

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 2nd Quarter 2010

Environmental News

Native Plant profile

July is "National Parks and Recreation Month"

In recognition of the National Parks and Recreation Month for July 2010 Cape Coral Parks and Recreation Department are hosting many special events and deals, all month long.

For special deals such as the free Florida Yards and Neighborhoods introductory class (16th) or free boat trailer parking at all Cape Coral public boat ramps (24th), please visit the Parks and Recreational web-site at capeparks.com. "It starts in parks"

Also, be sure to attend the summer native plant sale at Rotary Park on July 24th from 9 am to 1 pm. For more information contact Rotary Park at 549-4606.

Myrsine

Rapanea punctata

The myrsine is a versatile shrub that adapts well to varying soil types and levels of moisture. This evergreen reaches 15 to 20 feet in height and can be incorporated in a screening hedge along property lines or outside of pool cages. One of the additional benefits of this native species is that it is fast growing, and once established requires little attention.

The berries, that fruit usually during winter but sometimes as late as spring, attract birds, both residents and migratory.

The myrsine is found in many different environments throughout the Florida landscape, and would be a wonderful addition to the home landscape as well.

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Questions? Comments? Let us know!

(239)574-0785

Harry: hphillips@capecoral.net Kim: kcressman@capecoral.net



Oil Spill Information and Resources

The big water news of the last 78 days has been, of course, the oil gusher in the Gulf of Mexico. The Cape Coral Fire Department is the City's lead agency, and they are working with the County's Emergency Operations Center as well as state agencies and the US Coast Guard. We here in Environmental Resources are keeping a close eye on things as well.

Officials are predicting that, due to the patterns of surface currents in the Gulf, there's only a 10% chance of oil washing up on our shores. If it does reach us, it will be most likely be in the form of tar balls.

The FL Dept. of Environmental Protection has been working with Lee County Environmental Laboratory to obtain pre-impact water samples from our area. If oil does reach us, we will be able to compare the resulting conditions to this baseline data.

Mote Marine Lab has also been sending robotic vehicles that can detect oil (crude, weathered, and oil + dispersants) into the Gulf and as of now, none has been detected offshore of SW FL.¹

If you find oil and believe it is related to this oil spill, report it by calling (877) 272-8335.

Report oiled wildlife to (866) 557-1401.

Oil is a hazardous material and should not be touched without proper training. City officials are working on bringing a 4-hour volunteer training course to residents so you will be able to assist with cleaning up tar balls if the need arises.

If you are interested in volunteering, you can sign up at www.volunteerflorida.org or call (866) 448-5816.

More information can be found at the following websites:

FL DEP Deepwater Horizon Response:

http://www.dep.state.fl.us/deepwaterhorizon/

BP's Oil Spill Response:

http://www.deepwaterhorizonresponse.com/

NOAA's response page and forecast maps:

http://response.restoration.noaa.gov/deepwaterhorizon/

Totals of oil collected:

http://www.bp.com/extendedsectiongenericarticle.do?categoryId=40&contentId=7061813

