

Date	pH	Spec. Cond. (uS/cm)	Total Dis-solved Solids	Alka-linity	Cations				Anions				Sum	Sum Cat-ions	Sum An-ions	Major Cations				Major Anions			Water Type	
					Cal-cium (Ca)	Magne-sium (Mg)	So-dium (Na)	Potas-ium (K)	Car-bonate (CO ₃)	Bicar-bonate (HCO ₃)	Sul-fate (SO ₄)	Chlor-ide (Cl)				Ni-trate (NO ₃)	Cal-cium (Ca)	Magne-sium (Mg)	So-dium (Na)	Potas-ium (K)	Bicar-bonate (HCO ₃)	Sul-fate (SO ₄)		Chlor-ide (Cl)
					(mg/L)											(meq/L)			(% as meq/L)					
10/25/67	7.4	425		192	72	5.3	8.8	2.0		192		11.0	0.78	292	4.46	3.46	81%	10%	9%	1%	91%	0%	9%	Calcium-Bicarbonate
8/28/68	7.4	414		186	72	5.0	8.3	2.0		186		11.0	0.64	285	4.42	3.36	81%	9%	8%	1%	91%	0%	9%	Calcium-Bicarbonate
1/22/73				210	80	5.3	9.9	2.0		210		10.0		317	4.92	3.72	81%	9%	9%	1%	92%	0%	8%	Calcium-Bicarbonate
10/21/74	7.3	340		180	72	7.3	10.6	2.0	0	220	14.2	13.0	1.37	340	4.71	4.26	76%	13%	10%	1%	84%	7%	9%	Calcium-Bicarbonate
9/22/75	7.5	440		186	70	7.5	6.0	2.0	0	186	7.0	16.0	1.20	296	4.42	3.65	79%	14%	6%	1%	84%	4%	12%	Calcium-Bicarbonate
3/1/76	7.5	330		200	79	1.7	19.8	2.0		200	14.0	24.0	1.18	342	5.01	4.25	79%	3%	17%	1%	77%	7%	16%	Calcium-Bicarbonate
10/18/76	7.6	350		210	73	1.5	6.7	2.0		210	16.0	10.0	1.42	321	4.10	4.06	89%	3%	7%	1%	85%	8%	7%	Calcium-Bicarbonate
4/4/77	7.2	385		206	77	3.9	9.8	2.0		206	16.0	12.0	0.64	327	4.64	4.05	83%	7%	9%	1%	83%	8%	8%	Calcium-Bicarbonate
12/5/77	7.3	360		212	82	5.8	11.3	2.0	0	259	20.0	14.0	1.03	395	5.10	5.06	80%	9%	10%	1%	84%	8%	8%	Calcium-Bicarbonate
5/15/78	7.0	410	242	214	86	4.9	12	2.0		214	38.3	14.0	4.60	375	5.25	4.70	81%	8%	10%	1%	75%	17%	8%	Calcium-Bicarbonate
5/22/79	7.2	340	300	218	80	5.8	11.1	2.0		218	21.0	15.0	0.24	353	5.01	4.43	80%	10%	10%	1%	81%	10%	10%	Calcium-Bicarbonate
5/19/80	7.2	455	274	228	88	3.9	13	2.0		228	19.6	14.0	2.00	371	5.34	4.54	82%	6%	11%	1%	82%	9%	9%	Calcium-Bicarbonate
5/11/81	7.3	440	292	232	87	4.8	13.6	2.0		232	22.5	9.5	2.81	374	5.36	4.54	81%	7%	11%	1%	84%	10%	6%	Calcium-Bicarbonate
5/1/82	7.4	500	216	236	88	7.8	7.54	2.0		236	32.3	12.0	0.89	387	5.42	4.88	81%	12%	6%	1%	79%	14%	7%	Calcium-Bicarbonate
5/1/83	7.5	495	332	128	91	6.7	11.5	2.0		128	33.2	15.0	4.13	291	5.62	3.21	80%	10%	9%	1%	65%	22%	13%	Calcium-Bicarbonate
5/1/84	7.5	465	328	224	92	6.3	13.2	2.0		224	21.0	12.0	2.22	373	5.74	4.45	80%	9%	10%	1%	83%	10%	8%	Calcium-Bicarbonate
5/1/85	7.1	480	281	222	83	7.3	11.4	2.0		222	24.4	13.0	3.70	367	5.31	4.51	78%	11%	9%	1%	81%	11%	8%	Calcium-Bicarbonate
5/1/86	7.3	440	140	230	68	5.3	11.5	2.0		230	26.0	17.0	2.35	362	4.39	4.79	77%	10%	11%	1%	79%	11%	10%	Calcium-Bicarbonate
5/19/87	7.3	460	258	206	83	4.9	9.1	2.0		206		11.2		317	5.01	3.69	83%	8%	8%	1%	91%	0%	9%	Calcium-Bicarbonate
