

# Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 4<sup>th</sup> Quarter 2016

#### **Environmental News**

## **Native Plant profile**

#### **Great American Cleanup**

Keep Lee County Beautiful is once again teaming up with the Northwest Cape Coral Neighborhood Association for the Earth Day Trash Bash. The event will kick off at the Burnt Store Public Boat Ramp on April 22<sup>nd</sup> at 9:00am. Volunteers from the community are encouraged to join in the effort.

Additionally, other cleanup activities will occur in Cape Coral and throughout Lee County that day. Please visit <a href="http://www.klcb.org/great-american-cleanup.html">http://www.klcb.org/great-american-cleanup.html</a> for more information.

### 17<sup>th</sup> Annual Canalwatch Appreciation Luncheon

Save the date!!! The 17<sup>th</sup> Annual Canalwatch appreciation luncheon will be on April 5th at the Cape Coral Yacht Club Pavilion. Please call 574-0785 to RSVP.

Hope to see you there!

#### Spring Wildflowers

Spring can seemingly last for months in South Florida with the cooler milder weather that persists over the region. One true sign that spring is near is the appearance of numerous wildflowers that occur along roadways, in medians and vacant lots. Below are a few of the more common varieties, but still eyecatching during this arid time of year.







Clockwize from the top: Oakleaf Fleabane Erigeron quercifolius, Tickseed Coreopsis leavenworthii, Marsh Pink Sabatia grandiflora

Inside This Issue:
Native Plants 1
Backyard Habitat 2
Extra Field Data 3
Lab Data 4-5

Questions? Comments? Let us know!

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## 15<sup>th</sup> Annual Burrowing Owl Festival Cape Coral Friends of Wildlife ROTARY PARK ENVIRONMENTAL CENTER

## February 25, 2017

This year's Owl Festival was held on February 25<sup>th</sup> and has proved to be an exceptionally successful year for Cape Coral's most popular nature festival.

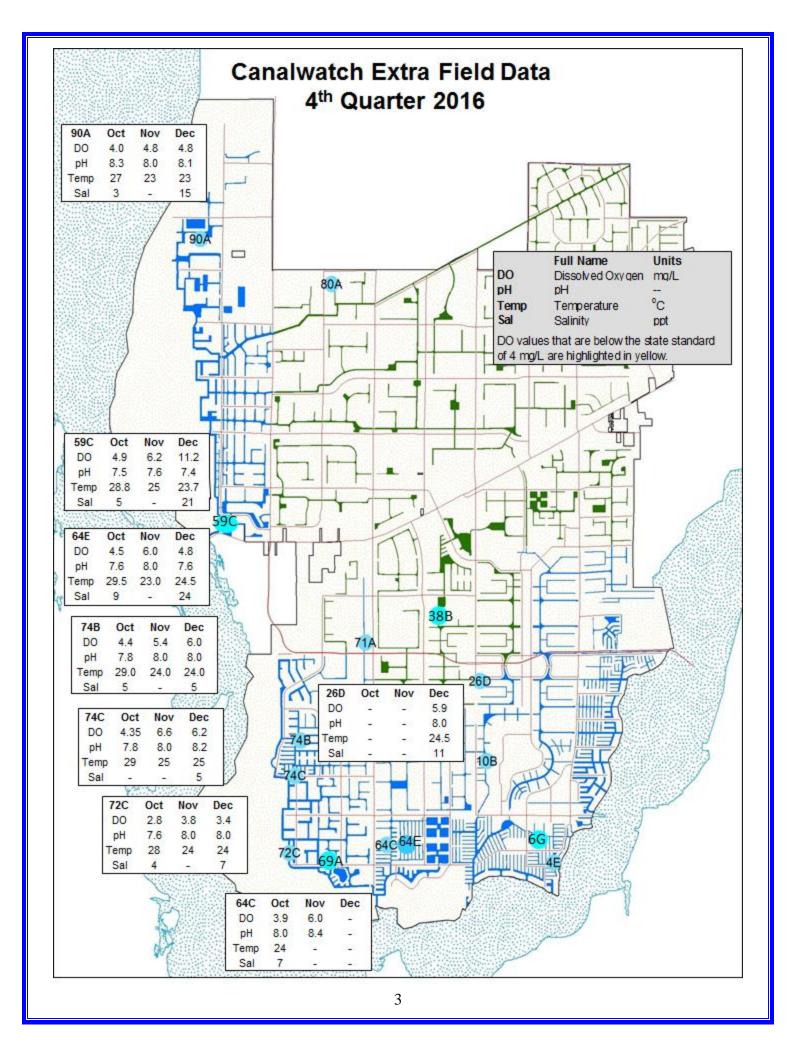
This year's festival included the Mote Marine Mobile Education Exhibit, representatives from Florida Department of Environmental Protection, Florida State Parks, Lee County, Charlotte Harbor National Estuary Program and numerous environmental and wildlife organizations with educational exhibits and live animals. Again, this year the Cape Coral Friends of Wildlife provided bus tours to nearby burrowing owl burrows, demonstrations on burrowing owl burrow maintenance and residential starter burrows throughout this one day event. Visitors to the festival also had the opportunity to attend wildlife presentations, demonstrations with live animals, tour the live interactive Tom Allen Memorial Butterfly House and learn about many natural wonders of Cape Coral and Southwest Florida.

