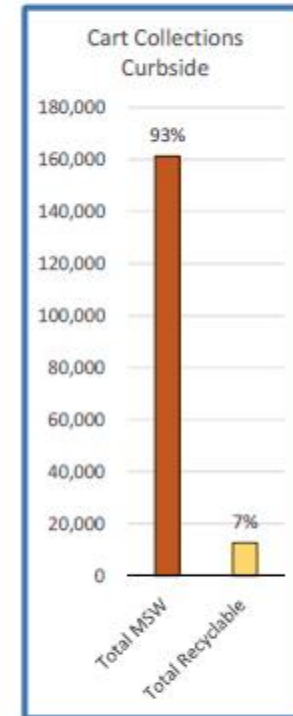
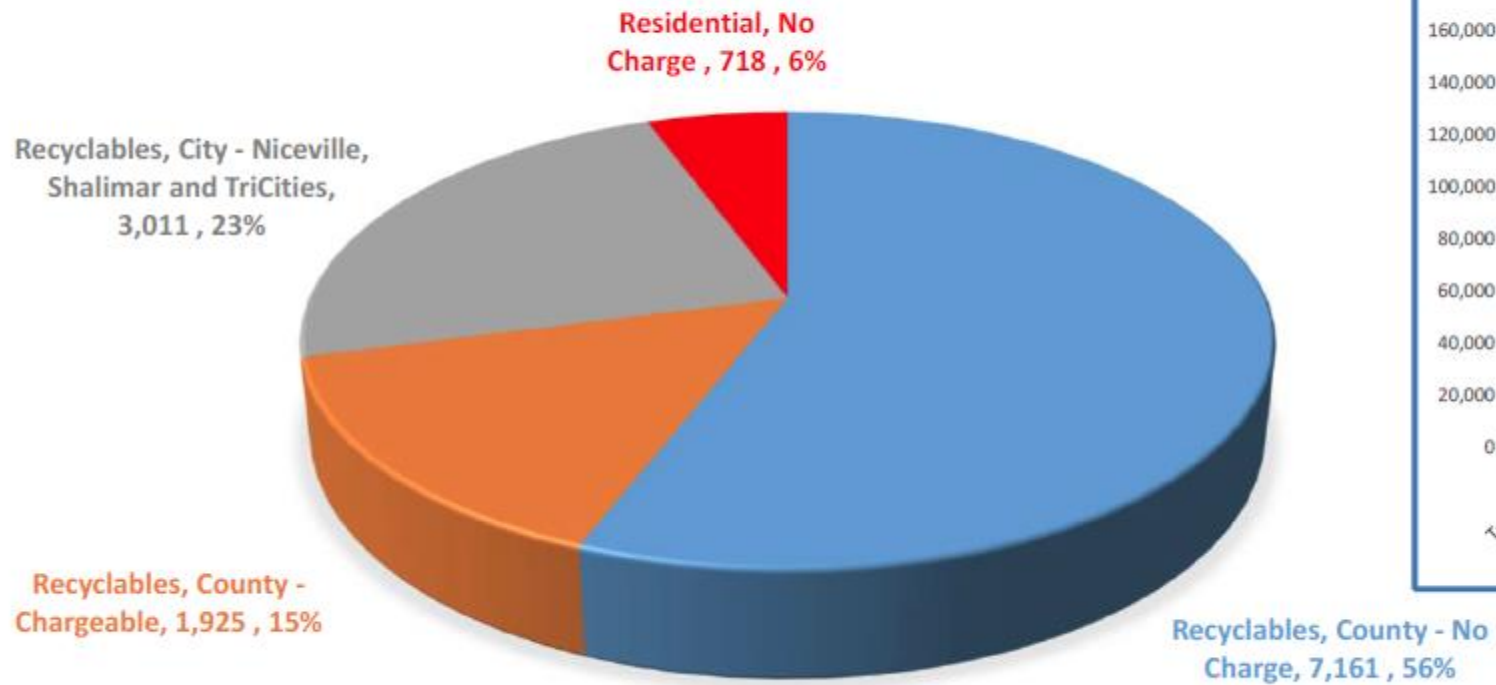
Okaloosa County – Recyclables



