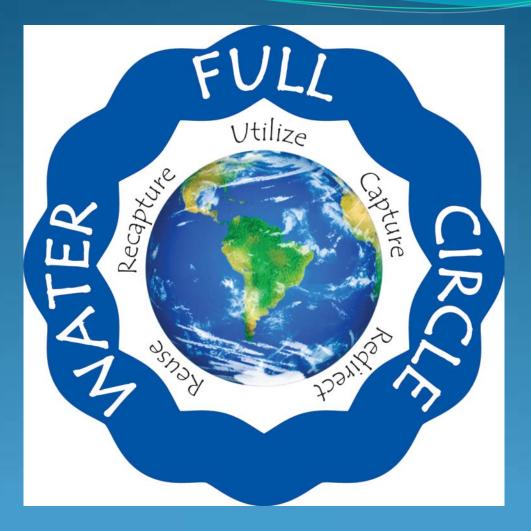
This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





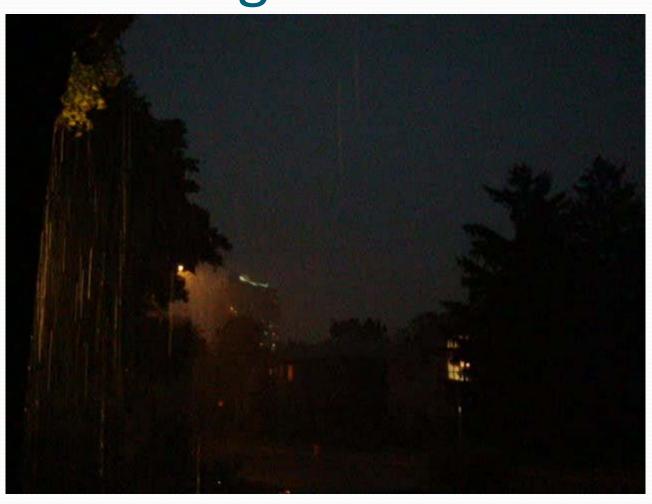
Lorne Haveruk
DH Water Management
lorne@dhwatermgmt.com

Full Circle Water

- Utilize
- Capture
- Redirect
- Reuse
- Recapture



Utilize – design to hold water



How much rain?

- How many baths can you get from this rainstorm?
- 2 inches of rain
- 75' x 195' lot
- 18,234 gallons (US)
- 2,438 cubic feet
- 40 gallon bath
- 456 baths
- Where does the water go once used one time?



Capture – excess trap in tank(s)



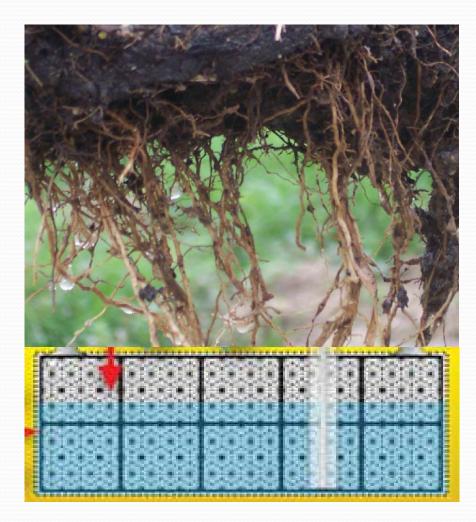
Redirect – for what use?

- Shower
- Bath
- Laundry
- Outdoor water features, cleaning
- Toilet and urinal flushing
- Irrigation
- Others?

Redirect - point source irrigation



Collect infiltration water



Reuse



Recapture – back to tank



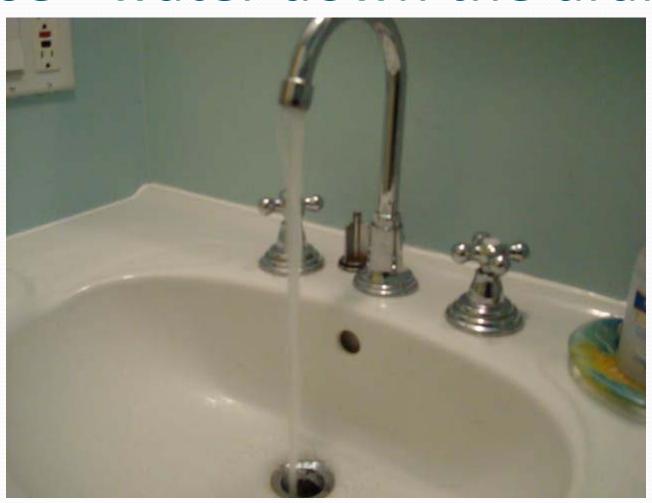
Full Circle Rainwater



Utilize – graywater

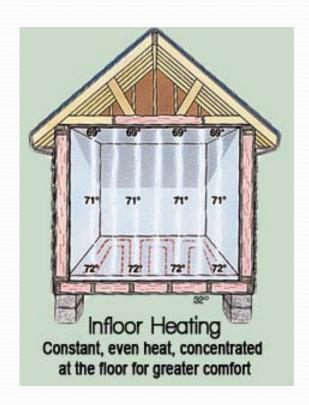
- Bathroom Sink
- Shower
- Bath
- Laundry
- Dishwasher

Reuse - water down the drain



Cooling & Heating

 In floor piping system that can carry cool water in summer and hot water in winter



Recapture – smaller tank

- Use frequently
- Always generated– works withoutrain



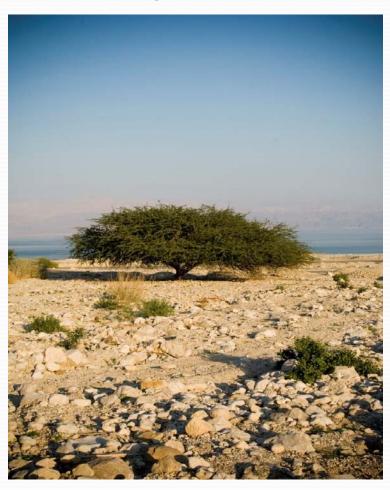


Utilize – toilet flushing

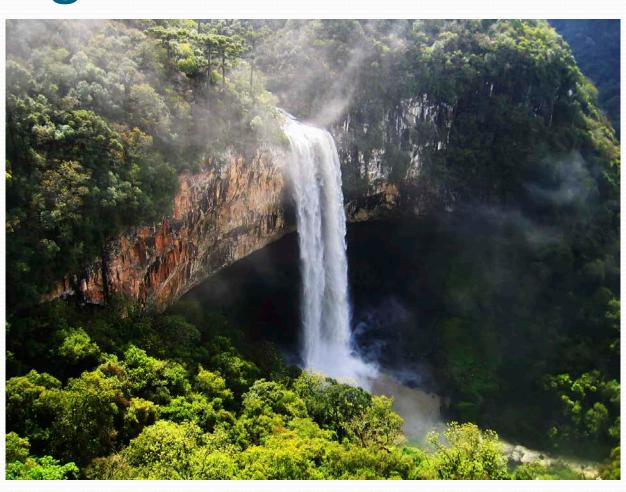
- Dual plumbing system required – gray in – black out
- Offsite for treatment
- Return for irrigation, toilet flushing and other uses
- Full Circle Water



Stay the same path = disaster



Paradigm Shift = Water for all



Challenge

- How many times can you reuse your water?
- How many baths can you get?
- Challenge = 5 times or more for the same water
- Outdoor (3 or more times) indoor (filtered) laundry to toilet) – offsite – returned for irrigation and toilet

Full Circle Water For now & future generations

