

Monterey Regional Waste Management District *Turning Waste into Resources*



Recycling 101

February 2, 2019

Angela Goebel Public Education & Outreach Specialist agoebel@mrwmd.org

Monterey Regional Waste Management District



Turning Waste into Resources

- 67 Year History (formed in 1951)
- Publicly Owned/Operated
- \$34 Million Operating Budget
- Regional Recycling, Processing & Disposal Facility (470-acre site)
- Landfill: 100+ year capacity
- 143 Employees (40+% Salinas;
 70% Salinas Valley Area)
- 9 Appointed Board Members
- Serving Central Coast Region (Monterey, Santa Cruz, & San Benito Counties)



MRWMD Today - An Integrated Approach

























The Birth of Modern Recycling



Pacific Grove, early 1900s





Sand City, 1920-1955





Carmel-by-the-Sea, 1982





The Birth of Modern Recycling





Plastic China, 2016





renew the urban forest in Salinas. 14

A tree-planting effort aims to

WONTEREY COUNTY



ARTS The Center for Photographic Art widens its lens to cover the globe. 36

WASTE A NEW STATE-OF-THE-ART

FACILITY TAKES THE SORTING AND PROCESSING OF OUR GARBAGE TO THE NEXT LEVEL-JUST AS THE INDUSTRY ENTERS A STATE OF UPHEAVAL. 22 The Monterey Regional Waste Management District has an awesome new facility to process your trash. But there are problems with China, and it's not about Trump.

By David Schmalz

Photos by Nic Coury

APRIL 12-18, 2018

WWW.MONTER EYCOUNTYWEEKLY.COM

LOCAL & INDEPENDENT

No More Plastic Bags In Curbside Recycling Bins

By ERIKA MAHONEY + AUG 15, 2018

Tweet

Share

mail

Google+



As of August 1, plastic bags and other plastic film is no longer accepted as recyclables at the Monterey Regional Waste Management District. Instead, they're going to the landfill.



What to Recycle



coolers, crates, and coat hangers

Plastic Resins

Symbol	Polymer Name		Product Examples
	Polyethylene Terephthalate (PETE or PET)	 Soft drink bottles Water bottles Sports drink bottles Salad dressing bottles Vegetable oil bottles 	 Peanut butter jars Pickle jars Jelly jars Prepared food trays Mouthwash bottles
23 HDPE	High-density Polyethylene (HDPE)	 Milk jugs Juice bottles Yogurt tubs Butter tubs Cereal box liners 	 Shampoo bottles Motor oil bottles Bleach/detergent bottles Household cleaner bottles Grocery bags
<u>ب</u>	Polyvinyl Chloride (PVC or V)	 Clear food packaging Wire/cable insulation Pipes/fittings Siding Flooring 	 Fencing Window frames Shower curtains Lawn chairs Children's toys
	Low-density Polyethylene (LDPE)	 Dry cleaning bags Bread bags Frozen food bags Squeezable bottles Wash bottles 	 Dispensing bottles 6 pack rings Various molded laboratory equipment
وي ا	Polypropylene (PP)	 Ketchup bottles Most yogurt tubs Syrup bottles Bottle caps Straws 	Dishware Medicine bottles Some auto parts Pails Packing tape
és PS	Polystyrene (PS)	 Disposable plates Disposable cutlery Cafeteria trays Meat trays Egg cartons 	 Carry out containers Aspirin bottles CD/video cases Packaging peanuts Other Styrofoam products
OTHER	Other Plastics (OTHER or O)	 3/5 gallon water jugs Citrus juice bottles Plastic lumber Headlight lenses Safety glasses 	 Gas containers Bullet proof materials Acrylic, nylon, polycarbonate Polylactic acid (a bioplastic) Combinations of different plastics

How to Recycle: Best Practices

- Clean, Dry, Empty How clean is clean?
- Place materials loose in your recycle cart
- Bag shredded paper in clear or paper bags
- Flatten bottles and put the caps back on

Common Contaminants

Common Contaminants

Common Contaminants

Contamination Rates in Monterey County

Recycling Characterization, 2018

Recycling Characterization, 2018

Exhibit 26. Seaside Visual Characterization of Residuals by Category

Local Recycling Rates Compared

Materials Recovery Facility (MRF) 1.0

Materials Recovery Facility (MRF) 2.0

Materials Recovery Facility (MRF) 2.0

Materials Recovery Facility (MRF) 2.0

Separates cardboard from paper, containers and fines. Breaks and separates glass.