RECYCLABLE TONNAGES COLLECTED

Entire County less FWB and ValP

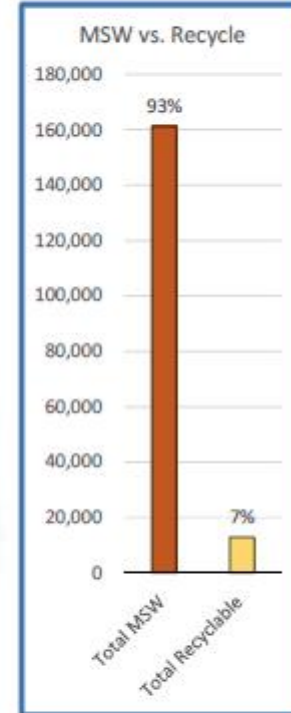
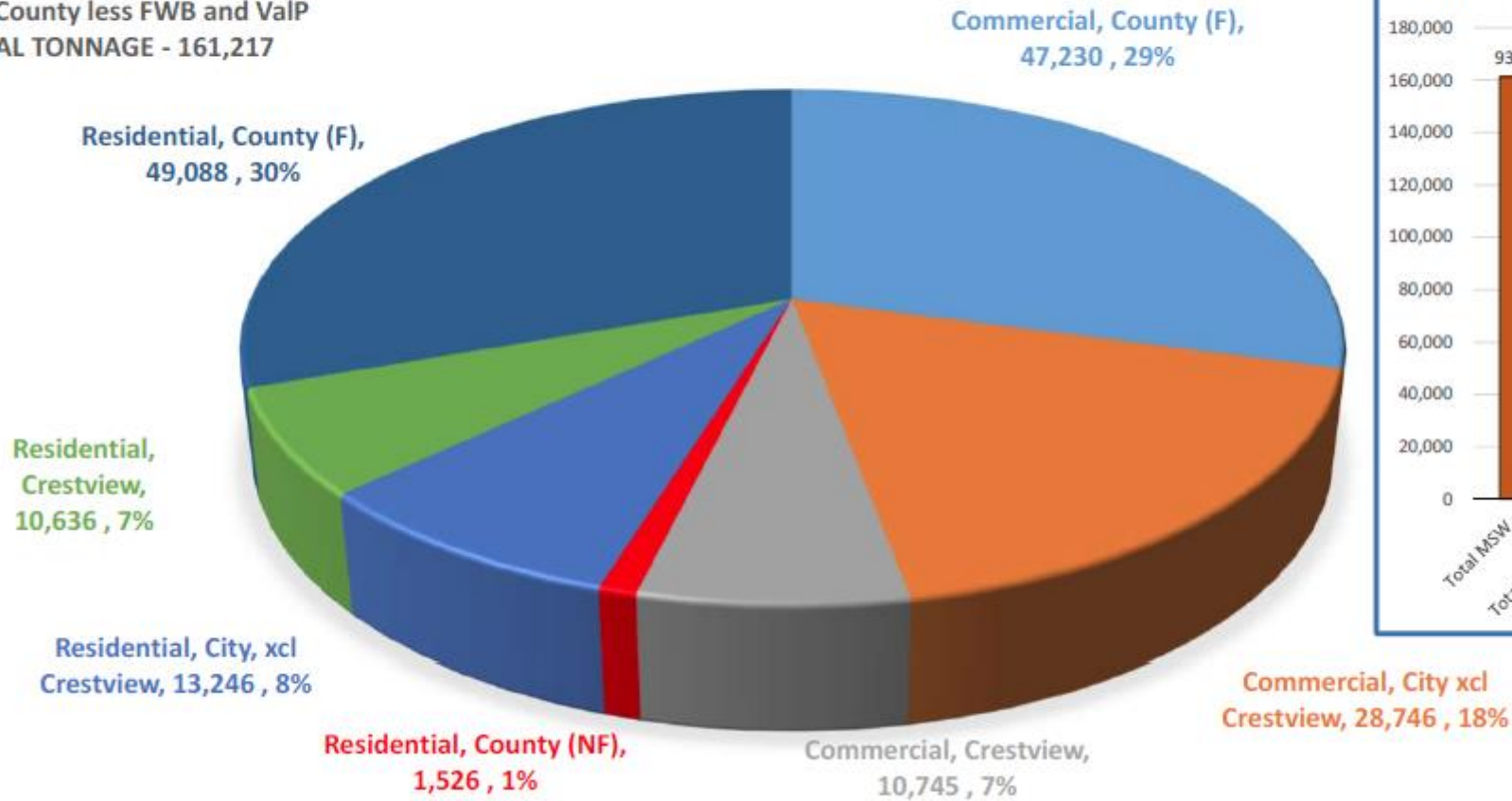
TOTAL TONNAGE – 12,815



