



COUNTY OF KAUA'I 2020 INTEGRATED SOLID WASTE MANAGEMENT PLAN UPDATE

Solid Waste Advisory Committee Meeting # 2

TUESDAY, DECEMBER 10, 2019

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Agenda

- I. 9:00 – 9:05: WELCOME AND AGENDA OVERVIEW
- II. 9:05 – 9:15: REVIEW & APPROVE OCTOBER 15, 2019 MEETING SUMMARY
 - Actions, Comments or Corrections, Approve Minutes
- III. 9:15 – 9:25: DISCUSS STATE OF HAWAII PLASTICS SOURCE REDUCTION WORKING GROUP PURPOSE, TIMELINE, AND RELEVANCE TO ISWMP
- IV. 9:25 – 9:50: REVIEW WASTE CHARACTERIZATION STUDY RESULTS AND FY19 DIVERSION TONNAGES AND DIVERSION RATE
- V. 9:50 – 10:15: BREAKOUT SESSION 1: BRAINSTORM HOW ABOVE RESULTS MAY ILLUMINATE SOME FOCUS AREAS
- VI. 10:15 – 10:30: BREAK
- VII. 10:30 – 11:15: REVIEW AND DISCUSS EXISTING SOLID WASTE MANAGEMENT SYSTEM
 - Solid Waste Collection
 - Facilities
 - Source Reduction
 - Recycling and Bioconversion - Matrix
 - Special Waste Management
 - Household Hazardous Waste and Electronic Waste
 - Public Education
 - Processing and Markets
- VIII. 11:15 – 11:35: BREAKOUT SESSION 2: REVISIT FOCUS AREAS/OPTIONS
- IX. 11:35 – 11:45: PUBLIC COMMENTS
- X. 11:45 – 12:00: NEXT STEPS MOVING FORWARD
- XI. 12:00: ADJOURNMENT

Review October 15, 2019 Meeting Summary

- Review Actions
- Discuss Comments or Corrections
- Approve Minutes

State of Hawaii Plastics Source Reduction Working Group Meeting #1

- Overview of purpose and timeline
- Potential relevance to this ISWMP

Waste Characterization Study

- County contracted Cascadia Consulting to conduct a Waste Characterization Study in 2016
- Characterized a total of 162 samples over two seasons (high and low tourist season)
- 71 material categories grouped into 11 material classes
- 232 pound average sample weight

Substream	Number of Samples
Privately Hauled Commercial Waste Delivered to Kekaha Landfill	81
Residential	81
-County Hauled Waste Delivering Directly to Kekaha Landfill	8
-Līhu'e Transfer Station Material Delivered to Kekaha Landfill	24
-Hanalei Transfer Station Material Delivered to Kekaha Landfill	16
-Kapa'a Transfer Station Material Delivered to Kekaha Landfill	16
-Hanapēpē Transfer Station Material Delivered to Kekaha Landfill	17
-Residential Hauled to Kekaha Landfill	0
Total	162

