# Canal Current

**A wave of information for Cape Coral's Canalwatch volunteers**

Newsletter: 4th Quarter 2007

## Coming Soon

**Canal Clean-up**

Mark your calendars!!! As part of the Keep America Beautiful Great American Clean-up event, the City of Cape Coral is partnering with Keep Lee County Beautiful to host a Canal Clean-up day. The clean-up begins on March 30th from 8am – noon at the Cape Coral Yacht Club. Please Join Us!!! For more information please contact 574-0785 or kcressman@capecoral.net

**Canalwatch BBQ**

Save the date!!! The Canalwatch BBQ will be on April 2nd at the Cape Coral Yacht Club. Please R.S.V.P. no later than Friday March 21st. Please call 574-0785 to R.S.V.P. Hope to see you there!

## In This Issue:



**Questions? Comments? Let us know!**
(239)574-0785
Harry: hphillip@capecoral.net
Kim: kcressman@capecoral.net

## Native Plant Profile

**Seagrape**
*Coccoloba uvifera*

Seagrape is often found along coastal habitats such as maritime forests and hammocks, but is also widely used as a hedge plant in home landscapes. Seagrape can grow to 30 feet in sun or partial shade and is drought and salt tolerant. The grapes are edible and can be used to make jam, but are most often consumed by wildlife.

Leaf litter may be a problem around pools or sidewalks, but otherwise the seagrape tree provides excellent shade if allowed to grow.

bd = below detection  stormwater quality standards are in blue -- values that exceed these standards are highlighted in red

