

Austin Water and Graywater Working Group Joint Briefing

April 25, 2013

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Austin Water Conservation Division Manager

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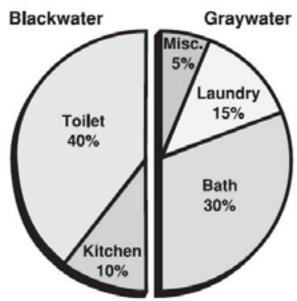
Graywater Working Group



What is Graywater?

Untreated wastewater from bathtubs, showers, lavatories and laundry

- Benefits:
 - Potential savings of 40-90 gpd
 - Sustainable onsite water reuse
 - Reduces pressure on wastewater infrastructure
 - Reliable source for irrigation during drought





Graywater Obstacles

- Design requirements increased system costs
- Backflow protection and annual inspections required
- Unclear where to find information about City processes
- Most technical information buried in 533-page code
- Only one residential graywater system permitted within Austin



Background

- Council Resolution #20120126-047
- Identify impediments to single-family graywater implementation and make recommendations on alleviating those impediments
 - Code amendments
 - 2. Permitting process
 - 3. Technical guidance
 - 4. Staff support
- Memos to Council on July 2, 2012 and March 29, 2013



Graywater Working Group

- 14 stakeholder meetings March 2012 through March 2013
- Focus on identifying and understanding impediments
- Subgroups addressed permitting, technical design
 & outreach

External Stakeholders

Lauren Ross (Glenrose Engineering)

Paige Hill (Urban Patchwork)

Gayle Borst (Design-Build-Live/Stewardship Inc.)

Rebecca Batchelder (Glenrose Engineering)

Kirby Fry (Southern Exposure)

Chris Maxwell-Gaines (Innovative Water Solutions)

Amanda Van Epps (UT PhD Candidate)

Karen Ascot (Sierra Club)

