

Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2021

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	121	8.0	104	179	112	115	121	132	115	130	Weekly
Ammonia (as Nitrogen), mg/L	1.7	0.3	1.5	2.9	1.6	1.6	1.6	1.6	1.5	2.2	Monthly
Bicarbonate (HCO ₃), mg/L	121	8.0	104	179	112	115	121	132	115	130	Weekly
Biological Oxygen Demand, mg/L	1.0	0.2	0.6	2.2	1.0	1.3	1.0	0.8	0.7	1.0	Weekly
Conductivity, umhos/cm @ 25C	908	48	774	1,410	915	853	904	982	859	929	Weekly
Hardness (as CaCO ₃), mg/L	158	9.6	133	263	157	151	150	170	149	169	Weekly
Nitrate (as Nitrogen), mg/L	8.4	1.5	6.5	14.1	8.6	6.7	8.0	8.1	7.7	11.2	Monthly
Nitrite (as Nitrogen), mg/L	0.06	0.03	0.03	0.18	0.04	0.08	0.04	0.04	0.03	0.11	Monthly
Permeability SAR [calculated]	3.9	0.5	3.1	4.8	3.2	3.5	3.8	4.2	4.1	4.4	Monthly
pH (units)	7.5	0.1	7.2	7.8	7.6	7.5	7.5	7.5	7.5	7.6	Daily
Temperature, degrees Fahrenheit	72.2	4.3	63.5	79.2	67.2	68.8	74.3	77.6	75.8	69.5	Daily
Total Coliform Count, CFU/100ml	<5	NA	<1	650	<1	<2	<12	<3	<1	<11	Daily
Total Dissolved Solids, mg/L	513	31	430	812	518	476	508	563	487	526	Weekly
Total Residual Chlorine, mg/L	4.9	0.3	2.6	7.2	5.1	4.5	5.4	4.6	4.8	5.0	Daily
Total Suspended Solids, mg/L	<0.9	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Weekly
Turbidity, NTU	0.4	0.1	0.2	0.8	0.4	0.4	0.4	0.3	0.3	0.4	Daily
Chemical Parameters											
Arsenic (As), ug/L	0.6	0.1	0.5	1.0	0.5	0.6	0.6	0.6	0.5	0.8	Monthly
Boron (B), ug/L	396	41.5	330	489	340	372	375	440	402	446	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	31,900	5,280	27,000	48,600	28,500	29,200	29,800	36,300	27,300	40,600	Monthly
Chloride (Cl), ug/L	165,000	26,300	136,000	249,000	144,000	141,000	157,000	186,000	156,000	208,000	Monthly
Total Chromium (Cr), ug/L	<0.5	NA	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.6	Monthly
Copper (Cu), ug/L	1.6	0.4	1.0	2.6	1.8	2.1	1.4	1.2	1.2	2.1	Monthly
Iron (Fe), ug/L	<101	NA	<100	145	<100	<100	<100	<112	<100	<123	Monthly
Lead (Pb), ug/L	<0.2	NA	<0.1	0.6	0.4	0.2	0.3	<0.1	<0.1	<0.1	Monthly
Magnesium (Mg), ug/L	21,000	3,420	17,100	32,700	20,000	19,800	19,500	22,800	17,200	27,000	Monthly
Mercury (Hg), ug/L	<0.0009	NA	<0.0005	0.0034	0.0007	0.0006	0.0006	<0.0020	0.0011	0.0007	Monthly
Nickel (Ni), ug/L	2.9	0.6	2.2	4.6	2.6	2.7	2.4	3.1	2.5	3.9	Monthly
Phosphate (PO ₄), ug/L	928	591	347	3,200	1,120	534	404	648	848	2,020	Monthly
Potassium (K), ug/L	11,700	2,640	9,100	20,600	9,550	9,940	10,700	12,500	11,100	16,700	Monthly
Silicon (Si), ug/L	6,550	1,240	5,450	11,200	5,950	5,660	5,670	7,120	6,070	8,840	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	21,100	89,000	177,000	92,000	99,800	109,000	131,000	112,000	149,000	Monthly
Sulfate (SO ₄), ug/L	64,500	10,500	55,200	94,400	55,300	55,700	60,700	76,700	60,000	78,900	Monthly
Zinc (Zn), ug/L	13.6	3.4	8.8	27.2	9.9	12	12.9	14.7	12.5	19.7	Monthly
Other											
Dissolved Oxygen, mg/L	7.9	0.2	6.9	8.8	8.2	8.2	7.9	7.8	7.7	7.7	Daily
Ortho Phosphate, mg/L	<0.3	NA	<0.1	1.5	0.6	<0.2	<0.1	<0.1	<0.5	<0.4	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)