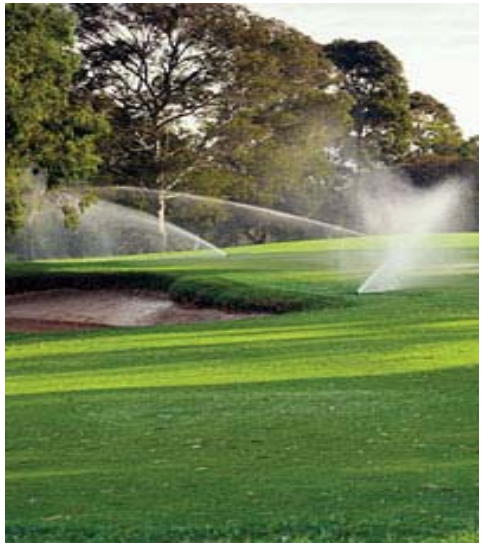
City of Brentwood Residential Recycled Water Fill Station Program

THE CITY OF BRENTWOOD

HERITAGE • VISION • OPPORTUNITY

What is Recycled Water and What are it's Uses?

Recycled water is wastewater that has received extensive treatment so it can be used for many non-potable uses such as landscape irrigation, dust control, food crop irrigation, decorative fountains, toilet flushing and much more.



Recycled Water is NOT Suitable For?

- Drinking
- Cooking
- Bathing or showering
- Filling swimming pools or spas
- Children's water toys
- Plumbing it to the household domestic system
- Discharging to the street gutter or storm drain system

When Using Recycled Water

- Do not play with or drink recycled water
- Do not spray recycled water onto potable water fixtures or food handling areas
- If you must dispose of recycled water either discharge it to a landscape area or to the sanitary sewer via an onsite cleanout

Health and Safety Guidelines

- After recycled water reuse:
  - Use hand sanitizer; or
  - Wash hands with soap and potable water
- May use recycled water to water vegetable and fruit bearing plants
  - Wash vegetables/fruits with potable water prior to cooking or consuming
- For cuts or abrasions:
  - Promptly wash with potable water
  - Disinfect and bandage
- All equipment (hoses, spray nozzles, containers, etc.) that comes into contact with recycled water shall be:
  - Dedicated for use <u>only</u> with recycled water
  - Equipment shall not be re-connected to a potable water system unless it has been disinfected with bleach and potable water

Procedures for Pick Up of Recycled Water

1. Must submit the Water Use Application and Agreement
2. Receive training from City staff
3. Place stickers on ALL recycled water transport and storage containers
4. You may <u>only</u> collect recycled water during Residential Fill Station operating hours, which are:
   - Monday - Friday: 8:00 a.m. - 7:00 p.m.
     Saturday - Sunday: 8:00 a.m. - 6:00 p.m.
   - Closed: Day of and Day after Measurable Rainfall
     All City-observed Holidays
   - **Hours are subject to change**
5. Show your City issued "Approved User" ID card with your personal ID

   <u>NO PERSONAL ID + NO APPROVED USER CARD = NO WATER</u>

While Collecting Recycled Water

- Children 12 and under need to stay in vehicle while onsite
- Wait patiently for the attendant if you need assistance
- Wait patiently in line if Fill Station is busy

Residential Recycled Water Container Guidelines

- How much recycled water can I pickup at one time?
  - 300 gallons
- Consider your vehicle's maximum load capacity
  - Water weighs 8.34 lbs/gallon
  - 100 gallons = 834 pounds
  - Failure to comply with your vehicles maximum load ratings from the manufacturer will be the sole responsibility of the user.
- Containers must have water-tight lids and shall not leak
- Secure container(s) for safe transport
- Containers shall not be used to carry potable water unless thoroughly cleaned and disinfected