Venders were on site to sell nature art, photographs and crafts. The popular Children Creative Corner gave children and families an opportunity to have some hands-on fun. Food vendors were available to be sure that visitors had tasty festival cuisine and treats for nourishment for the day.

The burrowing owl calls much Cape Coral its home. Cape Coral is known to have one of the largest population of the Florida Burrowing Owl. In the State of Florida, the burrowing owl is listed as a threatened species. These petite birds create or take over burrows where they nest from early February through mid-July. The burrowing owl has been deemed the official city bird of Cape Coral.



Missed out on this year's events? Mark your calendars for the 16<sup>th</sup> Annual Burrowing Owl Festival, February 24<sup>th</sup> 2018, for a family fun filled event which celebrates the start of the Burrowing Owl nesting season and all of Cape Coral's natural wildlife treasures.



	bd = be	low dete	ection		benchmark numbers: Marked data are in the highest 20% of values found by Hand et. al, 1988.														
			Octobe	er 2016			November 2016						December 2016						
	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	<b>&lt;</b> 1.0	<1.0	none	set	<2.0	<0.46	<1.0	<1.0	none	e set	<2.0	<0.46	TSI
3F	bd	bd	0.4	0.6	0.6	0.04	bd	0.27	0.5	0.4	0.40	0.02	bd	0.08	0.1	0.5	0.5	0.04	10.55
5D	bd	0.06	0.4	0.9	0.9	0.08	bd	0.25	0.2	0.3	0.55	0.03	bd	0.09	0.1	0.5	0.5	0.05	42.17
6F	bd	bd	0.4	0.8	0.8	0.02	bd	0.05	0.1	0.4	0.45	0.02	bd	0.05	0.2	0.5	0.5	0.04	37.12
6G							bd	0.09	0.1	0.4	0.49	0.02							53.41
<b>6</b> J	bd	bd	0.3	0.8	0.8	0.06	bd	0.07	0.5	0.3	0.37	0.02							68.71
<b>7</b> E	bd	0.11	0.4	0.8	0.91	0.10	bd	0.16	0.5	0.2	0.36	0.02	bd	bd	0.5	0.2	0.2	0.04	44.34
<b>7</b> F	bd	0.07	0.5	0.7	0.8	0.15	bd	0.16	0.5	0.3	0.46	0.02	bd	bd	0.5	0.5	0.5	0.04	47.95
10C	bd	bd	0.3	0.3	0.3	0.11	bd	0.18	0.5	0.3	0.48	0.02	bd	0.07	0.1	0.5	0.5	0.03	43.31
