

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 2nd Quarter 2017

Environmental News

Cape Coral's Newest Attraction -A Community Garden-

The Rotary Club of Cape Coral has begun construction of the new community garden in August. The Rotary Community Garden sits behind City Hall off of SE 10th Street. The garden will be gated and will contain 52 raised box plots, irrigation, paver and shell paths and a small pavilion for outdoor gardening classes. The Rotary Club of Cape Coral has donated \$20,000 to this project and combined with the donated lot from the City of Cape Coral, grant money, and volunteer donations, this community garden is truly a community wide effort.

The completion of the garden is set for some time in October. Garden plot availability is still to be determined at this time. A \$50 annual rental fee will most likely be the most viable opportunity to secure a plot. However, a lottery system may be put into effect, depending on popularity or demand for the Rotary Community Garden. This is the first of its kind in Cape Coral, so chances are, it will be a hit.

For more information please contact Rotary Park Environmental Center at 549-4606.

Inside This Issue:

Updated Volunteers Map 2 Extra Field Data 3 Lab Data 4-5 **Questions? Comments? Let us know!** (239)574-0785 Harry: hphillips@capecoral.net Katie: kmcbride@capecoral.net

Native Plant profile

Buccaneer Palm Pseudophoenix sargentii

The buccaneer palm can be readily found in the Florida Keys. This slow growing palm reaches about 20 feet tall at mature height. It is also ideal for a coastal community landscape, as it is drought and salt tolerant and prefers sandy, rocky soil.

Many native nurseries are propagating this unique palm, so it's becoming more available than in the past. This palm is ideally suited as an accent tree or in small clusters due to its small size. It can also be used in constricted areas, such as between houses or near power lines for the same reason.



Buccaneer Palm (Photo coutesy of Leon Levy Native Plant Preserve, Bahamas)

Safe Boating Around Manatees

The manatees in Florida (*Trichechus manatus latirostris*) inhabit salt, brackish, and fresh water environments along the coast. Many of Cape Coral's canals often allow manatees to seek refuge from the Caloosahatchee River or Matlacha Pass to feed. These marine mammals are herbivores, and leisurely graze on sea grasses. This slow-paced grazing has earned them the nickname "sea cows". Slow and steadily, manatees consume from 4 to 9 percent of their body weight in aquatic vegetation every day. Manatees breathe air at the water's surface and often a manatee's snout is the only part of its body that is seen when they come up for air. Additionally, a "boil" of water from their tail thrusts is also an indicator that a manatee is below the surface.

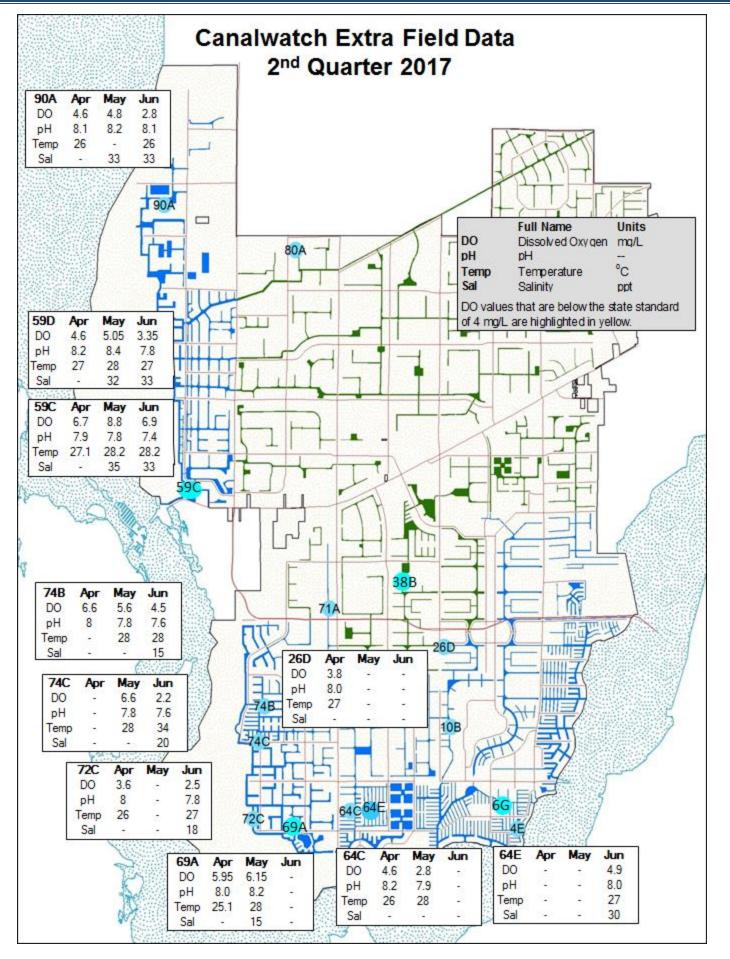
Unfortunately, manatee behaviors and diet place them in areas that are often used for recreational boating. About 25-30% of manatee deaths statewide are attributed to watercraft. Strikes from boats can result in death or severely injure a manatee. Manatees that survive boat strikes are often left with permanent prop scars. The scars are used by wildlife officials to identify individual manatees, but also serve as a reminder that these gentle creatures are often in harm's way. Here are some tips to enjoying boating and being safe around these wonderfully charismatic marine mammals.

