

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant**  
**2022**

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	131	4.1	117	158	126	135	128	134			Weekly
Ammonia (as Nitrogen), mg/L	2.0	0.2	1.5	2.5	2.2	2.1	1.9	1.7			Monthly
Bicarbonate (HCO <sub>3</sub> ), mg/L	131	4.1	117	158	126	135	128	134			Weekly
Biological Oxygen Demand, mg/L	1.4	0.1	0.7	2.6	1.3	1.3	1.6	1.4			Weekly
Conductivity, umhos/cm @ 25C	928	68	797	1,250	844	918	929	1,010			Weekly
Hardness (as CaCO <sub>3</sub> ), mg/L	160	6.2	139	206	157	157	156	169			Weekly
Nitrate (as Nitrogen), mg/L	6.9	0.2	6.1	7.3	7.0	6.7	7.0	6.8			Monthly
Nitrite (as Nitrogen), mg/L	0.19	0.25	0.04	0.73	0.57	0.1	0.06	0.04			Monthly
Permeability SAR [calculated]	4.0	0.3	3.5	4.4	3.6	4.0	4.1	4.2			Monthly
pH (units)	7.5	0.1	7.4	7.8	7.5	7.6	7.5	7.5			Daily
Temperature, degrees Fahrenheit	72.3	5.0	62.4	79.9	66.7	69.6	74.5	77.8			Daily
Total Coliform Count, MPN/100ml	<5	NA	<1	270	<1	<2	<11	<6			Daily
Total Dissolved Solids, mg/L	521	41	452	701	473	519	514	572			Weekly
Total Residual Chlorine, mg/L	<5.1	NA	<2.0	7.5	<3.6	5.5	5.6	5.8			Daily
Total Suspended Solids, mg/L	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			Weekly
Turbidity, NTU	0.5	0.1	0.3	0.8	0.5	0.5	0.5	0.4			Daily
<b>Chemical Parameters</b>											
Arsenic (As), ug/L	<0.5	NA	<1.0	0.6	0.5	0.5	0.5	<0.5			Monthly
Boron (B), ug/L	<391	NA	<500	421	368	384	409	<406			Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			Monthly
Calcium (Ca), ug/L	31,100	1,340	29,000	33,000	29,500	31,900	30,600	32,500			Monthly
Chloride (Cl), ug/L	154,000	11,300	141,000	175,000	143,000	152,000	153,000	170,000			Monthly
Total Chromium (Cr), ug/L	<0.6	NA	<0.5	1.6	<0.5	<0.5	<0.5	<1.1			Monthly
Copper (Cu), ug/L	<1.9	NA	1.1	2.5	2.2	2.4	1.5	<1.4			Monthly
Iron (Fe), ug/L	<95.4	NA	<500	<100	<100	<100	<100	<100			Monthly
Lead (Pb), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			Monthly
Magnesium (Mg), ug/L	19,500	619	18,800	20,300	19,000	20,200	19,000	19,900			Monthly
Mercury (Hg), ug/L	<0.0008	NA	<0.0005	0.0014	0.0009	<0.0006	0.0006	0.0010			Monthly
Nickel (Ni), ug/L	3.1	0.4	2.5	3.7	2.8	3.7	3.2	2.9			Monthly
Phosphate (PO <sub>4</sub> ), ug/L	492	173	255	803	565	670	264	471			Monthly
Potassium (K), ug/L	11,800	1,160	10,000	13,100	10,300	12,000	12,000	13,100			Monthly
Silicon (Si), ug/L	6,310	270	5,760	6,600	5,940	6,520	6,280	6,500			Monthly
Silver (Ag), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			Monthly
Sodium (Na), ug/L	115,000	8,810	98,300	128,000	103,000	117,000	117,000	124,000			Monthly
Sulfate (SO <sub>4</sub> ), ug/L	65,000	4,250	59,400	69,900	61,400	68,400	61,200	68,900			Monthly
Zinc (Zn), ug/L	<10.6	NA	8.7	12.2	9.9	10.4	10.6	<11.6			Monthly
<b>Other</b>											
Dissolved Oxygen, mg/L	7.7	0.3	6.5	8.8	8.0	7.8	7.5	7.3			Daily
Ortho Phosphate, mg/L	<0.2	NA	<0.1	0.6	0.2	0.3	<0.1	0.3			Weekly

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