

Climate Solutions

for Long Beach, CA



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Aquarium of the Pacific

#ResilientLB Outreach Booth



What do you LOVE most about Long Beach?



What can WE do to PROTECT what we Love?



Becoming RESILIENT





One of the largest cities in California has a plan to drastically lower its temperature

But cooling things down presents its own set of challenges.

MOTHERJONES.COM

January 2018

Extreme Heat – Actions



Even In Breezy Long Beach, School Isn't Cool Without AC

Sixty percent of campuses in the Long Beach School district will get AC soon, but most classrooms at Prisk Elementary will have to wait until 2025 to cool off.

LOSANGELES.CBSLOCAL.COM

August 30, 2017

stay cool, hydrated & informed.

#BeatTheHeat



Jacaranda Trees along the 3600 Block of Petaluma Ave,
in Long Beach, CA



OC Register, May 16, 2014

EXTREME HEAT ADVISORY

FIND YOUR LOCAL
COOLING CENTER





Guide for Establishing Drought Tolerant Trees

Guía para Establecer Árboles Tolerante de Sequía

Months 1-6
1-6 Meses

**Water inside
basin**
*Dentro de la
cuenca de riego*



Months 6-12+
6-12+ Meses



Water outside basin
Regar fuera de la cuenca



5 gallons per watering
5 galóns cada riego

Month 1
1 Mes

Water twice a week
Regar dos veces a la semana

Months 2-3
2-3 Meses

Water every week
Regar cada semana

Months 4-8
4-8 Meses

Water every two weeks
Regar cada dos semanas

Months 9-12
9-12 Meses

Water every 2 to 4 weeks
Regar cada 2 a 4 semanas

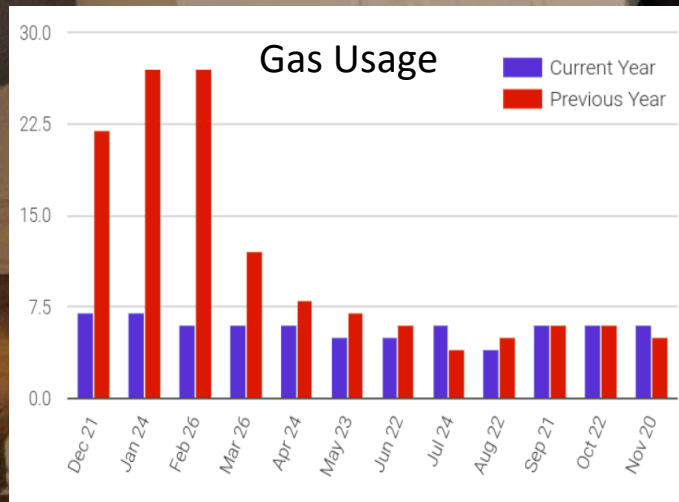
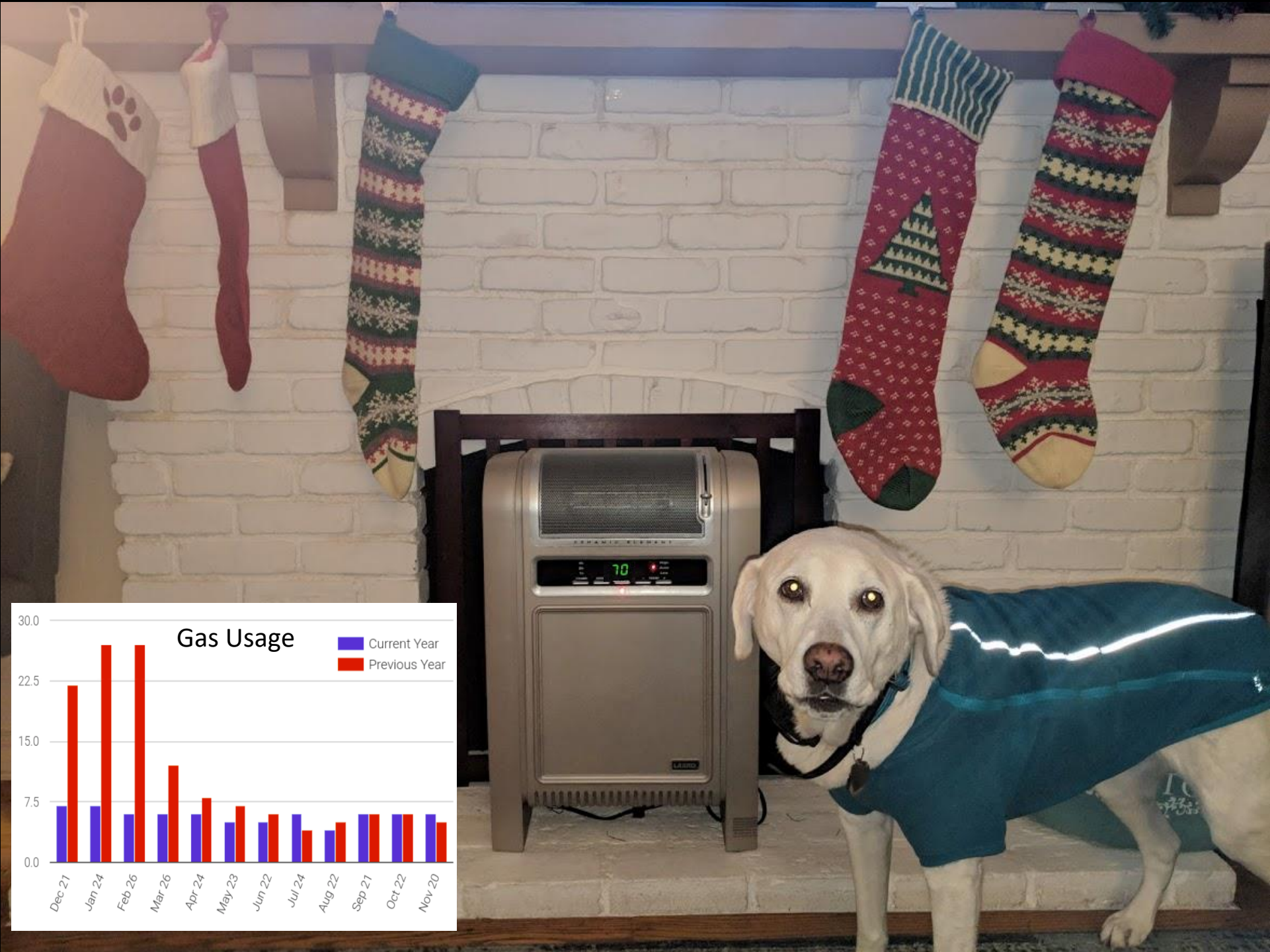


**Removable
Window Film**



Black-out curtains







10-3-2017



Original Attic

10-15-2017



**Replaced insulation with
R-30 Batt Insulation**

**Finished with a layer
of Radiant Barrier**



10-22-2017

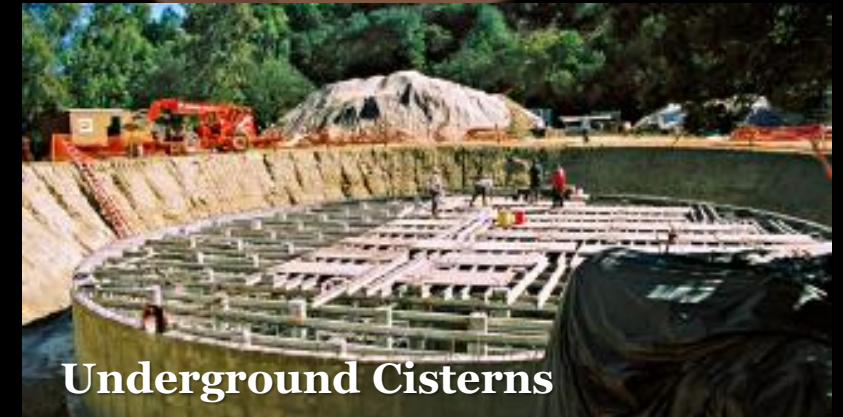
**Added a perpendicular 2nd
layer of R-30 Insulation**



