

Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant 2004

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	193	8	165	217	201	198	198	190	187	181	Weekly
Ammonia (as Nitrogen), mg/L	<0.3	0.1	<0.1	0.7	0.3	0.3	<0.2	<0.3	0.2	<0.3	Daily
Bicarbonate (HCO ₃), mg/L	193	8	165	217	201	198	198	190	187	181	Weekly
Biological Oxygen Demand, mg/L	3.2	0.5	2.0	5.0	4.1	2.8	3.2	3.1	2.9	2.9	Weekly
Conductivity, μmhos/cm	1214	23	1128	1328	1233	1209	1175	1209	1228	1235	Weekly
Hardness (as CaCO ₃), mg/L	247	5	228	270	251	249	240	247	252	243	Weekly
Nitrate (as Nitrogen), mg/L	7.3	0.7	6.2	8.8	8.7	7.2	7.2	6.8	6.8	7.2	Monthly
Nitrite (as Nitrogen), mg/L	<0.1	0	<0.05	0.46	<0.1	<0.12	<0.05	<0.08	<0.05	<0.17	Weekly
Permeability SAR [calculated]	4.0	0.2	3.8	4.2	4.17	4.10	3.84	4.27	3.95	3.94	Calculated
pH (units)	7.0	0	6.7	7.5	7.0	7.0	7.0	7.1	7.0	7.0	Daily
Settleable Solids mg/L/hr	<0.1	NA	<0.1	<0.1	NA	<0.1	NA	<0.1	<0.1	NA	Daily
Temperature, degrees Fahrenheit	70.2	4.0	55.2	79.3	64.8	68.2	72.7	74.7	73.7	67.1	Daily
Total Coliform Count, CFU/100 ml	<1.0	0	<1	6.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	720	7	660	765	727	712	724	711	719	728	Weekly
Total Fats, Oils & Grease, mg/L	<5	NA	<5	<5	<5	<5	NA	<5	<5	NA	Quarterly
Total Suspended Solids, mg/L	<2.1	<0.3	<1.0	3.8	2.6	2.2	2.1	<1.9	<1.7	2.1	3/Week
Turbidity, NTU	0.9	0.1	0.6	1.7	1.0	0.9	0.9	0.9	0.9	1.0	Daily
Chemical Parameters											
Arsenic (As) μg/L	0.9	0.3	0.4	1.6	1.4	1.0	0.8	1.0	0.5	0.6	Monthly
Boron (B), μg/L	504	12	480	530	500	525	490	500	500	510	Monthly
Cadmium (Cd), μg/L	<0.5	0	<0.1	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.4	Monthly
Calcium (Ca), μg/L	53,100	1,900	50,800	56,500	53,700	55,400	51,700	55,000	52,000	50,900	Monthly
Chloride (Cl), μg/L	182,000	6,200	161,000	204,000	190,000	174,000	176,000	185,000	184,000	186,000	Monthly
Total Chromium (Cr), μg/L	<0.7	0.2	<0.5	<2	<1.0	0.8	0.7	0.6	0.5	0.6	Monthly
Copper (Cu), μg/L	2.6	0.7	1.5	6.0	4.0	2.8	2.2	2.3	2.1	2.4	Weekly
Iron (Fe), μg/L	91	6	80	110	90	95	85	85	93.0	100	Monthly
Lead (Pb), μg/L	<1.1	0.23	<1	<10	<1.0	<1.0	1.5	<1.0	<1	0.8	Monthly
Magnesium (Mg), μg/L	30,900	1,800	28,400	34,400	33,300	33,000	28,900	30,400	30,200	29,700	Monthly
Mercury (Hg), μg/L	0.0022	0.0004	0.0015	0.0030	0.0025	0.0026	0.0022	0.0025	0.0018	0.0017	Monthly
Nickel (Ni), μg/L	6.3	0.6	4	11	7.0	6.4	6.2	6.2	5.3	6.4	Weekly
Phosphate (PO ₄), μg/L	1,340	670	850	3,300	2,700	1,200	970	1,100	1,000	1,060	Weekly
Potassium (K), μg/L	15,100	440	14,200	16,300	15,500	15,300	15,000	15,700	14,700	14,600	Monthly
Silicon (Si), μg/L	11,700	330	11,000	12,400	11,400	12,300	11,700	11,700	11,400	11,600	Monthly
Silver (Ag), μg/L	<0.2	0.04	<0.2	<5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	Monthly
Sodium (Na), μg/L	150,000	8,700	135,000	162,000	158,000	156,000	139,000	159,000	145,000	143,000	Monthly
Sulfate (SO ₄), μg/L	101,000	3,800	96,000	110,000	108,000	101,000	98,500	97,500	98,500	101,000	Monthly
Zinc (Zn), μg/L	51	14	26	85	56	77	40	52	40	43	Monthly
Other											
Dissolved Oxygen, mg/L	7.2	0.3	6.1	7.9	7.5	7.2	6.9	6.8	7.1	7.5	Daily
Ortho Phosphate, mg/L	<1.4	0.9	<1.0	3.6	3.2	<1.0	<1.0	<1.0	<1.0	<1.0	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)