

## Jenna Kay

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**From:** Monica Zazueta <zazuetamonica0813@gmail.com>  
**Sent:** Friday, January 10, 2025 8:01 AM  
**To:** Jenna Kay; Amy Koski; sylvia@mosaicresolutions.com; Dana Hellman; Ben Duncan; Nicole Metildi; Harrison Husting; tlunsford@parametrix.com  
**Subject:** Fwd: poop elevator speech

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(My Signature 😊)

~You must always be willing to truly consider evidence that contradicts your beliefs, and admit the possibility you may be wrong. Intelligence isn't knowing everything, it's the ability to challenge everything you know. Let's all give up our fear as a justification for not to take action because we are the creators of our reality.

Sending healing vibes

Monica Zazueta

Concerned Mum



360-723-7707

Sharing energy,

1.

Doughnut Economics 7 Ways to Think Like a 21st Century Economist  
by Kate Raworth

Free digital copy of the book,

<https://fenix.tecnico.ulisboa.pt/downloadFile/845043405579281/Raworth%20%282017%29%20Doughnut%20Economics.pdf>

2.

29 minute video explaining Doughnut Economics

"How radical ideas can turn into transformative practice. Stockholm impact week 2023"

<https://youtu.be/qwyzsAWRMcw?si=Hut8czYBLqAjOBpb>

3.

Nate Hagens: "Episode 100 - The Great Simplification"

<https://youtu.be/GocuMZX3hIs?si=impadsCjN-aGZzk0>

----- Forwarded message -----

From: **Tina Barrows** <[kittyredxr@gmail.com](mailto:kittyredxr@gmail.com)>

Date: Fri, Apr 26, 2024, 8:50 PM

Subject: poop elevator speech

To: <[zazuetamonica0813@gmail.com](mailto:zazuetamonica0813@gmail.com)>

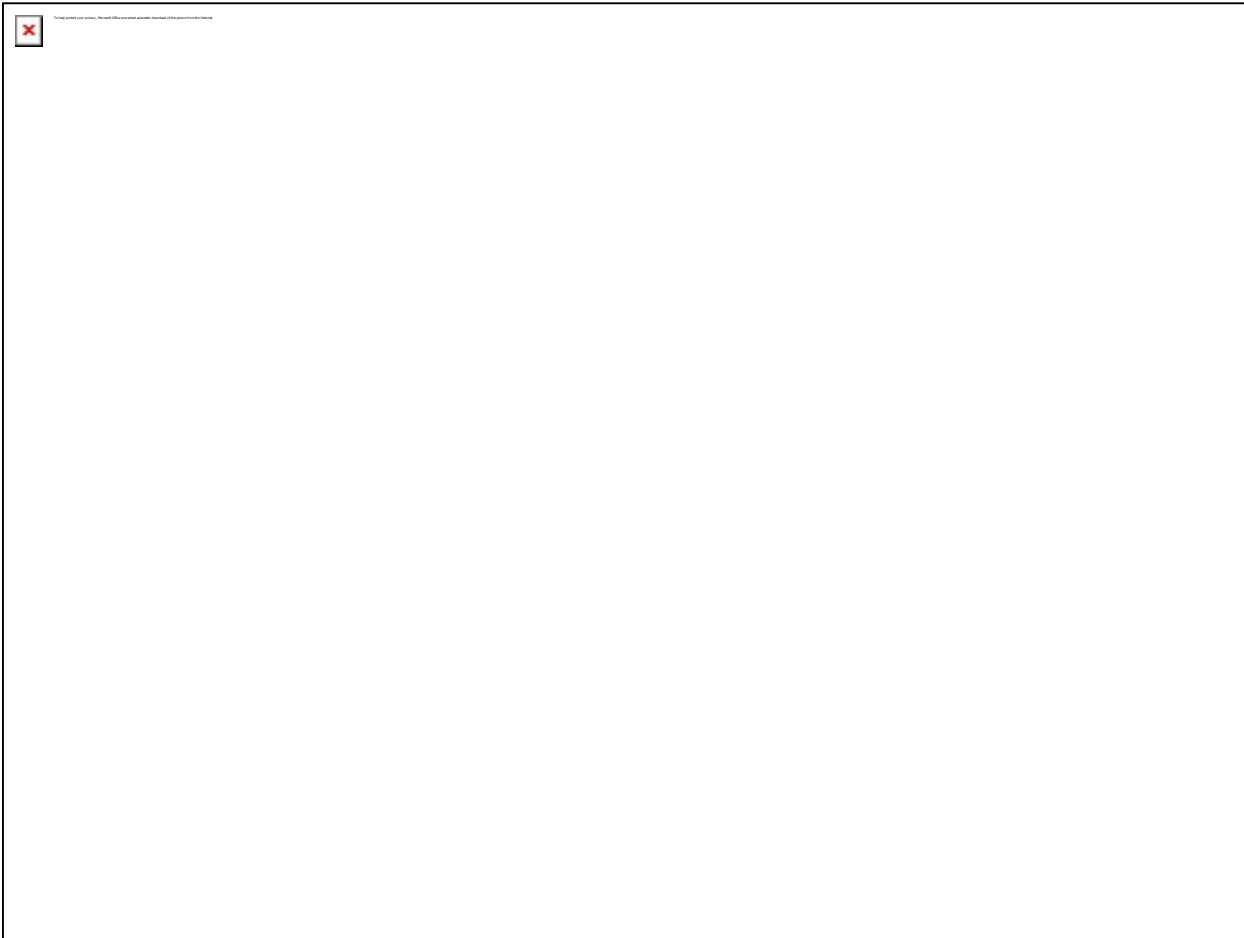
### *Waste Management, Resource Protection and Toilets- why we should consider composting human waste (urine and feces)*

As the climate crisis deepens, we need to be able to rely more on local resources.