- When boating, always abide by the posted speed zone signs and especially manatee slow zones. Outside a channel, when in doubt of whether an area is used by manatees, take it slow.
- Wearing polarized sunglasses can reduce glare on the water, which will enable you to see below the surface more easily.
- Try to stay in deep-water channels and avoid boating over seagrass beds and shallow areas as these are manatee feeding areas. This also prevents prop scars in seagrass beds.
- If you do see a manatee, give it space. Try to stay at least 50 feet away when operating a boat motor. Even if you only see one animal, it is likely other manatees are in the area.
- Try not to pass directly over manatees and never separate mothers and calves.
- Look for a circular wave pattern (boil) left on the surface of the water by the manatee's tail as it swims underwater. Even if the manatee can't be seen, this is an indication of where it's headed.
- Do not discard monofilament line, hooks, or any other litter into the water. Manatees and other wildlife may ingest it or become entangled in this debris and can become injured or even die.
- Never try to touch or feed manatees, as doing so teaches them to seek out human interaction and brings them into close contact with boats.

If you do see and injured manatee while boating please call the Wildlife Alert number:

1-888-404-FWCC (3922) Or just dial #FWC or *FWC on cell phone, or text <u>Tip@MyFWC.com</u>

It is important that you obtain immediate help for the animal. The sooner the animal is located and its condition is assessed, the better its chances for survival. Please be responsible, obey posted speed limits, no motor and manatee slow zones. Protect our marine mammals.



