Objective:
• Design and Install non-seasonal Greywater System at the South Co-Op
• Meet all City and State Requirements

Greywater:
By Oregon Law, greywater is defined as water produced from hand washing sinks, showers, and washing machines.

The Team:
Brittany Park, Dennis Petersen, and Jon Isaacs

Water source
• Hand washing sinks
• Rainwater

Water Sink
• Toilet

Average of 810 Costumers/day

Toilet Use
• 15% of costumers use the restroom
• About 100 gal/day water needed to flush toilets

Hand Washing Sink Use
• Greywater from sinks can produce 31% (31 gal/day) of toilet water

Rainwater

Required Work
• Construct system housing
• Permit approval for housing
• Controls
• Outreach

Accomplishments
• Gained access to plumbing through outer wall
• Compiled water inventory and produced water consumption model
• Repaired break in sewer line and installed tee fitting for Brac overflow
• Obtained three city plumbing permits for greywater system.
Installed Brac System and Sump

The Filter
• IAPMO Certified and approved by the State of Oregon
• Automated valve system
• Automated chlorination
• Backflow prevention
• Pump and greywater storage tank
• Overflow valve
• Mesh filter

Permitting
• Oregon legalized greywater recycle in 2008
• Greywater legislature (OPSC 08-01 through OPSC 08-04)
• Filed and received plumbing permits for both Brac and Rainwater tank
• Filed a flood plane development application

Picture Gallery

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