

Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2016

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	109	12.7	77.0	142	110	117	116	124	92.9	92.1	Weekly
Ammonia (as Nitrogen), mg/L	1.5	0.5	1.1	3.6	2.5	1.4	1.2	1.2	1.2	1.2	Monthly
Bicarbonate (HCO ₃), mg/L	109	12.7	77.0	142	110	117	116	124	92.9	92.1	Weekly
Biological Oxygen Demand, mg/L	0.9	0.5	0	1.9	1.2	1.3	0.9	1.2	0.7	0.1	Weekly
Conductivity, umhos/cm	888	55.0	744	1,080	852	845	923	972	906	829	Weekly
Hardness (as CaCO ₃), mg/L	145	11.4	109	169	145	149	148	161	136	128	Weekly
Nitrate (as Nitrogen), mg/L	10.4	1.0	7.5	12.3	8.7	10.6	9.7	10.7	11.4	11.3	Monthly
Nitrite (as Nitrogen), mg/L	<0.1	NA	<0.02	1.0	0.52	<0.02	<0.02	<0.02	<0.02	<0.02	Monthly
Permeability SAR [calculated]	4.0	0.3	3.6	4.6	3.7	3.9	3.8	4.0	4.5	4.0	Monthly
pH (units)	7.6	0.1	7.1	8.1	7.5	7.6	7.5	7.5	7.5	7.6	Daily
Temperature, degrees Fahrenheit	72.0	3.8	62.6	78.3	67.1	69.7	73.8	76.7	75.2	69.5	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	11.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	506	39.0	391	605	488	478	526	567	515	460	Weekly
Total Residual Chlorine, mg/L	<5.9	NA	<2.0	9.0	<4.5	5.9	6.4	6.7	6.4	5.7	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	0.5	0.5	0.6	0.6	0.5	0.4	Daily
Chemical Parameters											
Arsenic (As), ug/L	0.7	0.1	0.5	1.1	0.6	0.7	0.7	0.6	0.9	0.5	Monthly
Boron (B), ug/L	400	0	400	400	400	400	400	400	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	29,800	3,430	23,300	34,600	28,700	30,800	32,100	33,700	29,700	23,800	Monthly
Chloride (Cl), ug/L	148,000	14,100	126,000	178,000	134,000	140,000	145,000	162,000	170,000	141,000	Monthly
Total Chromium (Cr), ug/L	0.3	0.04	0.2	0.4	0.3	0.3	0.3	0.3	0.4	0.3	Monthly
Copper (Cu), ug/L	1.7	0.2	1.1	2.2	1.8	1.7	1.7	1.3	1.6	2.0	Monthly
Iron (Fe), ug/L	<100	NA	<100	100	<100	<100	<100	<100	<100	<100	Monthly
Lead (Pb), ug/L	<0.2	NA	<0.1	0.7	0.4	0.2	<0.1	<0.1	<0.1	<0.1	Monthly
Magnesium (Mg), ug/L	18,400	2,290	13,500	22,600	17,800	18,800	19,800	21,300	18,300	14,500	Monthly
Mercury (Hg), ug/L	0.0006	0.0001	0.0004	0.0008	0.0006	0.0007	0.0007	0.0006	0.0006	0.0005	Monthly
Nickel (Ni), ug/L	2.9	0.1	2.6	3.4	2.9	3.0	3.1	3.0	2.9	2.7	Monthly
Phosphate (PO ₄), ug/L	2,470	1,230	430	5,050	1,560	2,450	2,030	2,120	4,910	1,780	Monthly
Potassium (K), ug/L	13,300	2,820	10,000	21,400	10,500	13,200	12,600	14,100	18,400	11,100	Monthly
Silicon (Si), ug/L	6,460	600	5,400	7,500	5,700	6,700	6,850	7,050	6,750	5,700	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	112,000	10,400	98,000	129,000	102,000	112,000	111,000	120,000	128,000	101,000	Monthly
Sulfate (SO ₄), ug/L	61,500	5,230	50,300	67,700	62,500	67,000	62,600	64,000	61,300	51,600	Monthly
Zinc (Zn), ug/L	15.7	2.6	8.4	23.8	13.6	14.2	14.6	16.0	20.7	15.0	Monthly
Other											
Dissolved Oxygen, mg/L	7.7	0.3	6.8	8.5	7.9	7.9	7.6	7.2	7.4	7.9	Daily
Ortho Phosphate, mg/L	1.9	1.2	0.3	7.1	0.9	0.9	1.0	3.1	3.5	2.1	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)