bd = below detection benchmark nun								bers: Marked data are in the highest 20% of values found by Hand et. al, 1988.												
	April 2017							May 2017							June 2017					
	NO2	NO3	NH3	ΤΚΝ	T-N	T-P04	NO2	NO3	NH3	ΤΚΝ	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	Avg	
	< 1.0	<1.0	non	e set	< 2.0	<0.46	< 1.0	<1.0	non	e set	<2.0	<0.46	< 1.0	<1.0	non	e set	< 2.0	<0.46	TSI	
3F	bd	bd	0.05	0.05	0.1	0.04													17.71	
5D	bd	bd	0.3	0.3	0.3	0.05							bd	bd	0.1	0.1	0.1	0.06	30.90	
6F	bd	bd	0.3	0.3	0.3	0.08	bd	bd	0.05	0.2	0.2	0.06	bd	bd	0.1	0.1	0.1	0.09	37.4	
7E	bd	bd	0.2	0.2	0.2	0.05	bd	bd	0.2	0.1	0.1	0.06	bd	bd	0.05	0.05	0.1	0.07	17.4	
10C	bd	bd	0.5	0.5	0.5	0.03	bd	bd	0.05	0.4	0.4	0.03	bd	bd	0.2	0.2	0.2	0.06	41.39	
11E	bd	bd	0.4	0.4	0.4	0.05	bd	bd	0.1	0.5	0.5	0.08	bd	0.11	0.1	0.1	0.1	0.09	30.18	
12H	bd	bd	0.2	0.2	0.2	0.05													32.00	
16E	bd	bd	0.2	0.3	0.3	0.04	bd	bd	0.05	0.6	0.6	0.02	bd	bd	0.1	0.3	0.3	0.03	51.90	
16H	bd	bd	0.3	0.4	0.4	0.04							bd	bd	0.3	0.5	0.5	0.03	43.80	
18J	bd	bd	0.2	0.4	0.4	0.03	bd	bd	0.1	0.4	0.4	0.02	bd	bd	0.4	0.4	0.4	0.20	44.07	
18K	bd	bd	0.1	0.1	0.1	0.03	bd	bd	0.1	0.2	0.2	0.05	bd	0.05	0.05	0.5	0.5	0.02	42.55	
18L							bd	bd	0.05	0.3	0.3	0.14	bd	bd	0.2	0.2	0.2	0.13	40.34	
19D	bd	bd	0.2	0.2	0.2	0.06							bd	bd	0.1	0.1	0.1	0.09	25.40	
19K	bd	bd	0.2	0.2	0.2	0.06	bd	bd	0.05	0.5	0.5	0.11	bd	bd	0.05	0.3	0.3	0.10	41.81	
21D	bd	bd	0.2	0.2	0.2	0.07	bd	bd	0.05	0.5	0.5	0.09	bd	bd	0.05	0.2	0.2	0.10	35.49	
26D	bd	bd	0.5	1.3	1.3	0.05													39.42	
28D	bd	0.06	0.3	0.9	0.96	0.06	bd	0.05	0.1	0.7	0.7	0.08	bd	bd	0.1	0.4	0.4	0.04	49.81	
31C	bd	bd	0.1	0.2	0.2	0.02	bd	0.12	0.05	0.2	0.2	0.04	bd	bd	0.1	0.4	0.4	0.01	45.28	
38B	bd	bd	0.1	0.5	0.5	0.05	bd	bd	0.05	0.6	0.6	0.07	bd	0.05	0.05	0.4	0.4	0.04	55.80	
41A	bd	bd	0.2	0.3	0.3	0.03	bd	0.09	0.05	0.4	0.4	0.07	bd	bd	0.1	0.2	0.2	0.03	33.50	
41B													bd	bd	0.05	0.3	0.3	0.02	34.74	
45D	bd	bd	0.2	0.4	0.4	0.02													37.59	
48A	bd	bd	0.1	0.1	0.1	0.01	bd	bd	0.05	0.3	0.3	0.05	bd	bd	0.05	0.1	0.1	0.01	29.87	
52B	bd	bd	0.1	0.1	0.1	0.03	bd	bd	0.05	0.3	0.3	0.02	bd	bd	0.05	0.2	0.2	0.02	31.62	
58B	bd	bd	0.2	0.2	0.2	0.04													36.52	
581	bd	bd	0.2	0.2	0.2	0.04	bd	bd	0.05	0.2	0.2	0.04	bd	bd	0.05	0.2	0.2	0.04	30.41	
58J	bd	bd	0.2	0.2	0.2	0.03	bd	bd	0.2	0.2	0.2	0.03	bd	bd	0.6	0.2	0.2	0.03	31.13	
59C	bd	bd	0.2	0.2	0.2	0.02	bd	bd	0.05	0.1	0.1	0.03	bd	bd	0.05	0.3	0.3	0.02	35.29	
59D	bd	bd	0.3	0.3	0.3	0.04	bd	bd	0.1	0.6	0.6	0.02	bd	bd	0.3	0.3	0.3	0.03	41.33	