10-20-2017

Drought – Actions

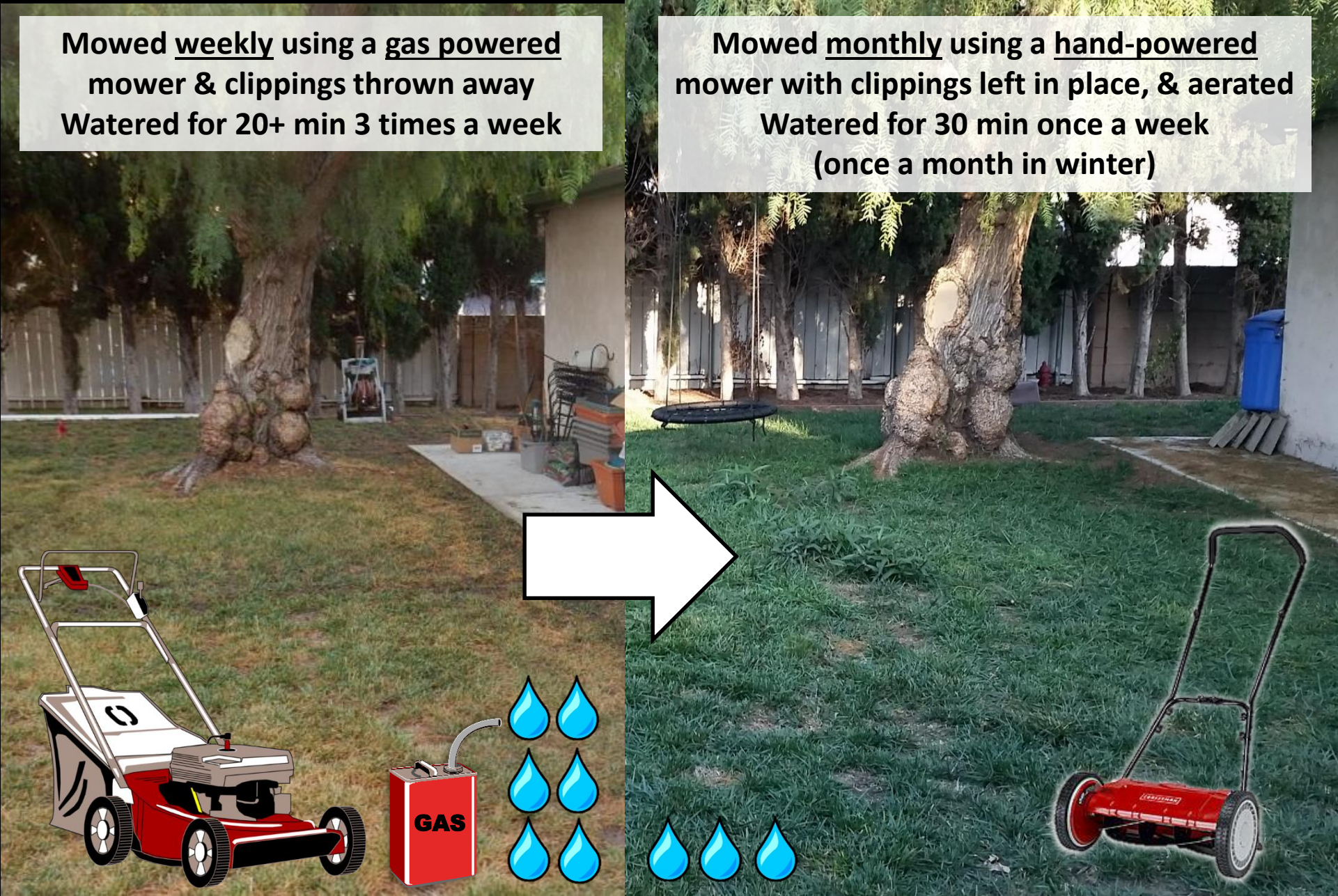
Climate is Warming and Demand for Water is Increasing



