

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2009**

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	178	2.8	148	198	176	183	175	180	177	179	Weekly
Ammonia (as Nitrogen), mg/L	0.5	0.1	0.1	3.2	0.4	0.6	0.5	0.4	0.4	0.4	Daily
Bicarbonate (HCO ₃), mg/L	178	2.8	148	198	176	183	175	180	177	179	Weekly
Biological Oxygen Demand, mg/L	<4.0	NA	<2.0	9.0	5.0	6.0	4.0	<4.0	4.0	4.0	3/Weekly
Conductivity, umhos/cm	1,230	32.0	1,060	1,310	1,220	1,180	1,250	1,250	1,270	1,220	Weekly
Hardness (as CaCO ₃), mg/L	255	8.8	233	280	247	270	259	254	246	255	Weekly
Nitrate (as Nitrogen), mg/L	10.3	1.2	7.3	14.2	10.5	11.6	11.8	9.8	8.8	9.2	Monthly
Nitrite (as Nitrogen), mg/L	<0.15	NA	0.02	0.89	<0.26	<0.23	0.16	0.08	0.09	0.08	Weekly
Permeability SAR [calculated]	3.9	NA	3.6	4.1	4.3	3.5	3.7	4.0	4.1	4.2	Monthly
pH (units)	7.2	0	6.8	7.5	7.1	7.2	7.2	7.2	7.2	7.2	Daily
Temperature, degrees Fahrenheit	70.1	4.9	58.5	79.2	63.6	65.9	72.4	75.7	74.6	68.2	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	720	13.0	645	767	728	705	722	733	732	704	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	0	1.0	4.0	2.0	3.0	2.0	2.0	2.0	2.0	3/Week
Turbidity, NTU	0.8	0.1	0.4	1.9	0.8	0.8	0.8	0.8	0.8	0.6	Daily
Chemical Parameters											
Arsenic (As), ug/L	<1.1	NA	0.8	1.7	1.0	1.0	0.9	<1.2	1.1	1.1	Monthly
Boron (B), ug/L	460	25.9	410	510	465	435	485	445	495	435	Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Calcium (Ca), ug/L	51,300	1,670	48,200	57,900	50,000	54,500	51,000	51,300	51,100	49,900	Monthly
Chloride (Cl), ug/L	185,000	14,700	162,000	213,000	201,000	172,000	165,000	181,000	196,000	196,000	Monthly
Total Chromium (Cr), ug/L	0.6	0.1	0.3	1.1	0.4	0.4	0.6	0.6	0.5	0.5	Monthly
Copper (Cu), ug/L	2.9	0.3	2.1	5.9	2.8	3.5	3.4	2.7	2.8	3.0	Monthly
Iron (Fe), ug/L	131	14.8	90.0	180	125	141	145	110	115	140	Monthly
Lead (Pb), ug/L	<0.3	NA	0.1	0.6	0.4	0.5	0.2	<0.2	0.2	0.2	Monthly
Magnesium (Mg), ug/L	30,900	1,360	28,900	34,400	29,700	32,900	31,600	30,400	31,600	29,300	Monthly
Mercury (Hg), ug/L	0.0021	0.0004	0.0014	0.0030	0.0021	0.0028	0.0023	0.0019	0.0019	0.0015	Monthly
Nickel (Ni), ug/L	5.9	0.6	4.2	7.7	4.8	5.5	5.3	5.9	6.5	6.1	Monthly
Phosphate (PO ₄), ug/L	<2.3	NA	0.7	8.0	<1.5	1.5	6.5	2.5	1.0	0.9	Monthly
Potassium (K), ug/L	15,300	816	13,000	17,000	16,500	14,000	15,500	15,500	15,500	15,000	Monthly
Silicon (Si), ug/L	11,000	571	9,450	11,900	11,400	10,700	11,500	11,300	11,200	10,000	Monthly
Silver (Ag), ug/L	<0.1	NA	<0.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Sodium (Na), ug/L	145,000	9,890	128,000	160,000	157,000	132,000	135,000	147,000	150,000	152,000	Monthly
Sulfate (SO ₄), ug/L	99,200	4,080	88,000	113,000	98,300	102,000	90,000	94,500	95,500	98,100	Monthly
Zinc (Zn), ug/L	21.4	3.0	15.0	28.0	23.3	23.6	17.0	19.6	17.8	23.4	Monthly
Other											
Dissolved Oxygen, mg/L	7.1	0.2	6.2	8.3	7.3	7.1	6.9	6.9	6.9	7.4	Daily
Ortho Phosphate, mg/L	<0.8	NA	<0.5	3.4	<0.5	<0.5	<1.7	1.4	<0.5	<0.9	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)