

Events

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 4th Quarter 2006

CanalWatch **Environmental Resources is Expanding** 2007 Schedule The City of Cape Coral's population is growing and with January 3rd this inflow of new residents comes a greater strain on natural February 7th resources. Demands of water, land and the biotic elements March 7th April 4th (animals and plants) that inhabit these systems will become May 2nd more stressed as Cape Coral escalates to build-out. June 6th July 5th Consequently, the Environmental Resources Division is August 1st expanding to meet these greater demands. For 2007 ERD has September 5th October 3rd filled three new positions consisting of an additional November 7th environmental biologist, an administrative secretary and an December 5th environmental technician. With these positions filled and in conjunction with our present staff, the Cape Coral In this Issue Environmental Resources Division will be able to provide and maintain the level of environmental service needed for Cape ERD is Expanding 1 Coral's increasing number of residents. - new staff members The new environmental biologist position will be filled Environmentally by Kimberly Cressman. Cherie Durante is pioneering the Speaking - environmental administrative secretary position and Bob Mondgock has taken topics over the environmental technician position. A warm welcome and congratulations is extended to them. Their service to the 3 Canalwatch Data - last quarter Environmental Resources Division will be greatly appreciated. analysis 4

Environmentally Speaking

Native Plant Profile

El Niño Southern Oscillation

El Niño refers to the ocean / atmospheric phenomenon that affects global climate change. The inception of this occurrence originates in the tropical Pacific Ocean. This is a reoccurring event every two to seven years, persist about 18 months, and has been recorded for the past 300 years.

The first reference of "El Niño" to climate fluctuations occurred around the 1880's, when Peruvian sailors named the warm northerly current "El Niño" (or *little child*, to describe Christ) because it was most noticeable around Christmas.

Trade winds in the Tropical Pacific generally blow east to west, but in an El Niño the east to west winds weaken or sometimes reverse. Widespread climatic change is the result, affecting patterns of rainfall and dryness around the world.

La Niña, often follows; this occurs when the water in the Western Pacific is warmer than usual. Again global climatic extremes persist until the climate stabilizes as equilibrium is achieved.

References:

National Oceanographic and Atmospheric Administration www.noaa.gov

Ochoa, G., Hoffman, J. and Tin, T. (2005). Climate: The Forces That Shape Our World and the Future of Life on Earth. Rodale Books; London.

Horsetail

Equisetum hyemale

This ancient plant (species of this plant have been in existence for 325 million years), is rush like in its appearance. Native throughout the United States it is found in the littoral zones along rivers and lakes. Horsetail grows to 4 feet in height and can tolerate a range of full sun to partial shade. Reproduction takes place through spores, but can colonize through creeping rhizomes. The spread of this plant makes it useful for erosion control along rivers and streams.



References:

Haehle, R. G., Brookwell, J. (1999). Native Florida Plants. Taylor Trade Publishing; Lanham, Maryland.