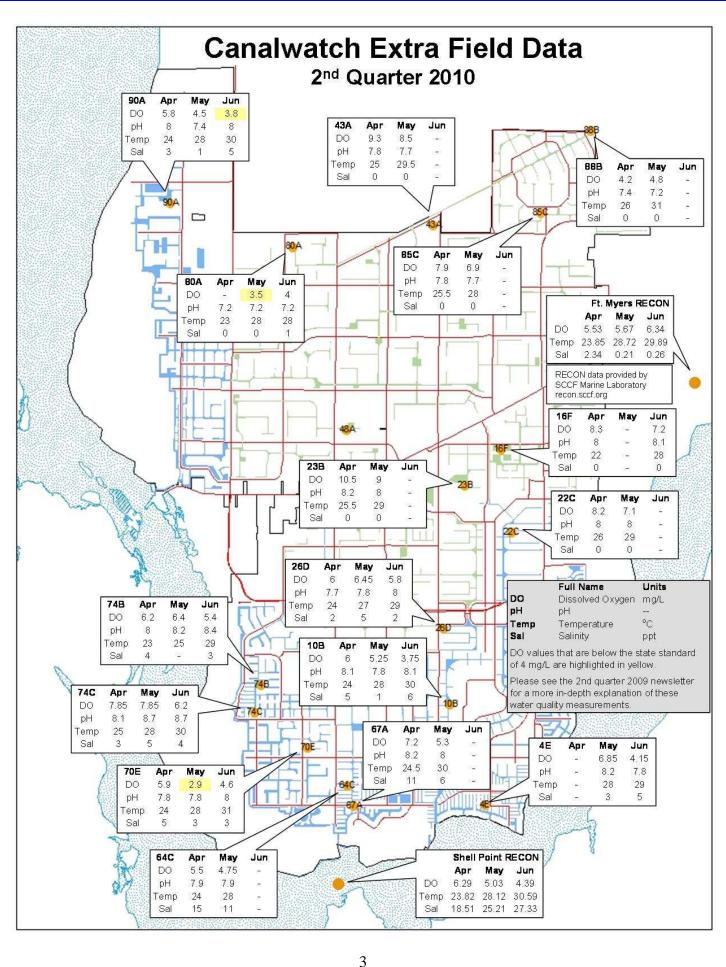
Totals of wildlife collected – dead/alive; visibly oiled/no visible oil; # released:

http://www.fws.gov/home/dhoilspill/collectionreports.html

Interactive maps:

http://map.floridadisaster.org/gator/ http://www.sunherald.com/722

¹ http://www.naplesnews.com/news/2010/jun/22/mote-underwater-robots-dont-find-any-trace-oil-low/



Canalwatch Lab Data, 2nd quarter 2010 benchmark numbers: Marked data are in the highest 20% of values found by Hand et. al, 1988. bd = below detection