11E	bd	0.16	0.7	0.8	1.0	0.11	bd	0.27	0.5	0.4	0.67	0.02	bd	bd	0.5	0.5	0.5	0.05	32.33
12H	bd	0.04	0.3	0.8	0.8	0.09	bd	0.29	0.5	0.3	0.59	0.02	bd	bd	0.5	0.5	0.5	0.04	33.64
15E							bd	0.10	0.5	0.4	0.50	0.02							50.00
16E	bd	bd	0.5	0.4	0.4	0.06	bd	bd	0.5	0.5	0.5	0.02	bd	bd	0.5	0.5	0.5	0.03	23.08
16H	bd	bd	0.3	0.6	0.6	0.10	bd	bd	0.5	0.1	0.1	0.02	bd	bd	0.5	0.3	0.3	0.03	35.62
19D	bd	0.07	0.3	0.9	0.67	0.11	bd	0.12	0.5	0.4	0.52	0.03	bd	0.09	0.5	0.1	0.1	0.05	48.91
19K	bd	bd	0.3	0.9	0.9	0.03	bd	0.08	0.5	0.3	0.38	0.03	bd	bd	0.1	0.1	0.1	0.05	51.49
21D	bd	bd	0.3	0.6	0.6	0.04	bd	0.06	0.5	0.5	0.56	0.02	bd	bd	0.5	0.1	0.1	0.04	27.63
21J	bd	bd	0.3	0.4	0.4	0.12													56.90
22G	bd	bd	0.4	0.6	0.6	0.11	bd	0.06	0.5	0.5	0.56	0.02							44.06
23C	bd	bd	0.5	0.5	0.5	0.05	bd	bd	0.5	0.4	0.4	0.02							40.17
26D							bd	0.06	0.1	0.3	0.36	0.02	bd	bd	0.5	0.3	0.3	0.02	48.92
27A	bd	bd	0.5	1.6	1.6	0.05	bd	0.05	0.5	0.3	0.35	0.02	bd	bd	0.1	2.0	2.0	0.07	54.36
27B	bd	bd	0.4	1.2	1.2	0.05	bd	bd	0.1	0.4	0.4	0.02	bd	bd	0.9	2.8	2.8	0.24	56.99
27C	bd	bd	0.3	1.9	1.9	0.05	bd	bd	0.1	0.4	0.4	0.03	bd	0.28	0.4	2.2	2.2	0.15	54.36
27D	bd	bd	0.5	1.8	1.8	0.03	bd	bd	0.5	0.4	0.4	0.02	bd	bd	0.1	10.4	10.4	0.61	44.86
28D							bd	bd	0.5	0.5	0.5	0.02	bd	bd	0.1	0.5	0.5	0.02	20.12
31C	bd	0.20	0.3	0.5	0.2	0.02	bd	0.12	0.5	0.3	0.42	0.02	bd	0.20	0.5	0.1	0.1	0.02	22.04
38B	bd	bd	0.4	0.3	0.3	0.06	bd	bd	0.5	0.4	0.4	0.02	bd	bd	0.1	0.2	0.2	0.03	42.59
41A	bd	bd	0.4	0.5	0.5	0.07	bd	bd	0.5	0.6	0.6	0.02	bd	bd	0.5	0.1	0.1	0.02	31.57
41B	bd	bd	0.4	0.4	0.4	0.14	bd	bd	0.1	1.1	1.1	0.02	bd	bd	0.1	0.2	0.2	0.02	31.01
45D							bd	bd	0.2	0.4	0.4	0.02	bd	bd	0.5	0.1	0.1	0.03	39.54
45F	bd	bd	0.4	0.3	0.3	0.18	bd	bd	0.5	0.3	0.3	0.02	bd	0.05	0.5	0.5	0.5	0.03	52.18
48A	bd	bd	0.4	0.4	0.4	0.02							bd	bd	0.5	0.1	0.1	0.02	39.98
52B	bd	bd	0.5	0.3	0.3	0.02	bd	0.06	0.1 4	0.2	0.26	0.02	bd	bd	0.5	0.1	0.1	0.02	35.44

