

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant**  
2015

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	113	10.9	90.0	171	129	120	100	100	112	116	Weekly
Ammonia (as Nitrogen), mg/L	1.6	0.1	1.4	1.9	1.6	1.6	1.7	1.5	1.6	1.7	Monthly
Bicarbonate (HCO <sub>3</sub> ), mg/L	113	10.9	90.0	171	129	120	100	100	112	116	Weekly
Biological Oxygen Demand, mg/L	1.2	0.4	0	2.3	0.9	0.9	0.9	1.0	1.7	1.5	Weekly
Conductivity, umhos/cm	934	51.0	807	1,320	918	938	956	1,010	934	855	Weekly
Hardness (as CaCO <sub>3</sub> ), mg/L	158	12.6	127	258	177	169	149	147	161	148	Weekly
Nitrate (as Nitrogen), mg/L	9.9	1.2	8.0	12.3	9.6	10.0	12.2	10.2	9.2	8.7	Monthly
Nitrite (as Nitrogen), mg/L	<0.1	NA	<0.02	0.36	0.08	0.06	0.2	<0.03	0.03	<0.19	Monthly
Permeability SAR [calculated]	4.0	0.4	3.3	4.9	3.6	3.6	4.2	4.6	4.2	3.8	Monthly
pH (units)	7.6	0.1	7.4	8.1	7.8	7.7	7.6	7.6	7.6	7.6	Daily
Temperature, degrees Fahrenheit	72.2	4.3	61.9	81.9	66.7	70.0	74.0	77.3	76.4	68.7	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	531	35.0	432	764	535	532	538	583	531	472	Weekly
Total Residual Chlorine, mg/L	<5.3	NA	<2.0	8.0	4.8	5.8	5.3	5.5	6.0	<4.5	Daily
Total Suspended Solids, mg/L	<1.0	NA	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Weekly
Turbidity, NTU	0.5	0.1	0.3	1.3	0.6	0.6	0.5	0.4	0.5	0.5	Daily
<b>Chemical Parameters</b>											
Arsenic (As), ug/L	0.8	0.2	0.5	1.0	0.6	0.6	0.9	0.9	0.9	0.7	Monthly
Boron (B), ug/L	408	20.4	400	500	400	400	400	450	400	400	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	31,200	2,460	25,900	36,700	34,300	30,500	33,800	29,600	31,400	27,900	Monthly
Chloride (Cl), ug/L	152,000	19,100	123,000	205,000	143,000	133,000	166,000	183,000	152,000	137,000	Monthly
Total Chromium (Cr), ug/L	<0.3	NA	<0.1	0.5	0.3	0.4	0.4	0.4	0.4	<0.2	Monthly
Copper (Cu), ug/L	1.6	0.3	1.2	2.2	1.7	2.0	1.8	1.6	1.3	1.4	Monthly
Iron (Fe), ug/L	<100	NA	<100	<100	<100	<100	<100	<100	<100	<100	Monthly
Lead (Pb), ug/L	<0.1	NA	<0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	Monthly
Magnesium (Mg), ug/L	19,300	1,330	16,400	22,100	21,100	18,100	20,600	18,600	19,600	17,900	Monthly
Mercury (Hg), ug/L	0.0006	0.0001	0.0004	0.0008	0.0006	0.0008	0.0007	0.0006	0.0004	0.0006	Monthly
Nickel (Ni), ug/L	3.2	0.4	2.6	3.9	3.0	3.4	3.9	3.3	3.0	2.7	Monthly
Phosphate (PO <sub>4</sub> ), ug/L	2,010	423	400	3,930	1,900	1,640	2,780	2,040	2,100	1,630	Monthly
Potassium (K), ug/L	11,800	1,120	9,700	14,700	10,700	11,000	13,200	12,800	12,300	10,700	Monthly
Silicon (Si), ug/L	6,370	584	5,500	7,900	7,300	6,650	6,500	6,150	5,950	5,650	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	115,000	12,000	91,000	146,000	108,000	101,000	125,000	131,000	121,000	106,000	Monthly
Sulfate (SO <sub>4</sub> ), ug/L	65,700	5,750	57,700	83,100	67,200	62,900	75,100	68,400	60,500	60,000	Monthly
Zinc (Zn), ug/L	12.6	2.7	8.2	22.7	16.9	9.6	12.8	13.4	13.2	9.7	Monthly
<b>Other</b>											
Dissolved Oxygen, mg/L	7.6	0.2	6.6	8.5	8.0	7.7	7.6	7.4	7.4	7.7	Daily
Ortho Phosphate, mg/L	1.3	0.3	0.3	5.5	1.3	0.9	1.2	1.7	1.2	1.6	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)