#### Central Florida Soil Laboratory P.O. Box 2506 Bartow, Florida 33831 (863) 533-5579

## Soil Manatee Co.

Date Received: 04/06/10

Manatee County G. C. 6415 - 53rd Ave. W. Bradenton, FL 34210

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# Greens

Date Reported: 04/07/10

#### Calculated Base Saturation (%) Mg Na ĸ Fe C.E.C. Ca Ρ LD. ъH Ca Mg Na К Zn Mn 69.2 20.5 7.9 2.4 21 3.2 60 3 880 116 48 11 13 A 6.7 158 2.7 3.1 116 90 56 41 17 7 3 2.7 72.1 17.9 7.3 770 14 8 6.9 19.6 6.1 15 6.9 830 140 82 70 48 17 8 3 2.9 71.1 С 2.8 27 73.1 18.2 5.9 5 4 16 D 6.7 800 121 74 60 53 13 9 3 3.0 74.0 17.7 5.9 2.3 83 55 59 16 900 131 17 E 6.9 136 95 66 45 15 8 3 3.0 72.1 18.4 6.8 2.8 6.8 880 18 F 72.7 17.2 7.8 2.3 PG G 6.7 960 138 118 59 55 19 10 3 3.3 6.5 2.7 38 22 74.7 16.1 Chip н 6.6 650 85 65 46 8 4 3 55 37 48 6 4 5 1.8 73.9 16.8 6.7 2.6 530 73 NG ţ 6.8 J ĸ L



















Analysis is reported as AVAILABLE POUNDS PER ACRE. The above have been extracted with Ammonium Acetate, pH 4.8



These ranges are general guidelines. Tissue samples should be taken to establish individual base-line.

#### **Central Florida Soil Laboratory** P.O. Box 2508 Bartow, Florida 33831 (863) 533-5579

# Soil Manatee Co.

Date Received: 0406/10

6415 - 53rd Ave. W Bradenton, FL 34210

Manatee County G. C.

# Greens

Date Reported: 04/07/10

#### Calculated Base Saturation (%) C.E.C Mg Na K Ρ Ca Zn Fe LD. pH Ca Mg Na κ Mn 90 54 73.5 17.6 6.4 2.5 900 59 18 3.1 9 4 1 6.7 131 A -16-10 72.0 2.8 6.8 910 136 108 68 58 17 8 4 3.2 17.7 7.5 3 7.7 88.3 3.0 1.0 8.5 С 6.8 3020 159 117 70 65 25 12 5 4 5 112 68 55 11 5 4 2.5 71.2 18.2 72 3.4 720 83 6.7 D 71.5 6.2 2.7 6.7 900 150 90 66 56 17 8 4 3.1 19.6 E 91 53 7 3 2.8 71.6 18.6 7.1 2.8 6 17 F 6.5 800 126 60 7 770 100 71 56 18 5 2.8 69.8 19.0 7.9 3.3 6.6 127 7 G 7.0 22 72.5 18.3 8 880 135 97 53 46 18 8 3 3.0 н 6.8 71.1 18.6 8.1 2.3 3,1 9 56 49 16 6 4 T 6.8 890 141 116 49 6 4 2.6 70.7 18.9 81 2.3 6.7 750 122 98 48 15 10 J 2.7 72.6 18.2 6.5 11 К 6.9 870 132 89 64 56 15 8 5 3.0 18.6 7.5 2.2 99 50 8 2.9 71.6 50 16 3 12 6.9 820 129 L







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These ranges are general guidelines. Tissue samples should be taken to establish individual base-line.

# P.O. Box 2508 Bartow, Florida 33831 (863) 533-5579

### Soil Buffalo Creek Greens

Date Received: 03/23/10 Date Reported: 03/25/10

Buffalo Creek Golf Course 8100-69th St. E. Palmetto, Fl. 34221

					Greeno							Calculated Base Saturation (%)				
LD.		рH	Ca	Mg	Na	к	Р	Zn	Mn	Fe	C.E.C.		Ca	Mg	Na	К
13	A	7.0	1700	166	53	72	96	20	8	5	5.1	がないない	82.7	13.3	2.2	1.8
14	в	6.8	1880	200	82	124	118	30	9	7	5.8	語の書	80.2	14.1	3.0	2.7
15	C	6.9	2000	226	110	105	126	28	10	6	6.3	ないない	79.3	14.8	3.8	2.1
16	n	6.9	2060	220	91	124	135	26	13	7	6.4	Sales and	80.3	14.1	3.1	2.5
17	F	6.8	2160	226	100	127	139	30	11	6	6.7		80.5	13.9	3.2	2.4
18	F	6.8	1830	210	110	120	130	29	10	6	5.8	Sec.	78.4	14.8	4.1	2.6
PG	6	6.9	1700	198	73	95	94	26	11	4	5.3	SHORE AND	79.5	15.3	3.0	2.3
NG	Н	6.8	700	86	55	76	57	6	5	3	2.3	P.Obderate	75.4	15.3	5.2	4.2
		13C							_			With the second				
												2020	1		=	
	К											a and a second				
	L															













