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**(R-8) EMPLOYING BIO-ZYME PROTOCOLS TO IMPROVE LAKE  
AND WATERWAYS WATER QUALITY IN FOUR  
REPRESENTATIVE SITES v2**

**FLORIDA EFFICACY DATA**

**EMPLOYING BIO-ZYME PROTOCOLS TO IMPROVE LAKE AND WATERWAYS  
WATER QUALITY IN FOUR REPRESENTATIVE SITES**

**28 AUGUST 2016**

**BOCA WEST  
BOCA RATON, FLORIDA**

**LAKE AND WATERWAYS SYSTEM  
SIXTY-NINE LAKES, 215 ACRES**

**GEORGETOWN HOMEOWNERS ASSOCIATION  
DAYTONA BEACH, FLORIDA  
LAKE #1, 2.7 ACRES**

**GEORGETOWN HOMEOWNERS ASSOCIATION  
DAYTONA BEACH, FLORIDA  
LAKE #2, 1.3 ACRES**

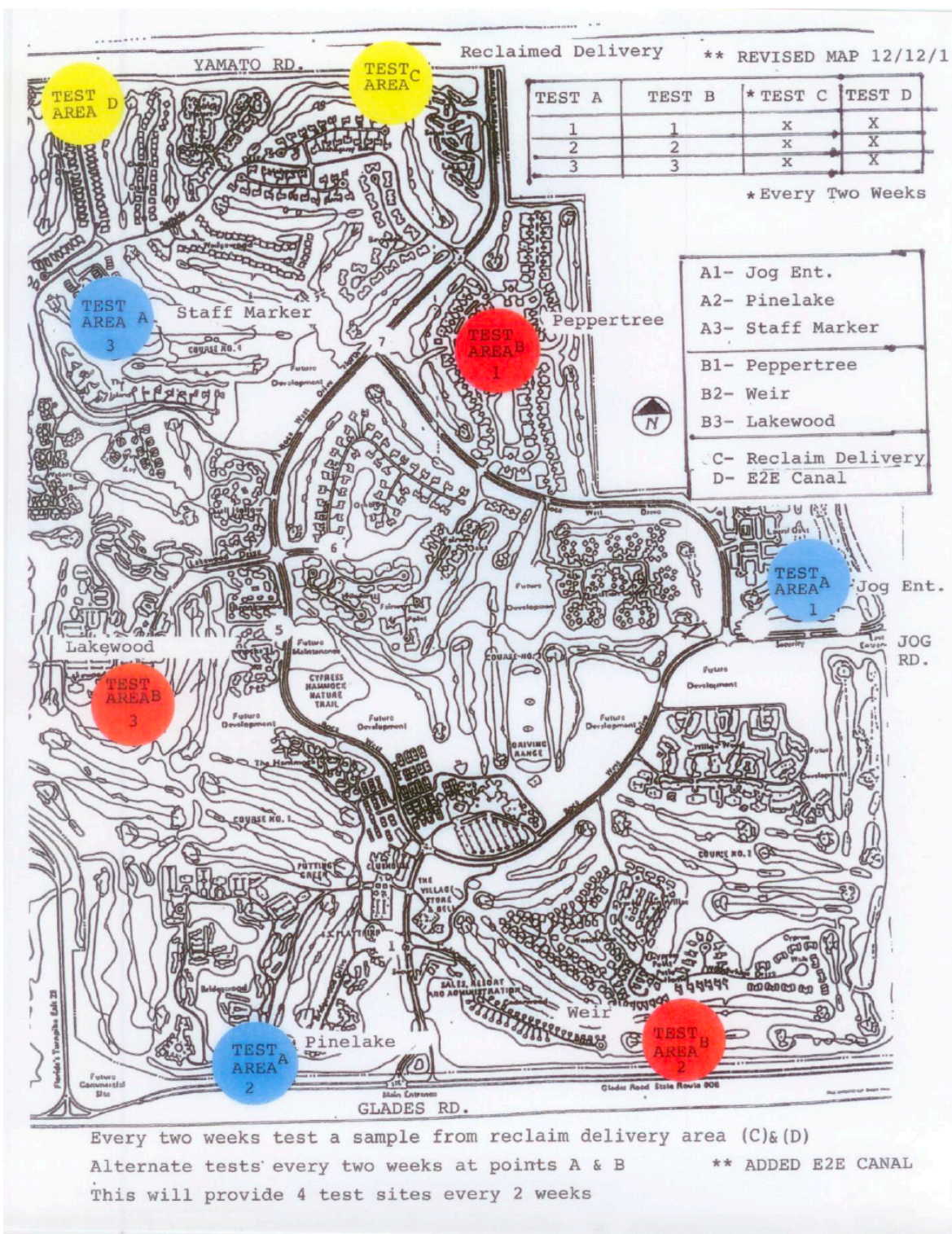
**PINE ISLAND HOMEOWNERS ASSOCIATION  
NEW SMYRNA BEACH, FLORIDA  
LAKE, 3.0 ACRES**



