

Jenner Boat Ramp	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Coli)	Total Coliforms Diluted 1:10 (Coli)	E. coli (Coli)	E. coli Diluted 1:10 (Coli)	Enterococcus (Enteroc)	USGS 11467000 RR near Guerneville (Hacienda)***	Notes	
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	low Rate**	stuary Statu	Jenner Gauge (ft)
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100m	MPN/100m	MPN/100m	MPN/100m	MPN/100m	(cfs)		
5/10/2016	10:00	15.7	8.0	0.24	ND	ND	0.31	ND	0.24	0.56	0.031	0.062	0.696	0.678	5800	3.8	0.0016			20		472	Open	0.84	
5/17/2016	10:00	19.2	8.4	0.32	ND	ND	0.099	ND	0.32	0.41	0.033	0.067	1.57	1.78	1200	3.7	0.00070	172.3	299	52.0	41	13.2	376	Open	1.77
5/24/2016	10:10	18.5	8.5	0.28	ND	ND	0.065	ND	0.28	0.35	0.031	0.071	1.31	1.54	530	4.6	0.00088	209.8	548	20.9	20	30.1	340	Open	2.65 Stopped sampling this site after this date

* Method Detection Limit - limits can vary for individual samples depending on matrix interference and dilution factors, all results are preliminary and subject to final revision.
 ** Total nitrogen is calculated through the summation of the different components of total nitrogen: organic and ammoniacal nitrogen (together referred to as Total Kjeldahl Nitrogen or TKN) and nitrate/nitrite nitrogen.
 *** United States Geological Survey (USGS) Continuous-Record Gaging Station
 **** Flow rates are preliminary and subject to final revision by USGS.

Recommended EPA Criteria based on Aggregate Ecoregion III
 Total Phosphorus: 0.02188 mg/L (21.88 ug/L) ≈ 0.022 mg/L
 Total Nitrogen: 0.38 mg/L
 Chlorophyll a: 0.00178 mg/L (1.78 ug/L) ≈ 0.0018 mg/L
 Turbidity: 2.34 FTU/NTU

CDPH Draft Guidance for Fresh Water Beaches - Single Sample Values:
 Beach posting is recommended when indicator organisms exceed any of the following levels:
 Total coliforms: 10,000 per 100 ml
 E. coli: 235 per 100 ml
 Enterococcus: 61 per 100 ml

Casini Ranch	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Coliort)	Total Coliforms Diluted 1:10 (Coliort)	E. coli (Coliort)	E. coli Diluted 1:10 (Coliort)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***	Notes	
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	ow Rate**	stuary Statu	Jenner
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100m	MPN/100m	MPN/100m	MPN/100m	MPN/100m	(cfs)		Gauge (ft)
5/10/16	10:30	18.24	8.2	0.21	ND	ND	0.24	ND	0.21	0.45	0.036	0.085	1.37	1.86	190	1.4	0.0025	461.1	408	6.3	<10	<10	472	Open	0.84
5/17/16	10:30	21.2	8.0	ND	ND	ND	0.17	0.059	ND	0.23	0.033	0.082	1.71	1.94	170	1.8	0.0018	547.5	915	10	<10	<1.0	376	Open	1.77
5/24/16	11:20	19.0	8.1	ND	ND	ND	0.15	ND	ND	0.26	0.042	0.079	0.890	1.19	180	1.5	0.0010	920.8	759	2.0	<10	1.0	340	Open	2.65 Stopped sampling this site after this date

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Recommended EPA Criteria based on Aggregate Ecoregion III
Total Phosporus: 0.02188 mg/L (21.88 ug/L) ≈ 0.022 mg/L
Total Nitrogen: 0.38 mg/L
Chlorophyll a : 0.00178 mg/L (1.78 ug/L) ≈ 0.0018 mg/L
Turbidity: 2.34 FTU/NTU

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Total coliforms: 10,000 per 100 ml
E. coli: 235 per 100 ml
Enterococcus: 61 per 100 ml