Humanure Composting (composting human feces and urine) produces high quality fertilizer for food crops, along with conserving large amounts of drinking water.

#### **Traditional Sewage Systems**

- a. Conventional toilets use valuable drinking water to flush  
(Just to flush feces for Clark County, 1 poop/person/day= approx 1,136,913 gal/day or 414,973,537 gal/year at an average flush volume of 2.2 gal) \*please check my math!\*
- b. Extra effort, energy and chemicals to extract and then sanitize said solid waste at the treatment plant, extracted biosolids are mixed with industrial waste products that also enter the sewage stream

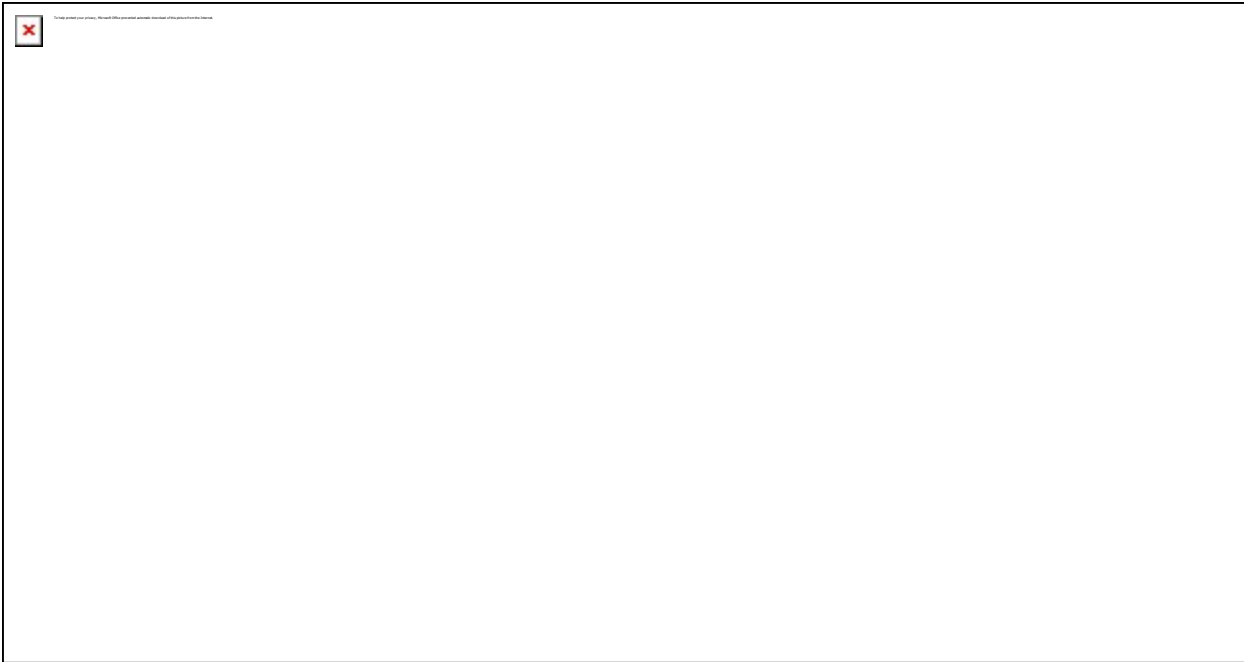


<https://compost-turner.net/composting-technologies/municipal-sludge-composting-treatment-method.html>

- c. Risk of contamination and widespread disease during natural disasters such as flooding or earthquakes (each household should have a 2 bucket system for emergencies- 1 bucket with a toilet seat, one bucket with saw dust as cover material)

### **Human Waste Composting**

- a. Much simpler and efficient process (already being done locally by Nature Commode Porta Potties, some pilot projects for dog waste composting in Lafayette CO and New York State)  
<https://www.lafayetteco.gov/2388/Great-Bark-Dog-Park-Compost-Program>  
<https://bpca.ny.gov/community/bpc-did-you-know-dog-waste-compost-application/>



[https://iris.who.int/bitstream/handle/10665/51328/WHF\\_1990\\_11\(1\)\\_p46-59.pdf?isAllowed=y&sequence=1](https://iris.who.int/bitstream/handle/10665/51328/WHF_1990_11(1)_p46-59.pdf?isAllowed=y&sequence=1)

- b. End product not contaminated with heavy metals/chemicals from with industrial waste, (compared to sludge/biosolids from wastewater treatment plants)
- b. Disaster preparedness (familiarity with 2 bucket toileting system)
- b. No drinking water wasted, extra water could be used for farming/growing food as we experience decreased seasonal water availability
- b. Pet waste does not go to landfill/decreased methane emissions

Yes this is a big change. Made more difficult by our society's germophobia/poop-phobia (this video illustrates it nicely, as well as talking about dog poop composting <https://youtu.be/iSUEYHAYnJg?si=5Sm7Pe1VpQZGr1De>) ) But unless we START NOW to make provisions and create opportunities for change, no change will ever happen. As the climate crisis is upon us already we cannot delay forming new strategies and looking for new solutions. We already have a system in place that collects organic wastes such as yard debris and food waste. Commercial composting facilities can easily and safely reach the high compost temperatures required to kill off any potential pathogens in human and pet waste, rendering it more safe than sewage sludge, with a comparably minimal amount of effort and resources. Human waste could be picked up in sealed 5 gallon buckets similar to the way yard waste already gets collected, and replaced by clean buckets for each household.

The only in depth literature with references on humanure composting readily searchable is below, all chapters are available for free on this website

<https://www.humanurehandbook.com/contents.html>

This is a large step away from societal norms and established 'infrastructure', but we need to move past societal fears and towards a truly sustainable future for our community.