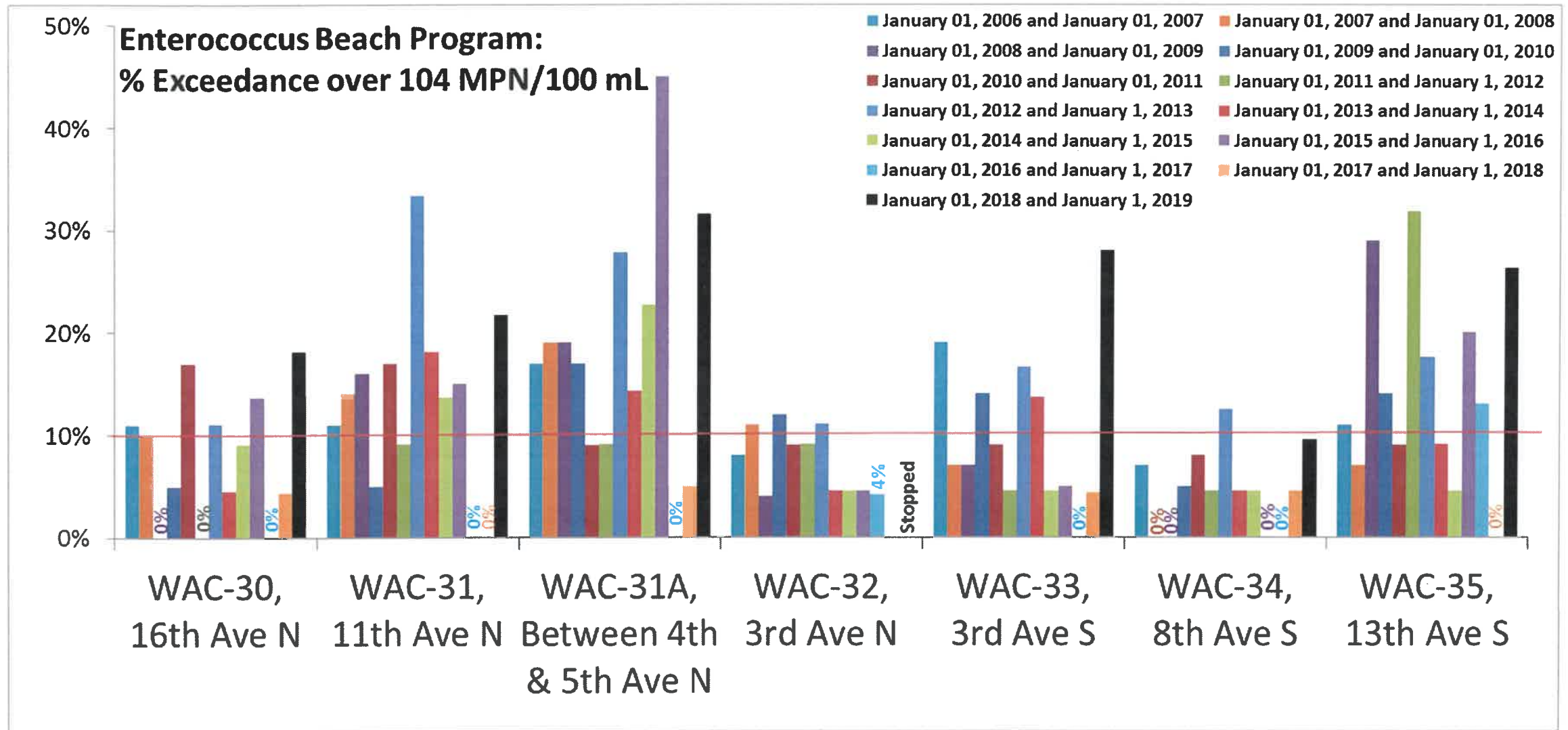


Surf Zone Bacteria: Beach Season 2018 is two thirds done. Most municipalities have seen higher frequency of water quality issues. Likely due to most sampling being conducted shortly after large amounts of rain.