Atlas of Florida Vascular Plants www.plantatlas.usf.edu

				Ca	nal	Wate	ch C	ata	- F	our	th G	(uarte	r 200	06				
			Oct	ober					Nove	mber					Dece	mber		
STATION	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-P04	N02	NO3	NH3	TKN	T-N	T-PO4
1A	<0.05	0.27	<.1	1.20	1.47	0.15	<0.05	0.24	0.1	0.2	0.44	0.07	<0.05	0.22	0.1	0.2	0.42	0.06
1B	<0.05	0.45	0.1	0.5	0.95	0.10	<0.05	0.26	<0.1 0.1	0.1	0.36	0.07	-0.0F	0.00	0.1	0.1	0.20	0.05
1 <i>C</i> 3D	<0.05	0.27	0.2	1.00	1.27	0.13	₹0.05	0.25	0.1	0.2	0.45	<0.05	<0.05	0.26	0.1	0.1	0.36	0.05 <0.05
3F	10.03	0.21	0.2	1.00	1.21	0.10	<0.05	0.25	0.1	0.2	0.45	0.06	<0.05	0.26	<0.1	<0.1	0.26	<0.05
4D	<0.05	0.33	0.1	0.60	0.93	0.1	<0.05	0.28	<0.1	0.1	0.38	0.05	<0.05	0.23	0.1	0.1	0.33	<0.05
6D	<0.05	0.26	<.1	0.90	1.16	0.11												
6F	<0.05	0.28	0.20	1.00	1.28	0.2	<0.05	0.25	<0.1	0.1	0.35	0.07	<0.05	0.26	0.3	0.2	0.46	0.11
9A	<0.05	0.25	0.1	0.50	0.75	0.08	<0.05	0.26	0.2	0.2	0.46	0.06						
10B	<0.05	0.33	0.1	0.5	0.83	0.07	<0.05	0.35	0.1	0.1	0.45	<0.05	<0.05	0.27	<0.1	<0.1	0.27	<0.05
11 <i>C</i>	<0.05	0.26	0.1	0.2	0.46	0.14	<0.05	0.05	0.2	0.2	0.25	0.09	<0.05	0.25	0.1	0.1	0.35	0.07
16B	<0.05	0.21	0.1	0.20	0.41	<.05	<0.05	0.22	<0.1	0.2	0.42	<0.05	<0.05	0.26	<0.1	<0.1	0.26	<0.05
19D	<0.05	0.3	0.10	1.00	1.3	0.11	<0.05	0.29	0.1	0.1	0.39	0.07	<0.05	0.23	0.1	0.1	0.33	0.05
19E	<0.05	0.26	0.3	0.9	1.16	0.22	<0.05	0.30	0.1	0.1	0.40	0.09						
19F													<0.05	0.28	0.1	0.1	0.38	0.09
21B							40.0F	0.07	^.		0.47	0.10	<0.05	0.30	<0.1	<0.1	0.30	<0.05
21 <i>C</i> 21D	<0.05	0.27	0.1	0.5	0.77	0.1	<0.05	0.37	0.1	0.1	0.47	0.16	<0.05	0.26	<0.1	0.1	0.36	<0.05
21D 22B	\U.U3	0.21	V. I	0.5	0.11	0.1	<0.05	0.28	0.1	0.2	0.48	<0.07	<0.05	0.26	0.1	0.1	0.40	<0.05
22C	<0.05	0.21	<.1	<.01	0.21	<.05	<0.05	0.25	0.1	0.1	0.36	<0.05	<0.05	0.30	<0.1	0.1	0.40	0.05
22D	.0.00					1.55	<0.05	0.27	0.3	0.5	0.77	0.06	<0.05	0.23	<0.1	<0.1	0.31	<0.05
22F	<0.05	0.21	<.1	0.10	0.31	<.05	<0.05	0.31	0.1	0.1	0.41	<0.05	<0.05	0.28	<0.1	0.1	0.38	<0.05
26 <i>A</i>	<0.05	0.2	<.1	1.00	1.2	<.05							<0.05	0.24	0.1	0.1	0.34	<0.05
26 <i>C</i>	<0.05	0.23	<.1	0.1	0.33	<.05	<0.05	0.25	0.1	0.1	0.35	<0.05	<0.05	0.23	<0.1	<0.1	0.23	<0.05
26D	<0.05	0.27	0.1	<.1	0.27	<.05	<0.05	0.13	0.1	0.1	0.23	<0.05	<0.05	0.25	<0.1	<0.1	0.25	<0.05
28D	<0.05	0.26	0.1	0.1	0.36	<.05	<0.05	0.30	0.1	0.1	0.40	0.07	<0.05	0.33	<0.1	0.5	0.83	<0.05
35 <i>A</i>	<0.05	0.18	0.1	0.3	0.48	<.05	<0.05	0.26	0.1	<0.1	0.26	<0.05	<0.05	0.23	<0.1	<0.1	0.23	<0.05
39 <i>A</i>	<0.05	0.24	<.1	<.1	0.24	<.05							<0.05	0.26	<0.1	<0.1	0.26	<0.05
41 <i>A</i>	<0.05	0.2	<.1	0.1	0.3	<.05	<0.05	0.29	<0.1	<0.1	0.29	0.15	<0.05	0.22	<0.1	<0.1	0.22	<0.05
42A	<0.05	0.19	<.1	0.20	0.39	<.05	<0.05	0.25	<0.1	<0.1	0.25	<0.05	<0.05	0.33	<0.1	<0.1	0.33	<0.05
43A	<0.05	0.22	<.1	<.1	0.22	<.05	<0.05	0.23	<0.1	<0.1	0.23	<0.05	<0.05	0.16	<0.1	<0.1	0.16	<0.05
48A	<0.05	0.24	0.2	0.2	0.44	<.05	<0.05	0.22	<0.1	<0.1	0.22	<0.05			-0.4			
