

This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



Don't Dig Grey Water Ready?

You shouldn't have to!



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Grey water: Good. Digging holes: Bad



- Make grey water adoption feasible, not just possible
- Eliminate objections to retrofits
- Decrease overall cost of grey water
- Boost rates of adoption

FLAVOR 1: Stub Outs for single fixtures



- Simple and effective
- Cheaper installation costs
- Manually controlled and operated
- Limited to untreated reuse only

FLAVOR 2: Dual Plumbing



- Consolidate grey water at one location
- Part of home infrastructure
- Enables automatic distribution
- Facilitates treatment systems

Which is best?
Beauty is in the eye of the beholder



STUB OUTS



Great for enthusiasts

DUAL PLUMBING



Convenience makes it a winner

Dual Plumbing is clearly a better solution for most, but....



2005: Canberra, Australia

- 'Greywater ready' mandated
- All new homes to have dual plumbing
- All new homes to have reuse line to toilets and laundry
- Grey water treatment still rare

There are barriers to utilization



PROBLEM 1: You're in the dark... How will you know?



DOES THIS HAVE DUAL PLUMBING?



OR DOES THIS?

PROBLEM 2: This house has dual plumbing



but it is located here!



PROBLEM 3: It's still not simple... and it all costs more money!



ELEVATION C-C

EXIST'G 3" COMBINED WATER TO BUILDING FIRE
WATER SYSTEMS #2 FROM AMSTERDAM AVENUE

NEW PLAN APPROVALS....

DOUBLE CHECK DETECTOR
ASSEMBLY FIBRO 856 DODA 3"
8" MIN. CLEARANCE FROM BACK
SIDE OF DEVICE TO ANY WALL
FOR INSTALLATION



REMOVE FENCES.....



RE-LANDSCAPE...



DIG BY HAND...

**DESTROY THE SIDE
YARD...**



SOLUTION: Turn 'Dual Plumbing' into 'Recycle Ready'



Include Tanks at construction:

- Raw collection
- Clean water reuse

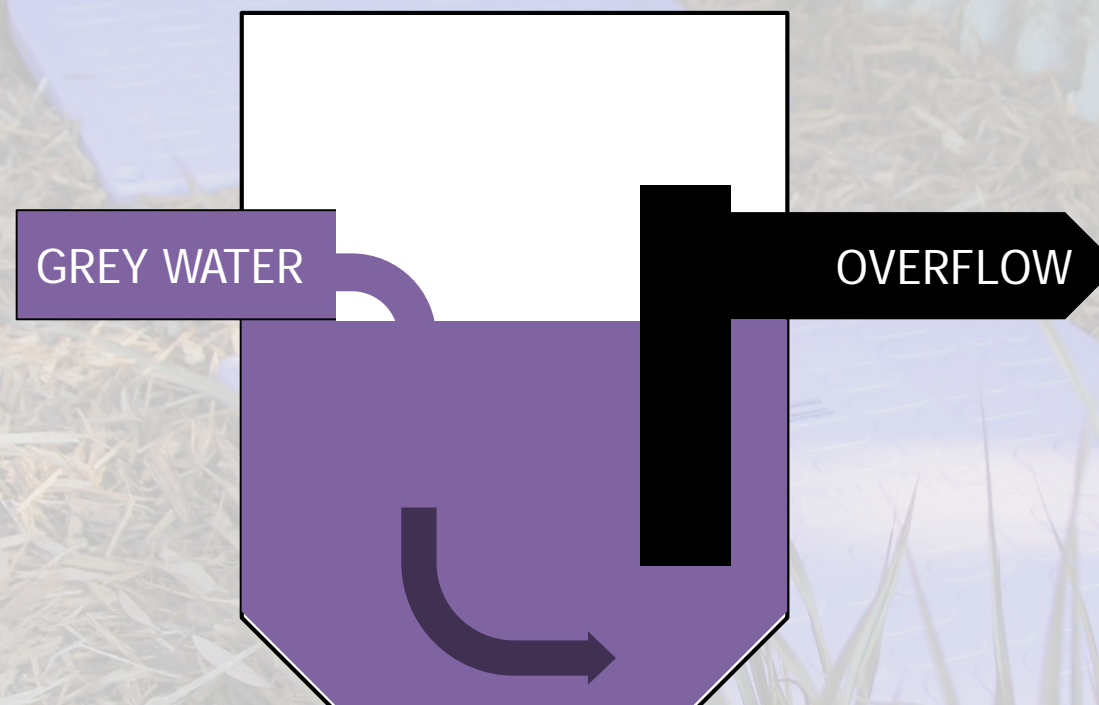
Tanks remain 'Dormant'

