Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2012

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 CaCO3), mg/L	160	9.5	127	187	145	156	155	165	168	172	Weekly
Ammonia (as Nitrogen), mg/L	<0.6	NA	<0.1	3.1	0.8	<0.4	<0.4	0.4	<0.4	1.0	Daily
Bicarbonate (HCO3), mg/L	160	9.5	127	187	145	156	155	165	168	172	Weekly
Biological Oxygen Demand, mg/L	<4.0	NA	2.0	7.0	3.0	3.0	3.0	<3.0	4.0	5.0	3/Weekly
Conductivity, umhos/cm	1,200	32.0	1,090	1,300	1,150	1,190	1,200	1,200	1,240	1,230	Weekly
Hardness (as CaCO3), mg/L	238	7.7	214	260	223	238	240	240	245	242	Weekly
Nitrate (as Nitrogen), mg/L	11.9	1.8	7.8	17.0	8.4	12.8	13.7	11.4	12.0	11.8	Monthly
Nitrite (as Nitrogen), mg/L	<0.49	NA	0.01	3.1	0.7	0.16	<0.15	0.09	0.09	1.43	Weekly
Permeability SAR [calculated]	4.0	NA	3.9	4.2	3.8	4.3	4.1	4.1	3.9	4.0	Monthly
pH (units)	7.5	0.1	7.2	7.8	7.4	7.5	7.5	7.5	7.5	7.6	Daily
Temperature, degrees Fahrenheit	71.5	4.0	60.8	77.7	66.4	68.0	73.0	76.3	75.3	69.6	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	21.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	715	24.0	626	810	690	706	734	740	734	685	Weekly
Total Fats, Oils & Grease, mg/L	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<5.0	<5.0	NA	Quarterly
Total Suspended Solids, mg/L	2.0	1.0	1.0	3.0	1.0	1.0	2.0	2.0	2.0	2.0	3/Week
Turbidity, NTU	0.8	0.1	0.5	1.7	0.9	1.0	0.8	0.8	0.6	0.9	Daily
Chemical Parameters											
Arsenic (As), ug/L	0.9	0.1	0.7	1.4	0.7	1.0	1.0	0.8	0.9	1.1	Monthly
Boron (B), ug/L	423	25.0	380	500	430	390	450	450	420	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	49,000	1,790	42,900	54,400	46,800	46,300	48,400	49,900	50,300	50,300	Monthly
Chloride (Cl), ug/L	185,000	15,800	125,000	212,000	161,000	191,000	158,000	185,000	192,000	191,000	Monthly
Total Chromium (Cr), ug/L	0.5	0.1	0.3	1.0	0.4	0.6	0.5	0.3	0.4	0.6	Monthly
Copper (Cu), ug/L	3.2	0.9	1.8	6.2	4.7	3.7	3.0	1.9	2.7	3.2	Monthly
Iron (Fe), ug/L	96.7	12.8	80.0	130	115	95.0	85.0	80.0	98.0	105	Monthly
Lead (Pb), ug/L	0.3	0.2	0.1	1.1	0.4	0.6	0.2	0.1	0.2	0.2	Monthly
Magnesium (Mg), ug/L	28,500	1,440	24,600	31,700	26,200	26,900	28,500	28,600	29,700	29,700	Monthly
Mercury (Hg), ug/L	0.0014	0.0003	0.0010	0.0028	0.0015	0.0020	0.0012	0.0012	0.0012	0.0015	Monthly
Nickel (Ni), ug/L	6.2	0.8	4.6	8.6	5.3	6.1	5.6	5.3	7.4	5.9	Monthly
Phosphate (PO4), ug/L	1,420	562	700	6,200	1,000	1,220	1,550	1,240	1,010	2,490	Monthly
Potassium (K), ug/L	15,500	776	14,000	17,000	14,000	15,000	16,000	15,500	15,800	16,000	Monthly
Silicon (Si), ug/L	9,990	162	9,260	10,800	10,000	9,770	10,000	10,100	10,100	9,730	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	143,000	6,650	129,000	158,000	130,000	148,000	144,000	148,000	143,000	144,000	Monthly
Sulfate (SO4), ug/L	92,400	6,490	66,300	105,000	85,700	95,200	80,300	88,800	91,000	98,300	Monthly
Zinc (Zn), ug/L	23.2	2.3	18.0	30.3	23.9	24.3	19.1	21.4	23.0	25.7	Monthly
Other											
Dissolved Oxygen, mg/L	6.9	0.2	6.0	8.2	7.1	7.2	6.9	6.6	6.6	6.9	Daily
Ortho Phosphate, mg/L	<1.3	NA	0.5	4.6	0.9	1.4	<2.3	0.7	0.7	2.3	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)