Okaloosa County – Municipal Solid Waste (MSW)

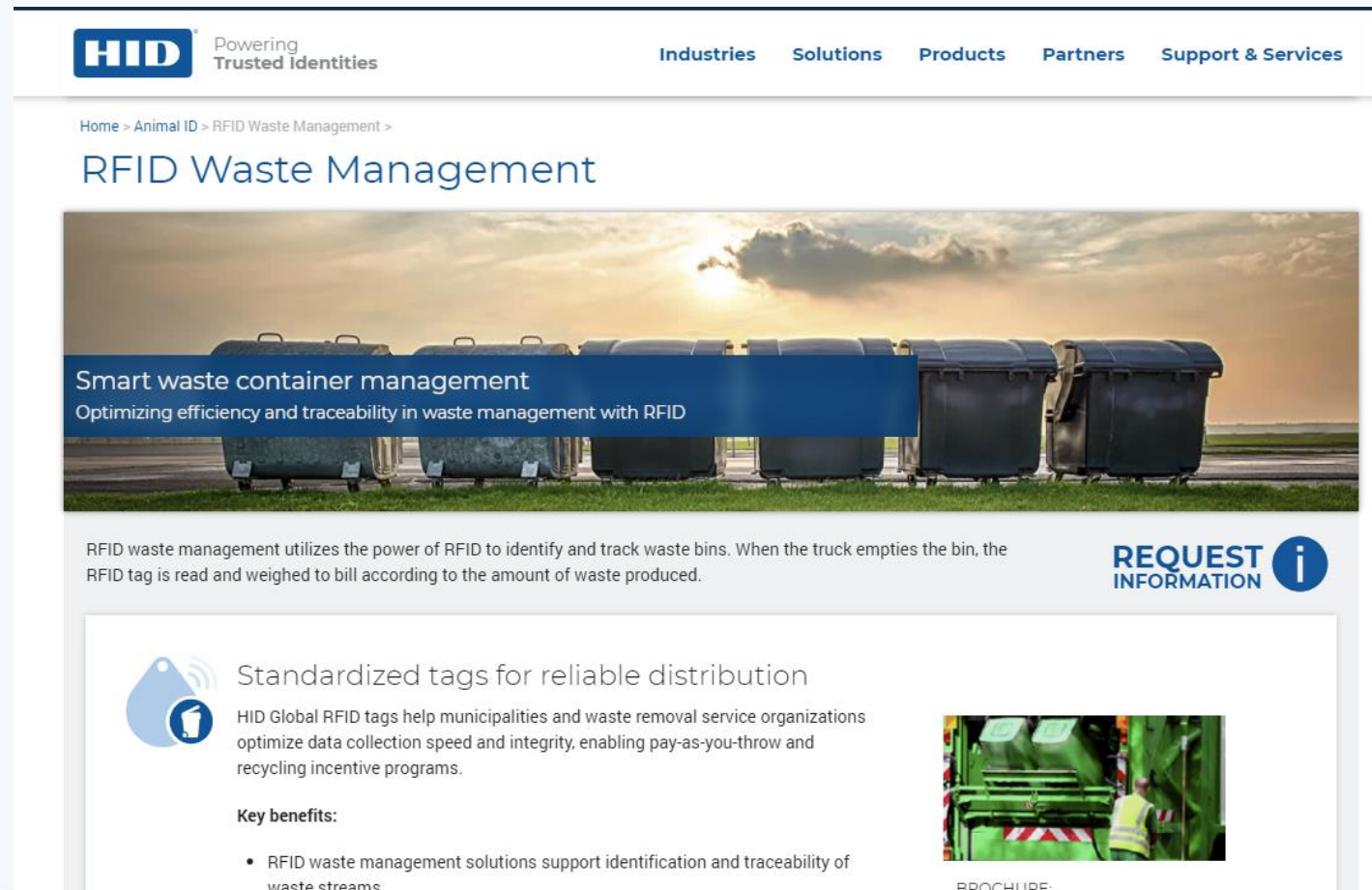


MSW TONNAGES COLLECTED
Entire County less FWB and ValP
TOTAL TONNAGE - 161,217



Enter Waste Management

- <https://www.hidglobal.com/solutions/rfid-waste-management>



The screenshot shows the HID Global website page for RFID Waste Management. The page features a navigation bar with the HID logo and the tagline "Powering Trusted Identities". The main content area includes a header for "RFID Waste Management" and a large image of waste containers at sunset. A blue overlay on the image contains the text "Smart waste container management" and "Optimizing efficiency and traceability in waste management with RFID". Below the image, there is a paragraph explaining that RFID waste management uses RFID to identify and track waste bins. A "REQUEST INFORMATION" button is visible on the right. The page also features a section titled "Standardized tags for reliable distribution" with a sub-section for "Key benefits:" and a small image of a worker in a waste management facility.

HID Powering Trusted Identities


Industries Solutions Products Partners Support & Services


Home > Animal ID > RFID Waste Management >

RFID Waste Management

Smart waste container management
Optimizing efficiency and traceability in waste management with RFID


RFID waste management utilizes the power of RFID to identify and track waste bins. When the truck empties the bin, the RFID tag is read and weighed to bill according to the amount of waste produced.

REQUEST INFORMATION 

 **Standardized tags for reliable distribution**
HID Global RFID tags help municipalities and waste removal service organizations optimize data collection speed and integrity, enabling pay-as-you-throw and recycling incentive programs.

Key benefits:

- RFID waste management solutions support identification and traceability of waste streams.



BROCHURE:

Rugged general purpose UHF transponder



HID® InLine Tag™ Ultra RFID Tags

- Weathers the outdoors and power washing
- Mounts on- or off-metal
- Broadband – worldwide
- Screw or weld options

[View HID® InLine Tag™