Standardize Connections

NO DIGGING UP GARDENS LATER!

"Dormant"?

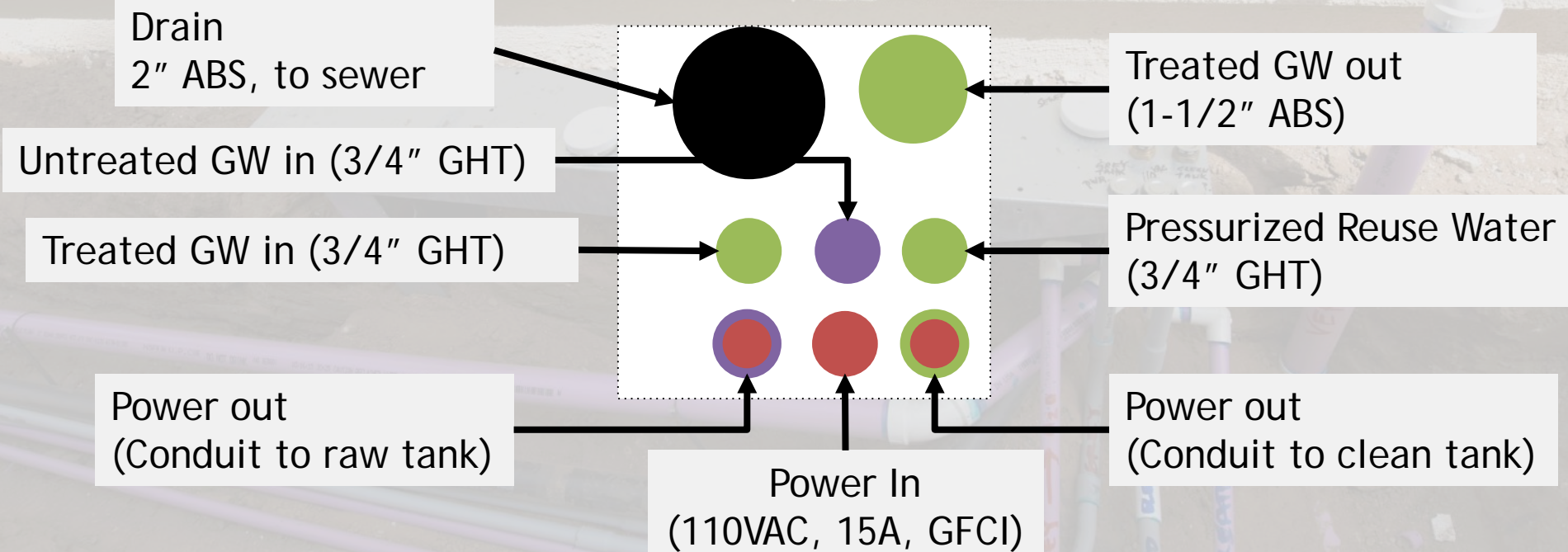
- Passive diversion to sewer at time of construction
- Pipe removed to activate system at a later stage



Industry Standards....