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Visual Rating - Water Quality Report for Boca West, Boca Raton, FL								
Sixty-nine Lakes and 215 Acres of Water in the Boca West Lakes and Waterways System								
Year	2009	2010	2011	2012	2013	2014	2015	2016
January								10
February								9
March								8
April								9
May								9
June								9
July								
August							4	
September							4	
October							5	
November							9+	
December							10	
Scale: grade waterways 1-10 with 1 being poor.								
Take into consideration: residents' complaints, algae coverage, and water clarity								





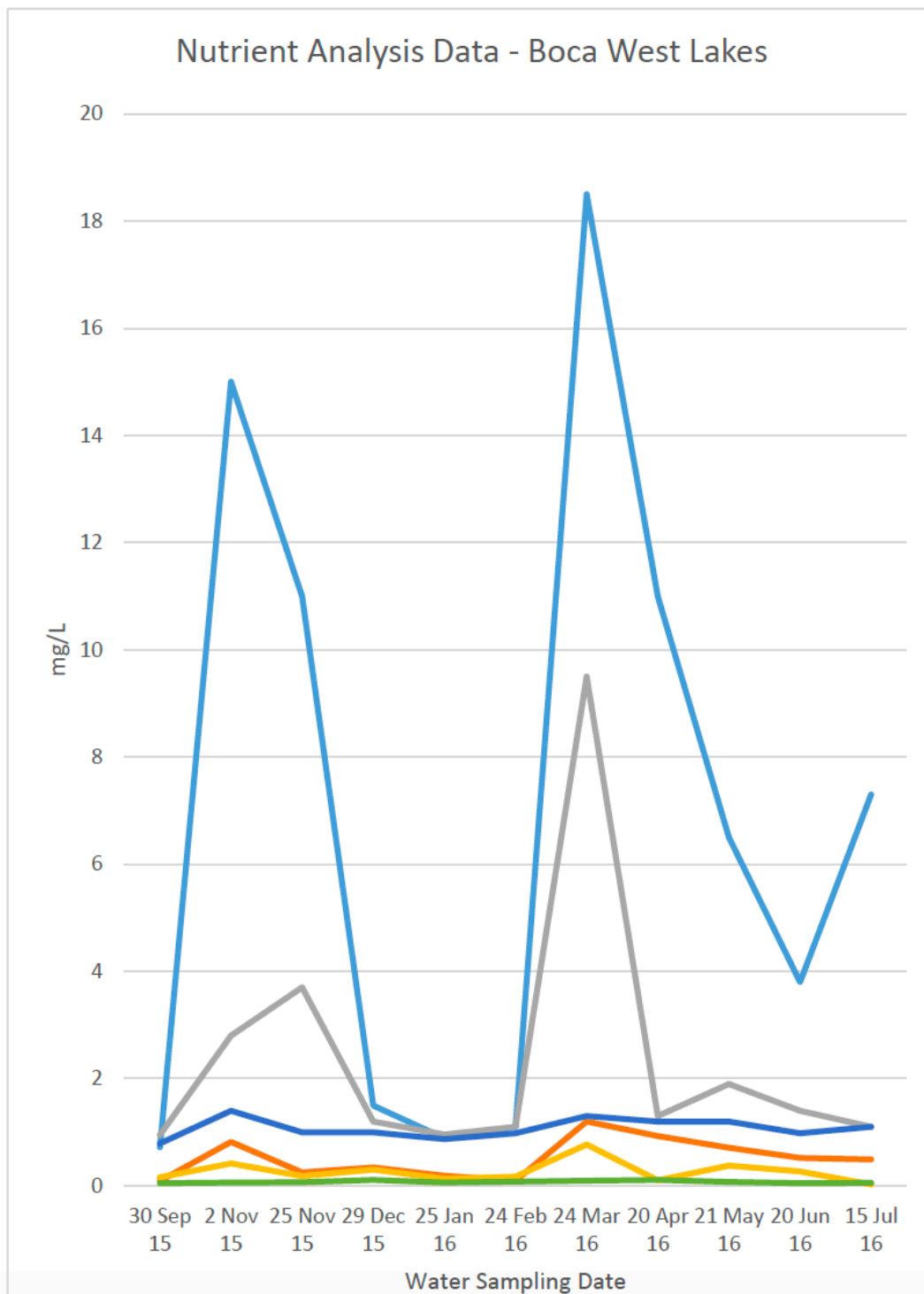
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Reclaimed Water Flows - City of Boca Raton – Received by Boca West Waterways	
Month	Total Monthly Flow, Million Gallons
Oct 15	21.001
Nov 15	43.395
Dec 15	0.851
Jan 16	2.949
Feb 16	5.170
Mar 16	42.587
Apr 16	21.156
May 16	20.137
Jun 16	6.911

