



SUSTAINABILITY SERIES

CITY OF LOUISVILLE

UNLOADING THE LANDFILL: RECYCLING + COMPOSTING FORUM

SEPTEMBER 26, 2018

LOUISVILLE LIBRARY, 6:00 - 7:15 PM

UNLOADING THE LANDFILL: RECYCLING + COMPOSTING FORUM

Why divert?

Recycling and composting are fast and cost-effective ways to mitigate climate change.

- Decrease GHG emissions
- Minimize resource extraction
 - Create jobs
- Save water and soil health

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In 2016, Colorado's waste diversion rate was only **19 percent** – well below the national average of 35 percent.

And although Coloradoans value conservation and sustainability, more than 40 percent do not recycle regularly and only 15 counties have composting facilities available for use.

But we're optimistic...

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2005 – Boulder County adopts The Zero Waste Resolution

August 2017 – Colorado Solid Waste and Hazardous Waste
Commission approves statewide waste diversion goals

And we continue to see collaboration between private, public and
non-profits across the state.

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Kate Bailey
Policy and Research Director





BUILDING ZERO WASTE COMMUNITIES

Kate Bailey • kate@ecocycle.org • 303.444.6634



Who is Eco-Cycle?

- Started recycling in CO in 1976
- One of oldest and largest nonprofit recyclers in the world
- 65 employees, \$5 million budget
- International experts