0.14 0.14 0.16 0.17 0.16 0.13 0.14 0.05 0.06 bd 0.05 bd bd bd	0.4 0.5 0.5 0.4 0.4 0.5 0.6 0.5 0.4 0.4 0.4 0.4 0.5 0.4	0.3 0.4 0.4 0.5 0.4 0.4 0.4 0.3 0.5 0.5 0.6 0.7 0.2 0.7 0.8	0.3 0.54 0.54 0.66 0.57 0.56 0.53 0.44 0.6 0.5 0.6 0.75 0.2 0.7 0.8	0.12 0.03 0.12 0.12 0.11 0.11 0.11 0.10 0.12 0.12 0.01 0.10 0.10 0.07 0.06	bd b	bd bd bd 0.06 bd	0.3 0.3 0.2 0.4 0.2 0.2 0.4 0.2 0.4 0.5 0.1	0.6 0.4 0.3 0.7 0.2 0.8 0.3 0.4 0.5 0.4 0.3 0.3 0.4	0.6 0.4 0.3 0.7 0.26 0.8 0.3 0.4 0.5 0.4 0.46 0.3 0.4	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.04 0.02 0.02 0.02 0.02	bd	0.05 0.06 0.07 0.06 bd bd bd	0.6 0.2 0.1 0.4 0.1 0.3 0.1 0.5 0.5 0.5	0.6 0.5 0.5 0.5 0.5 0.5 0.1 0.1 0.5	0.6 0.5 0.5 0.5 0.5 0.5 0.3 0.1 0.5 0.1	0.15 0.02 0.04 0.06 0.05 0.05 0.11 0.11 0.05 0.05	62.39 34.25 48.65 37.83 40.01 40.05 24.52 21.99 32.88 20.05 28.91 42.88 46.85 24.43 41.07 44.42 38.07
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0.05 0.06 bd 0.05 bd bd bd	0.4 0.5 0.4 0.4 0.4 0.5 0.4	0.5 0.5 0.6 0.7 0.2 0.7	0.6 0.5 0.6 0.75 0.2 0.7	0.12 0.01 0.10 0.10 0.07 0.06	bd bd bd bd	bd bd 0.16 bd bd	0.2 0.1 0.5 0.5	0.5 0.4 0.3 0.3	0.5 0.4 0.46 0.3	0.04 0.02 0.02 0.02	bd bd bd	bd bd bd	0.5 0.5 0.5	0.1 0.5 0.1	0.1 0.5 0.1	0.11 0.05 0.05	42.88 46.85 24.43 41.07 44.42
0.06 bd 0.05 bd bd bd	0.5 0.4 0.4 0.4 0.5 0.4	0.5 0.6 0.7 0.2 0.7 0.8	0.5 0.6 0.75 0.2 0.7	0.01 0.10 0.10 0.07 0.06	bd bd bd bd	bd bd 0.16 bd bd	0.2 0.1 0.5 0.5	0.5 0.4 0.3 0.3	0.5 0.4 0.46 0.3	0.04 0.02 0.02 0.02	bd bd bd	bd bd bd	0.5 0.5 0.5	0.1 0.5 0.1	0.1 0.5 0.1	0.11 0.05 0.05	46.85 24.43 41.07 44.42
0.06 bd 0.05 bd bd bd	0.5 0.4 0.4 0.4 0.5 0.4	0.5 0.6 0.7 0.2 0.7 0.8	0.5 0.6 0.75 0.2 0.7	0.01 0.10 0.10 0.07 0.06	bd bd bd bd	bd 0.16 bd bd	0.1 0.5 0.5	0.4 0.3 0.3	0.4 0.46 0.3	0.02 0.02 0.02	bd bd	bd bd	0.5 0.5	0.5 0.1	0.5 0.1	0.05 0.05	24.43 41.07 44.42
bd 0.05 bd bd bd	0.4 0.4 0.4 0.5 0.4	0.6 0.7 0.2 0.7 0.8	0.6 0.75 0.2 0.7	0.10 0.10 0.07 0.06	bd bd bd	0.16 bd bd	0.5 0.5	0.3 0.3	0.46 0.3	0.02 0.02	bd	bd	0.5	0.1	0.1	0.05	41.07 44.42
0.05 bd bd bd	0.4 0.4 0.5 0.4	0.7 0.2 0.7 0.8	0.75 0.2 0.7	0.10 0.07 0.06	bd bd	bd bd	0.5	0.3	0.3	0.02	bd	bd	0.5	0.1	0.1	0.05	44.42
bd bd bd bd	0.4 0.5 0.4	0.2 0.7 0.8	0.2 0.7	0.07 0.06	bd	bd											
bd bd bd	0.5 0.4	0.7 0.8	0.7	0.06			0.1	0.4	0.4	0.02	bd	bd	0.5	0.5	0.5	0.04	38.07
bd bd	0.4	0.8			bd												
bd			0.8			bd	0.1	0.5	0.5	0.02	bd	bd	0.5	0.2	0.2	0.04	46.26
	0.4		0.0	0.02	bd	bd	0.1	0.6	0.6	0.02	bd	bd	0.5	0.5	0.5	0.02	40.62
hal		0.7	0.7	0.02	bd	bd	0.1	0.2	0.2	0.02	bd	bd	0.1	0.5	0.5	0.02	38.65
มน	0.4	0.5	0.5	0.15	bd	bd	0.1	0.7	0.7	0.02	bd	bd	0.5	0.5	0.5	0.06	50.12
0.08	0.3	0.5	0.58	0.02	bd	bd	0.3	0.4	0.4	0.02	bd	bd	0.1	0.2	0.2	0.02	41.81
0.12	0.40	0.50	0.58	0.08		bd	0.45	0.40	0.41	0.02		bd	0.50	0.50	0.50	0.04	40.40
0.20	0.70	1.90	1.90	0.18		0.29	0.50	1.10	1.10	0.04		0.28	0.90	10.40	10.40	0.61	68.71
organic)				High levels of nutrients in our canals can indicate the presence of fertilizer						TSI = Trophic State Index, a quick indicator of canal health.							alth.
NO3 = Nitrate (inorganic)				septic systems. Excessive nutrients						FAIR (60-70), and zero scored POOR (>70).							
NH3 = Ammonia (inorganic)			osphate	can lead to nuisance plant growth and algal blooms.						the lack of stormwater influence. A drawback to this is the low							
nutrient concentrations sh		/L								direct re effects.	sult of li Please	ttle to no	rainfall	combine	ed with e	evapora	ative