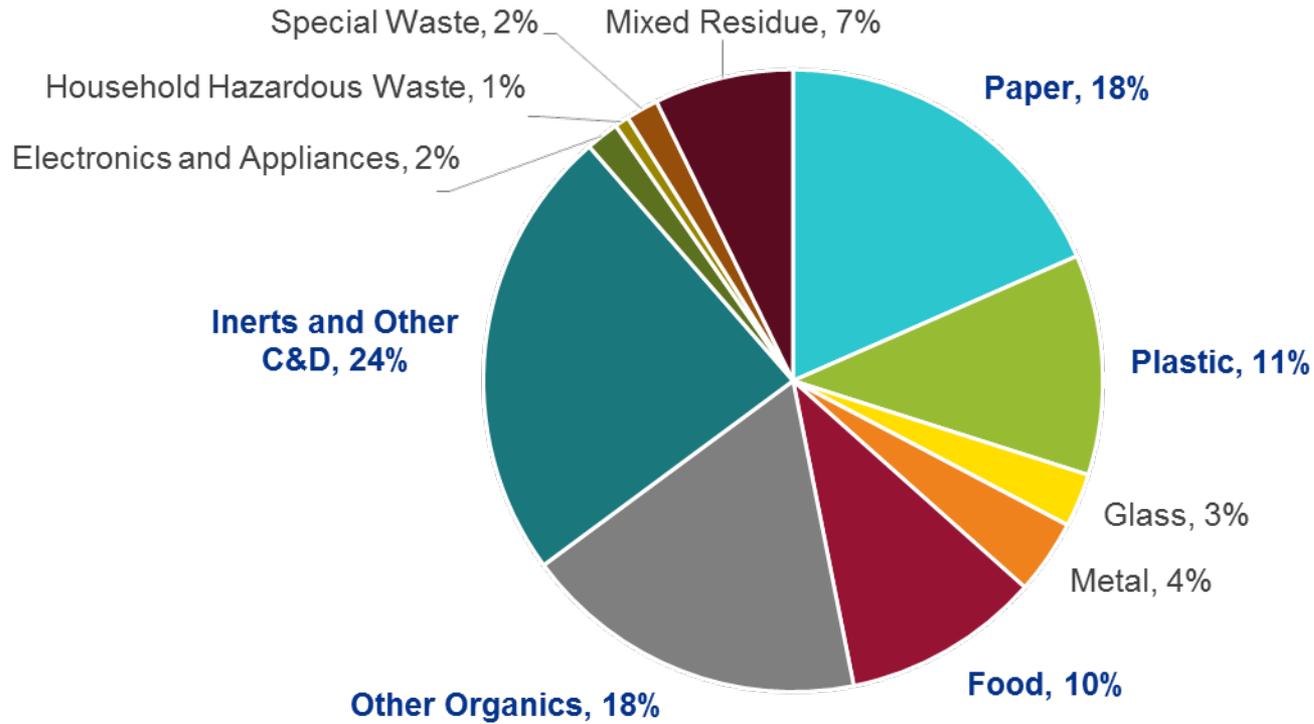
Material Classes

- The 11 Material Classes are the broader categories that organize 71 material types
 1. **Paper** – includes cardboard, mixed paper, newspaper, aseptic and gable top containers, compostable paper, and non-recyclable paper
 2. **Glass** – includes HI5 and Non-HI5 glass bottles and containers and non-recyclable glass
 3. **Plastic** – includes HI5 and Non-HI5 PETE (#1) and HDPE (#2) containers, #3-#7 plastic containers, plastic bags, agricultural film plastic, other clean film, non-recyclable film plastic, durable plastic items, expanded polystyrene food serviceware, other expanded polystyrene, and non-recyclable plastics
 4. **Metal** – includes tin/steel cans, HI5 bi-metal cans, other ferrous, HI5 and non-HI5 aluminum cans, other non-ferrous, remainder/composite metal
 5. **Food** – includes retail packaged food (meat and non-meat), unpackaged food (meat and non-meat), and other packaged food (meat and non-meat)
 6. **Other Organics** – includes leaves and grass, sewage, sludge, prunings and trimmings, branches and stumps, manures, textiles, and carpet

Material Classes Cont'd

7. **Inerts and Other C&D** – includes concrete, asphalt paving, asphalt roofing, clean lumber, treated lumber, other wood waste, gypsum board, and rock, soil, and fines
8. **Electronics and Appliances** – includes covered electronic devices, non-covered electronic devices, major appliances, and small appliances
9. **Household Hazardous Waste** – includes paint, empty aerosol containers, vehicle and equipment fluids, used oil, batteries, mercury-containing items (not lamps), lamps (fluorescent and LED), remainder/composite household hazardous
10. **Special Waste** – includes ash, treated medical waste, bulky items, tires, remainder/composite special waste
11. **Mixed Residue** – includes kitty litter, cosmetics, partially filled containers of non-food consumer products, and bathroom waste, and fines less than 2 inches in diameter

Overall Kaua'i Countywide Disposed Waste Composition, 2016



Detailed Composition – Inerts and Other C&D

Material	Estimated Percent	Estimated Tons
Inerts and Other C&D	23.7%	19,815
Concrete	1.3%	1,072
Asphalt Paving	0.0%	3
Asphalt Roofing	1.9%	1,566
Clean Lumber	5.0%	4,167
Treated Lumber	2.9%	2,467
Other Wood Waste	6.2%	5,157
Gypsum Board	3.4%	2,821
Rock, Soil and Fines	1.7%	1,395
Non-Recyclable Inerts and Other	1.4%	1,166

Detailed Composition – Other Organics and Food

Material	Estimated Percent	Estimated Tons
Other Organics	18.0%	15,107
Leaves and Grass	4.3%	3,579
Prunings and Trimmings	1.9%	1,585
Branches and Stumps	0.1%	64
Manures	0.0%	0
Textiles	3.0%	2,525
Carpet	0.6%	508
Sewage Sludge	4.8%	3,985
Non-Recyclable Organic	3.4%	2,861
Food	10.3%	8,635
Retail Packaged Food – Meat	0.5%	432
Retail Packaged Food – Non-Meat	2.8%	2,361
Unpackaged Food – Meat	0.9%	787
Other Packaged Food – Meat	0.6%	522
Unpackaged Food – Non-Meat	4.3%	3,597
Other Packaged Food – Non-Meat	1.1%	936

Source: Cascadia. 2017. *Kaua'i County Waste Characterization Study Report 2017*. May.

Detailed Composition – Paper

Material	Estimated Percent	Estimated Tons
Paper	18.4%	15,441
Uncoated Corrugated Cardboard	4.4%	3,674
Kraft Paper Bags	1.4%	1,149
Newspaper	0.8%	629
White Ledger Paper	1.3%	1,096
Mixed Paper	4.1%	3,472
Aseptic and Gable Top Containers	0.4%	323
Compostable Paper	4.4%	3,711
Non-Recyclable Paper	1.7%	1,386