| | October 2007 | | | | | | November 2007 | | | | | | December 2007 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| Std. | <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 set | | <2.0 | <0.46 | TSI |
| 1A | bd | bd | 0.6 | 1.5 | 1.50 | 0.01 | bd | bd | 0.2 | 1.4 | 1.40 | 0.09 | bd | bd | 1.1 | 1.4 | 1.40 | 0.06 | 49.54 |
| 1C | bd | 0.05 | 0.2 | 1.7 | 1.75 | 0.09 | bd | bd | bd | 1 | 1.00 | 0.06 | | | | | | | 57.08 |
| 1D | bd | 0.10 | 0.1 | 1.5 | 1.60 | 0.10 | | | | | | | bd | bd | 0.5 | 1.1 | 1.10 | bd | 55.87 |
| 3D | bd | bd | bd | 1.3 | 1.30 | 0.12 | | | | | | | | | | | | | 59.68 |
| 3F | bd | bd | bd | 1 | 1.00 | 0.05 | bd | bd | 0.1 | 0.8 | 0.80 | bd | | | | | | | 48.33 |
| 4D | bd | 0.08 | 0.4 | 1.7 | 1.78 | 0.07 | bd | bd | bd | 1.1 | 1.10 | 0.05 | bd | bd | 1.3 | 3 | 3.00 | 0.05 | 54.18 |
| 4E | bd | bd | 0.5 | 1.6 | 1.60 | 0.06 | bd | bd | 0.1 | 1.5 | 1.50 | 0.05 | bd | 0.05 | 0.2 | 6.2 | 6.25 | 0.05 | 58.21 |
| 6F | bd | bd | 0.3 | 1.1 | 1.10 | 0.09 | bd | bd | bd | 1.2 | 1.20 | 0.08 | bd | bd | 0.1 | 2.9 | 2.90 | 0.06 | 58.41 |
| 7B | | | | | | | bd | bd | 0.1 | 1 | 1.00 | 0.07 | bd | bd | 0.2 | 2.8 | 2.80 | bd | 43.95 |
| 10B | | | | | | | bd | bd | 0.2 | 1 | 1.00 | 0.06 | bd | bd | 0.3 | 2.7 | 2.70 | bd | 49.18 |
| 11C | bd | bd | 0.8 | 1.1 | 1.10 | 0.08 | bd | bd | 0.4 | 1.8 | 1.80 | 0.08 | bd | bd | 1.1 | 3.7 | 3.70 | 0.06 | 59.33 |
| 11D | bd | bd | bd | 1.3 | 1.30 | 0.13 | bd | bd | 0.4 | 1.7 | 1.70 | 0.09 | bd | bd | bd | 2.9 | 2.90 | bd | 53.36 |
| 13A | bd | bd | bd | 1.4 | 1.40 | 0.08 | bd | bd | bd | 2.4 | 2.40 | 0.07 | bd | bd | 0.2 | 3.2 | 3.20 | bd | 51.19 |
| 15D | bd | bd | bd | 1.1 | 1.10 | bd | bd | bd | 0.2 | 1.2 | 1.20 | bd | bd | bd | 0.1 | 2.8 | 2.80 | bd | 50.21 |
| 17B | | | | | | | | | | | | | bd | bd | bd | 2.2 | 2.20 | bd | 41.47 |
| 19D | bd | bd | bd | 1.2 | 1.20 | 0.14 | bd | bd | 0.4 | 1.5 | 1.50 | 0.11 | bd | 0.05 | 0.4 | 3.1 | 3.15 | bd | 54.54 |
| 19E | bd | bd | 0.5 | 2 | 2.00 | 0.18 | bd | bd | 0.2 | 1.7 | 1.70 | 0.13 | bd | 0.05 | 0.2 | 3.2 | 3.25 | 0.10 | 67.64 |
| 19G | bd | bd | 0.2 | 1.6 | 1.60 | 0.12 | bd | bd | bd | 2.1 | 2.10 | 0.07 | bd | 0.07 | 0.2 | 3.1 | 3.17 | bd | 56.96 |
| 20E | bd | bd | bd | 1.4 | 1.40 | 0.11 | | | | | | | bd | bd | 0.1 | 2.6 | 2.60 | bd | 52.46 |
| 21D | bd | bd | bd | 1.1 | 1.10 | 0.06 | bd | bd | 0.2 | 1.3 | 1.30 | 0.08 | bd | bd | 0.2 | 3 | 3.00 | 0.05 | 56.58 |
| 22B | bd | bd | 0.3 | 1 | 1.00 | 0.06 | bd | bd | 0.2 | 1 | 1.00 | 0.05 | bd | bd | 0.3 | 2.7 | 2.70 | bd | 55.33 |
| 22C | bd | bd | bd | 1.2 | 1.20 | bd | | | | | | | bd | bd | 0.3 | 2.6 | 2.60 | bd | 41.47 |
| 22D | bd | bd | bd | 2.2 | 2.20 | 0.05 | bd | 0.06 | 0.2 | 0.7 | 0.76 | 0.06 | bd | bd | 0.1 | 2.7 | 2.70 | 0.05 | 57.66 |
| 22F | | | | | | | bd | 0.06 | 0.8 | 2.9 | 2.96 | 0.07 | | | | | | | 57.98 |
| 26A | bd | 0.06 | bd | 1.2 | 1.26 | bd | | | | | | | bd | bd | bd | 2.7 | 2.70 | 0.07 | 55.56 |
| 26C | bd | bd | 1.5 | 1.3 | 1.30 | bd | | | | | | | bd | bd | 0.2 | 3.2 | 3.20 | 0.41 | 65.80 |
| 26D | bd | bd | 0.4 | 1.5 | 1.50 | 0.09 | bd | bd | 0.2 | 1.3 | 1.30 | bd | bd | bd | bd | 2.2 | 2.20 | bd | 49.98 |
| 28D | bd | bd | bd | 1 | 1.00 | bd | bd | bd | 0.1 | 6.4 | 6.40 | bd | | | | | | | 41.47 |
| 35A | bd | bd | bd | 0.9 | 0.90 | bd | bd | bd | bd | 0.9 | 0.90 | bd | bd | bd | bd | 2.8 | 2.80 | bd | 61.30 |
| 41A | bd | bd | bd | 1 | 1.00 | bd | bd | bd | bd | 0.9 | 0.90 | bd | bd | bd | bd | 1.6 | 1.60 | bd | 54.35 |