# Surfside SC DHEC Ocean Monitoring 2018

Values <10 are represented numerically as "9".

long-term advisory  
2016 SCDHEC 303(d)

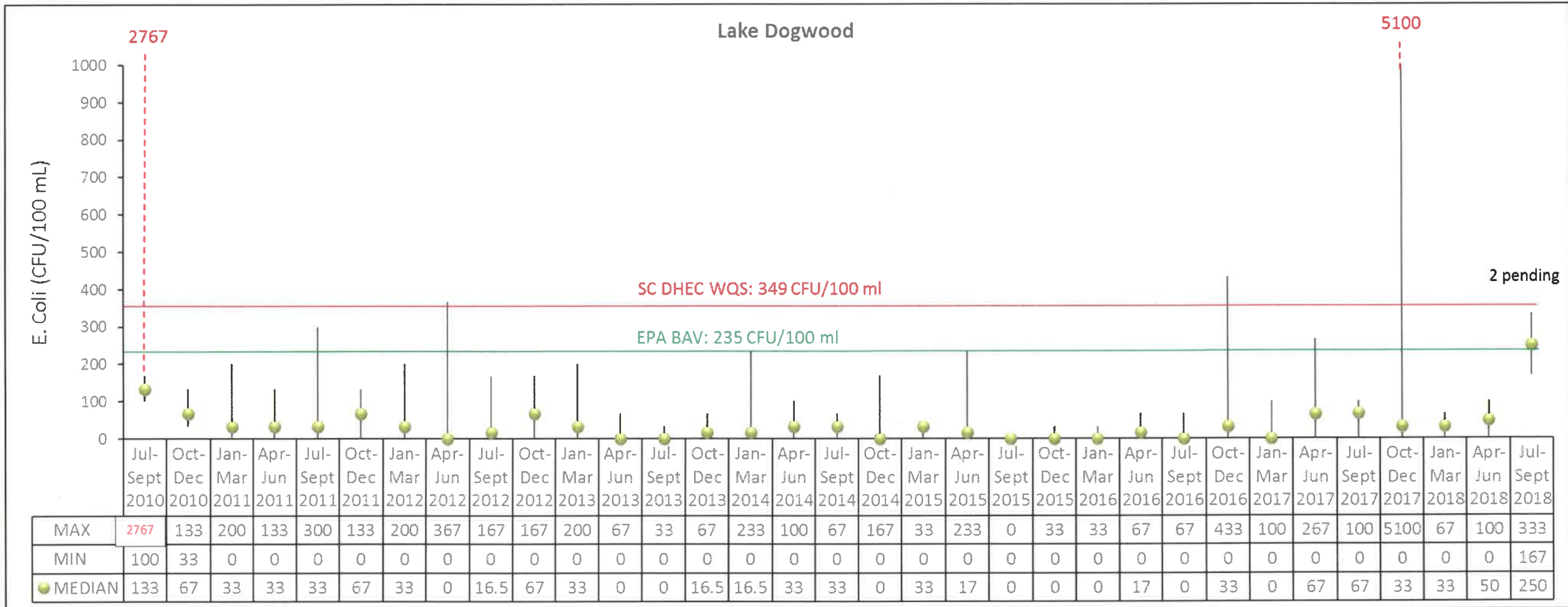
Date (Follow up)	3-d prior rain accumulation (in)	WAC-30, 16th Ave N	WAC-31, 11th Ave N	WAC-31A, 4/5th Ave N	WAC-32, 3rd Ave N	WAC-33, 3rd Ave S	WAC-34, 8th Ave S	WAC-35, 13th Ave S	Number > 104
5/1/18	0.0	9	9	10	No longer sampled due to stable good water quality	9	9	10	0
5/8/18	0.0	9	10	9		9	9	10	0
5/15/18	0.0	9	20	9		20	9	9	0
5/22/18	1.8	94	9	10		9	9	9	0
5/29/18	2.6	74	2333	1071		120	10	402	4
5/30/18	2.6	249	520	5475		473	187	1281	6
5/31/18	2.1	9	10	LT adv		9	9	LT adv	0
6/5/18	0.0	9	9	9		9	9	9	0
6/12/18	0.9	221	142	160		121	131	121	6
6/13/18	0.9	20	161	LT adv		313	41	LT adv	2
6/15/18	1.3		30	LT adv		63		LT adv	0
6/19/18	0.0	10	9	31		9	20	9	0
6/26/18	0.2	95	20	171		285	9	295	3
6/27/18	0.2			LT adv		246		LT adv	1
6/28/18	0.2			LT adv		85		LT adv	0
7/2/18	0.0	?	52	9		10	10	10	0
7/10/18	0.1	9	9	9		9	10	9	0
7/17/18	0.0	9	63	10		10	10	10	0
7/24/18	1.6	84	96	629		51	51	801	2
7/31/18	4.5	1067	12997	2167	14136	52	97	4	
8/1/18	4.7	1024	73	LT adv	62			1	
8/2/18	3.2	20						0	
8/7/18	0.7	30	10	10	9	9	10	0	
8/14/18	0.8	20	41	9	9	10	9	0	
8/21/18	0.1	9	9	62	9	10	9	0	
8/28/18	0.0	10	52	10	9	9	20	0	