Detailed Composition – Plastic

Material	Estimated Percent	Estimated Tons
Plastic	11.5%	9,595
PETE Containers – HI5	0.4%	375
PETE Containers – Non-HI5	0.3%	246
HDPE Containers – HI5	0.1%	122
HDPE Containers – Non-HI5	0.5%	430
Plastic Containers #3-#7	1.1%	958
Plastic Grocery and Other Merchandise Bags	0.0%	41
Agricultural Film Plastic	0.1%	80
Other Clean Film	0.5%	385
Non-Recyclable Film Plastic	4.1%	3,407
Durable Plastic Items	1.9%	1,605
Expanded Polystyrene Food Serviceware	0.4%	364
Other Expanded Polystyrene	0.3%	236
Non-Recyclable Plastic	1.6%	1,345

FY19 Diversion Tonnages and Diversion Rate

Material	Tons Disposed	Tons Diverted	Total Generation	Diversion Rate
Paper	16,928	5,796	22,724	26%
Plastic	10,519	1,578	12,097	13%
Glass	2,557	1,642	4,199	39%
Metal	3,552	5,426	8,978	60%
Food	9,466	3,256	12,723	26%
Other Organics	16,562	28,142	44,704	63%
Inerts and Other C&D	21,723	18,436	40,159	46%
Electronics and Appliances	1,585	197	1,782	11%
Household Hazardous Waste	686	187	873	21%
Special Waste	1,551	516	2,068	25%
Mixed Residue	6,675	0	6,675	0%
Total	91,804	65,177	156,981	42%

Note: based on most current data, with some materials being based on old numbers. These will be updated as available and also in the plan.

De Facto Population Projections for Kaua'i County

- De Facto Population = the combined resident and daily visitor populations
- Population estimates will be used to project both residential and visitor waste generation, recycling, and disposal quantities for planning purposes

Year	Resident Population	Average Daily Visitors	Total Daily De Facto Population
2019	73,588	29,033	102,621
2020	74,693	29,614	104,307
2021	75,440	30,206	105,646
2022	76,194	30,810	107,004
2023	76,956	31,426	108,382
2024	77,726	32,055	109,780
2025	78,503	32,696	111,199
2026	79,288	33,350	112,638
2027	80,081	34,017	114,098
2028	80,882	34,697	115,579
2029	81,691	35,391	117,082
2030	83,328	32,700	116,028

Waste Characterization Summary

- The disposed Waste Composition Data indicates there are opportunities for further diversion in C&D, other organics, paper, plastic, and food
- Of these material classes, plastics have lowest diversion rate (13%)
- C&D waste may offer the greatest potential for increasing diversion locally

Breakout Session 1

- Discuss how the Waste Characterization Study and FY19 diversion results illuminate potential focus areas

Overview and Discussion of Existing Solid Waste Management System

- Solid Waste Collection
- Facilities
- Source Reduction
- Recycling and Bioconversion
- Special Waste Management
- Household Hazardous Waste and Electronic Waste
- Public Education
- Processing and Markets

Solid Waste Collection

- The County is responsible for weekly curbside collection of municipal solid waste (MSW) from all residences
- Most refuse collection is automated, with modified manual refuse collection crews servicing a small number of customers
- Residents pay a variable rate for refuse collection through the County's Residential Refuse Collection Assessment, a Pay As You Throw (PAYT) program
- Commercial refuse collection is available through the County and through private haulers

