

Greywater Alliance Roundtable

November 18th, 2010

What have we learned and where are we going?

Presentations by:

Laura Allen (Greywater Alliance)

Sherry Bryan (Central Coast Graywater Alliance)

Juliet Christian-Smith (Pacific Institute)

Brainstorm on solutions to current barriers for
widespread GW reuse

1 Year Accomplishments (post code change)

Thank you to everyone who sent in the information to make this presentation possible!

A few disclaimers:

- *Greywater Alliance takes responsibility for any errors or misrepresentations of the activities listed.*
- *This is a snapshot of statewide greywater activity- it is not exhaustive in any way! The information was collected through networks of Greywater Action, Wholly H2O, and attendees of Greywater Roundtables.*

L2L = “laundry to landscape” most common type
of permit exempt system

GW = “greywater water”

Humboldt County



Arcata- L2L and branched drain system installations. Educational workshops.

- **Redway-** L2L workshop and demo project

- **Garberville-** “Water Day” educational event on water solutions, including greywater to protect local watersheds and salmon creeks

- **Humboldt County Environmental Health-** Dialogue on how to make permitting streamlined and cheaper, the current process is cost prohibitive to most people.



Shasta County



- Workshop and installation of greywater systems at the Winnumum Wintu Tribal Ranch

Butte County



- **Chico-** L2L system installed, article about greywater in local paper.



Calaveras County



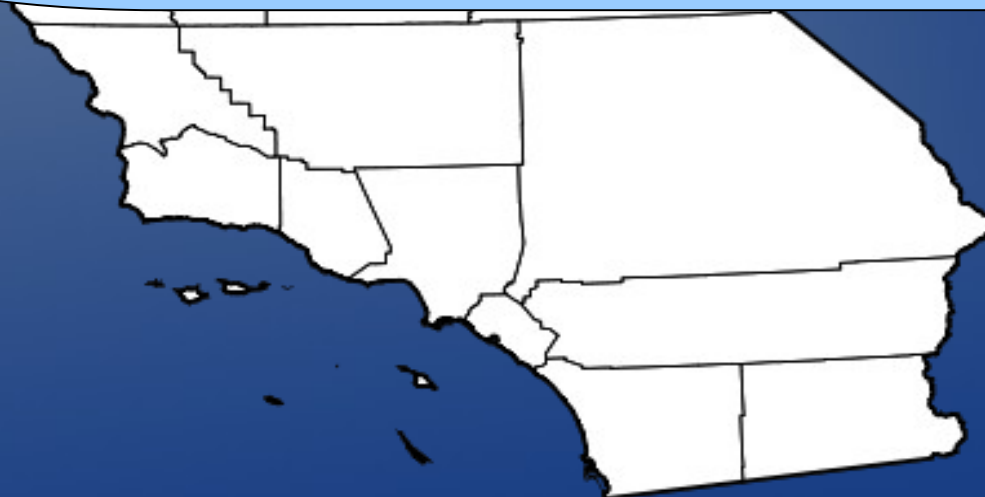
EBMUD- Mokulumne River Watershed Headquarters installing a permitted greywater system



El Dorado County



Placerville- Greywater public forum, table at Earth Day
Greywater Task Force advocating for local greywater support and inclusion in Transition Town solutions



Mendocino County



- **Willits-** City of Willits water conservation dept. hosted training for homeowners and local installers, provides free parts for L2L systems, permit form for gravity systems.
- **Ukiah-** [Water Conservation tour visits permitted system.](#)
- **Redwood Valley-** Water district hosts water event with greywater presentations



Sonoma County



- **Santa Rosa-** City rebate program for greywater systems, upcoming 2-day training.
- **Rohnert Park-** Location of 2-day greywater training
- **Occidental-** Greywater trainings and installs at Occidental Arts and Ecology Center
- **Petaluma-** City supported greywater installers training (Daily Acts and Greywater Action), professional installations, Northbay Watershed Assos. Conference- talk on GW.
- Graywater Working Group and County Permitting Agency create pamphlet
- Sonoma County Water Agency's Energy Independence Program offers "loans" for greywater systems

Marin County



Novato- L2L workshop, installations (with rebate from water district), educational event at Rotary Club.

- **Mill Valley-** High school students build system at their school.