49A	<0.05	0.27	<.1	<.1	0.27	<.05	<0.05	0.30	<0.1	0.1	0.40	<0.05	<0.05	0.23	<0.1	<0.1	0.23	<0.05
52B 58B	<0.05	0.23	<.1	0.1	0.23	<.05	<0.05	0.26	<0.1	<0.1	0.26	0.05	<0.05	0.27	<0.1	<0.1	0.27	<0.05 0.07
58E	<0.05	0.23	0.1	0.9	1.13	<.05	<0.05	0.24	0.1	0.1	0.34	<0.05	<0.05	0.26	<0.1	<0.1	0.26	<0.05
58F	<0.05	0.21	<.1	0.5	0.71	<.05	<0.05	0.19	0.1	0.1	0.29	<0.05	<0.05	0.21	<0.1	<0.1	0.21	0.06
58 <i>G</i>	<0.05	0.21	<.1	0.5	0.71	<.05	<0.05	0.20	0.1	0.1	0.30	<0.05	<0.05	0.25	<0.1	<0.1	0.25	<0.05
60A	<0.05	0.19	<.1	0.3	0.49	<.05	<0.05	0.24	0.1	0.1	0.34	<0.05	<0.05	0.23	<0.1	<0.1	0.23	<0.05
62 <i>C</i>	<0.05	0.19	<.1	<.1	0.19	<.05	<0.05	0.24	0.1	0.1	0.34	<0.05	<0.05	0.22	<0.1	<0.1	0.22	<0.05
64B							<0.05	0.26	0.1	0.1	0.36	<0.05						
64C	<0.05	0.37	0.1	0.2	0.57	0.08	<0.05	0.28	0.1	0.1	0.38	0.06	<0.05	0.24	<0.1	<0.1	0.24	<0.05
66A							<0.05	0.27	<0.1	<0.1	0.27	<0.05						
66C	<0.05	0.31	<.01	0.20	0.51	0.09												
67A	<0.05	0.26	0.10	0.10	0.36	<.05	<0.05	0.30	<0.1	<0.1	0.30	0.06	<0.05	0.29	<0.1	<0.1	0.29	0.05
69A													<0.05	0.26	<0.1	<0.1	0.26	<0.05
70B	<0.05	0.22	0.20	0.20	0.42	<.05	<0.05	0.36	<0.1	<0.1	0.36	<0.05	<0.05	0.33	<0.1	<0.1	0.33	<0.05
70D	<0.05	0.23	<.1	0.80	1.03	0.05	<0.05	0.39	<0.1	<0.1	0.39	<0.05	<0.05	0.34	<0.1	<0.1	0.34	<0.05
72A 74B	<0.05	0.28	<.1	0.80	1.08	<.05	<0.05	0.20	<0.1	<0.1	0.20	<0.05	Z0 05	0.22		ZO 1	0.22	Z0 05
83A	<0.05 <0.05	0.23	0.20 <.1	0.80	1.03 0.15	<.05	<0.05	0.21	<0.1	<0.1	0.21	<0.05	<0.05	0.23	<0.1	<0.1	0.23	<0.05
85 <i>C</i>	<0.05	0.15	<.1	0.2	0.15	<.05	<0.05	0.21	<0.1	<0.1	0.21	<0.05	<0.05	0.21	<0.1	<0.1	0.21	<0.05
88B	<0.05	0.26	0.1	0.2	0.47	<.05	<0.05	0.24	0.1	0.1	0.22	<0.05	<0.05	0.26	<0.1	<0.1	0.26	<0.05
90A	<0.05	0.23	0.10	0.63	<0.050		<0.05	0.27	<0.1	<0.1	0.27	<0.05	<0.05	0.25	<0.1	<0.1	0.25	<0.05
WQ	1.0	1.0	æ	æ	2.0	0.46	1.0	1.0	≈	~	2.0	0.46	1.0	1.0	≈	~	2.0	0.46
	Laboratory Analysis			FL Storm Water			WQ = Florida State Storm Water Quality Standard											
	NO2 = Nitrites NO3 = Nitrates NH3 = Ammonia			Quality Standard			Cape Coral's freshwater canal system is our secondary line of stormwater treatment; therefore,											
				< 1.0 mg/L <1.0 mg/L = No limit set			your samples are compared to the Florida State Storm Water Quality Standards.											
	TKN = Total Kjeldahl Nitrogen			= No limit set			= No Sample Supplied. All Units: mg/L = milligra						ms/liter					
	TN = Total Nitrogen T-PO4 = Total Phosphorus			<2.0 mg/L									^					
	1-PO4=	- 1 otal Pho	ospnorus	< 0.40	mg/L		~	= No Wate	er Quality 5	Standard se	t for this l	imit.					3	

Events

February	March	April				
Canalwatch 7 th	Canalwatch 7 th	Canalwatch 4 th Easter Sunday 8 th				
St. Valentines Day 14 th	FYN University Class 17 th 9am – 3pm	FYN Design Class 6 th , 13 th , 20 th 1pm – 4pm				
		Rain Barrel Class 21 st 9am Native Plant Sale At Rotary Park 22 nd				

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