Air technology separates paper, plastics and other valuable commodities from contaminants.

Optical technology separates plastics: PET, HDPE, Mixed Plastics.

Further separates material by size.

Separates 2D (paper, plastic film) from 3D (containers).

Separates metals from other materials.

Let's Gear Up!

End Markets and Products

End Markets and Products

Ē

Material Type	Destination	What It Becomes
#1 PET Plastic	Georgia	Carpet
#2 HDPE Natural Plastic	California	Resin & flake for remanufacturing
#2 HDPE Colored Plastic	lowa	Industrial Piping
Mixed Rigid Plastics	Taiwan	Molded plastic products
#5 Polypropylene	Alabama / California	Plastic paint cans, packaging
Aluminum	California	Sold to broker
Steel	Sold to US broker	Rebar, car parts
Mixed Paper	Thailand / Indonesia	Boxboard
Cardboard	Vietnam	Linerboard
Shredded Paper	Domestic	Tissue paper
Aluminum Cans & Foil	Pennsylvania	Aluminum roll stock for remanufacturing
Glass	California	Glass bottles, insulation, filter media

Life-Cycle of an Aluminum Can

WhatGoesWhere.info

Recycling is Changing in Monterey County

WhatGoesWhere.info

< Back Battery (disposable)

Special Instructions

Tape the top of 9-volt and 6-volt batteries with spring terminals. Button-cell coin-shaped batteries are NOT accepted.

Type an item

Household Batteries

Place household batteries in a clear Ziploc-type bag and set the bag on top (not inside) of your recycling cart. Batteries accepted curbside include most common household batteries (AA, AAA, C, D, 6-volt, 9-volt, camera batteries, nickel cadmium and lithum ion). Please tape the top of the 9-volt rectangular batteries and 6-volt square-base batteries with spring terminals. Button-cell coin-shaped batteries are NOT accepted.

Set-out Time

All materials must be placed curbside for collection no later than 6 a.m. on your normal collection day.

Drop-off - Household Hazardous Waste

Drop off this item for safe handling.

MRWMD - Household Hazardous Waste Collection Facility

🛯 🚔 1.5 mi · 5 minutes

14202 Del Monte Blvd., Marina · 831-384-5313 · 831-264-6386

WhatGoesWhere.info

Drop-off - Plastic Bags

Don't place plastic bags or liners in recycling container. Instead, many local grocery stores offer recycling drop-off bins by their entrances. Any clean plastic bags accepted, including grocery bags, bread bags, case overwrap, dry cleaning bags, newspaper sleeves, ice bags, wood pellet bags, ziplock & other re-sealable bags, produce bags, bubble wrap, salt bags, and cereal bags. All materials must be clean, dry and free of food residue.

Best Practices: Purchasing Decisions

Best Practices: Close the Loop with Recycled Content

Best Practices: Eliminate Single-Use Disposables

'Single-Use' Is The 2018 Word Of The Year, Collins Dictionary Says

Best Practices: Eliminate Single-Use Disposables

Best Practices: Go Reusable

More Resources at MRWMD.org

Zero Waste Home – Saturday, March 2

RECYCLING 101 = Saturday, Feb 2 = 10-12 ZERO WASTE HOME = Saturday, Mar 2 = 10-12

To Register or for more information: mrwmd.org/upcoming-events or (831) 264-6382

Questions?

Recycling is Changing in Monterey County