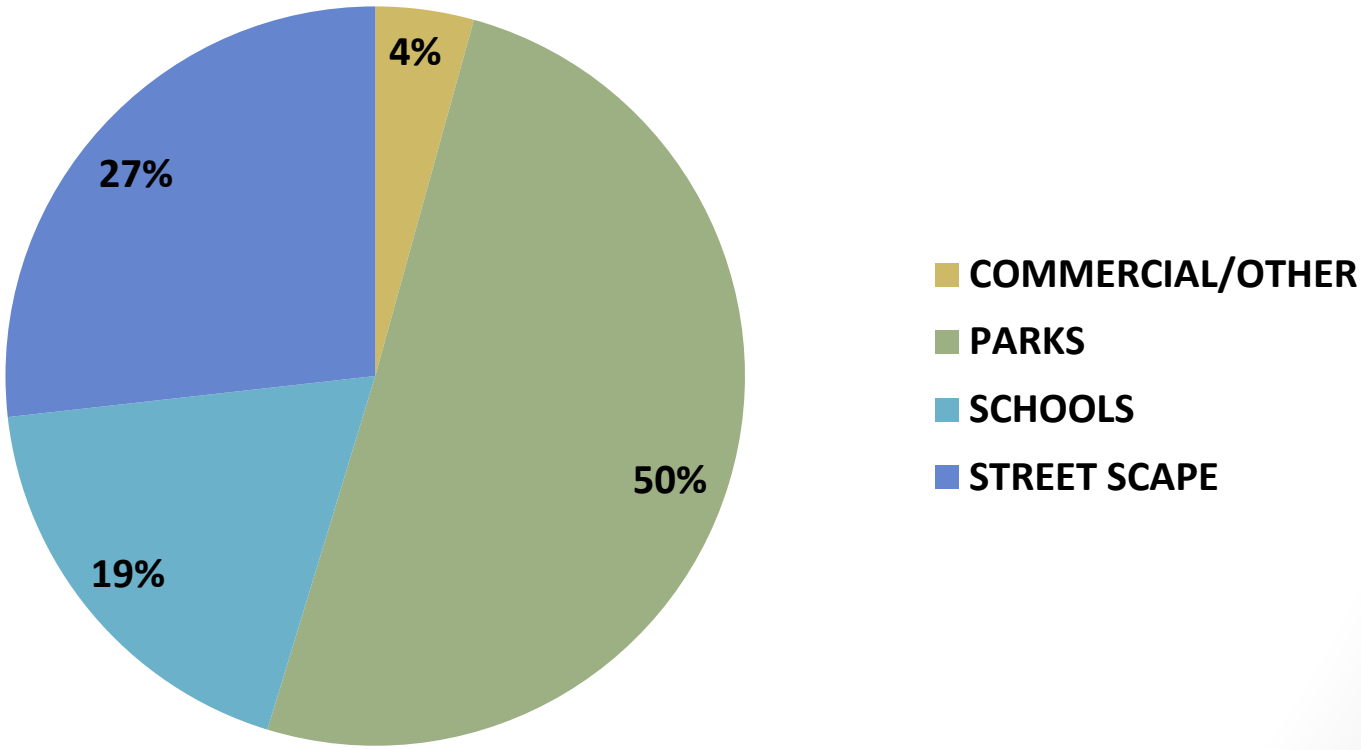
Constituents in Recycled Water vs. Potable Water – 2012 Data

COMPOUNDS (Unit)	RECYCLED WATER	POTABLE WATER
Nitrate as N (mg/L)	6.3 – 13.0	Non-Detect
Nitrite as N (mg/L)	<0.1	Non-Detect
Ammonia as N (mg/L)	<0.1 – 0.2	N/A
Chloride (mg/L)	357 – 431	59 – 280
Boron (mg/L)	0.72 – 1.00	1.2 – 1.9
Potassium (mg/L)	25.0 – 27.9	2.1 – 5.4
Sodium (mg/L)	240 - 290	58 – 180
Total Coliform Bacteria (MPN) *	< 1 - 5	DoDW Requirement <5% monthly samples are positive (No positives for Ecoli)

*** Recycled Water total coliform organisms shall not exceed:**

1. **Median value 2.2 MPN/100 ml within last seven days;**
2. **Maximum value of 23 MPN/100 ml in more than one sample in any 30 day period;**
3. **No sample shall exceed 240 MPN/100 ml**

Brentwood's 2014 Recycled Water Consumption Percentages by Use Type



Recycled Water Use Milestones

- **1912**
  Irrigation of Golden Gate Park in San Francisco with secondary effluent

- **1998**
  Monterey County began irrigation with reclaimed water including 12,000 acres of vegetables such as lettuce, strawberries, cauliflower, broccoli, artichokes, celery and fennel. The vegetables continue to be irrigated with reclaimed water

- **2004**
  The City of Brentwood delivers recycled water to its first recycled water use customer: City of Brentwood Sunset Sports Complex

- **2005**
  Florida Department of Environmental Protection's "Water Reuse: Regulatory and Safety Perspectives" report indicates Florida has 40 years of reuse with no illness.

Contact Information:

Casey Wichert
Wastewater Operations Manager
cwichert@brentwoodca.gov
(925) 516-6060