| 42A | bd | 0.09 | bd | 2.1 | 2.19 | bd | | | | | | | bd | bd | 0.1 | 1.5 | 1.50 | bd | 58.08 |
| 43A | bd | bd | bd | 1 | 1.00 | bd | | | | | | | bd | bd | 0.2 | 1.2 | 1.20 | bd | 41.47 |
| 48A | | | | | | | | | | | | | bd | bd | 2.1 | 1.3 | 1.30 | bd | 52.57 |
| 49A | bd | 0.07 | 0.6 | 1 | 1.07 | bd | bd | bd | 0.2 | 0.8 | 0.80 | bd | bd | 0.08 | 0.3 | 0.4 | 0.48 | bd | 61.93 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **52B** | bd | bd | bd | 1.9 | 1.90 | bd | bd | bd | bd | 0.7 | 0.70 | bd | bd | bd | 0.2 | 0.3 | 0.30 | bd | 39.20 |
| **55B** | bd | bd | 2.5 | 2.1 | 2.10 | bd | bd | bd | 0.2 | 1.4 | 1.40 | bd | bd | bd | 0.2 | 2.6 | 2.60 | bd | 41.47 |
| **58E** | bd | bd | bd | 1 | 1.00 | bd | bd | bd | bd | 1.2 | 1.20 | bd | bd | bd | bd | 2.9 | 2.90 | bd | 44.36 |
| **58F** | bd | bd | bd | 1.1 | 1.10 | bd | bd | bd | bd | 1.3 | 1.30 | bd | bd | bd | 0.1 | 4.5 | 4.50 | bd | 49.85 |
| **58G** | bd | bd | bd | 1 | 1.00 | bd | bd | bd | 0.2 | 1.3 | 1.30 | bd | bd | bd | 0.2 | 2.8 | 2.80 | bd | 43.37 |
| **59B** | bd | bd | bd | 1.3 | 1.30 | bd | bd | 0.06 | 0.3 | 1.3 | 1.36 | bd | bd | bd | bd | 2.9 | 2.90 | bd | 43.20 |
| **60A** | bd | 0.07 | bd | 1.1 | 1.17 | bd | bd | bd | 0.3 | 1.5 | 1.50 | bd | bd | bd | 0.2 | 2.1 | 2.10 | bd | 42.40 |
| **62C** | bd | bd | bd | 2.4 | 2.40 | bd | bd | bd | bd | 1 | 1.00 | bd | bd | bd | bd | 1.5 | 1.50 | bd | 51.41 |
| **64B** | bd | 0.11 | bd | 1.1 | 1.21 | 0.07 | bd | 0.07 | 0.1 | 1 | 1.07 | 0.05 | bd | 0.07 | 0.1 | 1.9 | 1.97 | bd | 46.97 |
| **64C** | | | | | | | bd | 0.08 | 0.1 | 1.2 | 1.28 | bd | bd | 0.08 | bd | 2 | 2.08 | bd | 39.58 |
| **66A** | | | | | | | | | | | | | bd | bd | bd | 2 | 2.00 | bd | 55.85 |
| **67A** | | | | | | | bd | 0.05 | 0.1 | 1.4 | 1.45 | 0.06 | bd | 0.06 | bd | 2.1 | 2.16 | bd | 49.97 |
| **67C** | bd | 0.07 | bd | 4.7 | 4.77 | 0.06 | bd | 0.05 | 0.2 | 1 | 1.05 | 0.05 | | | | | | | 47.22 |
| **67D** | | | | | | | bd | 0.05 | 0.1 | 1 | 1.05 | bd | | | | | | | 41.47 |
| **69A** | | | | | | | bd | 0.12 | 0.3 | 1.5 | 1.62 | bd | bd | 0.11 | 0.2 | 2.1 | 2.21 | bd | 41.47 |
| **70E** | bd | bd | bd | 1.6 | 1.60 | bd | bd | 0.08 | 0.2 | 1.2 | 1.28 | bd | bd | 0.10 | 0.2 | 2 | 2.10 | bd | 43.78 |
| **72A** | bd | bd | bd | 10.3 | 10.30 | 0.05 | bd | 0.06 | 0.2 | 1.3 | 1.36 | bd | bd | 0.06 | 0.2 | 2.1 | 2.16 | bd | 43.63 |
| **74B** | bd | bd | bd | 1 | 1.00 | bd | bd | 0.10 | 0.1 | 1.1 | 1.20 | bd | bd | 0.13 | 0.2 | 2 | 2.13 | bd | 42.29 |
| **74C** | bd | bd | bd | 1.2 | 1.20 | bd | bd | 0.11 | 0.2 | 1.3 | 1.41 | bd | bd | 0.13 | 0.2 | 1.8 | 1.93 | bd | 41.27 |
| **83A** | bd | bd | bd | 1.6 | 1.60 | bd | bd | 0.08 | 0.2 | 1.3 | 1.38 | bd | | | | | | | 47.98 |
| **85C** | bd | bd | bd | 0.7 | 0.70 | bd | | | | | | | bd | bd | 0.5 | 1.3 | 1.30 | bd | 51.49 |
| **88B** | bd | bd | bd | 1.3 | 1.30 | 0.06 | | | | | | | bd | 0.05 | 0.4 | 1.5 | 1.55 | bd | 50.55 |
| **90A** | bd | bd | bd | 1.2 | 1.20 | bd | bd | 0.05 | 0.3 | 1.5 | 1.55 | bd | bd | bd | 0.4 | 2.1 | 2.10 | bd | 48.33 |
| **Median** | | **0.07** | **0.45** | **1.30** | **1.30** | **0.08** | | **0.06** | **0.20** | **1.30** | **1.30** | **0.07** | | **0.07** | **0.20** | **2.60** | **2.60** | **0.06** | **50.21** |
| **Max** | | **0.11** | **2.50** | **10.30** | **10.30** | **0.18** | | **0.12** | **0.80** | **6.40** | **6.40** | **0.13** | | **0.13** | **2.10** | **6.20** | **6.25** | **0.41** | **67.64** |