Nutrient Analysis Data										
Month	N-C	P-C	N-A3	P-A3	N-A2	P-A2				
30 Sep 15	0.720	0.090	0.950	0.160	0.790	0.050				
2 Nov 15	15.000	0.820	2.800	0.420	1.400	0.061				
25 Nov 15	11.000	0.250	3.700	0.180	1.000	0.067				
29 Dec 15	1.500	0.340	1.200	0.300	1.000	0.110				
25 Jan 16	0.890	0.190	0.960	0.130	0.870	0.063				
24 Feb 16	1.100	0.093	1.100	0.170	0.980	0.080				
24 Mar 16	18.500	1.200	9.500	0.770	1.300	0.094				
20 Apr 16	11.000	0.930	1.300	0.100	1.200	0.110				
21 May 16	6.500	0.710	1.900	0.380	1.200	0.070				
20 Jun 16	3.800	0.520	1.400	0.270	0.980	0.050				
15 Jul 16	7.300	0.490	1.100	0.025	1.100	0.053				

Nutrient Analysis Data for Total Nitrogen (N) and Total Phosphorus (P) for water sampling stations: SP C (C), SP A3 (A3), and SP A2 (A2).







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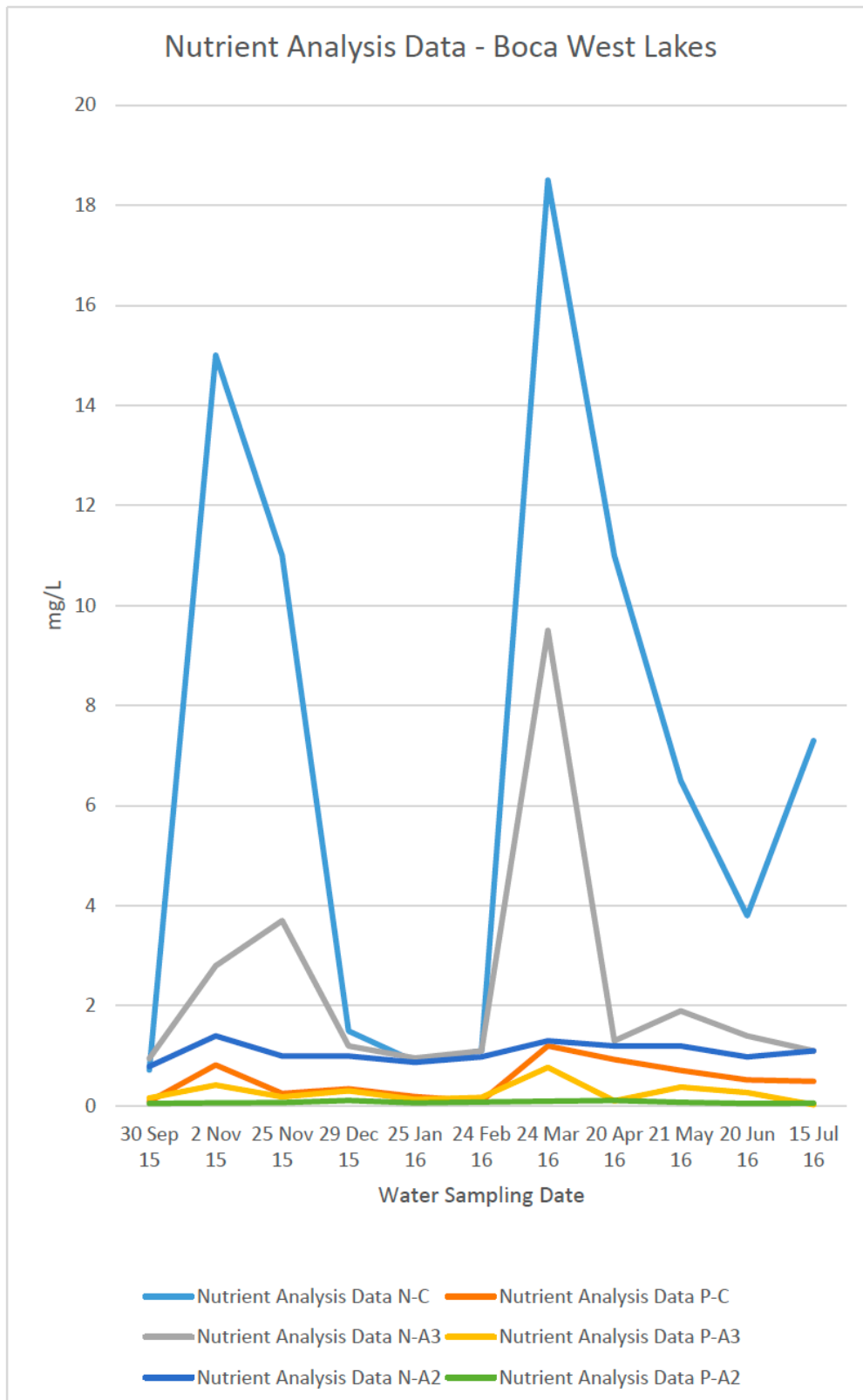
Nutrient Analysis Data										
Month	N-C	P-C	N-A3	P-A3	N-A2	P-A2				
30 Sep 15	0.720	0.090	0.950	0.160	0.790	0.050				
2 Nov 15	15.000	0.820	2.800	0.420	1.400	0.061				
25 Nov 15	11.000	0.250	3.700	0.180	1.000	0.067				
