Opening the Greywater Showcase

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7/24/2019

My Aims Tonight



- The Godden Challenge
- How Much Greywater?
- Overview: Greywater Economics
- Reach Codes
- Greywater Ordinance?

The Godden Challenge I

- John Godden visit 4/25
- Presented technologies they're applying in Canada
- Focus on use of greywater for toilet flushing: the Greyter system
- Issued a challenge to Davis…



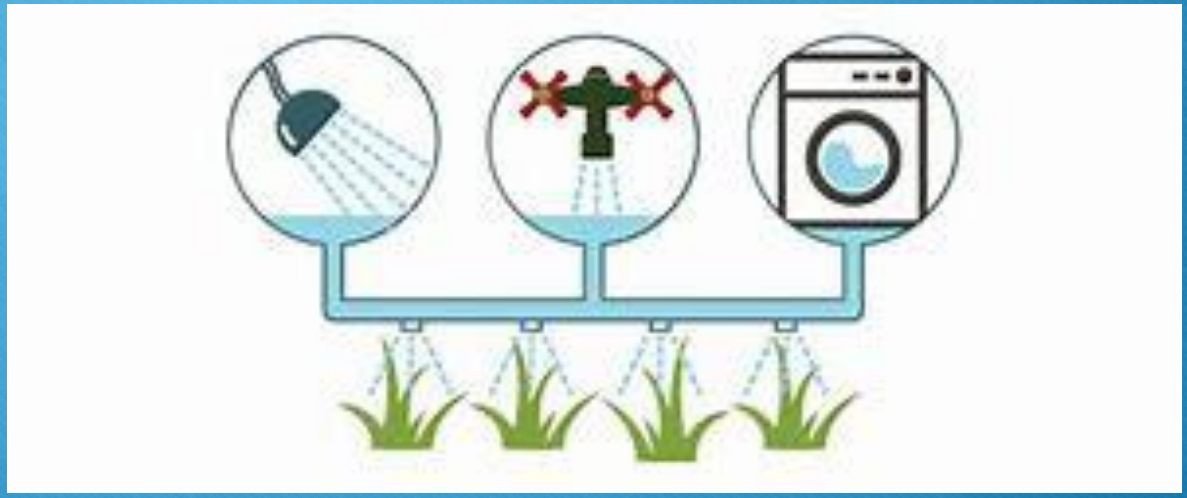
The Godden Challenge II

"In the spirit of the CRESNET Cross Border Challenge, the town of East Gwillimbury would like to extend a friendly challenge to the city of Davis. The challenge is for Davis to build a demonstration home using the HERS energy rating system and HERS H2O water scale to create a platform or checklist to promote the construction of energy efficient, durable and water conserving homes in both localities."



Allowable Greywater Sources

- Tubs and Showers
- Clothes Washers
- Lavatories



Me and My Water



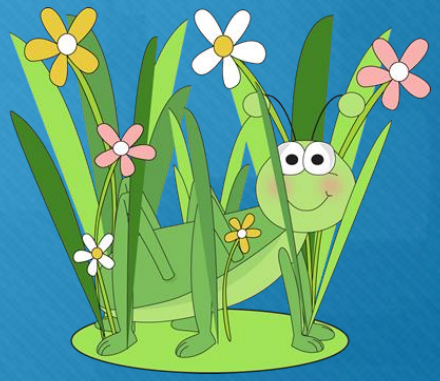
Greywater	Life Gallons	Blackwater	Life Gallons
Shower/Tub	191,000	#1	122,000
Sink	45,000	#2	25,000
Clothes	77,000		
Total	313,000	Total	147,000

Davis Overview

- At 69,000 population and 15 gallons/day greywater each, Davis dumps over a million gallons of greywater per day.
- 3 times my lifetime…more than 1/3 billion gallons/year.
- We could flush all our toilets and grow some grass.