96 Gallon = \$18 / month
(Equivalent to three 32 gallon trash cans)

64 Gallon = \$10 / month
(Equivalent to two 32 gallon trash cans)

CART OPTIONS

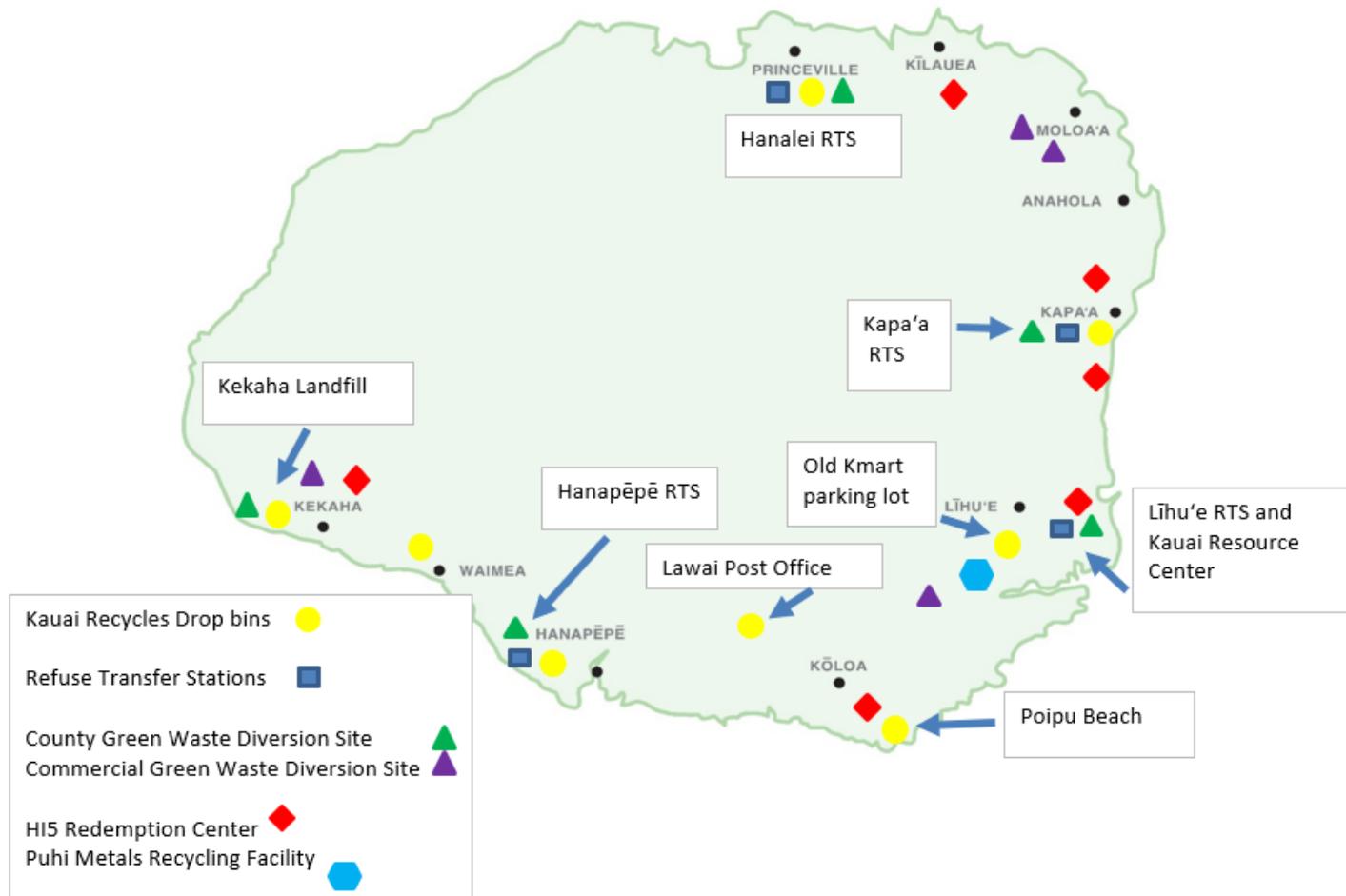
45" height, 27" width, 33" depth (96 Gallon cart)

42" height, 24" width, 27" depth (64 Gallon cart)

Introducing the new Pay As You Throw (PAYT) variable rate program. The County will be issuing refuse carts to all homes on Kauai!

Source: County of Kaua'i Division of Solid Waste.
<https://www.kauai.gov/PublicWorks/SolidWaste>

Facilities



Kekaha Landfill

- Kekaha Landfill is owned and operated by the County
- Prior to December 2019, Landfill operations and monitoring services were contracted to Waste Management Hawai'i (WMH)
- The County accepts self-haul MSW, green waste, and specified recyclable materials from residents free of charge
- Private haulers and other commercial vehicles are required to pay a tip fee to dispose of MSW at \$119 per ton

Refuse Transfer Stations

- The County operates four refuse transfer stations (RTS): Hanalei, Kapa‘a, Līhu‘e, and Hanapēpē
- The County accepts MSW, green waste, and specified recyclable materials from residents at the four RTS free of charge
- Accepted recyclable materials include tires, motor oil, scrap metal, appliances (except at Līhu‘e), motor oil filters, and propane tanks
- Bulky items are only accepted at Līhu‘e RTS and Kekaha Landfill
- Commercial businesses and other non-residential entities are required to pay a tip fee to dispose of MSW and green waste at the County’s RTS’s

Kaua'i Resource Center

- The Kaua'i Resource Center (KRC), owned and operated by the County and located in Līhu'e, serves as a HI5 Certified Redemption Center, education center, and office facility for County staff
- Programs run by the County out of the KRC include:
 - Facilitation of recycling education programs. Store educational materials and HI5 bins
 - Storage and distribution of free home composting bins every Friday
 - Free battery recycling for residents (Alkaline, Lithium, and NiCad)
 - Drop and Swap for bubble wrap and packing peanuts
 - New programs to facilitate reuse at thrift stores
- Reynolds Recycling operates a HI-5 redemption center and buy-back program for non-ferrous scrap metal at the KRC

Source Reduction

- Source reduction is any action that causes a net reduction in the generation of solid waste before the waste is collected
- Source reduction efforts on the island include:
 - In-house efforts undertaken by County agencies to reduce paper usage
 - Residential and community efforts to promote reuse including thrift stores, Drop and Swap programs, non-profit donation centers, and pig farms
 - County public education initiatives on topics such as food waste reduction
 - Distribution of free home composting bins to residents
 - Business assistance provided by the County's Recycling Office
 - Plastic Bag Ban and PAYT ordinance
 - New Program: Partnership between the County and non-profit thrift stores

Recycling Program Infrastructure

- On all HI islands, Counties do not own or operate recycling facilities; processing is bid out
- Needed infrastructure includes:
 - Large indoor warehouse to keep loose and baled materials dry
 - Vertical downstroke baler with conveyor and pit feed
 - Skid steers, forklifts
 - Loading dock
- Facility close to port is ideal
- Adequate staffing & ability to market commodities