- **San Anselmo-** L2L workshop and installation

- **Fairfax-** L2L installations

- Marin Water district board candidate (Frank Egger) proposes greywater (and more) instead of desalination

- **North Marin Water District** creates rebate.

San Francisco County



San Francisco- SFPUC 1) GW Design Guidelines manual

2) Incentives for L2L parts

3) Research study on GW characteristics for large-scale indoor reuse

- **San Francisco- L2L installations, workshops, presentations at local branch libraries**
- Permit for simple branched drain system (permitting form created- will be released with Design Guidelines)

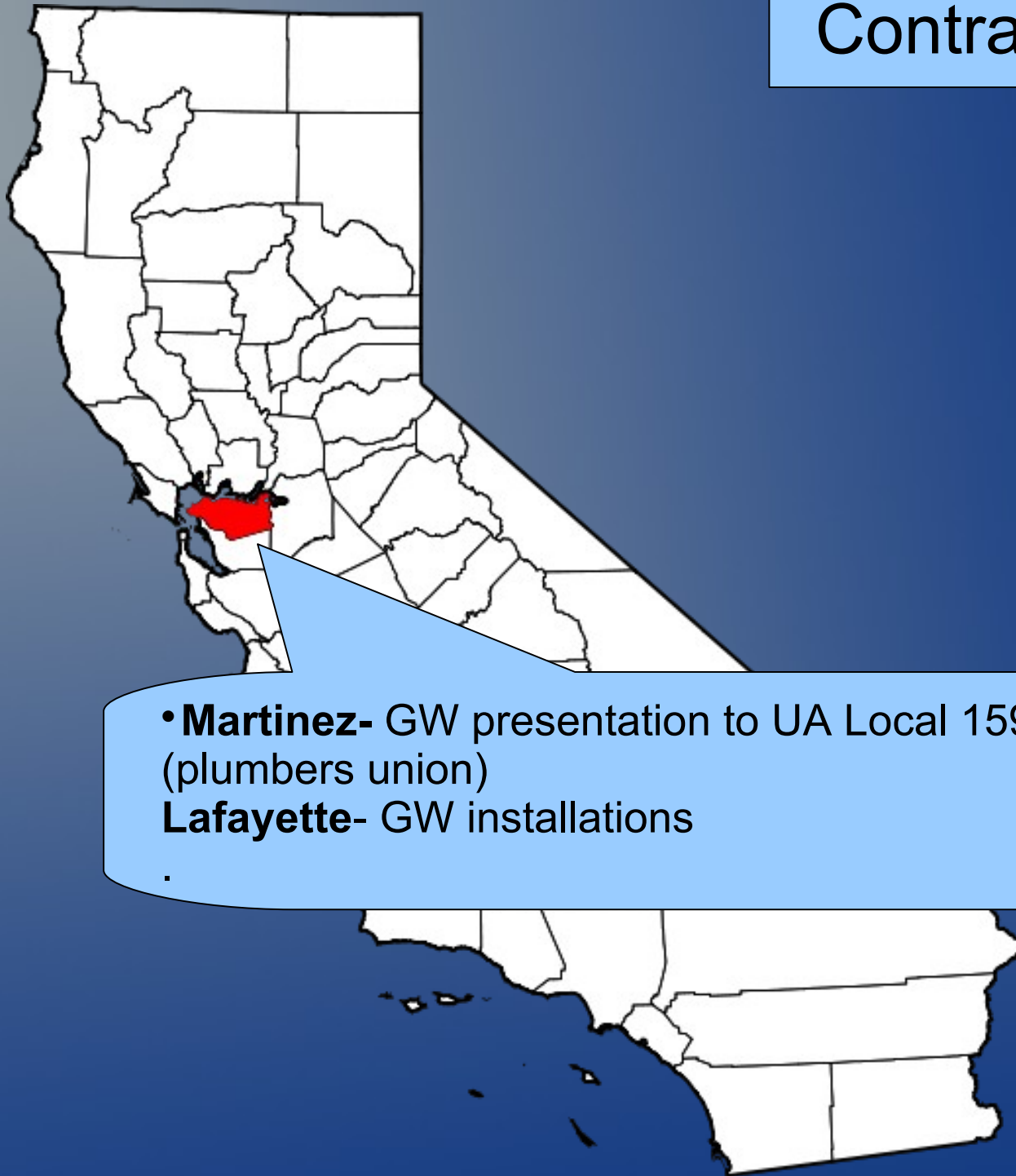
Alameda County



Oakland- Permitting department creates simple permit application (with Greywater Alliance), permitted system installed using application

