Appendix A – Analysis of Bacteria Data Using Existing Basin Plan Water Quality Objectives

				November	each Bacteria Su • 1998 to Octobe -day Geometric	r 2017								
	No winter sa	Station 42000 Station 43000 Station 44000 No winter samples 1999/2000 and 2004/2005 – No winter samples 1999/2000 and 2004/2005 – No winter samples 1999/2000 and 2004/2005 – 2007/2008 2007/2008 – 2007/2008												
	Total Coliform	Fecal Coliform	Enterococcus Total Fecal Enterococcus Total Fecal											
Exceedance Count	10	10 1 38		21 0 36			4	0	0					
Sample Count	731	731 731 727		497 500		495	447	449	454					
Exceedance Percentage	1.37%	0.14%	5.23%	4.23%	0.00%	7.27%	0.89%	0.00%	0.00%					

*Calculated only on days where samples were taken

				0		ch Bacteria ember 1998	•	0	ple			
		Station	n 42000			Station	43000			Station	44000	
	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Enteroc occus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Enteroc occus	Total Coliform	Total		
Objective (cfu/100 ml)	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104
Exceedance Count	23	12	5	33	30	8	3	25	10	4	2	5
Sample Count	822	822	822	822	716	716	716	715	702	702	702	703
Exceedance Percentage	2.80%	1.46%	0.61%	4.01%	4.19%	1.12%	0.42%	3.50%	1.42%	0.57%	0.28%	0.71%

	Peninsula Beach Bacteria Summary November 1998 to October 2017 No winter data after 2008/2009 30-day Rolling Geometric Mean* Total Coliform Enterococcus											
Objective (cfu/100 ml)	1,000	200	35									
Exceedance Count	47	0	72									
Sample Count	574	573	566									
Exceedance Percentage	8.19% 0.00% 12.72%											

		Beach Bacteria Si lovember 1998 to	• •	· ·
	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Enterococcus
Objective (cfu/100 ml)	10,000	400	1,000*	104
Exceedance Count	23	16	11	47
Sample Count	740	739	739	736
Exceedance Percentage	3.11%	2.17%	1.49%	6.39%

	Nov No	Iugu Beach Bacteria ember 1998 to Octob winter data after 200 ay Rolling Geometri	ber 2017 05/2006									
	Total Coliform Fecal Coliform Enterococcus											
Objective (cfu/100 ml)	1,000	200	35									
Exceedance Count	1	0	4									
Sample Count	448	446	451									
Exceedance Percentage	0.22% 0.00% 0.89%											

	Point Mu		cteria Summary: 998 to October 2	-						
	TotalFecalFecal toColiformColiformTotal Ratio									
Objective (cfu/100 ml)	10,000	104								
Exceedance Count	12	4	2	10						
Sample Count	647	647	646	648						
Exceedance Percentage	1.85%	0.62%	0.31%	1.54%						

	N No w	Port Hueneme Beach Bacteria Summary November 1998 to October 2017 No winter data 2005/2006 – 2014/2015 30-day Rolling Geometric Mean*											
	Total Coliform Fecal Coliform Enterococcus												
Objective (cfu/100 ml)	1,000	200	35										
Exceedance Count	9	0	31										
Sample Count	729	729	719										
Exceedance Percentage	1.23% 0.00% 4.31%												

	Port	Sin	each Bacteria S gle Sample 998 to October	·									
	Total Coliform	Enterococcus											
Objective (cfu/100 ml)	10,000	400	1,000*	104									
Exceedance Count	11	9	8	28									
Sample Count	810	810	810	805									
Exceedance Percentage	1.36%	1.11%	0.99%	3.48%									

					Noven	nber 1998	ch Bacteria S to October 2 &eometric M	2017					
		Station 14000Station 15000Station 16000**Station 17000No winter data 2008/2009No winter data after 2004/2005No winter data after 2004/2005No winter data after 2004/2005											
	Total Coliform	Fecal Coliform	Enteroco ccus	Total Coliform	Fecal Coliform	Entero coccus	Total Coliform	Fecal Coliform	Enteroc occus			Enteroc occus	
Objective (cfu/100 ml)	1,000	200	35	1,000	200	35	1,000	200	35	1,000	200	35	
Exceedance Count	55	2	62	18	0	19	18	0	12	32	3	49	
Sample Count	823	824	823	452	448	455	326	319	325	478	473	475	
Exceedance Percentage	6.68%	0.24%	7.53%	3.98%	0.00%	4.18%	5.52%	0.00%	3.69%	6.69%	0.63%	10.32%	

*Calculated only on days where samples were taken **Data is available up to 2008

		Promenade Park Bacteria Summary: Single Sample November 1998 to October 2017														
		Station 1	14000			Station 15000 Station 16000**							Station 17000			
	Total ColiformFecal ColiformFecal to Total 				Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Total			Total Coliform	Fecal Coliform	Fecal to Total Ratio	Enteroc occus
Objective (cfu/100 ml)	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104
Exceedance Count	31	22	12	47	10	7	9	24	6	7	9	18	16	11	14	32
Sample Count	910	909	908	910	634	631	629	634	393	390	389	393	666	663	662	663
Exceedance Percentage	3.41%	2.42%	1.32%	5.16%	1.58%	1.11%	1.43%	3.79%	1.53%	1.79%	2.31%	4.58%	2.40%	1.66%	2.11%	4.83%

*Total coliform density shall not exceed 1,000/100 ml, if the ratio of fecal-to-total coliform exceeds 0.1.