Recycling

- The County's recycling programs include:
 - **“Kaua'i Recycles” Residential Drop Bins:** Residents and visitors can deposit source separated items at 8 locations throughout Kaua'i. Types of items accepted include: mixed paper, corrugated cardboard, plastics (#1 and #2 bottles and jars only), glass bottles and jars, and household metals.
 - **Commercial Recycling Drop** at Garden Isle Disposal's recycling facility in Līhu'e.
 - **HI5 Beverage Container Redemption:** A 5-cent deposit per beverage container is charged for the purchase of glass, bi-metal, aluminum, and plastic containers defined under the law. A 1 cent non-refundable fee is also assessed. Containers can be redeemed at 6 certified redemption centers, and are subsequently recycled.
 - **Scrap Metal** – accepted at all RTS

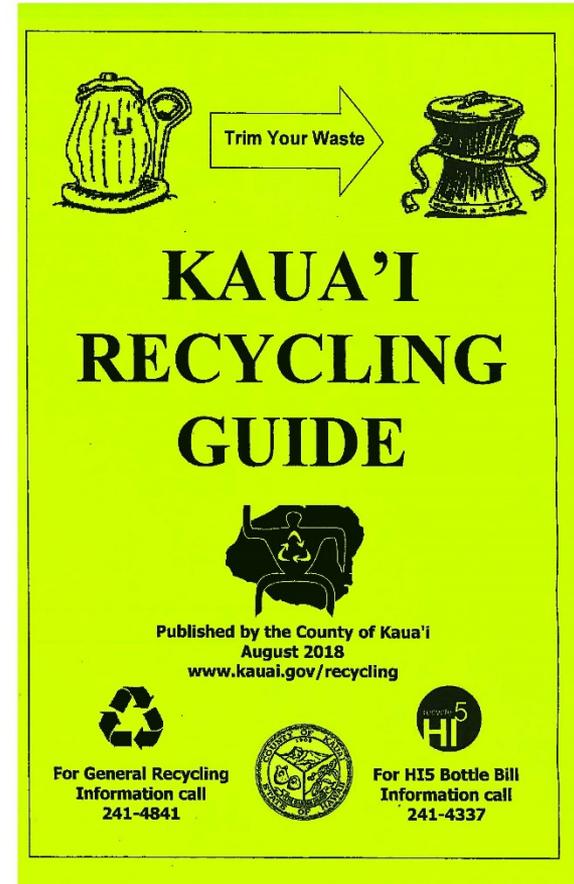


Source: County of Kaua'i Division of Solid Waste.
<https://www.kauai.gov/PublicWorks/SolidWaste>

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Recycling Cont'd

- **Education and Information:** The County's Kaua'i Recycling Guide offers a comprehensive overview of the many recycling programs available on Kaua'i. Additionally, the County provides technical guidance to businesses, information to the tourist industry, and provides materials to residents at events like the County Fair.
- **Grant in Aid:** The County offers grant in aid for certain recycling activities. Programs have changed over the years.



County Ordinances That Promote Reuse and Recycling

- **PAYT:** This variable rate program provides an economic incentive for residents to increase waste diversion and recycling by charging an increased collection rate for larger and multiple container pickup.
- **Plastic Bag Ban:** Reduces the significant impacts of plastic checkout bags by requiring businesses to provide recyclable paper bags or reusable bags instead of single-use plastic bags.
- **Commercial Restrictions at Landfill:** Ordinance 902 restricts commercially-generated cardboard, green waste, and scrap metal from disposal at the Landfill. Each load must contain no more than 10% of any restricted item. This has been very effective in reducing this waste.

Bioconversion

- Green Waste
 - Residents can dispose of source separated green waste free of charge at any of the four transfer stations or at the Landfill. Commercially-generated source separated green waste is subject to a small tip fee.
 - Green waste is shredded into a mulch product for use as ground cover or compost base on-island. Free mulch is available to residents at Hanapēpē Transfer Station.
- Food Waste
 - The County offers free home composting bins to residents.



Source: County of Kaua'i Division of Solid Waste.
<https://www.kauai.gov/PublicWorks/SolidWaste>

Special Waste Management

- **Asbestos-Containing Materials:** Category I and Category II nonfriable asbestos-containing waste materials are accepted at the Landfill. Tip fee higher at \$218 per ton.
- **Agricultural Wastes:** The generator is responsible for management; most agricultural waste is processed through bioconversion at the generation site.
- **Infectious Medical Wastes:** Generators either sterilize the material and transport it to the landfill for disposal, incinerate it on-site, or contract with private companies to transport it off-island.
- **Abandoned and Derelict Vehicles:** Vehicles are accepted at the Puhi Metals Recycling Center and shipped to O'ahu for processing.
- **Sewage Sludge:** Dewatered sludge is sent to the Landfill for disposal.
- **White Goods:** White goods from residents are accepted for free at the Landfill, all RTS except Līhu'e, and Puhi Metals, where all white goods are accepted for recycling. Commercially generated white goods are accepted at Puhi Metals for a fee.