Ultra RFID Tags](#)

Standard bin tag for plastic waste-bins



HID® Bin Tag RFID Tags

- Standard form factor (DIN 30745)
- Available in LF, HF or UHF
- On-demand encoding and packaging service
- Reliable performance - 7-year warranty

[View HID® Bin Tag RFID
Tags](#)

Standard Plug Tag



HID® Plug Tag RFID Tags

- Easily integrated, yet tamper resistant - insert in pre-drilled holes
- Available in Unique or FDX-b encoding
- On-demand encoding and packaging service
- Reliable outdoor performance - 7-year warranty

[View HID® Plug Tag RFID
Tags](#)

Enter Waste Management

- User cost based on quantity collected
- What's the goal?
 - Encourage recycling:
 - + \$/pickup (base fee) + \$/weight of garbage can
 - - \$/pickup - \$/weight of recycle can
 - #1 problem – higher contamination rate
People throwing garbage in recycle cans
 - Minimize cost to consumer:
 - - \$/pickup/weight of garbage can
 - + \$/pickup/weight of recycle can
 - #1 problem – why recycle? Costs me more
(recycling cost county more per ton than garbage)

Example

Overview | Specifications

Automated waste management tracking with industrial RFID tags accelerates logistics and waste management processes, and enables **pay-as-you-throw and recycling** incentive programs, while eliminating error-prone and expensive manual data collection methods historically used for these systems.

The durable HID Global Industrial RFID Plug Tag transponder housing protects embedded electronics, delivering reliable performance in harsh waste management and logistics environments. Each tag is completely waterproof, and consistently readable, even when temperatures dip to -13° F (-20° C) or rise to 185° F (85° C). Ridges around the shaft ensure that the RFID tag inserts easily and is locked securely into place, preventing tag loss or removal in the field.

For metallic containers, the HID IN Tag™ and InLine™ Tag families include waste management RFID tags that deliver consistent, reliable performance when mounted on metal. In addition, these lines include high frequency and UHF chip options with available read-write memory up to 2048 bits.