	April 2010					May 2010						June 2010							
	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	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	bd	bd	bd	bd	bd	bd	bd	1	1.00	0.07	bd	bd	bd	1.2	1.20	0.09	40.68
3G	bd	bd	bd	1	1.00	bd	bd	bd	bd	0.9	0.90	0.08							49.99
4E							bd	bd	bd	1.5	1.50	0.11	bd	bd	bd	1.4	1.40	0.10	63.79
6F	bd	bd	bd	1	1.00	0.07	bd	bd	bd	1.3	1.30	0.12	bd	bd	bd	1.4	1.40	0.13	58.69
6G	bd	bd	bd	1.1	1.10	0.07													65.85
6H	bd	bd	bd	1	1.00	0.08	bd	bd	bd	1.2	1.20	0.12	bd	bd	bd	1.6	1.60	0.14	66.16
7B	bd	bd	bd	1	1.00	0.05	bd	0.08	bd	1.3	1.38	0.15	bd	bd	bd	1.7	1.70	0.13	87.93
10B	bd	bd	bd	1	1.00	bd	bd	bd	bd	0.8	0.80	0.07	bd	bd	bd	1.1	1.10	0.09	56.48
11D	bd	bd	bd	0.7	0.70	bd							bd	bd	bd	1.6	1.60	0.11	50.99
13A	bd	bd	bd	1.2	1.20	bd	bd	bd	bd	1.2	1.20	0.10	bd	bd	bd	1.7	1.70	0.14	67.49
15D	bd	bd	bd	1	1.00	bd	bd	bd	bd	1	1.00	0.06	bd	bd	bd	1.5	1.50	0.12	57.36
15E	bd	bd	0.1	0.6	0.60	bd	bd	0.05	bd	1.1	1.15	0.07	bd	bd	bd	1.6	1.60	0.14	64.26
16E	bd	bd	bd	0.7	0.70	bd	bd	bd	bd	0.8	0.80	bd	bd	bd	bd	1.1	1.10	0.03	55.63
16F	bd	bd	bd	0.5	0.50	bd							bd	bd	bd	1.1	1.10	bd	36.38
17B	bd	bd	bd	0.5	0.50	bd							bd	bd	bd	1.5	1.50	0.03	55.42
18G	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	1.5	1.50	0.05	bd	bd	bd	1.6	1.60	0.04	59.45
19D	bd	bd	bd	1.1	1.10	0.07							bd	bd	bd	1.6	1.60	0.11	70.31
21D	bd	bd	bd	1.1	1.10	0.05	bd	bd	bd	1.5	1.50	0.10	bd	bd	bd	1.5	1.50	0.12	67.05
21F	bd	bd	bd	0.7	0.70	0.06													59.78
22C	bd	bd	bd	0.8	0.80	0.05	bd	bd	0.1	3.3	3.30	0.09							59.14
23B	bd	bd	bd	1.3	1.30	bd	bd	0.24	0.2	2	2.24	bd							41.47
26C	bd	bd	bd	1.4	1.40	bd	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	0.8	0.80	0.03	61.34
26D	bd	bd	0.1	0.5	0.50	0.05	bd	bd	bd	1.1	1.10	0.11	bd	bd	bd	2.7	2.70	0.09	66.01
26F	bd	bd	bd	1.8	1.80	bd	bd	bd	bd	0.8	0.80	0.06							56.15
28D	bd	bd	bd	0.8	0.80	bd							bd	bd	bd	1.3	1.30	0.04	51.59
30A							bd	bd	bd	0.6	0.60	bd	bd	bd	bd	1.5	1.50	0.07	51.10
34A													bd	bd	bd	1.1	1.10	0.04	54.05
35A	bd	bd	bd	1.5	1.50	bd	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	1	1.00	0.07	59.50
35B	bd	bd	bd	0.3	0.30	bd	bd	bd	bd	8.0	0.80	bd							39.73
41A	bd	bd	bd	0.3	0.30	bd	bd	bd	bd	0.9	0.90	bd	bd	bd	bd	0.7	0.70	bd	32.69
43A	bd	bd	bd	0.2	0.20	bd	bd	0.11	bd	2.2	2.31	bd							32.80
45D	bd	bd	bd	1.3	1.30	bd	bd	bd	bd	0.5	0.50	bd	bd	bd	bd	0.8	0.80	0.03	49.10
48A	bd	bd	bd	0.5	0.50	bd	bd	bd	bd	0.3	0.30	bd							42.57

