

WATER QUALITY WOODLAND POND LAKEFRONT ASSC

E. Coli: CFU/ 100 mL Test Results

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EAI LABS	Date	Location	A	B	C	D	E	F	G	G1	G5	G2	G3	G4	H	H1	H2	H3	1 Carlow	2 Oakton	3 Park	4 Egret	Flyway W	9606 Egret	9623 Egret	S Gadwell/WFLY
	8/18/2017	Water Temp				757			boat ramp co	N creek		S creek				lot 8/22	lot 23/33	33/38								
	2/27/2018	10-11:30 AM	51 - 55 F	14	1	2	1	19	29	21					5											
	5/30/2018	10-11:30 AM	80 - 82 F	29	7	6	20	6	32	28					63											
	9/6/2018	10-11:15 AM	85 - 88 F	13	11	5	9	15	14	88					12											
	11/27/2018	10-11:00 AM	47-49	34	5	28	21	21	35	238					135											
	3/5/2019	10-11:00 AM	42-46	39	45	21	25	26	135	317					144											
	4/8/2019	10 -10:30 AM	58 - 66						248	687		1986			62	108	28	27								
	4/15/2019	1:30 - 2:00 PM	62 - 66							1986	2420	268	411	345												
	5/1/2019	1:00 - 2:00 PM	61 - 71							48		2420							38	196	111	1986				
	5/15/2019	12:00 - 12:30 PM	59									461											770	160	84	206
	5/29/2019	10:00 - 11:00 AM	85 - 86	53	21	13	8	16	11	35					29											
	8/28/2019	10:00 - 11:00 AM	80 - 82	26	3	1	<1	16	7	42					2											
	12/10/2019	10:00 - 11:00 AM	47 - 51	15	9	10	10	10	27	108					66											
SAFE STANDARDS:				Swimming		Recreational Use																				
Single sample				< 88		< 406																				
3 sample avg over 60 days				< 47		< 126																				
SOLITUDE LM		8/18/2017	8/23/2018	9/10/2018	8/28/2019	PREFERRED RANGE																				
Sample Location		D	D	Joe's Doc	D																					
pH		7.5	6.4	6.70	6.7	6.8 - 8.2																				
Alkalinity	mg/L	17.6	18.0		25.1	> 20																				
Hardness	mg/L as CaCO3	19.3	17.0		10.6	> 30																				
Free Phosphorus	ug/L	13.00	< 5		5	< 25																				
Total Phosphorus	ug/L	22.90	10.30		23.1	< 25																				
Nitrite	mg/L		< 0.02			< 0.25																				
Nitrate	mg/L		< 0.02			< 5																				
Total Nitrite/ate	mg/L		< 0.02		< 0.02	< 5																				
Total Nitrogen	mg/L		0.90		1	< 1																				
N:P Ratio			11.40		23.10	< 10		N is the limiting nutrient																		
						10 to 17		N or P can be limiting nutrient																		
						> 17		P is the limiting nutrient																		
Conductivity	us/cm	180.00	59.40		67.9	> 50																				
Turbidity	NTU	2.00	4.60		3.6	< 10																				
Chlorophyll a	ug/L		< 10		< 10	< 20																				
Dissolved O2	mg/L		7.10		8.4	> 5.0		Driving factors:																		
Surface	90F 12.1	78F 7.8		81.3 F 6.6				photosynthesis																		
1'		78F 7.2						heavy rain/biodecomposition																		
2'		77F 6.9						mechanical airation																		
3'	87F 10.8	75F 6.5		81.3 F 6.5				water temperature																		
4'		74F 6.5																								
5'		72F 6.1																								
6'	84F 10.5	69F 5.7		79.7 F 5.7																						
7'		64F 2.9																								
8'		62F 0.5																								
9'	81F 8.4	60F 0.1		79.3 F 4.8																						
10'		59F 0.1																								
12'		72F 2.8		78.3 F 3																						
15'		71F 2.3		78.3 F 0.3																						
Algae Profile: cells/mL				8/18/2017	8/23/2018	5/24/2019	6/26/2019	7/31/2019	8/28/2019																	
Blue-Green Cyanophyta				12,200	1,680		1.4 M		1050																	
Green Chlorophyta				466			20,000																			
Green Stretophyta					2,800																					
Euglenophyta-						310																				
Euglenoids								150																		
All types								<40																		