Special Waste Management Cont'd

- **Scrap Tires:** Residential tires are accepted at the transfer stations and the landfill for free under a contract with E & H International who hauls and ships tires off island. Commercial tires are accepted at various locations for a fee. State law requires tire retailers to charge a disposal fee for tires whether or not customer retains tires.
- **Used Motor Oil:** Residential used motor oil and used motor oil filters are accepted for recycling at each of the four transfer stations, plus the landfill. The County also offers motor oil drainer containers free to residents.
- **Lead Acid and Household Batteries:** The County accepts lead acid and household batteries during its semi-annual HHW collection event. Household batteries can also be dropped off at the KRC for recycling. Most auto parts stores will accept used lead acid batteries with the purchase of a new battery.
- **Pressurized Tanks:** Residentially generated propane tanks are accepted at the transfer stations and Puhi Metals for recycling, free of charge. Puhi Metals accepts a variety of commercially generated pressurized tanks for a fee. Acetylene tanks are considered hazardous waste and are not accepted.

Special Waste Management Cont'd

- **Used Cooking Oil:** Kaua'i Grease Traps collects used cooking oil from businesses for recycling into biodiesel fuel. Residents are advised to dispose of used cooking oil by pouring it into a box with absorbent material and placing the box in a garbage bag for curbside pickup.
- **Construction and Demolition (C&D) Materials:** Most C&D materials are delivered to the landfill for disposal. Pacific Concrete Cutting and Coring (PCCC) accepts concrete and asphalt for at a lower tip fee than the landfill, diverting much of the concrete and asphalt debris generated on Kaua'i.
- **Petroleum-Contaminated Soil:** The County accepts petroleum-contaminated soil at the Landfill. The generator is responsible for testing.
- **Dead Animals:** The County accepts dead animals at the Landfill.

Household Hazardous Waste

- The County sponsors semi-annual, two-day Household Hazardous Waste (HHW) collection events for residents to dispose of dangerous, poisonous, toxic, flammable, and other potentially harmful products free of charge
- Commercial and institutional waste is not accepted
- The County contracts with a hazardous materials handling/disposal company to provide collection, packaging, transportation, recycling and disposal services
- No hazardous waste management facilities are currently located in the County, limiting hazardous waste disposal options

A PRODUCT IS HAZARDOUS IF THE LABEL SAYS: CAUTION, WARNING, DANGER, POISON

WHAT DO I DO WITH UNWANTED HOUSEHOLD HAZARDOUS WASTE (HHW)?

Safely dispose of HHW at twice-a-year Residents Only collection events. See below for dates and locations.

YES Take these products to a HHW collection site.

Household Cleaners

Hobby Supplies

Lawn & Garden Products

Automotive Products

Antifreeze

Lead-Acid (Car/Vehicle) Batteries

Oil-based Paints, Thinners & Stains No Latex Paint

Pool & Spa Supplies

Solvents

Flammable Liquids

Mercury-Containing Thermometers, Thermostats, Fluorescent Tubes, Compact Fluorescent Lightbulbs (CFLs)

Alkaline, Lithium & NiCad Batteries

NO These products are not accepted at HHW events.

Call Recycling Office at (808) 241-4841 for other disposal options.

Televisions & Computer Monitors

Latex/Acrylic Paint

Tires

Propane Tanks

Medical Waste or Sharps

Used Motor Oil

Fireworks, Ammunition, Road & Marine Flares

WHERE DO I BRING MY HHW PRODUCTS?***

Saturday, July 22, 8:00 AM to 3:00 PM

- Kapala Transfer Station, 4500 Kalia Road
- Central Kauai Community Park, 21225 Kalanianaʻolaha Hwy

Sunday, July 23, 8:00 AM to 3:00 PM

- Kap. of Res. & Conser., 2460 Maunaloa Road
- Kamehameha Transfer Station, 4380 Kalia Road

***Some areas are still in the process of implementation. For a list of all HHW locations, call Recycling Office at (808) 241-4841 or visit www.kauai.gov/hhw for additional information on HHW.

Electronic Waste

- The HI Electronic Waste and TV Recycling Recovery Law passed in 2010. Requires manufacturers to provide recycling options for devices. County receives an annual grant to run and promote the program.
- Covered electronic devices under the law are computers, printers, monitors, laptops and TV's. The County's program includes all types of eWaste.
- E-Waste is accepted for recycling at the Puhī Metals Recycling Center, free of charge to residents and businesses quantity restrictions
- Monthly eWaste recycling events in Hanapēpē and Kilauea



Kauai recycle your Electronic Waste (eWaste) in an earth-friendly way!



Open to Businesses and Residents for FREE!
All brands of eWaste are accepted with no quantity limits

eWaste is accepted for recycling at the Puhī Metals Recycling Center operated by Resource Recovery Solutions
 Puhī Metals is located at: 3951 Puhī Road, Līhu'e, (at the end of Puhī Road on right side)
 eWaste is accepted Monday through Saturday 7:30 am - 3:30 pm
 Mobile Events on the last Saturday of the month at the Hanapēpē Base yard
 and the last Sunday at the Anaina Hou Community Park from 8:00 AM to 3:00 PM.