5/23/88		480	286	214	83	6.8	12.7	2.0		214	27.2	11.9	2.44	360	5.32	4.41	78%	11%	10%	1%	80%	13%	8%	Calcium-Bicarbonate
4/10/89	7.5	500	320	222	88	8.7	10.3	3.9		222	34.2	10.6	4.08	382	5.66	4.65	78%	13%	8%	2%	78%	15%	6%	Calcium-Bicarbonate
4/9/90	7.4	485	286	214	89	4.9	10.4	2.6		214	24.9	9.6	2.10	358	5.36	4.30	83%	8%	8%	1%	82%	12%	6%	Calcium-Bicarbonate
4/8/91	7.4	520	325	208	116	33.5	11.6	1.6		208	43.0	10.4	4.30	428	9.09	4.60	64%	30%	6%	0%	74%	19%	6%	Calcium-Bicarbonate
4/6/92	7.4	525	328	210	91	5.4	10.8	1.9		210		11.0	2.86	333	5.50	3.75	83%	8%	9%	1%	92%	0%	8%	Calcium-Bicarbonate
10/4/93	7.6	500	250	216	82	8.3	10.9	1.9		216	27.0	11.0	1.91	359	5.28	4.41	77%	13%	9%	1%	80%	13%	7%	Calcium-Bicarbonate
4/4/94	7.5	515	315	214	87	9.1	12	1.8		214	38.0	12.0	2.66	377	5.66	4.64	77%	13%	9%	1%	76%	17%	7%	Calcium-Bicarbonate
4/17/95	7.5	515	315	208	89	8.5	11.8	1.9		208	40.0	13.0	2.71	375	5.70	4.61	78%	12%	9%	1%	74%	18%	8%	Calcium-Bicarbonate
4/15/96	7.4	510	268	200	86	8.2	11.6	1.9		200	40.0	13.0	2.49	363	5.52	4.48	78%	12%	9%	1%	73%	19%	8%	Calcium-Bicarbonate
4/28/97	7.3	490	302	209	77	12.1	11.2	1.2		209	32.0	13.0	2.10	357	5.34	4.46	72%	19%	9%	1%	77%	15%	8%	Calcium-Bicarbonate
5/27/97	7.3	480			82	8.1	10.9	2.0			26.5	13.0	2.10	145	5.28		77%	13%	9%	1%				
4/13/98	7.4	545	350	219	82	9.0	12.8	1.8		219	46.0	14.0	3.30	388	5.42	4.94	75%	14%	10%	1%	73%	19%	8%	Calcium-Bicarbonate
8/3/99	7.4	490	283	198	67	8.8	11.1	1.8		198	32.0	13.0	1.60	334	4.61	4.28	73%	16%	10%	1%	76%	16%	9%	Calcium-Bicarbonate
10/10/00	7.5	495	290	200	77	7.6	11.1	1.7		200	40.0			338	5.01		77%	12%	10%	1%				Calcium-Bicarbonate
10/23/01	7.5	530	304	193	69	5.2	10.6	1.8		193	33.0	12.0	1.70	327	4.40	4.19	79%	10%	10%	1%	76%	16%	8%	Calcium-Bicarbonate
11/5/02	7.5	410	315	202						202	33.0	12.0	1.90											
11/18/03	7.3	530	299	188						188	40.0	11.0	2.20											
11/2/04	7.4	505	318	195	83	8.9	12.1	1.7	0	195	51.0	12.0	2.80	367	5.46	4.60	76%	13%	10%	1%	70%	23%	7%	Calcium-Bicarbonate
11/16/05	7.3	475	297	200	81	8.2	10.3	2.0	0	200	36.1	11.8	1.40	350	5.20	4.36	77%	13%	9%	1%	75%	17%	8%	Calcium-Bicarbonate
N	36	37	28	37	36	36	36	36	5	37	33	37	35	36	36	34	36	36	36	36	34	34	34	
Min	7.0	330	140	128	67.2	1.5	6	1.2	0	128	7.0	9.5	0.24	145	4.10	3.21	64%	3%	6%	0%	65%	0%	6%	
Max	7.6	545	350	236	116	33.5	19.8	3.9	0	259	51	24.0	4.6	428	9.09	5.06	89%	30%	17%	2%	92%	23%	16%	
Avg	7.4	460	290	206	82	7.3	11.0	2.0	0	209	29.4	12.6	2.2	345	5.22	4.30	79%	11%	9%	1%	80%	11%	8%	

Source: City of Santa Cruz Water Dept.

Italics: Alkalinity used as a substitute for bicarbonate data where necessary (italics).

Potassium estimated as 2 mg/L where necessary (italics).