

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 4th Quarter 2011

Environmental News

Native Plant Profile

Manatees

Manatees are often seen in Cape Coral's canals, so please heed "idle speed" and "no wake" zones throughout the canals and surrounding waterways. Any water way within a quarter mile of the shoreline is "idle speed, no wake".

With the weather turning cooler over the coming months, manatees will seek warmer water. The warm water near the Florida Power & Light (FPL) power plant is a popular spot for this marine mammal. Manatee Park is located directly across from the FPL plant on Palm Beach Blvd. in Fort Myers, and provides a great opportunity to see manatees in the cooler weather. Manatee Park is now offering a free half hour program about the Florida Manatee any day of the week through March. Appropriate for all ages, this program is a look into the biological and ecological aspects of this threatened marine mammal. If you have visitors from out of town, or if you're looking for something to do with the kids or grandkids, Manatee Park is a local attraction not to be missed.

For more information, please visit leeparks.org or call 239-690-5030.

Inside This Issue: Manatees / Native Plant 2011 Year in Review 2 Extra Field Data 3 Lab Data 4-5 Upcoming Events 6

Questions? Comments? Let us know! (239)574-0785

Harry: hphillips@capecoral.net

Beggar Ticks
Bidens Alba



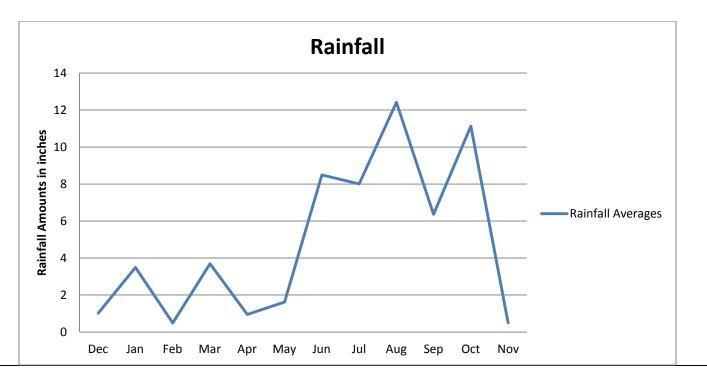
Beggar Ticks (sometimes referred to Spanish Needle) can be an unwelcome weed to most homeowners. However, groupings of these delicate white flowers are very attractive to butterflies and bees. The seeds have two "clasps" at one end of the pod that can cling on to passers-by, thereby spreading this plant to other areas. A little maintenance to remove the seed heads will prevent the prolific spreading of Beggar Ticks.

Indeed this plant is useful in butterfly gardens, as it does provide a nectar source. It is also useful on the dinner table! The flowers and tender young leaves of this plant are edible and can be mixed into a salad to accent other greens.

While not for every home landscape, I hope the home gardener takes into consideration the usefulness of this small flowering plant. So the next time you see it popping up in a plant bed or growing alongside a road, take note as to what is buzzing, flying or perched on its bloom.

2011 Year in Review

- In 2011, we received 554 Canalwatch samples. This is a decrease from 633 in 2010. Nevertheless, thank you for all of your hard work and participation this year!
- Also in 2011, we received 126 Chlorophyll samples in addition to our regular samples.
- We trained 8 new volunteers this year. Welcome!
- There are currently 60 active stations.
- Total average rainfall for Cape Coral for the past year was about 58 inches.



Rainfall amounts are from December 2010 to November 2011 and are an average of monthly totals from all volunteers who recorded rainfall data.