29 Dec 15	1.500	0.340	1.200	0.300	1.000	0.110				
25 Jan 16	0.890	0.190	0.960	0.130	0.870	0.063				
24 Feb 16	1.100	0.093	1.100	0.170	0.980	0.080				
24 Mar 16	18.500	1.200	9.500	0.770	1.300	0.094				
20 Apr 16	11.000	0.930	1.300	0.100	1.200	0.110				
21 May 16	6.500	0.710	1.900	0.380	1.200	0.070				
20 Jun 16	3.800	0.520	1.400	0.270	0.980	0.050				
15 Jul 16	7.300	0.490	1.100	0.025	1.100	0.053				

Nutrient Analysis Data for Total Nitrogen (N) and Total Phosphorus (P) for water sampling stations: SP C (C), SP A3 (A3), and SP A2 (A2).



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Nutrient Analysis Data						
Month	N-C	P-C	N-B1	P-B1	N-B2	P-B2
15 Oct 15	8.700	1.000	0.920	0.180	0.780	0.063
13 Nov 15	22.100	0.460	1.100	0.110	0.970	0.050
10 Dec 15	2.200	0.340	1.000	0.120	0.890	0.052
13 Jan 16	1.200	0.240	0.810	0.110	0.930	0.073
10 Feb 16	3.300	0.550	0.980	0.098	0.850	0.087
8 Apr 16	3.200	0.610	0.950	0.120	0.920	0.070
3 May 16	9.800	0.780	0.950	0.065	0.920	0.051
2 Jun 16	2.000	0.640	1.900	0.130	1.100	0.050
1 Jul 16	1.600	0.400	0.990	0.050	1.900	0.050