Patterson Point	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Colliert)	Total Coliforms Diluted 1:10 (Colliert)	E. coli (Colliert)	E. coli Diluted 1:10 (Colliert)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***	Flow Rate****	Estuary Status	Jenner Gauge (ft)	Notes
MDL*		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100m	MPN/100m	MPN/100m	MPN/100m	MPN/100m	(cfs)				
5/10/2016	11:00	16.6	7.9	0.21	ND	ND	0.29	ND	0.21	0.50	0.040	0.081	1.55	1.97	180	2.1	0.0041	686.7	908	12.1	<10	<10	472	Open	0.84	Enterococcus marked as diluted on datasheet.	
5/17/2016	10:50	20.1	7.9	ND	ND	ND	0.21	0.060	ND	0.44	0.047	0.074	1.46	1.86	180	1.8	0.0014	648.8	670	10	31	1.0	376	Open	1.77		
5/24/2016	11:40	18.1	8.0	0.32	ND	ND	0.17	ND	0.32	0.49	0.031	0.083	0.927	1.24	180	1.4	0.00073	547.5	455	8.4	<10	1.0	340	Open	2.65		
5/31/2016	10:50	21.4	8.0	ND	ND	ND	0.15	0.061	ND	0.31	0.036	0.062	1.46	1.89	170	2.2	0.0021	1119.9	1178	18.9	<10	3.1	273	Open	2.91		
6/2/2016	13:40	22.6	8.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	866.4	744	22.8	41	10	254	Closed	5.77		
6/7/2016	10:00	21.7	8.1	ND	ND	ND	0.065	ND	ND	0.24	0.024	0.055	1.61	1.89	150	2.1	0.0058	1553.1	2014	35.0	30	44.1	218	Closed	7.71		
6/14/2016	10:30	21.3	8.1	0.24	ND	ND	0.058	ND	0.24	0.31	0.026	0.054	1.57	2.44	170	1.4	0.0024	1732.9	1119	22.3	10	63	196	Open	1.56		
6/21/2016	9:40	21.5	8.2	ND	ND	ND	ND	ND	ND	0.10	0.036	0.051	1.40	2.38	170	0.99	0.0039	>2419.6	2282	25.6	63	47.0	180	Closed	5.69		
6/23/2016	10:10	22.6	8.1	0.21	ND	ND	ND	ND	0.21	0.21	0.035	0.067	1.52	2.25	160	1.7	0.0027	>2419.6	4611	43.2	74	28.2	166	Closed	6.45		
6/28/2016	11:50	23.7	7.8	0.24	ND	ND	ND	ND	0.24	0.24	0.043	0.096	1.65	2.27	160	2.2	0.0020	>2419.6	3873	13.4	20	7.4	137	Open	1.43		
7/5/2016	9:20	21.7	7.9	ND	ND	ND	0.040	ND	ND	0.18	0.036	0.090	1.79	2.24	150	2.1	0.0015	>2419.6	2098	44.3	31	15.8	135	Closed	4.64		
7/7/2016	11:10	22.6	7.9	ND	ND	ND	ND	ND	ND	0.14	0.037	0.073	1.75	1.89	160	1.6	0.0035	>2419.6	4352	43.2	41	21.3	143	Closed	5.31		
7/12/2016	8:50	23.1	7.9	ND	ND	ND	ND	ND	ND	0.18	0.038	0.069	1.57	1.92	140	2.2	0.0024	>2419.6	3448	16.9	52	73.3	102	Open	3.58		
7/19/2016	9:00	22.2	7.8															1986.3	2613	1.0	<10	2.0	108	Open	2.15		
7/26/2016	9:00	23.0	7.6															2419.6	4106	6.3	10	14.5	121	Open	1.94		

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Recommended EPA Criteria based on Aggregate Ecoregion III
Total Phosphorus: 0.02188 mg/L (21.88 ug/L) ≈ 0.022 mg/L
Total Nitrogen: 0.38 mg/L
Chlorophyll a: 0.00178 mg/L (1.78 ug/L) ≈ 0.0018 mg/L
Turbidity: 2.34 FTU/NTU