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Brandy Moe
Sourcing Manager



Colorado's Bottle-to-Bottle Glass Recycling Facility



6%

of Colorado's waste glass
recycled before
Momentum's
new facility

23%

of Colorado's waste glass
now being recycled
due to Momentum's
new facility

50%+

is what we can achieve
in Colorado in the
future if we all work
together



www.Colorado.MomentumRecycling.com • (303) 351-5752



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A1ORGANICS.COM

Scott Pexton
Sales & Account Manager

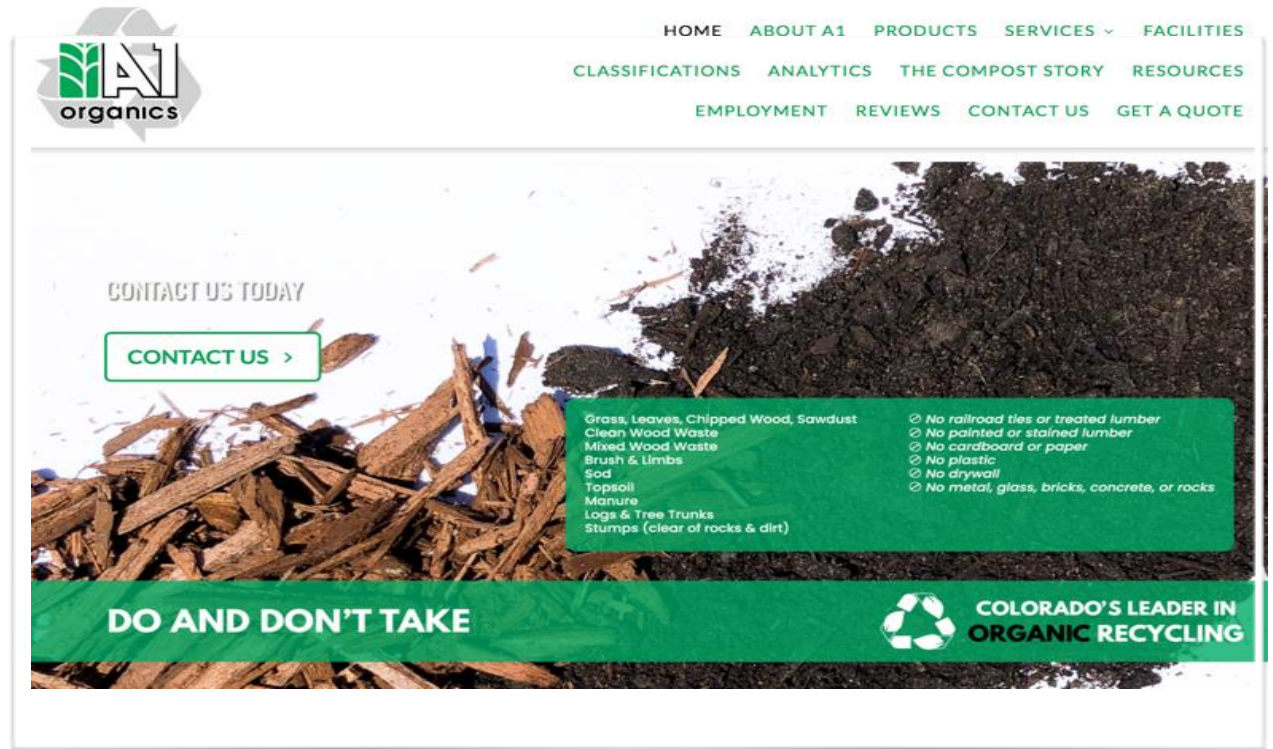


A1 ORGANICS

Sustainable Recycling of Organics

Where to learn about **Compost**?

- [A1ORGANICS.COM](https://www.a1organics.com)
- US COMPOSTING COUNCIL
- COUNTY EXTENSION OFFICE
- EPA

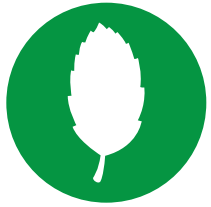


Sustainable



44 YEARS

Recycling



ORGANIC WASTE INTO COMPOST,
MULCH, AND SOIL BLENDS

Organics



THE MATERIAL WE PROCESS



A1ORGANICS.COM

**COLORADO'S LEADER IN
ORGANIC RECYCLING**



BENEFITS OF RECYCLING ORGANICS

Improve Soil with Compost

Beautify Yard with Mulches

Reduced Methane Gas in the air

Organics DIVERTED from Landfills

SOURCE SEPARATED ORGANICS

Wood Waste
Green Waste
Yard Waste
Brewery Waste Residuals
Water Treatment Residuals
Food Waste
Food Mfg Residuals
FOG-Fats Oils Greases
Source Separated Organics



FROM

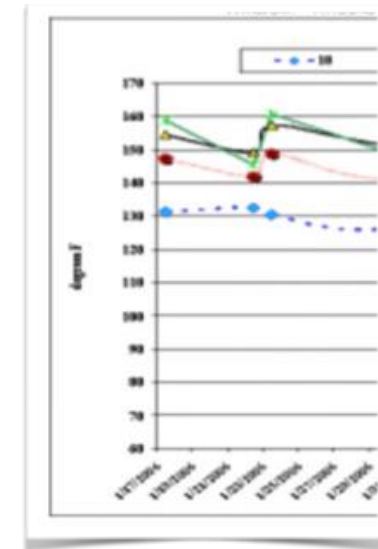
Manufacturing
Construction
Grocery/Restaurant
Transportation
Distribution
Municipal

COMPOST MANUFACTURING



Commercial Composting is a manufacturing process

- It is Planned
- Controlled
- Documented
- Regulated by Federal, State, and Local Governments



A lot of Organics

**A1 ORGANICS
MANAGES 400,000+
TONS OF SOLID
ORGANICS A YEAR**



- Grocery Store
- Restaurant
- Manufacturing Waste





BEER?

**A1 ORGANICS MANAGES
OVER 30 MILLION GALLONS
OF LIQUIDS**

LIQUID TYPES

TREATED GREASE TRAP WASTE

FOOD MANUFACTURING RESIDUALS

LIQUID BREWERY WASTE

DEFILL OF SODA, BEER, AND JUICES

Windrows



Keenesburg, CO
Site



**COLORADO'S LEADER IN
ORGANIC RECYCLING**





A1 ORGANICS

MULCH MANUFACTURING



Kiln Dried Wood

Brush, Limbs, &
Leaves

Manufacturing
Wood Waste



FINISHED MULCH PRODUCT

SECOND CHANCE MULCH DYED NATURALLY IN A VARIETY OF COLORS.