| | |
|---|---|
| NO2 = Nitrite (inorganic) | TKN = Total Kjeldahl Nitrogen (organic) |
| NO3 = Nitrate (inorganic) | TN = Total Nitrogen (inorganic + organic) |
| NH3 = Ammonia (inorganic) | TPO4 = Total Phosphate |

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.

TSI = Trophic State Index, a quick indicator of canal health. Most sites this quarter scored as GOOD (<60). Four sites scored FAIR (60-70), and none were POOR (>70).

TN was very high at the majority of sites in December, due to high TKN values. This can happen after rainfall, although there wasn't any rain prior to December sampling. We will keep our eyes on this number over the next quarter to see if it settles down again.

## February

**6th**
**Sunset Celebration**
Cape Coral
Yacht Club Pier 4-7pm
Info: 574-0806

**16th**
**Burrowing Owl Festival**
Rotary Park
Environmental Center
10am-4pm
Info: 549-4606

**29th**
**An Evening Under the Sea**
Cape Coral Yacht Club
6-8pm
Info: 574-0806

## March

**5th**
**Sunset Celebration**
Cape Coral
Yacht Club Pier 4-7pm
Info: 574-0806

**25th – 27th**
**Charlotte Harbor Watershed Summit**
Edison College
Punta Gorda
Info: chnep.org
239/338-2556

**30th**
**Cape Coral Canal Clean-up**
Cape Coral Yacht Club
8am-12pm
Info: 574-0785

## April

**2nd**
**Canalwatch BBQ**
Cape Coral Yacht Club
11am-1pm
Info: 574-0785

**Sunset Celebration**
Cape Coral
Yacht Club Pier 4-7pm
Info: 574-0806

**19th**
**Annual Spring Native Plant Sale**
Rotary Park
Environmental Center
9am-2pm
Info: 549-4606

---

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