CDPH Draft Guidance for Fresh Water Beaches - Single Sample Values:
Beach posting is recommended when indicator organisms exceed any of the following levels:
Total coliforms: 10,000 per 100 ml
E. coli: 235 per 100 ml
Enterococcus: 61 per 100 ml

Monte Rio	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Colliert)	Total Coliforms Diluted 1:10 (Colliert)	E. coli (Colliert)	E. coli Diluted 1:10 (Colliert)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***	Notes	
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	Flow Rate****	Estuary Status	Jenner Gauge (ft)
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100m	MPN/100m	MPN/100m	MPN/100m	MPN/100m	(cfs)		
5/10/2016	11:10	15.6	7.9	0.21	ND	ND	0.29	0.057	0.21	0.56	0.040	0.081	1.53	1.94	180	1.7	0.0063	908.4	1376	16.0	<10	<10	472	Open	0.84
5/17/2016	11:10	19.8	7.8	ND	ND	ND	0.21	0.060	ND	0.44	0.037	0.078	1.49	1.90	180	2.4	0.0033	866.4	4.1	857	20	1	376	Open	1.77
5/24/2016	12:00	17.9	8.0	ND	ND	ND	0.16	ND	ND	0.34	0.040	0.091	0.857	1.12	180	1.8	0.0015	488.4	529	6.3	10	3.1	340	Open	2.65
5/31/2016	11:30	21.0	7.9	ND	ND	ND	0.14	0.061	ND	0.34	0.036	0.058	1.64	1.86	160	1.4	0.0022	770.1	1187	14.6	30	5.2	273	Open	2.91
6/2/2016	14:00	22.4	8.0	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1203.3	822	48.0	52	228	254	Closed	5.77
6/7/2016	10:20	21.9	8.2	ND	ND	ND	ND	ND	ND	0.14	0.026	0.059	1.53	1.96	150	1.1	0.0035	>2419.6	1314	204.6	109	387.3	218	Closed	7.71
6/14/2016	10:50	21.4	8.1	ND	ND	ND	0.049	ND	ND	0.15	0.027	0.046	1.48	2.22	170	1.5	0.0017	1119.9	1178	13.4	20	63	196	Open	1.56
6/21/2016	10:10	21.5	8.0	0.21	ND	ND	ND	ND	0.21	0.21	0.034	0.047	1.48	2.27	170	1.1	0.0060	>2419.6	2909	69.7	51	62.4	180	Closed	5.69
6/23/2016	10:50	22.9	8.1	ND	ND	ND	0.040	ND	ND	0.22	0.035	0.067	1.46	2.14	160	1.9	0.0035	>2409.6	3784	261.3	241	179.2	166	Closed	6.45
6/28/2016	12:20	24.0	7.8	ND	ND	ND	ND	ND	ND	0.070	0.049	0.10	1.52	2.21	160	1.9	0.0017	>2419.6	4106	16.9	<10	5.2	137	Open	1.43
7/5/2016	9:40	21.9	7.9	ND	ND	ND	ND	ND	ND	0.10	0.039	0.067	1.91	2.32	150	2.2	0.0040	>2419.6	4106	22.4	10	12.8	135	Closed	4.64
7/7/2016	12:00	23.3	7.9	ND	ND	ND	0.041	ND	ND	0.15	0.032	0.042	1.64	1.87	170	1.7	0.0028	>2419.6	3076	18.7	63	14.4	143	Closed	5.31
7/12/2016	9:20	23.4	7.8	ND	ND	ND	ND	ND	ND	0.14	0.035	0.065	1.62	1.91	150	1.4	0.0022	2419.6	4106	33.2	41	26.2	102	Open	3.58
7/19/2016	9:20	23.1	7.9															>2419.6	3255	12.1	20	7.4	108	Open	2.15
7/26/2016	9:20	23.8	7.9															2419.6	2909	2.0	<10	14.5	121	Open	1.94