Simple Changes can Save Water, Energy, & \$\$\$

Mowed weekly using a gas powered mower & clippings thrown away
Watered for 20+ min 3 times a week

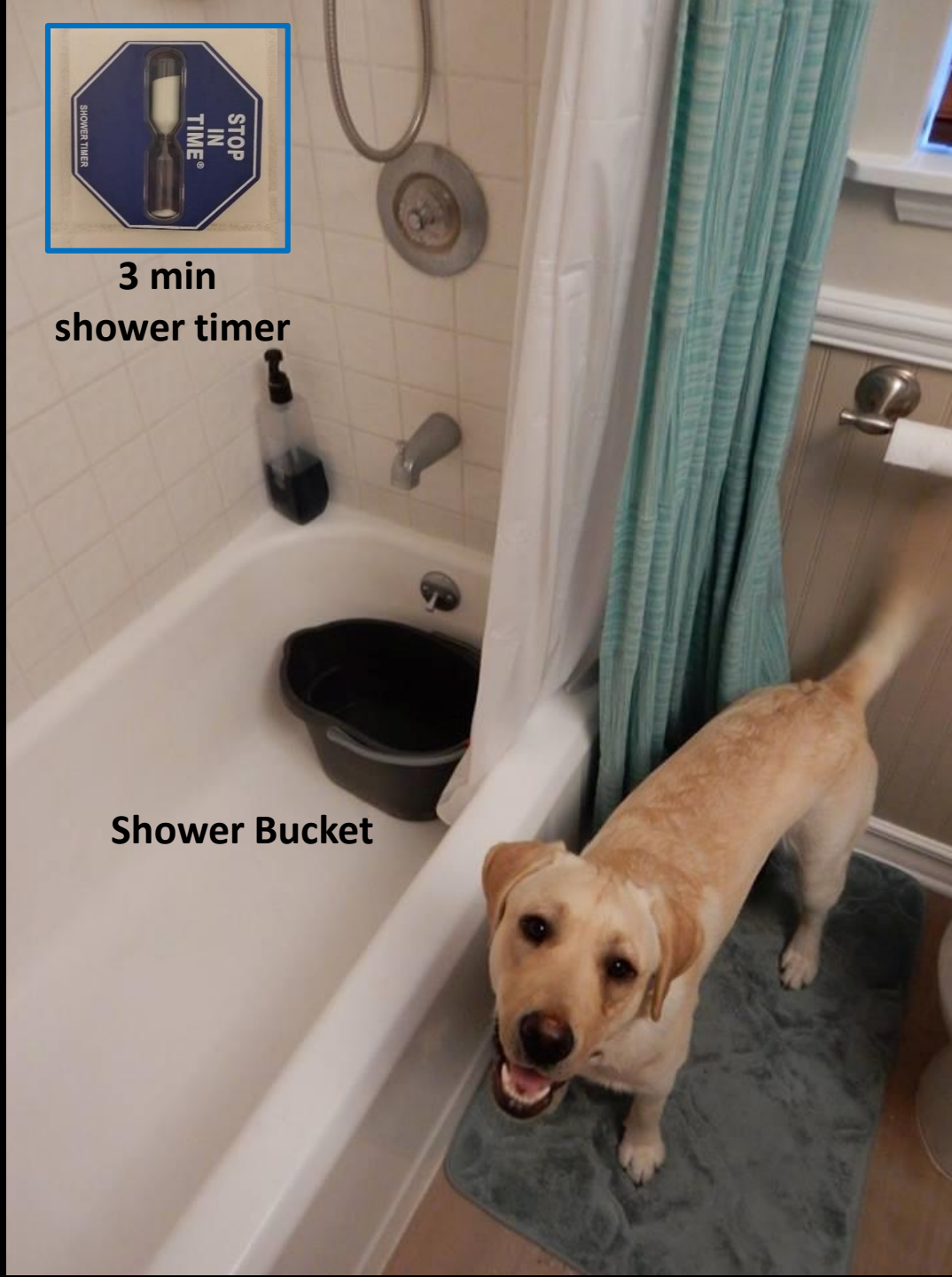
Mowed monthly using a hand-powered mower with clippings left in place, & aerated
Watered for 30 min once a week
(once a month in winter)