For standard plastic household bins (DIN 30745), the HID Bin Tag is available in LF (Unique, FDX-B or HDX), HF and UHF versions.

Key Features

- Easily integrated, yet tamper resistant - inserts securely into standard pre-drilled holes in waste bins and containers.
- Sturdy - resistant to liquids, thermal fluctuation, vibration and shock.
- Unsurpassed quality - fully automated HID RFID tag manufacturing with direct-bonding technology ensure dependable performance.





Is Recycling Worth It Anymore? The Truth Is Complicated.




Watch later



Share

IS RECYCLING WORTH IT ANYMORE?



Watch on  YouTube

A large pile of cardboard boxes and paper waste is shown inside a blue container. The waste is piled high, filling most of the container's space. In the background, a yellow piece of machinery with the word "CAT" is visible. The scene is dimly lit, with a light source from the left casting shadows on the waste. The "npr" logo is in the top right corner.

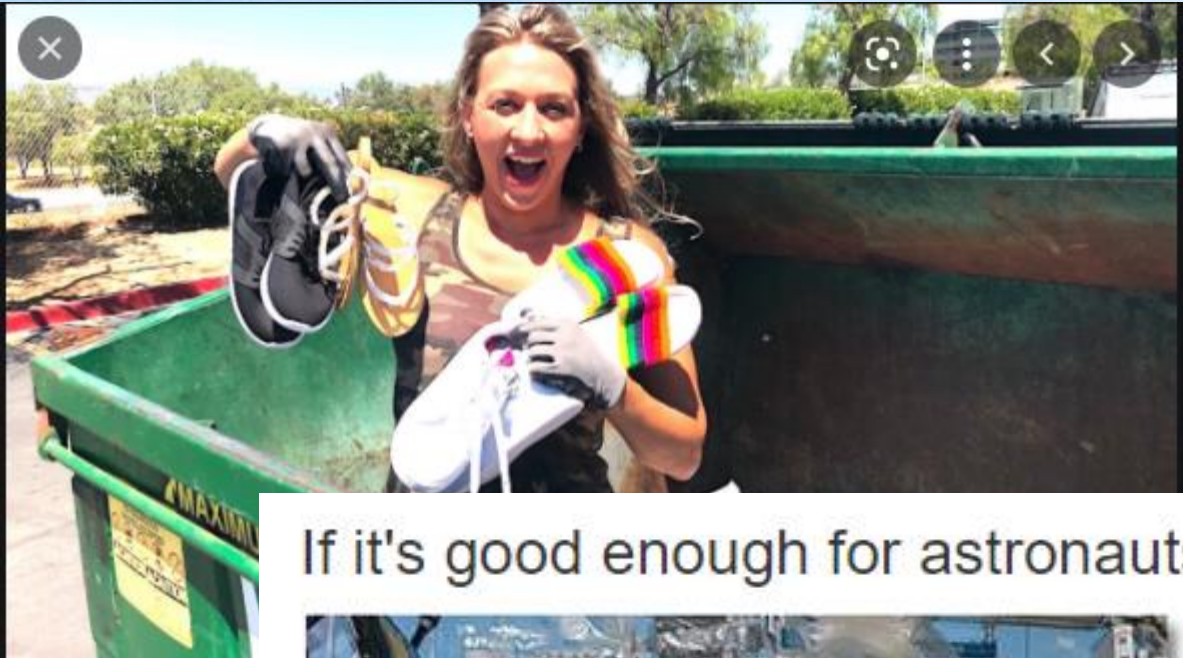
npr

and so people like James, have had to come up with creative solutions.

Rebrand our committee: ORC – Okaloosa Reduce/Reuse Committee

- Program to reduce use (KISS):
 - Start out simple:
 - Bring bags to grocery
 - Don't buy: plastic clothes, single use water/soda
 - Self help: how to make things last longer
 - Wash clothes when dirty, not after 1 use (same goes for your body)
 - Select glass over plastic, reuse glass
 - Minimize environmental impact
 - Walk, ride bikes, car pool
 - Sunscreen bad for ocean
 - *** More ideas here ***





If it's good enough for astronauts



Astronauts aboard the International Space Station drink reclaimed urine.