Acceptable Materials For Commercial Composter

- ✓ Bones
- ✓ Cheese, Yogurt
- ✓ Cooked Food
- ✓ Corrugated Boxes
- ✓ Coffee Filters
- ✓ Coffee Grounds
- ✓ Fruit & Salad Trim
- ✓ Egg Shells
- ✓ De-Fill
- ✓ Food Oils
- ✓ Liquids or Sauces
- ✓ Meat, Poultry or Fish
- ✓ Noodles
- ✓ Oils, Fats or Butters
- ✓ Old Bread and Bagels
- ✓ Onion Skins
- ✓ Packaging Plant By-Products
- ✓ Paper Egg Cartons
- ✓ Paper Napkins
- ✓ Plate Scrapings
- ✓ Vegetable Peelings
- ✓ Leaves, Grass, Yard Cuttings

Grass, Leaves, Chipped Wood, Sawdust
Clean Wood Waste
Mixed Wood Waste
Brush & Limbs
Sod
Topsoil
Manure
Logs & Tree Trunks
Stumps (clear of rocks & dirt)

- ⊘ No railroad ties or treated lumber
- ⊘ No painted or stained lumber
- ⊘ No cardboard or paper
- ⊘ No plastic
- ⊘ No drywall
- ⊘ No metal, glass, bricks, concrete, or rocks

DO AND DON'T TAKE



**COLORADO'S LEADER IN
ORGANIC RECYCLING**



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CERTIFIED COMPOST
PREMIUM MULCH
SOIL AMENDMENTS
CUSTOM BLENDS
HARDSCAPES





USCC STA CERTIFIED COMPOST



**COLORADO'S LEADER IN
ORGANIC RECYCLING**

3 RETAIL LOCATIONS IN COLORADO EATON, COMMERCE CITY, ENGLEWOOD

Our compost & mulch can also be found at over 60 supply yards



COMMAND®

TAKE COMMAND® OF YOUR LAWN



DAY 1 TOP DRESSING APPLIED (1/4" per 1000 sqft)



DAY 10 CONTINUED WATERING (Every other day)



DAY 20 CONTINUED WATERING (Every other day)

PROOF IS IN THE RESULTS



**COLORADO'S LEADER IN
ORGANIC RECYCLING**



CONTAMINATION

Organic material has to be “CLEAN” organic waste.

One plastic bag can go from one piece to a million little pieces quickly causing a very challenging contamination problem.

**COLORADO'S LEADER IN
ORGANIC RECYCLING**





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**COLORADO'S LEADER IN
ORGANIC RECYCLING**



- **Certified Compost**
- **Premium Mulch**
- **Soil Amendments**
- **Custom Blends**

WWW.A1ORGANICS.COM
@A1ORGANICS

UNLOADING THE LANDFILL: RECYCLING + COMPOSTING FORUM

Rose Seemann
Owner





In-vessel compost tumbler

- 40 ft. x 8 ft.
- 45 cu. yd./week capacity
- experimenting with large scale dog waste composting





Front Range Collections

- 15 Boulder trail heads
- 8 dog day cares
- 6 dog parks

Approx. 1 ton per month

- Collected and transported by Pet Scoop and private hauler
- Paid for via contracts/ads
- Contractor provides for signage, bins, public information



Colorado's Urban Dog & Cat Waste Trashed Each Year

Cities with
populations
greater than
30,000



to landfills

89,625
tons per year

compare

$$+ \quad \times 37 = 89,445 \text{ tons}$$

Washington Monument
81,120 tons

Statue of Liberty
225 tons



Dogs and cats produce enough poop each year to fill 159 football fields (including end zones) 10 feet deep.



6 weeks

spider plants from rooted plantlets



12 weeks

Front: 30% Doggone Good Compost + 70% peat moss

Back: 30% premium retail compost + 70% peat moss



5 weeks

petunias from seed



10 weeks

Right: 20% Doggone Good Compost + 80% perlite

Left: 20% premium retail compost + 80% perlite

*Carnivore poop and finished compost can carry parasites,
so use caution when handling.
But it is not nuclear waste. Use common sense.*

Compost pet poop as you would compost any green material.

- If you compost for food crops, compost dog waste in a separate pile and use separate equipment.
- If you use all of your DIY compost for landscaping, include dog waste in your pile.
- don't toss bagged pet poop into compost piles

Finished compost should be used only for non-edible landscaping because edibles might be contaminated by compost during harvesting.

UNLOADING THE LANDFILL: RECYCLING + COMPOSTING FORUM

Questions for any of the speakers?

Forum Discussion

- What are barriers to you individually for recycling and composting in Louisville?
- What resources would help you increase your individual diversion rate?

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Forum Discussion

- What would you like to see the City, County and/or State pursue in regards to waste diversion?

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“ The privilege of possessing the earth entails the responsibility of passing it on, the better for our use, not only to immediate posterity, but to the Unknown Future.”

Aldo Leopold