- City hosts greywater education booth at Earth Expo
- Trainings and workshops (1 day, 5 day),
- Bay Friendly Landscape Training includes greywater.
- Park Day School installs greywater stubouts- in process of installing/permitting system
- Merrit college has greywater class
- Greywater Alliance holds roundtable discussion
- **Berkeley-** Permitted systems, L2L systems, trainings, Build it Green hosts greywater Event, City produces greywater pamphlet
- **Hayward-** System installed with permit (required engineer stamp)
- **Fremont-** L2L system installed
- **Laney College Green Jobs Program-** in class, and hands-on installation trainings

Contra Costa County



- **Martinez-** GW presentation to UA Local 159 (plumbers union)
- Lafayette-** GW installations

Sacramento County



- **Sacramento-** L2L workshop and installation.
- **Davis-** City creates hand-out. L2L systems installed.
- **Fair Oaks-** \$86 permit from county (for a permitted system).

San Mateo County



- Redwood City-** San Mateo County Green Bag Lunch Series hosts greywater talk
Redwood City building department hosts greywater talk.
- **San Mateo Green Jobs Corps-** hosts greywater training for students

Santa Clara County



San Jose- San Jose State student group hosts greywater talk.
L2L systems installed, workshops.

Santa Clara- Building Official (ICC Peninsula Chap) meeting hosts greywater talk.

Palo Alto- GBA Plumbing contractors Code Luncheon Seminar hosts greywater talk.
Permitted systems installed in city.

Mountain View-Google Tech Talk on greywater. GW systems installed

Santa Cruz County



Santa Cruz- Central Coast Graywater Alliance met quarterly.
Training program (Ecology Action), L2L and branched drain systems installed,
L2L workshops, experimental permit for Aqua2Use system
Soquel Water District- Rebate for greywater systems

Monterrey County

Monterrey Peninsula Water Management District- Greywater rebate program, hosted greywater educational events

Salinas- Greywater training program at adult ed school (Ecology Action)

Marina-Over the counter permit (\$84) for branched drain systems

Monterrey- GW systems installed



San Luis Obispo County



Atascadero- Atascadero Mutual Water Company- Incentives for greywater, Sponsors hands-on training (with Greywater Action)

- **San Luis Obispo-** L2L Installations
- **Moro Bay-** L2L Installations



Santa Barbara County

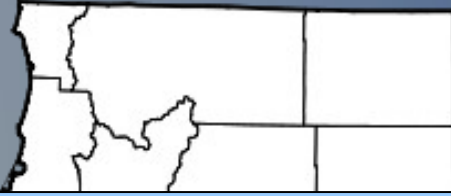


Santa Barbara- City host greywater workshop for professionals, offers rebates for system components.

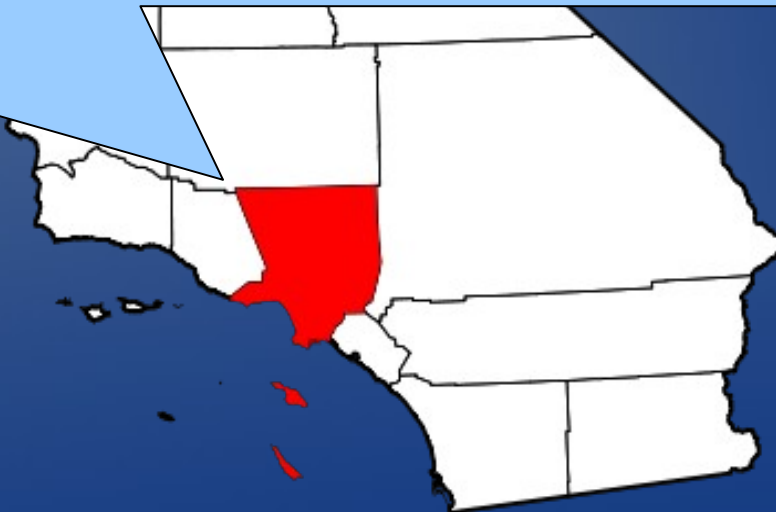
- **Goleta-** Offers rebates for system components (part of water wise landscape rebate)