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Analysis is reported as AVAILABLE POUNDS PER ACRE. The above have been extracted with Ammonium Acetate, pH 4.8



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#### **Central Florida Soil Laboratory** P.O. Box 2508 Bartow, Florida 33831

(863) 533-5579

#### **Buffaio Creek Golf Course** 8100-69th St. E. Paimetto, Fl. 34221

### Soil **Buffalo Creek** Greens

Date Received: 03/23/10 Date Reported: 03/25/10

Calculated Base Saturation (%) C.E.C. Ca Mg Na K Na К Ρ Zn Fe LD. pH Ca Mg Min 6.8 1140 204 72 83 83 17 8 8 3.9 72.1 21.3 4.0 2.7 1 Α 82.6 12.4 2.4 6.9 2450 223 88 141 134 23 10 6 7.4 2.6 23456789 В 2.4 7 7.0 81.9 12.7 3.0 215 97 130 23 12 Ċ 6.8 2290 130 3.1 181 75 104 93 21 9 4 5.2 79.9 14.4 2.6 D 6.9 1660 Е 6.8 2300 208 79 98 128 22 9 6 6.9 83.3 12.4 2.5 1.8 1940 4.2 210 113 121 26 8 8 6.1 79.3 14.1 2.4 F 6.8 117 690 7 2.4 70.8 19.8 5.4 4.1 6.8 117 60 78 66 6 4 G H 6.8 2100 222 110 118 114 24 10 7 6.5 80.1 14.0 3.7 2.3 2100 9 7 13.3 3.7 2.2 210 109 110 30 6.5 80.8 Ł 6.8 126 10 11 2050 209 100 109 123 26 10 6 6.3 80.8 13.6 3.4 2.2 J 6.9 κ 7.0 1960 187 90 74 92 24 8 4 5.9 82.2 12.9 3.3 1.6 12 7.0 86 83 88 22 5.4 81.2 13.3 3.5 2.0 1750 174 10 3 Ł 8.0 190 pН 1400 Ca Mg 7.5 170 1200 7.0 150 1000 6.5 130 110 6.0 800 90 5.5 600 70 50 30 . -5.0 400 4.5



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# USGA GREEN SECTION TURF ADVISORY SERVICE REPORT

# MANATEE GOLF CLUB Bradenton, Florida



United States Golf Association Green Section, Florida Region

John H. Foy, Director P.O. Box 1087 Hobe Sound, FL 33475-1087 (772) 546-2620, FAX (772) 546-4653 E-mail: jfoy@usga.org

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Todd Lowe, Agronomist 127 Naomi Place Rotonda West, FL 33947 (941) 828-2625, FAX (941) 828-2629 E-Mail: tiowe@usga.org

Present on the stop-by visit conducted February 17th, 2011:

Mr. Buddy Keene, Certified Golf Course Superintendent Mr. Todd Lowe, USGA Senior Agronomist

Statement of Purpose: The purpose of the USGA Green Section is to assist subscribing courses in matters of agronomic management. All recommendations are offered free of bias, since the USGA has no connections or obligations to any manufacturer, supplier, or contractor. Additionally, since "quick fixes" seldom result in permanent improvement, some of the recommendations in this report may not be easy to implement and could take more than a single season to produce the desired results.



Manatee Golf Club Courtesy TAS Visit 2/17/11 Page 2 of 4

## **OPENING STATEMENTS**

The USGA Green Section was created to provide non-biased recommendations for improving golf course conditioning based upon scientific fact. The Turfgrass Advisory Service (TAS) was initiated in 1953, and for over 50 years we have disseminated research findings and provided direct consultation to golf course superintendents and green committees. Our goal is to provide the best possible playing conditions for any particular club based on available budget and member expectations and to recommend necessary cultural practices to make this happen.

It was a pleasure stopping in and visiting with Mr. Buddy Keene as a courtesy, on behalf of the USGA Green Section. The putting greens have become stressed over the past several weeks and several greens have experienced turf thinning. The following report lists the observations and recommendations that were made during the visit and serve merely as a supplement to the existing agronomic programs in place at Manatee Golf Club.