**Data is available up to 2008

					Nov	con Beach Bac vember 1998 t Illing 30-day Ge	o October 20	017				
	No wint	Station 100 ter data 1999/ 5/2006 – 2008	2000 and		Station 1001 er data after 2		Station 1050*** No winter data 2004/2005 and after 2008/2009			Station 1100 No winter data 2004/2005, no data 2008-2015, no winter data after 2015		
	Total Coliform	Fecal Coliform	Enterococc us	Total Coliform	Fecal Coliform	Enterococc us	Total Coliform	Fecal Coliform	Enteroco ccus	Total Coliform	Fecal Coliform	Enterococc us
Objective (cfu/100 ml)	1,000	200	35	1,000	200	35	1,000	200	35	1,000	200	35
Exceedance Count	146	12	139	178	144	165	25	3	41	7	0	19
Sample Count	799	807	802	178	170	166	522	519	512	379	373	377
Exceedance Percentage	18.27%	1.49%	17.33%	100.00%	84.71%	99.40%	4.79%	0.58%	8.01%	1.85%	0.00%	5.04%

**Data was available up to 2008

***Data was available up to 2014

	Rincon Beach Bacteria Summary: Single Sample November 1998 to October 2017															
		Station	1000			Station 1	001**	** Station 1050*** Station 1					1100	1100		
	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Enteroc occus
Objective (cfu/100 ml)	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104
Exceedance Count	32	38	30	71	191	181	78	246	10	16	16	29	4	7	11	20
Sample Count	883	884	881	882	330	328	327	327	634	633	633	630	483	482	481	482
Exceedance Percentage	3.62%	4.30%	3.41%	8.05%	57.88%	55.18%	23.85%	75.23 %	1.58%	2.53%	2.53%	4.60%	0.83%	1.45%	2.29%	4.15%

*Total coliform density shall not exceed 1,000/100 ml, if the ratio of fecal-to-total coliform exceeds 0.1.

**Data was available up to 2008

***Data was available up to 20014

	Rincon Parkway North Beach Bacteria Summary Rolling November 1998 to October 2008 No winter data after 2004/2005 30-day Rolling Geometric Mean*								
	Total Coliform	Total Coliform Fecal Coliform Enterococcus							
	1,000	200	35						
Exceedance Count	8	0	0						
Sample Count	324	324	319						
Exceedance Percentage	2.47%	0.00%	0.00%						

	Rincon Parkway North Beach Bacteria Summary: Single Sample November 1998 to October 2008								
	Total Coliform	Enterococcus							
Objective (cfu/100 ml)	10,000	400	1,000*	104					
Exceedance Count	1	2	2	4					
Sample Count	387	387	387	386					
Exceedance Percentage	0.26%	0.52%	0.52%	1.04%					

	San Buenaventura Beach Bacteria Summary November 1998 to October 2017 Rolling 30-day Geometric Mean*											
	Station 18000 No winter data after 2004/2005			Station 19000 No winter data 2005/2006 – 2009/2010			Station 20000 No winter data after 2004/2005			Station 21000 No winter data after 2004/2005		
	Total Coliform	Fecal Coliform	Enterococ cus	Total Coliform	Fecal Coliform	Enterococ cus	Total Coliform	Fecal Coliform	Enteroc occus	Total Coliform	Fecal Coliform	Enterococ cus
Objective (cfu/100 ml)	1,000	200	35	1,000	200	35	1,000	200	35	1,000	200	35
Exceedance Count	7	0	23	78	2	75	8	0	14	4	0	4
Sample Count	444	438	446	790	788	784	465	462	458	450	450	442
Exceedance Percentage	1.58%	0.00%	5.16%	9.87%	0.25%	9.57%	1.72%	0.00%	3.06%	0.89%	0.00%	0.90%

	San Buenaventura Beach Bacteria Summary: Single Sample															
	Station 18000				Station 19000			Station 20000				Station 21000				
	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Entero coccus	Total Coliform	Fecal Coliform	Fecal to Total Ratio	Enteroc occus
Objective (cfu/100 ml)	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104	10,000	400	1,000*	104
Exceedance Count	8	14	8	23	42	25	19	57	3	9	6	14	2	4	5	12
Sample Count	636	633	632	635	879	874	874	870	639	640	638	637	634	634	633	631
Exceedance Percentage	1.26%	2.21%	1.27%	3.62%	4.78%	2.86%	2.17%	6.55%	0.47%	1.41%	0.94%	2.20%	0.32%	0.63%	0.79%	1.90%

	Surfer's Point Beach Bacteria Summary No data winter 2008/2009 30-day Rolling Geometric Mean*									
	Total Coliform	Total Coliform Fecal Coliform Enterococcus								
	1,000	200	35							
Exceedance Count	166	7	85							
Sample Count	831	832	838							
Exceedance Percentage	19.98%	0.84%	10.14%							

	Surfer's Point Beach Bacteria Summary: Single Sample								
	Total Coliform	Enterococcus							
Objective (cfu/100 ml)	10,000	400	1,000*	104					
Exceedance Count	39	24	14	56					
Sample Count	924	923	919	924					
Exceedance Percentage	4.22%	2.60%	1.52%	6.06%					