LT adv = Long-term advisory posted so no follow up sampling performed

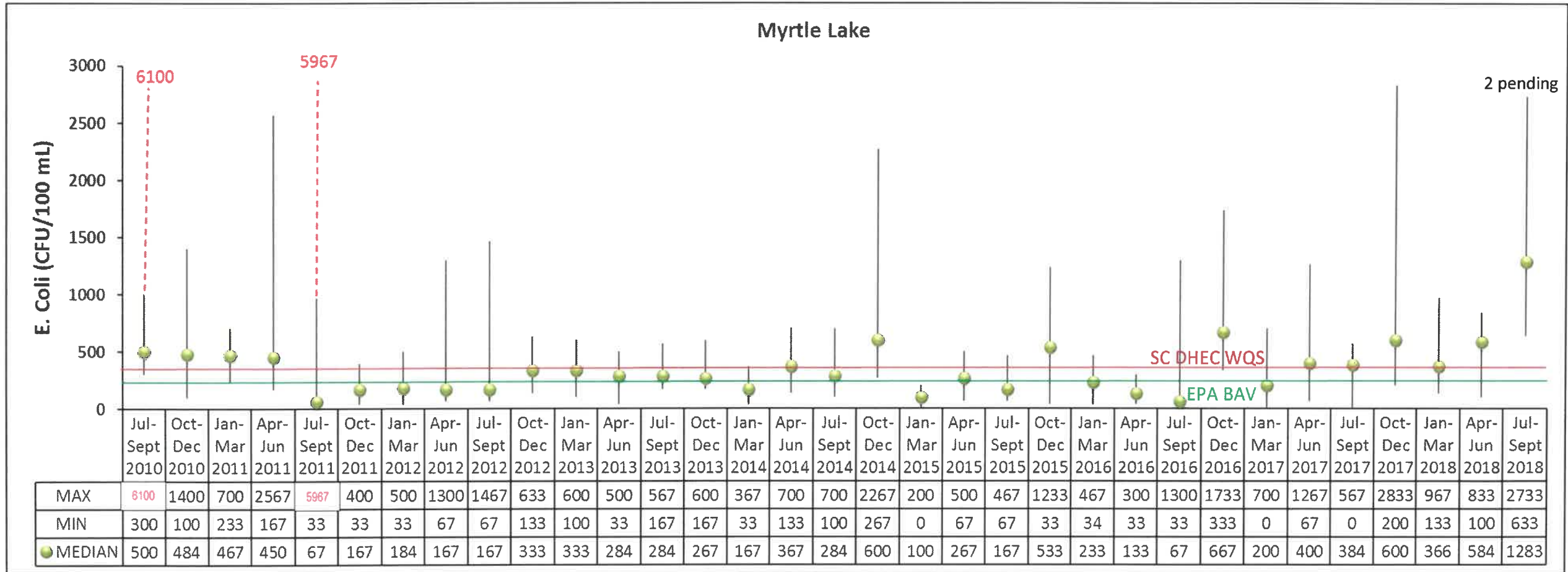
# Surfside Volunteer Monitoring Summary Report