Coming Soon in 2012

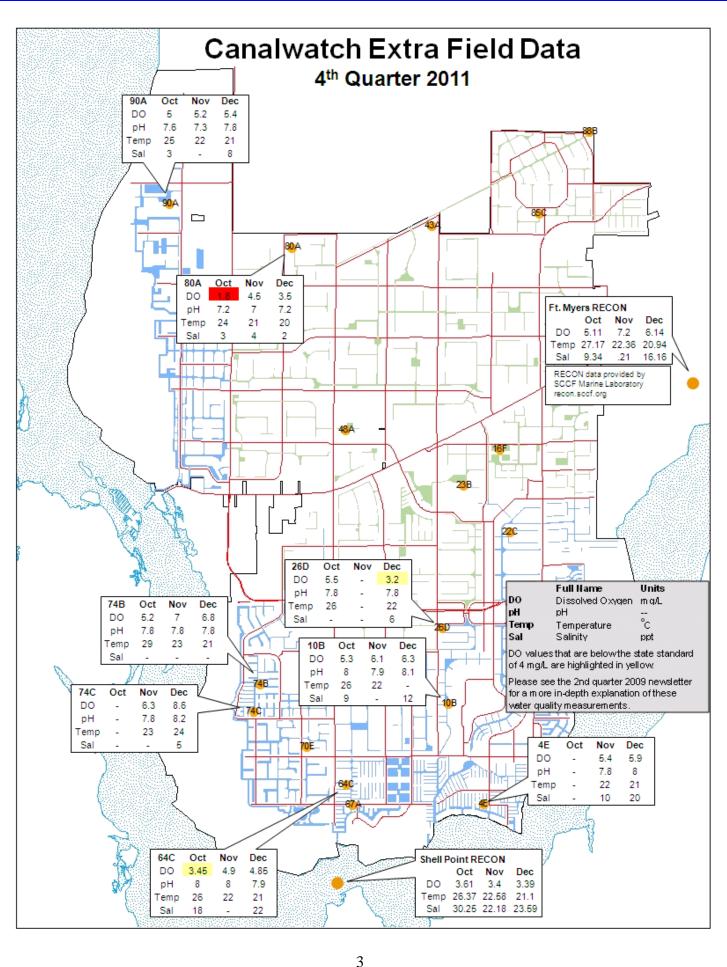
Canal Clean-up – March 24, 2012

Mark your calendars!!! As part of the Keep America Beautiful Great American Clean-up event, the City of Cape Coral is again partnering with Keep Lee County Beautiful to host the 5th annual Canal Clean-up day. This year's clean-up is on Saturday March 24th from 8 a.m. – noon at the Cape Coral Yacht Club. Please Plan to Join Us!!!

For more information please contact 574-0785 or hphillips@capecoral.net

Canalwatch BBQ - April 4, 2012

Save the date!!! The Canalwatch BBQ to thank our volunteers will be on April 4th at the Cape Coral Yacht Club at 11 a.m. Please R.S.V.P. no later than Friday, March 23rd. Please call 574-0785 to R.S.V.P. Hope to see you there!