51A	bd	bd	bd	0.2	0.20	bd	bd	bd	bd	0.3	0.30	bd	bd	bd	bd	0.9	0.90	0.05	38.36
52B	bd	bd	bd	0.3	0.30	bd	bd	bd	bd	bd	bd	bd	bd	bd	bd	0.6	0.60	bd	22.30
57A	bd	bd	bd	0.2	0.20	bd							bd	bd	bd	0.5	0.50	bd	24.28
58B	bd	bd	bd	0.2	0.20	bd													36.78
58E							bd	bd	bd	0.8	0.80	bd	bd	bd	bd	1.4	1.40	0.03	47.57
58F	bd	bd	bd	0.8	0.80	bd	bd	bd	bd	1	1.00	bd	bd	bd	bd	1.5	1.50	0.04	45.94
58G	bd	bd	bd	1.2	1.20	bd	bd	bd	bd	1	1.00	bd	bd	bd	bd	1.2	1.20	0.05	52.05
58H	bd	bd	bd	1	1.00	bd	bd	bd	bd	1	1.00	bd	bd	bd	bd	1.5	1.5	0.05	49.68
58I	bd	bd	bd	0.9	0.90	bd	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	1.3	1.30	0.03	45.19
59B	bd	bd	bd	0.9	0.90	bd	bd	bd	bd	0.8	0.80	bd	bd	bd	bd	0.8	0.80	bd	43.29
64B	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	1	1.00	0.08	bd	bd	bd	1.1	1.10	0.08	47.23
64C	bd	bd	bd	0.9	0.90	bd	bd	bd	bd	0.7	0.70	0.06							46.19
66A	bd	bd	bd	1	1.00	bd							bd	bd	bd	0.4	0.40	0.02	46.39
67A	bd	0.48	bd	1	1.48	bd	bd	0.25	bd	2.7	2.95	0.11							52.56
67C	bd	bd	bd	3	3.00	bd													39.10
69A	bd	bd	bd	1.2	1.20	bd	bd	bd	bd	0.8	0.80	0.05							47.22
70E	bd	bd	bd	1.1	0.10	bd	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	0.8	0.80	0.04	33.48
72A	bd	bd	bd	0.9	0.90	bd	bd	bd	bd	0.7	0.70	bd	bd	bd	bd	1	1.00	0.04	42.65
74B	bd	bd	bd	0.7	0.70	bd	bd	bd	bd	0.7	0.70	bd	bd	bd	bd	0.9	0.90	0.05	52.56
74C	bd	bd	bd	0.7	0.70	bd	bd	bd	bd	0.7	0.70	bd	bd	bd	bd	1.2	1.20	0.05	52.26
74D							bd	bd	bd	0.6	0.60	bd	bd	bd	bd	1	1.00	0.05	52.56
80A	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	0.6	0.60	bd	bd	bd	bd	bd	bd	bd	33.33
82A	bd	bd	bd	0.3	0.30	bd	bd	0.07	bd	1.2	1.27	bd	bd	bd	bd	0.9	0.90	bd	42.37
83A	bd	bd	bd	1	1.00	bd	bd	bd	bd	0.9	0.90	0.05	bd	bd	bd	1	1.00	0.03	51.80
85C	bd	bd	0.1	0.9	0.90	bd	bd	bd	bd	1.2	1.20	bd							41.47
88B	bd	bd	bd	1.7	0.12	bd	bd	0.11	bd	2.2	2.31	0.10							50.17
90A	bd	bd	bd	2	0.09	bd	bd	bd	bd	0.8	0.80	bd	bd	bd	bd	0.9	0.90	0.02	42.06
91A	bd	bd	bd	0.9	0.90	bd	bd	bd	bd	0.6	0.60	bd	bd	bd 	bd	0.5	0.50	bd 	40.90
91B	bd	bd	bd	0.6	0.60	bd		0.11	0.15	0.00	0.00	0.00	bd	bd	bd	0.5	0.50	bd	34.06
Median		0.48	0.10	0.90	0.85	0.06		0.11	0.15	0.90	0.90	0.08				1.10	1.10	0.05	50.08
Max		0.48	0.10	3.00	3.00	0.08		0.25	0.20	3.30	3.30	0.15				2.70	2.70	0.14	87.93

NO2 = Nitrite (inorganic)	TKN = Total Kjeldahl Nitrogen (organic + NH4)	ŀ
NO3 = Nitrate (inorganic)	TN = Total Nitrogen (inorganic + organic)	s
NH3 = Ammonia (inorganic)	TPO4 = Total Phosphate	1

High levels of nutrients in our canals can indicate the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.

All nutrient concentrations shown in mg/L

TSI = Trophic State Index, a quick indicator of canal health. 52 sites this quarter scored as GOOD (<60). 8 sites scored FAIR (60-70), and two were POOR (>70).

The high TSI scores this quarter were due to poor water clarity, particularly in June. For example, secchi depth at site 7B in June was only 2 inches.

July August September 7th Canalwatch 4th Canalwatch 1st Canalwatch 16th Florida Yards 6th Labor Day Neighborhoods 17th The Mangrove Gathering @ introductory course Eco-Café 7:30-10:00pm 6:00 to 9:00 pm @ Rotary Park Info: 549-4606 Info: 432-2163 25th National Estuaries Day

24th plant sale at Rotary Park Cape Coral info: fnpscoccoloba.org

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