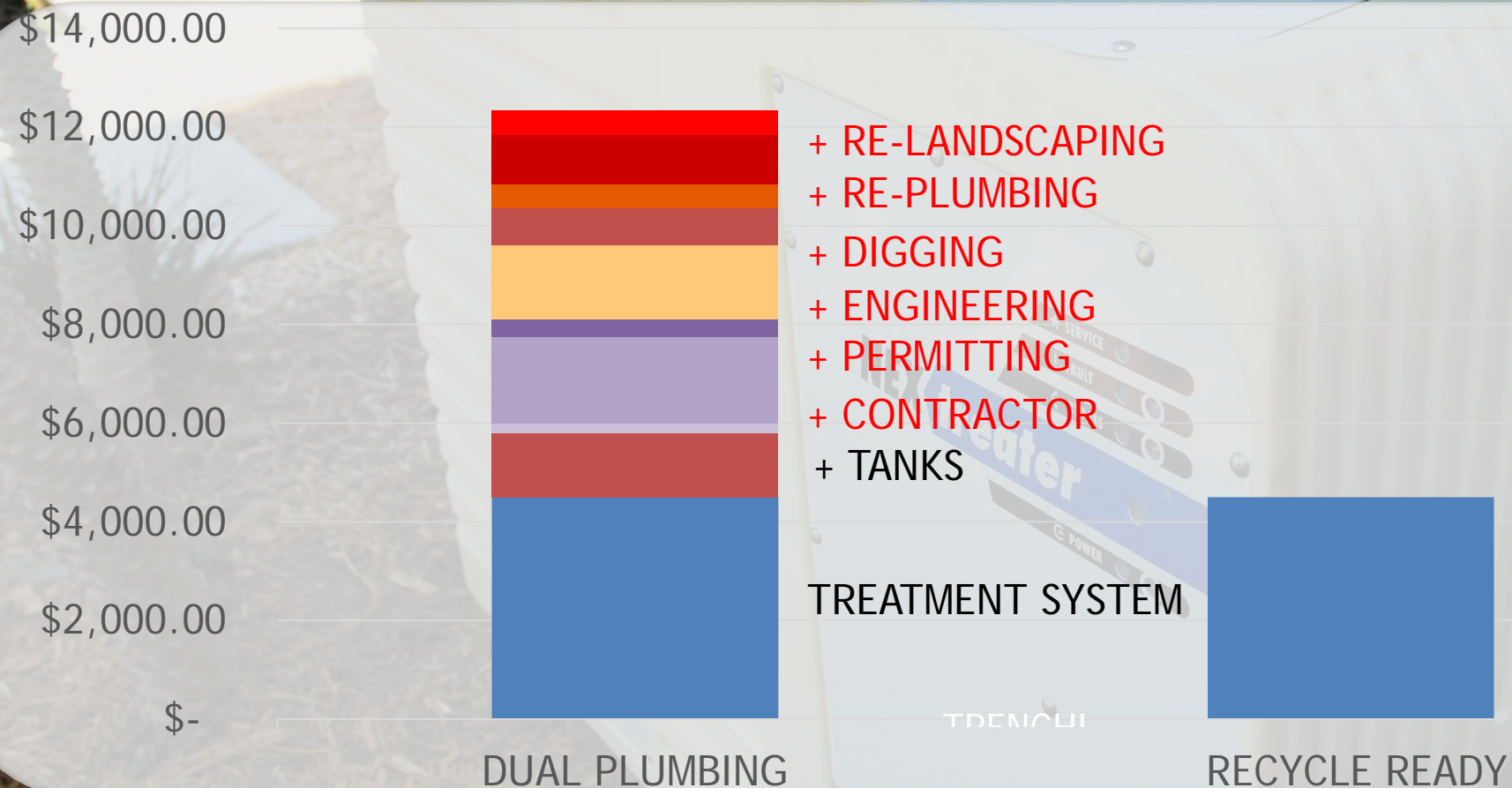
Grey Water Connection Template



Costs during Construction



Costs after Construction



Overall Cost to Homeowner