	bd = below detection benchmark num							bers: Marked data are in the highest 20% of values found by Hand et. al, 1988.												
	October 2011							November 2011							December 2011					
	NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	Avg	
	<1.0	<1.0	none	set	<2.0	<0.46	<1.0	<1.0	none	set	<2.0	<0.46	<1.0	<1.0	none	e set	<2.0	<0.46	TSI	
3F	bd	0.07	bd	0.7	0.77	0.08	bd	0.12	bd	0.5	0.62	0.06	bd	0.08	0.1	0.8	0.88	0.05	51.09	
4E							bd	0.24	bd	0.7	0.94	0.11	bd	0.05	0.2	0.9	0.95	0.05	55.54	
6F	bd	bd	bd	1.1	1.1	0.11	bd	0.27	bd	0.7	0.97	0.13	bd	bd		0.9	0.9	0.06	56.07	
7B	bd	0.18	bd	0.9	1.08	0.13	bd	0.22	bd	0.6	0.82	0.12	bd	0.07	bd	0.9	0.97	0.05	52.35	
7C	bd	0.20	bd	1	1.2	0.14	bd	0.22	bd	0.6	0.82	0.12							58.31	
7D	bd	0.14	bd	1	1.14	0.12	bd	0.23	bd	0.7	0.93	0.20	bd	bd		0.9	0.9	0.05	59.58	
9E	bd	bd	bd	1	1.0	0.12	bd	0.17	bd	0.6	0.77	0.09	bd	0.09		1.1	1.19	0.07	58.99	
10B	bd	0.08	bd	0.9	0.98	0.08	bd	0.10	bd	0.3	0.4	0.05	bd	bd	bd	0.7	0.7	0.03	48.06	
11D							bd	0.26	bd	0.6	0.86	0.22	bd	0.07	bd	0.9	0.97	0.06	56.14	
15D	bd	bd	bd	0.8	0.8	0.07	bd	0.16	bd	1.2	1.36	0.07	bd	0.08	bd	0.9	0.98	0.04	56.53	
15E	bd	bd	bd	0.9	0.9	0.08	bd	0.22	bd	0.8	1.02	0.07	bd	0.08	0.2	1.0	1.08	0.05	58.71	
16E	bd	bd	bd	0.7	0.7	0.04	bd	bd	bd	1.9	1.9	0.04	bd	bd	bd	1.0	1.0	0.02	48.03	
16G	bd	bd	bd	0.6	0.6	0.05	bd	bd	bd	0.8	0.8	0.04							54.89	
17B							bd	bd	bd	0.5	0.55	0.04							53.54	
19D	bd	bd	0.1	1.2	1.2	0.17	bd	0.29	bd	0.6	0.89	0.13	bd	0.05	bd	1.0	1.05	0.05	58.20	
21D	bd	bd	bd	1.0	1.0	0.09	bd	0.20	0.3	0.4	0.6	0.07	bd	0.06	bd	0.9	0.96	0.05	53.46	
26D	bd	bd	bd	1.4	1.4	0.05							bd	0.08	0.2	1.8	1.88	0.02	49.39	
26F							bd	0.10	bd	0.5	0.6	0.09	bd	bd	0.1	0.8	0.8	0.02	37.20	
28D	bd	bd	bd	1.0	1.0	0.03	bd	bd	bd	0.8	0.8	0.04	bd	bd	bd	1.0	1.0	0.02	57.30	
30C	bd	bd	bd	0.8	0.8	0.03	bd	bd	bd	0.4	0.45	0.03	bd	bd	bd	0.8	0.8	0.03	46.32	
35A	bd	bd	bd	0.7	0.7	0.06	bd	0.16	bd	0.5	0.66	0.02	bd	0.05	bd	0.6	0.65	0.02	38.37	
41A	bd	bd	bd	0.4	0.4	0.07	bd	0.12	bd	0.2	0.32	0.01	bd	bd		0.5	0.5	0.02	28.91	
45D	bd	bd	bd	0.7	0.7	0.06	bd	bd	bd	0.7	0.7	0.03	bd	bd	bd	0.9	0.9	0.02	55.72	
48A	bd	bd	bd	0.05	0.1	0.03							bd	0.09	0.1	0.9	0.99	0.02	42.83	
52B	bd	bd	bd	0.5	0.5	0.03	bd	0.12	bd	0.2	0.32	0.01	bd	bd		0.6	0.6	0.02	30.81	
58B													bd	0.05	bd	0.9	0.95	0.03	44.86	
58E													bd	0.05	bd	1.1	1.15	0.03	44.86	
58F	bd	bd	0.1	1	1.0	0.04	bd	bd	bd	0.6	0.6	0.03							49.24	
58G	bd	bd	bd	0.8	0.8	0.03	bd	0.06	bd	0.5	0.56	0.03	bd	0.06	0.3	1.1	1.16	0.05	49.85	
581	bd	bd	bd	0.8	0.8	0.03	bd	0.07	bd	0.6	0.67	0.03	bd	bd	0.3	1.3	1.3	0.06	46.93	