r	organic) norganic)	rganic) Nitroge  rganic) TN = (inorganic) TPO4 =	rganic) Nitrogen (organic organic) TN = Total Nit (inorganic + organic) TPO4 = Total Ph	TN = Total Nitrogen (inorganic + organic)  TPO4 = Total Phosphate	rganic) Nitrogen (organic + NH4) can in  organic) TN = Total Nitrogen (inorganic + organic) runoff septic can lea  organic) TPO4 = Total Phosphate	rganic) Nitrogen (organic + NH4) can indicate the runoff or efflue septic system can lead to nui algorithms.	rganic) Nitrogen (organic + NH4) can indicate the prese runoff or effluent from septic systems. Exce can lead to nuisance p algal bloom	rganic) Nitrogen (organic + NH4) can indicate the presence of fer runoff or effluent from wastewa septic systems. Excessive nu can lead to nuisance plant grow algal blooms.	rganic) Nitrogen (organic + NH4) 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.	rganic) Nitrogen (organic + NH4) 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.	rganic) Nitrogen (organic + NH4) 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.  TP04 = Total Phosphate ations shown in mg/L  TSI = Trunoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate direct refects.	rganic) Nitrogen (organic + NH4) 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.  TP04 = Total Phosphate can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate 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.	riganic) Nitrogen (organic + NH4)  TSI = Trophic State Indicate In	Nitrogen (organic + NH4)  TSI = Trophic State Index, a quintriganic)  TN = Total Nitrogen (inorganic + organic)  TP04 = Total Phosphate  TOTAL Phosphate  TSI = Trophic State Index, a quintriganic in runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate  TSI = Trophic State Index, a quintriganic in runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate  TSI = Trophic State Index, a quintriganic in runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  Tourth quarter water quality has the lack of stormwater influence water levels in many of the fresh direct result of little to no rainfall effects. Please heed watering results of little to no rainfall effects.	Nitrogen (organic + NH4)  TN = Total Nitrogen (inorganic + organic)  TP04 = Total Phosphate  TP04 = Total Phosphate  Total Phosphate  Total Phosphate  TSI = Trophic State Index, a quick indicate the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate  TSI = Trophic State Index, a quick indicate the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate  TSI = Trophic State Index, a quick indicate the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  Fourth quarter water quality has seen method the lack of stormwater influence. A draw water levels in many of the freshwater bedirect result of little to no rainfall combine effects. Please heed watering restriction	Nitrogen (organic + NH4)  TSI = Trophic State Index, a quick indicator of continuous programs of the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TP04 = Total Phosphate runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TSI = Trophic State Index, a quick indicator of continuous plant growth in growth in growth quarter scored as GOOD (<60). 2 significant from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.  TOUT = Trophic State Index, a quick indicator of continuous plant growth in growth in growth quarter scored as GOOD (<60). 2 significant from wastewater or septic systems. Excessive nutrients for the plant growth and algal blooms.  TOUT = Trophic State Index, a quick indicator of continuous plant growth in growth and algal blooms.	Nitrogen (organic + NH4)  TSI = Trophic State Index, a quick indicator of canal head from the program of the pr



Interested in learning about design consideration 22<sup>nd</sup> 9:00 to 1:00pm at for home landscapes using all Florida natives. Register for the Florida Yards and Neighborhoods Yard Design course. Two consecutive Fridays, April 14<sup>th</sup> and the 21<sup>st</sup>. For more information, please call 239-549-4606

Don't miss out on the Earth Day Native Plant Sale

held Saturday, April Rotary Pak Environmental Center.



Also in conjunction with the Native Plant Sale is the Rain Barrel Workshop.

Become educated in rainwater storage and build a rain barrel for your home landscape needs. For more information please call 239-549-4606.

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