		of algae blooms and other pollution concerns.									cerns.								
All nutrien	t concent	rations sho	wn in mg/	1								alleviat	ed the p	rolonge	d dry pe	ater basi riod that noff will i	affecte	d this rea	
NH3 = Ammonia (inorganic) TPO4 = Total Phosphate All nutrient concentrations shown in mg/L					can lead to nuisance plant growth and algal blooms.						Second quarter 2017 water quality continued to maintain with the lack of stormwater influence. Significant rainfall began in the month of June and this much needed rainfall helped restore								
			Total Nitr Janic + org		runoff or effluent from wastewater or septic systems. Excessive nutrients						50 sites this quarter scored as GOOD (<60). zero sites scored FAIR (60-70), and zero scored POOR (>70).								
ND2 = Nitrite (inorganic) ND2 = Nitrite (inorganic) Nitrogen (organic + NH4)					High levels of nutrients in our canals can indicate the presence of fertilizer						TSI = Trophic State Index, a quick indicator of canal he								
Max		0.06	0.50	1.30	1.30	0.08		0.12	0.30	0.80	0.80	0.14		0.11	0.60	0.60	0.60	0.20	55.8
dedian		0.06	0.20	0.30	0.30	0.05		bd	0.05	0.30	0.30	0.05		bd	0.10	0.20	0.20	0.06	37.17
90A	bd	bd	0.2	0.2	0.2	0.03	bd	bd	0.05	0.4	0.40	0.03	bd	bd	0.05	0.6	0.6	0.14	42.25
89A	bd	bd	0.5	0.5	0.5	0.08	bd	bd	0.05	0.8	0.8	0.09	bd	bd	0.1	0.4	0.4	0.13	50.98
83C	bd	bd	0.2	0.2	0.2	0.03	bd	bd	0.03	0.3	0.3	0.03	bd	bd	0.03	0.1	0.2	0.03	44.07
82A	bd	bd	0.4	0.4	0.4	0.00	bd	bd	0.05	0.1	0.1	0.00	bd	bd	0.05	0.1	0.1	0.00	41.10
74B 74C	bd bd	bd bd	0.3 0.4	0.3 0.4	0.3	0.06	bd bd	bd bd	0.05	0.5 0.1	0.5 0.1	0.08	bd bd	0.05 bd	0.3	0.3	0.3 0.1	0.07 0.08	35.53 18.79
72E						0.00	bd	bd	0.05	0.3	0.3	0.08	bd	bd	0.2	0.4	0.4	0.07	41.83
72C	bd	bd	0.3	0.3	0.3	0.06							bd	bd	0.05	0.2	0.2	0.06	41.15
71B	bd	bd	0.3	0.3	0.3	0.02	bd	bd	0.05	0.4	0.4	0.02	bd	0.05	0.2	0.3	0.3	0.02	42.37
69D	bd	bd	0.2	0.4	0.4	0.08							bd	0.05	0.1	0.3	0.3	0.13	42.46
69A	bd	bd	0.1	0.3	0.3	0.06	bd	bd	0.1	0.6	0.6	0.11							39.02
65E													bd	0.05	0.1	0.1	0.1	0.07	28.15
65C	bd	bd	0.2	0.2	0.2	0.05	bd	bd	0.05	0.2	0.2	0.06		0.00	0.2	0.1	0.1	0.00	33.46
64F	bd	bd	0.2	0.3	0.3	0.05	bd	bd	0.3	0.1	0.1	0.05	bd	0.00	0.05	0.1	0.1	0.00	23.63
64C	ba	pa	0.2	0.2	0.2	0.05	ba	ba	0.05	0.2	0.2	0.05	bd	0.06	0.05	0.1	0.1	0.06	29.44 36.87
64B 64C	bd bd	bd bd	0.2	0.2 0.2	0.2	0.06 0.05	bd	bd	0.05	0.2	0.2	0.05	bd	0.05	0.3	0.3	0.3	0.06	27.89 29.44



Coastal Cleanup

An international cleanup effort to rid Florida's coastlines of litter, pollution and debris by volunteers, just like you.

International Coastal Cleanup

Keep Lee County Beautiful is the Lee County coordinator for Ocean Conservancy's annual International Coastal Cleanup, the largest volunteer effort of its kind. Every September for 31 years, ICC has motivated over nine million people from around the world to pick up over 144 million pounds of trash from nearly 300,000 miles of shoreline. Of all ages are welcome and any individual, family, school, group, place of worship, business or government entity can coordinate or participate in an average of 25 simultaneous projects around the area.

Saturday, September 16, 2017 9:00 to 12:00 p.m. various locations throughout Lee County

Registration is still available for Horton Park - 2618 SE 26th PL, Cape Coral 33904 Please visit <u>http://www.klcb.org/coastal-cleanup.html</u> to register for this event.



City of Cape Coral Environmental Resources P.O. BOX 150027