### GREENS

The putting greens at Manatee Gotf Club consist of Tifdwarf bermudagrass atop a variable sandy rootzone mix. The mix is variable, as the underlying subsoil is quite sandy and porous; but most of the troublesome areas have been sodded in the past and contain various layers of soil and organic matter.



Figure 1. Several putting greens contained thin, weak areas at this time.



Manatee Golf Club Courtesy TAS Visit 2/17/11 Page 3 of 4

Tifdwarf bernudagrass is an outdated bernudagrass variety that performed well in our region since 1965, when standards for putting greens were much lower than they are today. Ultradwarf bernudagrasses like TifEagle, Champion, and Mini-Verde were developed over a decade ago and have provided excellent playing conditions and higher overall standards in our region. It is important to note that most of the local "competitor" clubs have these approved varieties. Maintaining the same standards on Tifdwarf bernudagrass as ultradwarf bernudagrass greens causes greater stress and increases the likelihood of turf thinning. If higher standards (faster putting speeds) are desired on a regular basis, I recommend considering long-range regrassing with an ultradwarf bernudagrass.

Another stress factor that occurs on the putting greens is plant-parasitic nematodes. Putting greens were sampled and many of the thin areas contain high nematode counts that weaken bermudagrass roots during stressful periods. The chemical Curfew (1,3-D) is currently the only effective nematicide for Florida golf courses, and I recommend Curfew be applied to the putting greens each summer. Curfew cannot eradicate nematodes but temporarily reduces nematode populations and improves bermudagrass rooting. Other important cultural practices include raising mowing heights during times of stress and increasing fertilization and irrigation frequency as roots become weakened.

Soil layering from previous sodding practices is also a significant stress factor, as the soil acts as a visible barrier impeding water flow to the rootzone and root penetration. During wet times, these areas remain saturated and hinder root growth, and during dry times, these areas dry out more quickly due to the weakened root system. Increased core aeration is recommended to disrupt soil layering and provide channels for deeper root penetration. Several years ago an excellent core aeration program was implemented with three hollow-tine aerations and two winter "ventings" with solidtines. Over the past few years, core aeration practices have been reduced to twice yearly with small diameter hollow tines. Organic matter accumulation is a continual struggle on golf courses in our region, and I recommend implementing the previous program of three summer aerations with 5/8-inch hollow tines and two winter ventings each year.



The thin areas will continue to heal now that increased soil temperatures are occurring, but would benefit from dark substances like dyed topdressing sand and dark pigments like PAR or Foursome (see *Liquid Overseed*). Some areas might require plugging with grass from a nursery green and a good rule of thumb is to use plugs when greater than 50% of an area larger than one square foot is bare.



Manatee Golf Club Courtesy TAS Visit 2/17/11 Page 4 of 4

## **OTHER**

It was mentioned that there are only six staff members maintaining nearly 100 acres of turf at Manatee Golf Club and I am surprised and quite pleased to see the level of detail that currently exists with such a small staff. This point is especially significant with Mr. Keene overseeing two golf courses.

# **CLOSING STATEMENTS**

On behalf of the USGA Green Section, it was a pleasure visiting Manatee Golf Club. The USGA Green Section also uses webcasting extensively to share a wide variety of information including turgrass management, regional updates, turgrass research, and goif course construction topics. These webcasts are provided free of charge to everyone as a service to the game. A current list of free webcasts and all previously recorded meetings are available at our portal-<u>https://gsportal.usga.org</u>.

Since 1921, the USGA Green Section has published information on the proper maintenance and upkeep of golf courses. Published under various titles, the Green Section Record magazine, which many consider the authoritative voice on golf course management, debuted in May 1963. In July 2010, the print publication changed to a weekly digital magazine offering the latest information on golf course management, turfgrass culture, environmental issues, research, and economic sustainability. Subscription is free, and anyone can sign up for The Record by going to http://www.usga.org/course care/green section record/Green-Section-Record/ and click the Sign Up Here tab.

The USGA strives to provide golf courses with the most concise, up-to-date information to improve the game of golf and the surrounding environment. Your club's membership in the USGA and support of the Green Section makes this research effort possible. I hope you find the information in this report and the accompanying literature useful to improving golf course playing conditions. Please do not hesitate to call if I can be of any assistance in the future.

Sincerely,

Todd Lowe Senior Agronomist, Florida Region USGA Green Section