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Total Phosphorus: 0.02188 mg/L (21.88 ug/L) ≈ 0.022 mg/L
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Total coliforms: 10,000 per 100 ml
E. coli: 235 per 100 ml
Enterococcus: 61 per 100 ml

Vacation Beach	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Coliort)	Total Coliforms Diluted 1:10 (Coliort)	E. coli (Coliort)	E. coli Diluted 1:10 (Coliort)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***	Notes		
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10	0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20	20	20	2	2	2	low Rate**	Stuary Statu	Jenner Gauge (ft)	
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100m	MPN/100m	MPN/100m	MPN/100m	MPN/100m	(cfs)			
5/10/2016	11:30	17.3	8.1	ND	ND	ND	0.29	ND	ND	0.46	0.036	0.069	1.32	1.92	180	2.2	0.0051	1299.7	1723	13.2	10	<10	472	Open	0.84	Enterococcus marked as diluted on datasheet.
5/17/2016	11:30	20.5	8.0	1.0	ND	ND	0.21	0.061	1.0	1.3	0.034	0.078	1.46	1.86	190	2.6	0.0029	727.0	677	5.2	10	3.1	376	Open	1.77	
5/24/2016	12:20	18.6	8.1	ND	ND	ND	0.16	ND	ND	0.30	0.033	0.083	0.812	1.14	170	1.6	0.0010	387.3	529	8.6	<10	2.0	340	Open	2.65	
5/31/2016	11:50	21.0	8.0	ND	ND	ND	0.15	0.061	ND	0.35	0.036	0.062	1.43	1.85	170	1.8	0.0023	686.7	816	16.6	<10	5.1	273	Open	2.91	
6/2/2016	14:20	22.9	8.2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	461.1	670	9.6	<10	30	254	Closed	5.77	
6/7/2016	10:40	20.9	8.1	ND	ND	ND	0.077	ND	ND	0.25	0.031	0.052	1.44	1.90	140	1.4	0.0020	980.4	1333	30.9	30	40.2	218	Closed	7.71	
6/14/2016	11:10	20.8	8.2	ND	ND	ND	0.050	ND	ND	0.22	0.034	0.050	1.87	2.13	170	1.3	0.0024	1553.1	4674	17.3	20	141	196	Open	1.56	
6/21/2016	10:20	21.8	8.1	ND	ND	ND	0.045	ND	ND	0.15	0.031	0.071	1.61	2.30	170	1.2	0.0050	>2419.6	2359	95.8	75	248.9	180	Closed	5.69	
6/23/2016	11:10	22.9	8.1	ND	ND	ND	ND	ND	ND	0.18	0.031	0.060	1.36	2.11	180	2.4	0.0034	>2419.6	4106	57.1	63	95.9	166	Closed	6.45	
6/28/2016	12:40	24.3	8.1	ND	ND	ND	ND	ND	ND	0.18	0.028	0.068	1.61	2.23	160	2.0	0.0034	>2419.6	2603	16.9	<10	41.4	137	Open	1.43	
7/5/2016	10:00	21.9	8.0	ND	ND	ND	ND	ND	ND	0.14	0.037	0.063	1.96	2.3	150	2.9	0.0024	>2419.6	2755	24.6	10	47.4	135	Closed	4.64	
7/7/2016	12:20	23.1	8.0	ND	ND	ND	ND	ND	ND	0.10	0.029	0.031	1.82	1.77	180	2.5	0.0026	1986.3	2909	13.5	10	7.4	143	Closed	5.31	
7/12/2016	9:40	23.3	8.1	0.24	ND	ND	ND	ND	0.24	0.24	0.030	0.050	1.64	1.91	150	2.0	0.00087	>2419.6	4884	5.1	20	32.0	102	Open	3.58	
7/19/2016	9:40	23.3	8.0															>2419.6	3076	4.1	<10	6.3	108	Open	2.15	

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