

Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant 2000

Water Quality Parameter	Yearly Average	Standard Deviation	Minimum Level	Maximum Level	Jan - Feb Average	Mar - Apr Average	May - Jun Average	Jul - Aug Average	Sep - Oct Average	Nov - Dec Average	Sample Frequency
General Parameters											
Alkalinity (Total as CaCO ₃), mg/L	182	7.2	174	199	175	191	182	180	190	174	Weekly
Ammonia (as Nitrogen), mg/L	0.93	0.33	0.50	1.60	1.28	1.05	0.90	1.05	1.00	0.30	Daily
Bicarbonate (HCO ₃), mg/L	182	7.2	160	199	175	191	182	180	190	174	Weekly
Biological Oxygen Demand, mg/L	5.3	0.7	3.0	11.0	5.4	6.0	5.0	4.0	6.0	5.5	3/Week
Conductivity, μmhos/cm	1,249	39.2	1,208	1,208	1,208	NA	1,312	1,242	1,255	1,229	Monthly
Hardness (as CaCO ₃), mg/L	248	13.1	238	294	265	262	248	236	235	240	Weekly
Nitrate (as Nitrogen), mg/L	9.9	1.1	6.7	13.0	10.8	9.2	9.4	8.7	9.7	11.6	Weekly
Nitrite (as Nitrogen), mg/L	0.2	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.2	0.4	Weekly
Permeability SAR [calculated]	4.44	0.18	4.11	4.46	4.55	4.18	4.54	4.53	4.24	4.60	
pH (units)	7.73	0.23	6.90	7.40	7.30	7.70	7.80	7.90	7.90	7.80	Daily
Temperature, degrees Fahrenheit	68.5	4.0	55.0	71.0	64.0	67.0	72.0	73.0	71.0	64.0	Daily
Total Coliform Count, MPN	1.4	0.6	<1.0	24.0	1.1	1.2	2.4	1.5	1.8	0.6	Daily
Total Dissolved Solids, mg/L	759	14.3	620	850	774	752	773	739	749	766	Weekly
Total Fats, Oils & Grease, mg/L	3.1	2.0	<2	<2	<2	1.0	NA	3.2	5.0	NA	Quarterly
Total Suspended Solids, mg/L	2.1	0.4	1.0	4.0	2.1	2.0	2.3	1.4	2.3	2.5	3/Week
Turbidity, NTU	1.2	0.2	0.6	2.1	1.3	1.2	1.3	0.9	1.3	1.2	Weekly
Chemical Parameters											
Arsenic (As) μg/L	1.0	0.2	0.6	1.4	1.2	1.3	1.1	0.7	0.8	1.2	Monthly
Boron (B), μg/L	548	16.9	520	580	545	530	570	530	565	550	Monthly
Cadmium (Cd), μg/L	<0.5	0.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Monthly
Calcium (Ca), μg/L	45,750	2121	41700	49700	44600	46300	47700	43900	43400	48600	Monthly
Chloride (Cl), μg/L	194267	10990	154000	223000	187900	191300	211000	204600	183100	187700	Weekly
Total Chromium (Cr), μg/L	0.7	0.1	<0.5	1.0	0.8	0.6	<0.7	0.6	<0.6	0.8	Monthly
Copper (Cu), μg/L	4.0	0.4	1.7	7.0	4.2	4.0	3.4	3.6	4.4	4.1	3/Week
Lead (Pb), μg/L	<1.0	0.0	<1	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Monthly
Magnesium (Mg), μg/L	29,067	2,125	24,900	35,900	30,500	31,900	29,500	27,800	25,800	28,900	Monthly
Mercury (Hg), μg/L	0.003	0.001	0.002	0.005	0.004	0.003	0.003	0.002	0.003	0.003	Monthly
Nickel (Ni), μg/L	7.7	0.5	5.0	12.0	7.7	6.7	7.8	8.3	7.8	7.6	3/Week
Phosphate (PO ₄), μg/L	4,858	2,150	1,200	8,600	6,350	5,650	2,250	4,650	2,550	7,700	Monthly
Potassium (K), μg/L	14,750	1,316	12,700	18,100	16,000	13,400	14,500	13,700	14,200	16,700	Monthly
Silicon (Si), μg/L	10,725	410	9,700	11,600	10,800	10,050	10,700	11,300	10,600	10,900	Monthly
Silver (Ag), μg/L	<1.0	0.0	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Weekly
Sodium (Na), μg/L	156,167	7,985	136,000	169,000	161,000	151,000	162,000	156,000	143,000	164,000	Monthly
Sulfate (SO ₄), μg/L	125,867	9,788	87,000	147,000	128,300	136,500	135,700	125,000	118,000	111,700	Weekly
Zinc (Zn), μg/L	64	5	38	102	70	68	59	60	67	63	3/Weekly
Other											
Dissolved Oxygen, mg/L	7.4	0.5	7.5	8.4	7.9	7.8	7.7	6.6	7.0	7.6	Daily
Ortho Phosphate, mg/L	4.4	2.2	1.3	10.8	7.0	3.5	3.3	2.4	3.0	7.5	Monthly

N/A = Not Available

MPN = Most Probable Number

SAR = $[Na+] / \sqrt{([Ca^{++}] + [Mg^{++}]) / 2}$

NTU = Nephelometric Turbidity Units (measure of the suspended material in water)

mg/L = Milligrams per Liter (parts per million)

μg/L = Micrograms per Liter (parts per billion)