All nutrient concentrations sh		own in mg.	/L										ements : ay find th						
NH3 = Ammonia (inorganic)			(inorganic + organic) TPO4 = Total Phosphate			septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.						Water q	AIR (60-70), and one was POOR (>70). Vater quality has improved this quarter over last quar oughly the same as 4th Quarter 2010. Secchi measurements should continue to improve for						
NO2 = Nitrite (inorganic) NO3 = Nitrate (inorganic)		TKN = Total Kjeldahl Nitrogen (organic + NH4) TN = Total Nitrogen			High levels of nutrients in our canals can indicate the presence of fertilizer runoff or effluent from wastewater or						TSI = Trophic State Index, a quick indicator of canal health. 51 sites this quarter scored as GOOD (<60). one site scored								
Max		0.20	0.10	1.40	1.40	0.17		0.29	0.30	2.20	2.27	1.32		0.15	0.40	1.80	1.88	0.20	72.2
dedian		0.13	0.10	0.80	0.90	0.05		0.18	0.30	0.60	0.77	0.05		0.08	0.20	0.90	0.91	0.03	50.3
97A	bd	bd	bd	0.7	0.7	0.02	bd	0.08	bd	0.6	0.68	0.02	bd	bd	bd	0.6	0.6	0.02	41.7
93B	bd	bd	0.1	1.0	1.0	0.07	bd	bd	bd	0.8	0.8	0.07	bd	bd	bd	0.8	0.8	0.03	59.7
91A	bd	bd	0.1	1.0	1.0	0.02	bd	bd	bd	0.7	0.7	0.02	bd	0.08	0.1	0.6	0.68	0.02	40.3
90A	bd	bd	0.1	1.4	1.4	0.05	bd	bd	bd	1.4	1.4	0.01	bd	0.06	0.2	1.5	1.56	0.02	48.9
89A	bd	0.10	bd	0.8	0.9	0.15	bd	0.25	bd	1.0	1.25	0.13	bd	0.09	0.1	0.9	0.99	0.09	59.5
83A	bd	bd	bd	0.8	0.8	0.02	bd	bd	bd	1.0	1.0	0.01	bd	0.10	0.2	1.0	1.10	0.02	42.9
82A	bd	bd	bd	0.9	0.9	0.02	bd	bd	bd	1.0	1.0	0.01	bd	bd	0.1	0.9	0.9	0.02	46.6
81B							, Nu	0.01	0.0	L.L	L.LI	1.52	bd	bd	0.1	0.9	0.9	0.02	37.3
B1A	bu	bu	ьu	0.0	0.0	0.01	bd	0.07	0.3	2.2	2.27	1.32	ьu	bu	bu	0.2	0.2	0.02	72.2
80A	bd	bd	bd	0.8	0.8	0.01	bd	bd	bd	0.6	0.75	0.03	bd	bd	bd	0.0	0.0	0.02	31.3
74F							bd	bd	bd	0.5	0.75	0.05	bd	bd	bd	0.8	0.8	0.03	51.5
74C							bd	bd	bd	0.5	0.5	0.05	bd	bd	bd	0.8	0.8	0.04	49.2
72C 74B	bu	pu	bu	0.9	0.9	0.05	bd	bd	bd	0.9	0.9	0.05	bd	bd bd	bd	1.0	1.0	0.03	55.9
72A 72C	bd	bd	bd	0.9	0.9	0.05	bd	bd	bd	0.6	0.6	0.09	bd bd	bd	bd bd	0.8	0.8	0.04	49.8 57.8
71A	bd	0.20	bd	0.6	0.8	0.03	bd	0.25	bd	0.5	0.75	0.04	bd	0.15	0.2	0.6 0.8	0.75	0.03	48.8
70F	bd	bd	bd	0.8	0.8	0.05	bd	0.06	bd	0.6	0.66	0.05	bd	bd	0.2	0.7	0.7	0.20	52.5
69A						0.05	bd	0.07	bd	1.1	1.17	0.13	bd	bd	bd	1.0	1.0	0.07	60.4
67C	bd	0.10	bd	0.8	0.9	0.11	bd	0.19	bd	0.6	0.79	0.09	bd	0.09	0.4	0.9	0.99	0.19	50.3
65B	bd	bd	bd	0.7	0.7	0.07	bd	0.18	bd	0.6	0.78	0.08	bd	0.11	0.2	0.8	0.91	0.06	51.9
64C	bd	0.13	bd	0.8	0.93	0.09	bd	0.21	bd	0.7	0.91	0.09	bd	0.09	0.2	0.8	0.89	0.06	51.8
64B							bd	0.21	bd	0.5	0.71	0.09	bd	0.07	0.2	0.7	0.77	0.05	48.3

January

4th Canalwatch

4th Sunset Celebration Yacht Club Pier 4-7 pm

10th Friends of Wildlife Meeting at Rotary Park 7 – 9 PM ccfriendsofwildlife.org

20th Florida Yards and Neighborhoods Intro Class Rotary Park 1 – 4 pm Info: 549-4606

20th Mangrove Gathering Environmental Club 7-10 pm Rotary Park Info: 549-4606

21st Butterfly Gardening Class 10:30 - 12:30 Rotary Park Info: 549-4606

February

1st Canalwatch

1st Sunset Celebration Yacht Club Pier 4-7 pm

14th Friends of Wildlife Meeting at Rotary Park 7 – 9 pm ccfriendsofwildlife.org

25th The 10th Annual Burrowing Owl Festival at Rotary Park 10:00 – 4:00 Info: 549-4606

March

7th Canalwatch

7th Sunset Celebration Yacht Club Pier 4-7 pm

10th Florida Yards and Neighborhoods Yard Tours 9 – 12 Tour begins at Rotary Park Info: 549-4606

13th Friends of Wildlife Meeting at Rotary Park 7 – 9 pm ccfriendsofwildlife.org

24th The 5th Annual Canal Clean-up

24th Butterfly Gardening Class 10:30 - 12:30 Rotary Park Info: 549-4606

City of Cape Coral Environmental Resources P.O. Box 150027 Cape Coral, FL 33915-0027