Acceptable eWaste Items	Acceptable eWaste Items	Materials Not Accepted
Computers System & Accessories All-in-Ones CPUs CRT Monitors CD-Rom & Hard Drives Hubs Keyboard & Mouse/Trackpads Laptops LCD Displays Optical Drives Servers Switches UPS Systems Wires & Cables	Office Equipment Adding Machines Fax Machines Laminating Machines Photo Copiers Printers Scanners Sarge Protectors Telephones Typewriters Audio & Video Equipment Camcorders Cameras CD's, DVD's & DVD Players Handheld Game Systems LCD Projectors & Screens Overhead Projectors Radios Stereo & Stereo Components No Speakers Televisions and VCR's Video Game Consoles & Accessories	Non-computer Batteries Cardboard Contaminated Equipment Cracked or Broken CRT Screens Household Hazardous Materials Light bulbs Microwaves Paper Smoke Detectors Styrofoam X-ray equipment



All eWaste will be shipped and processed at TRI Center, Fresno, California
 For more info, call the Recycling Office at (808) 241-4841 or see website at www.kauai.gov/ewaste

Public Education

- The County's public education efforts focus on raising public awareness of existing programs, resources, and regulations that promote waste management, source reduction, and recycling practices on Kaua'i
- The cornerstone of this program is the County's website, www.kauai.gov/PublicWorks/SolidWaste
- Other programs and educational materials used by the County include:
 - Direct engagement with residents and businesses through the County Recycling Telephone Line, facility tours, information booths, and public presentations
 - Radio and print media advertisements
 - Brochures, signs, stickers, and other printed material (i.e. Kaua'i Recycling Guide, Image Based Signs)
 - Initiatives targeting schools, the tourist industry, and County employees



Existing Processing and Markets

Please note that the markets continue to change due to contamination restrictions and pricing. The most recent market is listed first after each material.

- Cardboard: Taiwan, Vietnam
- Mixed Paper: Currently seeking market, Korea, Taiwan, Thailand
- DBC Plastic: Malaysia, Indonesia
- HI5 Glass: California
- Non-HI5 Glass: Local markets
- Metals: Asian Market
- Aluminum: China, California, Saudi Arabia

Dropping Revenues for Baled Cardboard

Commodity Revenues FY 2014 – Cardboard (OCC)					
Month	# Tons	Price/Ton	Gross Rev.	Purchased by	Destination
Jul-13	55.91	\$123.00	\$6,876.93	Newport CH Int'l	Shanghai
Aug-13	59.36	\$135.00	\$8,013.60	Newport CH Int'l	Shanghai
Sep-13	56.32	\$138.00	\$7,772.16	Newport CH Int'l	Shanghai
Oct-13	59.51	\$138.00	\$8,212.38	Newport CH Int'l	Shanghai
Nov-13	57.57	\$117.00	\$6,735.69	Newport CH Int'l	Shanghai
Dec-13	57.04	\$116.00	\$6,616.64	Newport CH Int'l	Shanghai
Jan-14	54.88	\$124.00	\$6,805.12	Newport CH Int'l	Shanghai
Feb-14	63.98	\$132.00	\$8,445.36	Newport CH Int'l	Shanghai
Mar-14	51.30	\$114.00	\$5,848.20	Newport CH Int'l	Shanghai
Apr-14	57.17	\$114.00	\$6,517.38	Newport CH Int'l	Shanghai
May-14	58.54	\$108.00	\$6,322.33	Newport CH Int'l	Shanghai
Jun-14	56.57	\$108.00	\$6,109.56	Newport CH Int'l	Shanghai
Total	688.15		\$ 84,275.35		

Commodity Revenues FY 2019 – Cardboard (OCC)					
Month	# Tons	Price/Ton	Gross Rev.	Purchased by	Destination
Jul-18	83.99	\$50.00	\$4,199.50	Newport CH Int'l	Taiwan
Aug-18	109.57	\$68.00	\$7,450.76	Newport CH Int'l	Taiwan
Sep-18	83.63	\$68.00	\$5,686.84	Newport CH Int'l	Taiwan
Oct-18	83.03	\$70.00	\$5,812.10	Newport CH Int'l	Taiwan
Nov-18	55.34	\$70.00	\$3,873.80	Newport CH Int'l	Taiwan
Dec-18	27.45	\$70.00	\$1,921.50	Newport CH Int'l	Taiwan
Jan-19	110.59	\$65.00	\$7,188.35	Newport CH Int'l	Taiwan
Feb-19	55.61	\$50.00	\$2,780.50	Newport CH Int'l	Taiwan
Mar-19	82.42	\$47.00	\$3,873.74	Newport CH Int'l	Taiwan
Apr-19	82.18	\$28.00	\$2,301.04	Newport	Taoyuan, Tawian
May-19	83.23	\$24.00	\$1,997.52	Genesis	Taiwan
Jun-19	54.91	\$24.00	\$1,317.84	Newport	Kaohsiung, Taiwan
Total	966.70		\$ 52,235.99		