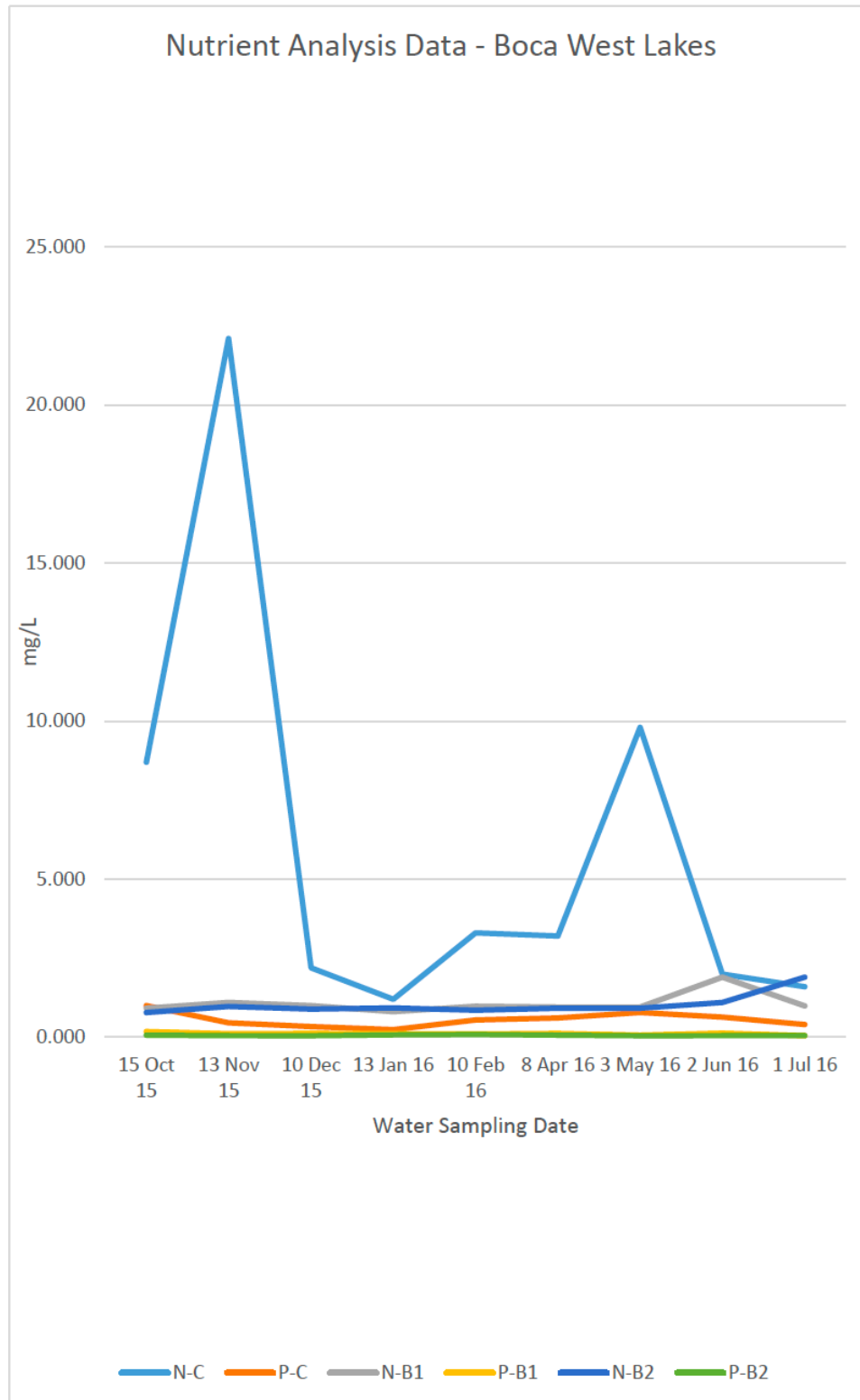
Nutrient Analysis Data for Total Nitrogen (N) and Total Phosphorus (P) for water sampling stations: SP C (C), SP B1 (B1), SP B2 (B2).