Los Angeles County



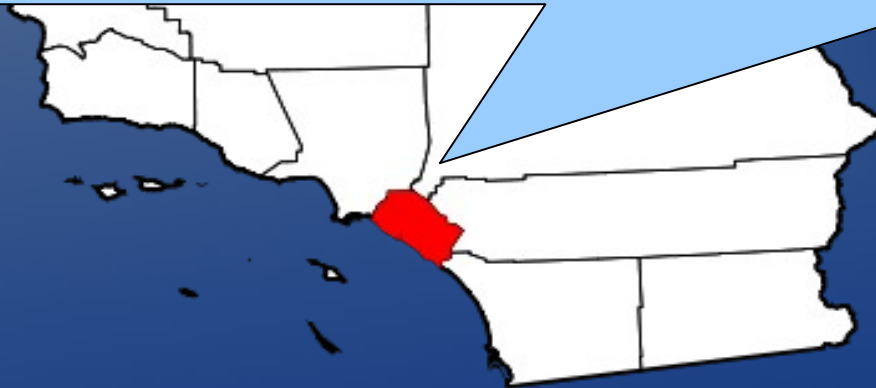
- Los Angeles-** Permits for branched drain, commercial system installed, Dozens of other system installations (L2L). 5-day training held at LA EcoVillage (*Greywater Action*). LA Times article on sustainable living- greywater system wins best choice. Workshops and education (*CA Greywater Corps*). GW system backed with rainwater (reported 'prohibitively expensive permit- went through b/c it was at a movie stars house')
- **Santa Monica**-GW backed with rainwater system, LEED platinum building (*Rewater*)
 - **Beverly Hills**- Permitted system.
 - **California Landscape Contractors Association** has greywater panel at conference.



Orange County



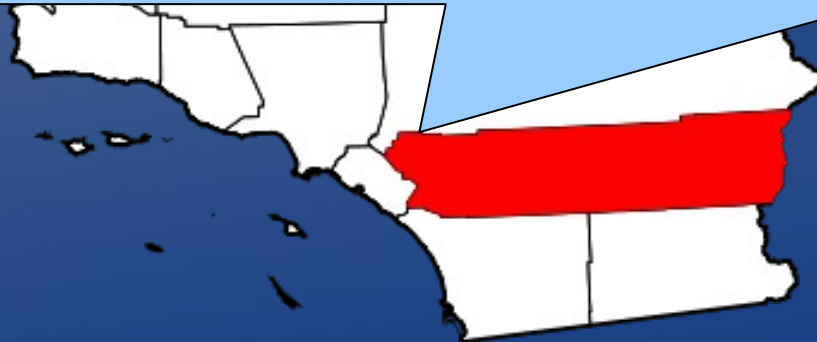
- **Costa Mesa**- Permit for a commercial indoor greywater
(Water Recycling Systems)



Riverside County



Riverside- Environmental Health Directors Conference has panel on greywater reuse



San Bernardino County



Ontario- IAPMO's Emerging Technologies Symposium- presentation on greywater and goldwater (*Greywater Action*)



San Diego County



- San Diego-** L2L systems installed, permit for pumped Aqua2Use, permit for ReWater
- **Imperial Beach-** permit for ReWater system
 - **Camp Pendleton-** Permit for 1st greywater system at a US marine base



Missed Opportunities

Areas with overly complex or expensive permitting process- discourage legal reuse of greywater.

- Double or more permit requirements (Building permit + Plumbing permit + more)

Example: Santa Cruz (\$320- 2 departments), Santa Monica (\$500- 4 departments)

- Areas requiring additional expensive information

Example:

- San Diego requiring evidence of groundwater table from a geotechnical report or registered design professional. (Above code requirements)
- Los Angeles requiring \$14,000 for compliance for a recent permit ABOVE code requirements

Information compiled by Laura Allen

For details or to contact someone representing a
project email:

laura@greywateraction.org

or

info@greywateralliance.org