9/6/18

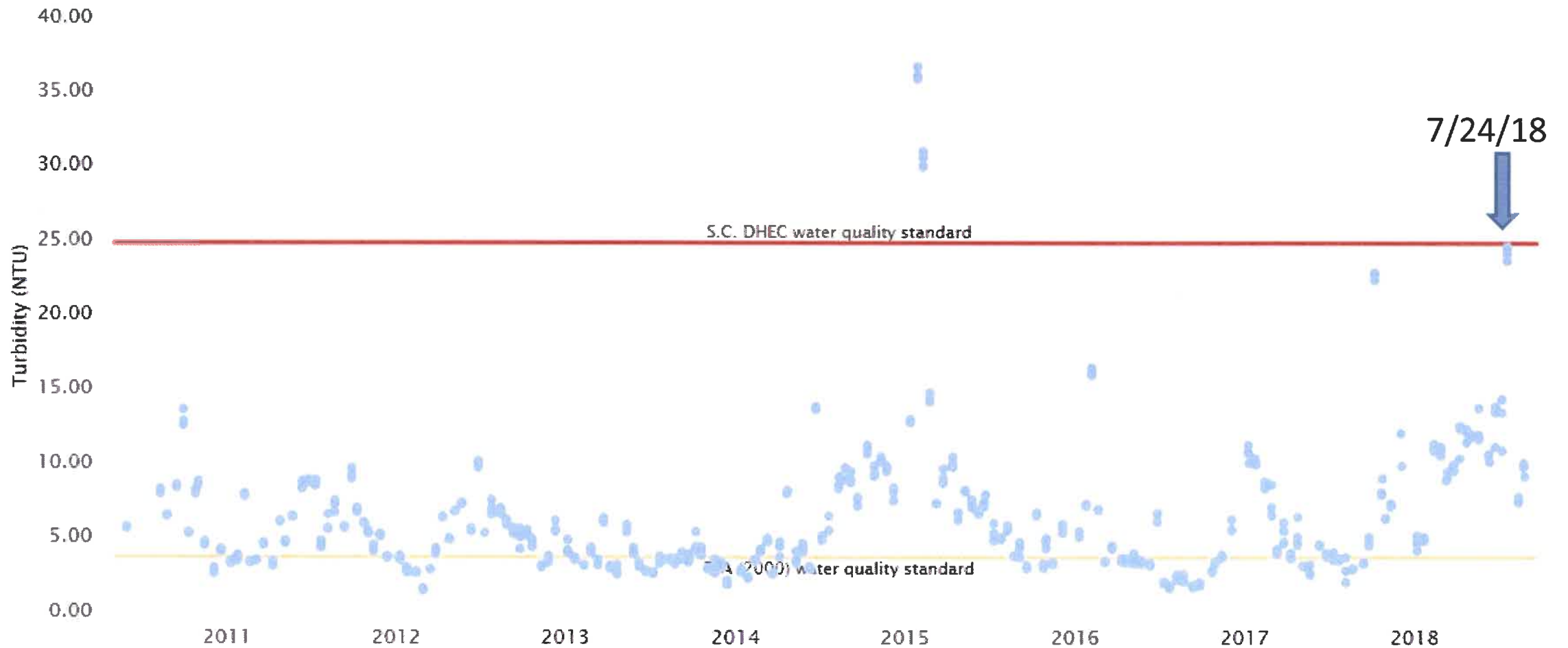
Lake Dogwood: Since the last quarter in 2017, no reports have exceeded the SC DHEC water quality standard. One report (7/24/18) was close (333 CFU/100 mL) and exceeded the EPA recommended level (235 CFU/100 mL). Turbidity was high (24 NTU). This sample was collected after 1.4" rain.



Myrtle Lake: Since the last quarter in 2017, eleven of the fifteen reports have exceeded the SC DHEC water quality standard. Sample from 7/24/18 was elevated (1933 CFU/100 mL) and also had high turbidity (20 NTU). Sample from 8/14/18 was elevated (2733 CFU/100 mL), but turbidity was somewhat elevated (6 NTU). A king tide occurred on 8/13/18 and 0.8 inch rain fell the day prior to sampling which was conducted on a high tide.



Lake Dogwood: Long-term trend of increased turbidity started in Oct 2017. Median of 187 samples is 5.2 NTU. Second highest turbidity was reported on 7/24/18 at both sites following 2 days of rain (total accumulation of 1.4"). E. coli were also elevated at both sites. Another 5.9 inches of rain had fallen over the 4<sup>th</sup> and 5<sup>th</sup> days prior to sampling.



Fewer contraventions of oxygen water quality criteria are continuing and are due to increased levels of oxygen during warm weather. Some evidence of algal blooms supply oxygen in Lake Dogwood.