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Georgetown HOA Lake #1								
Off Beville Road in Daytona Beach, Volusia County, FL								
Visual Rating - Water Quality Report for Georgetown HOA								
Lake #1 is approximately 2.7 acres								
Year	2011	2012	2013	2014	2015	2016		
January	9	10	9	10	10	10		
February	8	10	9	10	10	10		
March	7	6	7	10	10	10		
April	7	6	7	10	10	10		
May	7	8	6	10	10	10		
June	7	8	7	10	10	10		
July	7	7	7	10	10	10		
August	7	7	8	10	10	10		
September	8	7	10	10	10			
October	9	8	10	10	10			
November	9	8	10	10	10			
December	9	9	10	10	10			
Scale: grade waterways 1-10 with 1 being poor.								
Take into consideration: residents' complaints, algae coverage, and water clarity,								
Began trying the Bio-Zyme in Lake #1 and #4 (June 2011)								
Bio-Zyme Used: Bulk dry formulation and EcoSocks								
Lakes #1 and #2 are two blocks apart on the same Road in the same HOA.								
Lake #1 Had been a problem lake as far back as the 1980's								



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Off Beville Road in Daytona Beach, Volusia County, FL								
Visual Rating - Water Quality Report for Georgetown HOA								
Lake #2 is on Yorktowne Drive. There is no aeration in this lake.								
Year	2013	2014	2015	2016				
January	7	7	2	6				
February	6	6	2	6				
March	6	6	3	7				
April	6	5	4	8				
May	7	5	4	9				
June	7	5	5	10				
July	6	5	6	10				
August	5	4	6	10				
September	5	4	3					
October	5	5	4					
November	6	5	6					
December	7	5	6					
Scale: grade waterways 1-10 with 1 being poor.								
Take into consideration: residents' complaints, algae coverage, and water clarity,								
Bio-Zyme Used: Began full scale in Sept of 2015 using Bulk Dry Formulation and EcoSocks.								
Lake #1 and Lake #2 are two blocks apart in the same HOA.								



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	8/23/2016						
	Clear Waters, Inc.						
	<b>THE EFFECTS OF BIO-ZYME ON A TYPICAL LAKE MANAGEMENT ACCOUNT</b>						
	Georgetown Homeowners Association, Lake #1, Lake #2, Lake #3, and Lake #4						
	The data consists of an account with 4 lakes; Lake #1, Lake #2, Lake #3, and Lake #4.						
	Lake #4 has been on the Bio-Zyme Program for the entire time.						
	Lake #1 the largest and costliest until July 2014. Then Lake #2 became the costliest.						
	Today the costliest is Lake #3.						
12-Month Period	08/11-07/12	08/12-07/13	08/13-07/14	08/14-07/15	08/15-07/16		
Total Bio-Zyme Use	\$434.31	\$530.36	\$359.75	\$420.14	\$645.40		
Total Copper Use	\$1,250.23	\$1,262.89	\$819.28	\$1,175.20	\$359.89		
Total Chemical Use	\$2,489.43	\$2,496.71	\$2,099.05	\$2,411.61	\$2,011.09		
* Jan-Mar 2015 Lake #2 surface was 50% covered with filamentous algae, slender pondweed, and planktonic algae							
We did not achieve good clarity or clean it up until late summer. Low oxygen levels were an issue also.							



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Pine Island Location in New Smyrna Beach, FL, Volusia County									
Visual Rating - Water Quality Report for the Pine Island Homeowners Association (HOA) Lake									
Lake area is 3.0 acres. Bio-Zyme Program began in May of 2014									
Year	2013	2014	2015	2016					
January	9	2	10	10					
February	9	2	10	10					
March	8	2	10	10					
April	7	3	10	10					
May	6	4	10	10					
June	8	9	10						
July	7	10	10						
August	7	10	10						
September	6	10	10						
October	6	10	10						
November	5	10	10						
December	2	10	10						
Scale: grade waterways 1-10 with 1 being poor.									
Take into consideration: residents' complaints, algae coverage, and water clarity									
Products used: One 55-Gallon Bio-Generator with 4.5 lb. Bio-Generator EcoSocks									
Plus the Spray Boat application of 1 lb. bulk Bio-Zyme Dry Formulation powder and 1 gal. Bio-Zyme Nitrifier monthly									