Dropping Revenues for Mixed Paper

Commodity Revenues FY 2015 – Mixed Paper					
Month	# Tons	Price/Ton	Gross Rev.	Purchased by	Destination
Jul-13	41.17	\$63.00	\$2,593.71	Newport CH Int.	Ningbo
Aug-13	53.29	\$61.00	\$3,250.69	Newport CH Int.	Ningbo
Sep-13	46.87	\$70.00	\$3,280.90	Newport CH Int.	Ningbo
Oct-13	24.92	\$77.00	\$1,918.84	Newport CH Int.	Ningbo
Nov-13	53.02	\$70.00	\$3,711.40	Newport CH Int.	Ningbo
Dec-13	24.05	\$70.00	\$1,683.50	Newport CH Int.	Ningbo
Jan-14	57.86	\$70.00	\$4,050.20	Newport CH Int.	Ningbo
Feb-14	53.41	\$72.00	\$3,845.52	Newport CH Int.	Ningbo
Mar-14	26.54	\$75.00	\$1,990.50	Newport CH Int.	Ningbo
Apr-14	53.14	\$75.00	\$3,985.50	Newport CH Int.	Ningbo
May-14	37.37	\$74.00	\$2,765.38	Newport CH Int.	Ningbo
Jun-14	51.97	\$70.00	\$3,637.90	Newport CH Int.	Ningbo
Total	523.61		\$ 36,714.04		

Commodity Revenues FY 2019 – Mixed Paper					
Month	# Tons	Price/Ton	Gross Rev.	Purchased by	Destination
Jul-18	55.35	-\$20.00	-\$1,107.00	Newport CH Int.	Taoyuan, Taiwan
Aug-18	50.26	-\$20.00	-\$1,005.20	Newport CH Int.	Taiwan
Sep-18	39.13	-\$15.00	-\$586.95	Newport CH Int.	Taiwan
Oct-18	68.25	-\$35.00	-\$2,388.75	Newport CH Int.	Thailand
Nov-18	27.51	-\$15.00	-\$412.65	Newport CH Int.	Thailand
Dec-18	93.98	-\$20.00	-\$1,879.60	Newport CH Int.	Thailand
Jan-19	81.88	-\$20.00	-\$1,637.60	Newport CH Int.	Thailand
Feb-19	111.18	-\$35.00	-\$3,891.30	Genesis	Taoyuan, Taiwan
Mar-19			\$0.00	Newport CH Int.	Taoyuan, Taiwan
Apr-19			\$0.00	Newport	Taoyuan, Taiwan
May-19	55.25	-\$25.00	-\$1,381.25	Newport	Thailand
Jun-19	54.38	-\$25.00	-\$1,359.50	Newport	Korea
Total	637.17		-\$ 15,649.80		

Dropping Revenues for Plastic

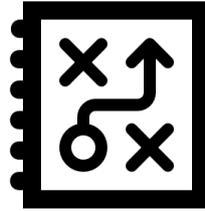
Commodity Revenues FY 2015 – Plastic					
Month	# Tons	Price/Ton	Gross Rev.	Purchased by	Destination
Jul-13	1.64	\$305.00	\$500.20	Belmont Fibers	Hong Kong
Aug-13	1.55	\$330.00	\$511.50	Belmont Fibers	Hong Kong
Sep-13	1.44	\$330.00	\$475.20	Belmont Fibers	Hong Kong
Oct-13	1.34	\$350.00	\$469.00	Belmont Fibers	Hong Kong
Nov-13	1.43	\$365.00	\$521.95	Belmont Fibers	Hong Kong
Dec-13	1.33	\$340.00	\$452.20	Belmont Fibers	Hong Kong
Jan-14	1.80	\$355.00	\$639.00	Belmont Fibers	Hong Kong
Feb-14	2.41	\$355.00	\$855.55	Belmont Fibers	Hong Kong
Mar-14	24.68	355 and 270	\$6,877.80	Newport CH Int'l	Hong Kong
Apr-14	3.26	\$310.00	\$1,010.60	Belmont Fibers	Hong Kong
May-14	24.96	305 and 300	\$7,501.65	Belmont Fibers	Hong Kong
Jun-14	3.50	\$300.00	\$1,050.00	Belmont Fibers	Hong Kong
Total	69.34		\$ 20,864.65		

Commodity Revenues FY 2019 – Plastic					
Month	# Tons	Price/Ton	Gross Rev.	Purchased by	Destination
Jul-18	0.06	\$175.00	\$10.50	Newport CH Int.	Jakarta, Indonesia
Aug-18	0.06	\$155.00	\$9.30	Newport CH Int.	Jakarta, Indonesia
Sep-18			\$0.00		
Oct-18	0.05	\$150.00	\$7.50	Newport CH Int.	Jakarta, Indonesia
Nov-18	0.06	\$70.00	\$4.20	Newport CH Int.	Jakarta, Indonesia
Dec-18	0.06	\$70.00	\$4.20	Newport CH Int.	Jakarta, Indonesia
Jan-19					
Feb-19	0.06	\$70.00	\$4.20	Newport CH Int.	Jakarta, Indonesia
Mar-19	22.70	\$80.00	\$1,816.00	Greenwood	California
Mar-19	0.03	\$70.00	\$2.10	Newport CH Int.	Jakarta, Indonesia
Apr-19	0.06	\$100.00	\$6.00	Newport CH Int.	Taiwan
Jun-19	26.23	-\$70.00	-\$1,836.10	Newport CH Int.	Jakarta, Indonesia
Total	49.43		\$ 41.70		

Breakout Session 2

- Revisit Focus Areas and Options

Next Steps



Mahalo

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December 20, 2019

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