**3 min
shower timer**


Shower Bucket



**Reusable
Straws**




**Energy & Water Efficient Dishwasher
that drains into a Gray Water Bucket**



**Curtains & Blinds
To reduce heat**

**High Efficiency
Dual Flush Toilette**



**Rain Barrel
Storm-Water
Catchment System**

Air Quality – Actions



GAZETTES.COM

Long Beach Transit To Buy Five More Electric Buses

Long Beach Transit officials said Thursday that the California State Transportation...



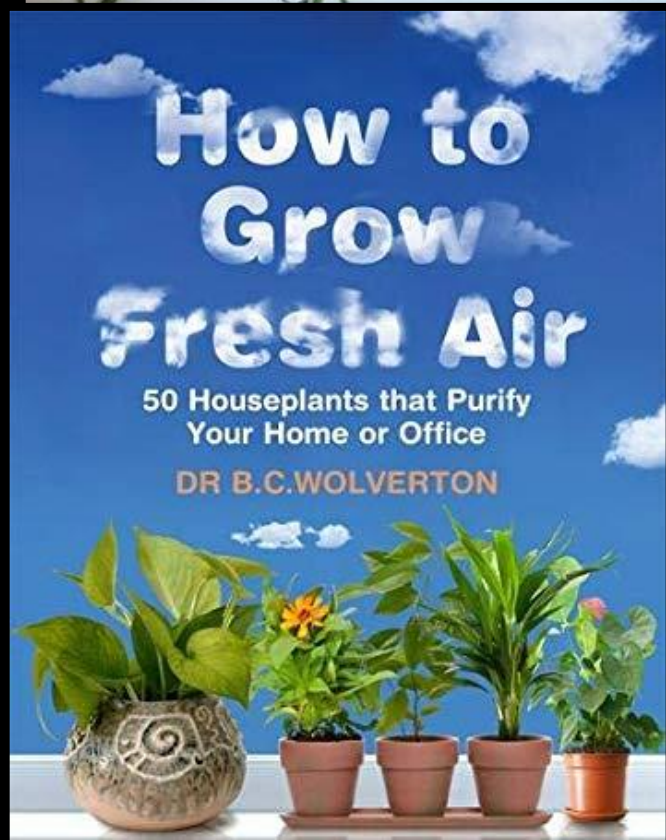
DAILYBREEZE.COM

Cleaner, greener electric truck fleet expected at ports of Long Beach, Los Angeles



PRESSTELEGRAM.COM

Lime launches electric scooters in Long Beach; Bird, Skip to follow suit





Sea Level Rise & Coastal Flooding – Actions

Beach Nourishment & protective Sand Berms



Cleaning Storm Drains to ↓ Urban Flooding



Before



Long Beach Responds To El Niño Rains, Offers Sandbags To Residents

El Niño's stormy weather — including more than an inch and a half of rain as of Tuesday night — prompted the need for emergency assistance programs and...

GAZETTES.COM | BY EMILY THORNTON



After

Public Health & Social Vulnerability – Actions



**In the face of a changing environment,
communities must be engaged and at the core of planning for the future**