

## Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant 2005

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
<b>General Parameters</b>											
Alkalinity (Total as CaCO <sub>3</sub> ), mg/L	189	15	159	255	209	199	192	194	176	169	Weekly
Ammonia (as Nitrogen), mg/L	<0.3	0.1	<0.1	0.6	0.3	0.3	<0.3	<0.4	<0.3	<0.2	Daily
Bicarbonate (HCO <sub>3</sub> ), mg/L	189	15	159	255	209	199	192	194	176	169	Weekly
Biological Oxygen Demand, mg/L	<2.6	0.8	<2.0	5.0	3.8	3.0	<3.0	<2.0	<2.0	<2.0	Weekly
Conductivity, µmhos/cm	1220	18	1150	1284	1248	1219	1192	1224	1224	1213	Weekly
Hardness (as CaCO <sub>3</sub> ), mg/L	248	10	232	289	260	257	242	246	252	234	Weekly
Nitrate (as Nitrogen), mg/L	9.4	1.2	7.3	13.0	8.8	8.4	9.3	8.2	10.6	11.2	Monthly
Nitrite (as Nitrogen), mg/L	<0.08	0	<0.05	0.21	<0.06	<0.07	0.07	<0.07	0.11	0.12	Weekly
Permeability SAR [calculated]	4.0	0.1	3.9	4.2	4.0	3.9	3.9	4.0	4.2	4.0	Calculated
pH (units)	7.1	0.1	6.7	7.5	7.0	7.0	7.1	7.1	7.1	7.0	Daily
Settleable Solids mg/L/hr	<0.1	NA	<0.1	<0.1	NA	<0.1	NA	<0.1	NA	NA	Daily
Temperature, degrees Fahrenheit	69.1	4	57.2	78.9	64.4	66.7	70.7	74.5	71.8	66.2	Daily
Total Coliform Count, CFU/100 ml	<1.0	0	<1	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	723	13	656	762	741	720	704	725	730	717	Weekly
Total Fats, Oils & Grease, mg/L	<5	NA	<5	<5	<5	<5	NA	<5	NA	NA	Quarterly
Total Suspended Solids, mg/L	<1.7	0.4	<1.0	3.6	2.3	1.8	1.9	<1.3	<1.4	<1.5	3/Week
Turbidity, NTU	1.0	0.1	0.6	2.7	1.1	0.9	1.0	0.8	1.0	0.9	Daily
<b>Chemical Parameters</b>											
Arsenic (As) µg/L	1.1	0.2	0.7	1.9	1.0	0.8	1.0	1.1	1.5	1.2	Monthly
Boron (B), µg/L	491	22	461	530	530	480	470	500	490	477	Monthly
Cadmium (Cd), µg/L	<0.3	0.2	<0.1	<0.5	<0.5	<0.5	<0.3	<0.1	<0.1	<0.1	Monthly
Calcium (Ca), µg/L	52,800	1,900	45,700	57,600	54,300	53,800	51,400	55,000	52,000	50,100	Monthly
Chloride (Cl), µg/L	179,000	7,700	146,000	206,000	177,000	168,000	177,000	188,000	188,000	176,000	Monthly
Total Chromium (Cr), µg/L	<0.57	0.1	0.4	0.9	0.8	<0.5	<0.6	0.5	0.5	0.5	Monthly
Copper (Cu), µg/L	2.2	0.5	1.6	3.4	2.9	2.6	2.6	1.7	1.8	1.8	Monthly
Iron (Fe), µg/L	84	15	52	110	85	90	105	64	69	88	Monthly
Lead (Pb), µg/L	<0.8	0.3	0.4	1.4	<1	<1	<0.8	0.9	0.50	0.40	Monthly
Magnesium (Mg), µg/L	31,200	2,400	26,400	36,600	34,700	33,000	30,300	31,800	29,000	28,400	Monthly
Mercury (Hg), µg/L	0.0022	0.0006	0.0017	0.0045	0.0023	0.0033	0.0021	0.0019	0.0020	0.0017	Monthly
Nickel (Ni), µg/L	6.0	0.4	5.0	9.0	6.8	5.9	5.9	5.6	5.9	5.7	Monthly
Phosphate (PO <sub>4</sub> ), µg/L	3,410	1,400	670	9,260	3,510	3,580	2,080	1,500	4,990	4,780	Weekly
Potassium (K), µg/L	14,700	840	12,800	16,700	15,000	13,600	14,500	14,200	15,800	15,600	Monthly
Silicon (Si), µg/L	10,800	850	9,400	12,200	11,800	9,630	10,000	10,800	11,500	11,100	Monthly
Silver (Ag), µg/L	<0.1	0	<0.1	<0.2	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	Monthly
Sodium (Na), µg/L	147,000	5,100	126,000	163,000	153,000	146,000	141,000	150,000	152,000	142,000	Monthly
Sulfate (SO <sub>4</sub> ), µg/L	110,000	5,700	90,800	123,000	108,000	114,000	110,000	118,000	110,000	101,000	Monthly
Zinc (Zn), µg/L	39	13	23	80	55	57	32	31	25	36	Monthly
<b>Other</b>											
Dissolved Oxygen, mg/L	7.5	0.2	6.6	9.2	7.8	7.6	7.4	7.2	7.4	7.8	Daily
Ortho Phosphate, mg/L	<2.4	1.6	<1.0	9.0	<1.2	<1.1	<2.2	<1.0	3.6	<5.0	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)