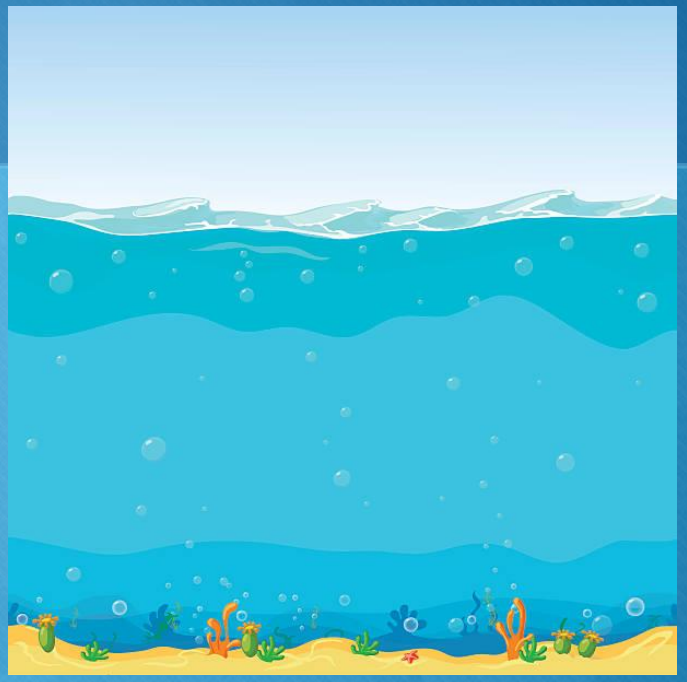






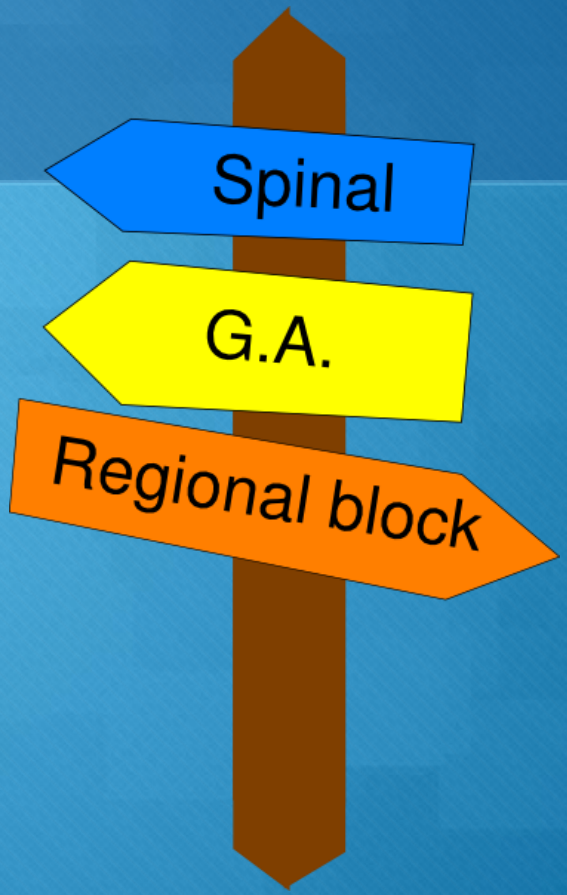
Greywater Economics

- What would my lifetime greywater cost at current Davis rate? ~$2100; $27/yr.
- With 10 year payback threshold, we can only spend $270 to save it all.
- As investors, we would be ”under water.”



What Can We Do?

- Do nothing- rely on “early adopters” –and anticipate slow uptake!
- Raise water rates- very unpopular…
- Offer incentives- from what revenue?
- Mandate it with an ordinance



“Reach Code” Efforts

- Existing City reach codes for energy efficiency
- All-electric residential reach code being developed
- The (DWPC) Decentralized Water Policy Council has a model ordinance for Graywater-Ready Buildings
- Water Wise Davis is developing a greywater “stub-outs” ordinance