Internal Stakeholders

Austin Water

Austin Energy Green Building

Planning and Development Review

Watershed Protection

Health and Human Services

Office of Sustainability

Law Department



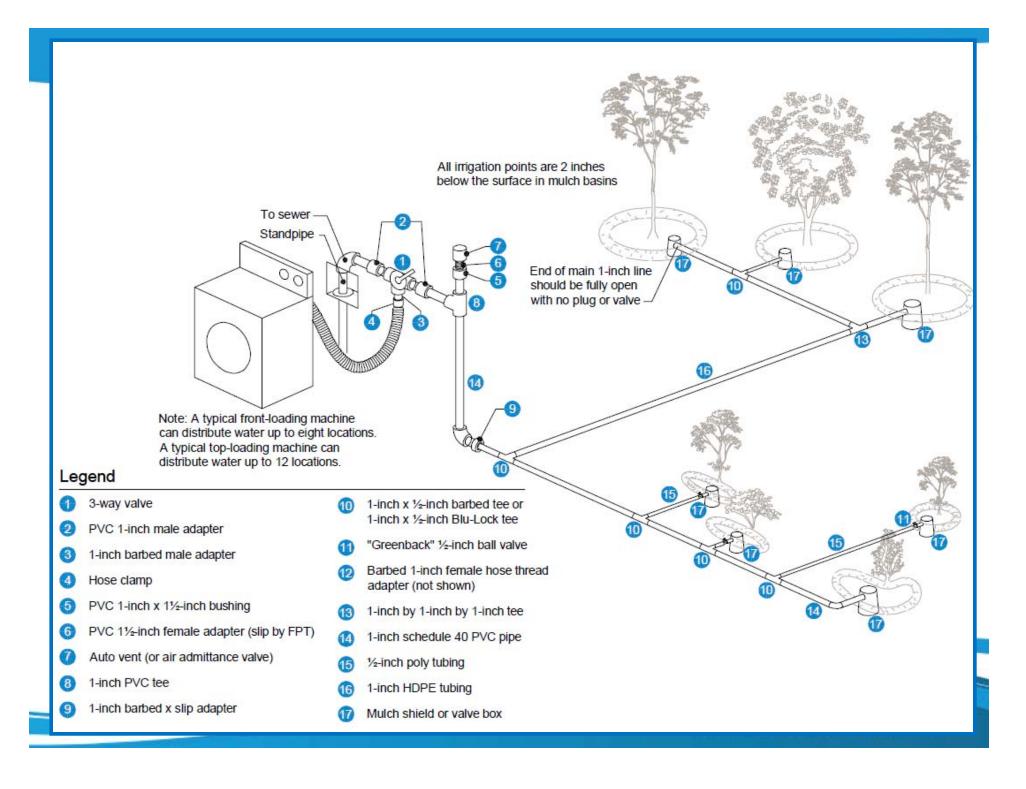
Impediments & Permitting

- Identified 7 technical impediments to graywater use
 - Recommended addressing through adoption of 2012 Uniform Plumbing Code and Local Amendments
- Identified 6 process and information-related impediments
 - Developing one-stop permit process for auxiliary water
 - Coordinating information through Austin Water's Conservation Division
 - Planning for additional outreach and education components



2012 Uniform Plumbing Code

- Proposed changes address design requirements
 - Allows single-zone distribution
 - Changes materials allowed in leach field
 - Reduces required depth of piping
- Gravity based systems under 250 gpd:
 - No backflow protection required at meter
 - Reduces number of inspections
 - Allows homeowner design and permitting
- Allows Laundry to Landscape system





Auxiliary Water Permit

- "Work Type" of Plumbing Permit
 - Check-box based form identifying water type and use
 - Does not add cost to existing required plumbing permit
 - In testing phase with a tentative release date in May

Benefits

- One Stop Shop staff will alert all affected departments
- Informs customer of requirements at start of process
- Expedites permitting approval across departments



Outreach and Education

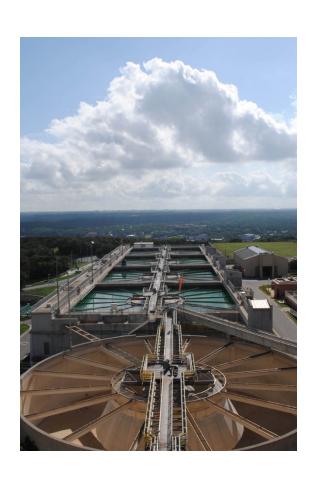
- Managed by Austin Water Conservation Division
- By July 2013
 - Develop central webpage ("portal")
 - Post updated "Frequently Asked Questions"
 - Add conservation contacts to 311 database
- By December 2013
 - Create technical guidance document
 - Develop curriculum for installation workshop
 - Involve stakeholders in development and review of materials



Additional Next Steps

- Broaden focus to include all auxiliary waters & customer sectors
- Complete Auxiliary Water Study by end of FY13
 - Review national, state and local regulations
 - Analyze public heath risks
 - Recommend possible ordinance changes
- Evaluate auxiliary water costs and possible incentives in light of study results





Questions?



Backup slides

	Current	Proposed 2012 Language (MPSB)
Laundry to Landscape Systems (L2L)		
Gravity-flow, ≤ 60gpd		
RPZ Required?	Not separately addressed in current UPC	No
Inspections Required?		Initial or alteration, plus cross-connection inspection within 1 year at no charge
Who can design?		Anyone
Homestead permit allowed?		Yes
Release point depth		2" below grade
Tank Required?		No
Gravity-flow graywater systems ≤ 250 gpc	<u> </u>	
(all sources, including sinks/showers)	<u>.</u>	
RPZ Required?	No	No
Inspections Required?	Annual CSI	Initial or alteration, plus cross-connection inspection within 1 year at no charge
Who can design?	Licensed/Registered	Anyone
Homestead permit allowed?	No	Yes
Release point depth	18" below grade	2" below grade
Tank Required?	Yes	Yes
Pump-assisted graywater systems, any siz	re	
RPZ Required?	Yes	Yes
Inspections Required?	Annual BPAT & CSI	Annual BPAT & CSI
Who can design?	Licensed/Registered	Licensed/Registered ≥ 250 Anyone < 250
Homestead permit allowed?	No	No
Release point depth	18" below grade	2" below grade

GPCD from 1990 to 2012

