

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2008**

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	183	8.3	163	216	193	173	179	187	192	175	Weekly
Ammonia (as Nitrogen), mg/L	0.5	0.2	0.1	5.1	0.5	0.5	0.5	0.4	0.3	0.8	Daily
Bicarbonate (HCO ₃), mg/L	183	8.3	163	216	193	173	179	187	192	175	Weekly
Biological Oxygen Demand, mg/L	<4.0	NA	<2.0	8.0	4.0	4.0	4.0	<3.0	<3.0	5.0	3/Weekly
Conductivity, umhos/cm	1,230	16.0	1,090	1,460	1,230	1,230	1,220	1,220	1,260	1,250	Weekly
Hardness (as CaCO ₃), mg/L	256	7.3	237	290	268	254	255	248	260	250	Weekly
Nitrate (as Nitrogen), mg/L	9.5	1.8	6.6	13.0	11.2	11.8	9.0	7.4	8.5	8.2	Monthly
Nitrite (as Nitrogen), mg/L	<0.12	NA	<0.05	0.75	<0.19	<0.1	<0.09	<0.05	<0.06	0.25	Daily
Permeability SAR [calculated]	4.0	NA	3.7	4.2	3.7	4.0	3.8	4.1	4.2	4.3	Monthly
pH (units)	7.3	0.1	6.9	7.7	7.4	7.3	7.2	7.3	7.3	7.2	Daily
Settleable Solids, mL/L/hr	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	NA	Quarterly
Temperature, degrees Fahrenheit	70.0	4.9	58.8	82.0	62.8	67.3	71.9	75.9	74.2	67.5	Daily
Total Coliform Count, CFU/100ml	<2.0	NA	<1.0	92.0	<1.0	<3.0	<1.0	<1.0	<2.0	<1.0	Daily
Total Dissolved Solids, mg/L	733	10.0	670	870	725	742	727	726	748	728	Weekly
Total Fats, Oils & Grease, mg/L	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<5.0	<5.0	NA	Quarterly
Total Suspended Solids, mg/L	<2.0	NA	<1.0	3.0	2.0	<2.0	2.0	<1.0	<1.0	2.0	3/Week
Turbidity, NTU	0.7	0.1	0.4	1.2	0.7	0.7	0.7	0.6	0.6	0.6	Daily
Chemical Parameters											
Arsenic (As), ug/L	1.1	0.1	0.8	1.4	1.1	1.3	1.0	1.0	1.2	1.1	Monthly
Boron (B), ug/L	505	36.9	440	580	510	543	540	495	465	455	Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Weekly
Calcium (Ca), ug/L	54,800	1,570	49,700	59,700	56,800	55,600	54,200	55,700	52,600	53,500	Monthly
Chloride (Cl), ug/L	184,000	18,300	160,000	238,000	181,000	184,000	176,000	177,000	203,000	222,000	Monthly
Total Chromium (Cr), ug/L	0.5	0.1	0.3	0.8	0.6	0.5	0.4	0.4	0.5	0.5	Weekly
Copper (Cu), ug/L	2.6	0.3	1.9	3.4	2.9	2.5	2.7	2.2	2.2	2.3	Weekly
Iron (Fe), ug/L	121	10.4	70.0	180	120	127	120	130	101	126	Monthly
Lead (Pb), ug/L	0.6	0.3	0.2	1.0	0.8	0.9	0.3	0.4	0.9	0.4	Monthly
Magnesium (Mg), ug/L	32,700	2,160	29,500	36,600	36,300	34,100	31,300	31,600	30,500	32,100	Monthly
Mercury (Hg), ug/L	0.0022	0.0005	0.0017	0.0032	0.0031	0.0020	0.0022	0.0019	0.0026	0.0018	Monthly
Nickel (Ni), ug/L	6.0	0.5	4.4	7.1	5.8	6.0	5.5	6.8	6.5	5.5	Weekly
Phosphate (PO ₄), ug/L	2,240	1,070	600	6,000	3,500	2,500	650	1,500	1,350	950	Monthly
Potassium (K), ug/L	17,100	1,450	14,000	20,000	15,500	18,300	17,500	18,500	17,000	15,000	Monthly
Silicon (Si), ug/L	11,700	290	11,200	12,400	11,900	11,300	11,800	11,500	12,100	11,600	Monthly
Silver (Ag), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Sodium (Na), ug/L	152,000	7,140	135,000	168,000	144,000	155,000	143,000	156,000	154,000	161,000	Monthly
Sulfate (SO ₄), ug/L	101,000	6,940	88,000	118,000	116,000	112,000	106,000	101,000	104,000	97,300	Monthly
Zinc (Zn), ug/L	25.0	4.4	17.6	35.9	25.2	29.2	21.6	25.7	29.9	18.3	Monthly
Other											
Dissolved Oxygen, mg/L	7.0	0.3	6.2	7.9	7.5	7.2	6.8	6.7	6.7	6.9	Daily
Ortho Phosphate, mg/L	<1.3	NA	<0.5	6.4	<2.0	<3.2	<0.8	<1.0	<0.5	<0.5	Monthly

NA = 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)