

## Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant 2001

| 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 | 184            | 7                  | 140           | 220           | 171               | 188               | 190               | 188               | 183               | 185               | Weekly           |
| Ammonia (as Nitrogen), mg/L                    | 0.3            | 0.1                | <0.1          | 1.2           | 0.3               | 0.2               | 0.2               | 0.2               | 0.3               | 0.4               | Daily            |
| Bicarbonate (HCO <sub>3</sub> ), mg/L          | 184            | 7                  | 140           | 220           | 171               | 188               | 190               | 188               | 183               | 186               | Weekly           |
| Biological Oxygen Demand, mg/L                 | 4.0            | 1                  | 2.0           | 7.0           | 4.8               | 4.4               | 3.3               | 3.9               | 4.1               | 3.4               | Weekly           |
| Conductivity, μmhos/cm                         | 1,283          | 14                 | 1,100         | 1,450         | 1,286             | 1,288             | 1,259             | 1,283             | 1,279             | 1,302             | Weekly           |
| Hardness (as CaCO <sub>3</sub> ), mg/L         | 245            | 6                  | 220           | 270           | 239               | 255               | 248               | 241               | 243               | 246               | Weekly           |
| Nitrate (as Nitrogen), mg/L                    | 9.2            | 2.1                | 5.8           | 15.9          | 11.6              | 11.1              | 8.2               | 6.8               | 7.1               | 10.5              | Weekly           |
| Nitrite (as Nitrogen), mg/L                    | 0.3            | 0.1                | <0.1          | 0.9           | 0.3               | 0.4               | 0.5               | 0.3               | 0.3               | 0.3               | Daily            |
| Permeability SAR [calculated]                  | 4.54           | 0.2                | 4.3           | 4.8           | 4.77              | 4.30              | 4.57              | 4.35              | 4.67              | 4.55              | CALCULATED       |
| pH (units)                                     | 6.98           | 0.04               | 6.68          | 7.40          | 6.98              | 6.99              | 7.04              | 6.99              | 6.93              | 6.94              | Daily            |
| Settleable Solids mg/L/hr                      | <0.1           | 0                  | <0.1          | <0.1          | <0.1              | <0.1              | <0.1              | <0.1              | <0.1              | <0.1              | Daily            |
| Temperature, degrees Fahrenheit                | 69.1           | 4.6                | 52.0          | 76.0          | 63.0              | 65.0              | 72.5              | 74.1              | 72.7              | 67.1              | Daily            |
| Total Coliform Count, CFU/100 ml               | 2              | 0.4                | <1            | 23            | 1                 | 2                 | 2                 | 2                 | 1                 | 1                 | Daily            |
| Total Dissolved Solids, mg/L                   | 748            | 14                 | 680           | 840           | 741               | 759               | 769               | 732               | 742               | 744               | Weekly           |
| Total Fats, Oils & Grease, mg/L                | <5             | 0                  | <5            | <5            | <5                | <5                | NA                | <5                | <5                | NA                | Quarterly        |
| Total Suspended Solids, mg/L                   | 2.0            | 0.3                | 1.0           | 3.6           | 2.4               | 2.3               | 1.8               | 2.1               | 1.9               | 1.7               | 3/Week           |
| Turbidity, NTU                                 | 1.0            | 0.4                | 0.5           | 3.0           | 1.0               | 0.9               | 0.9               | 1.1               | 1.4               | 1.0               | Daily            |
| <b>Chemical Parameters</b>                     |                |                    |               |               |                   |                   |                   |                   |                   |                   |                  |
| Arsenic (As) μg/L                              | 1.2            | 0.3                | 0.7           | 1.9           | 0.9               | 1.2               | 1.4               | 0.9               | 1.6               | 1.1               | Monthly          |
| Boron (B), μg/L                                | 529            | 14                 | 490           | 590           | 540               | 515               | 530               | 515               | 525               | 550               | Monthly          |
| Cadmium (Cd), μg/L                             | <0.5           | 0                  | <0.5          | <0.5          | <0.5              | <0.5              | <0.5              | <0.5              | <0.5              | <0.5              | Monthly          |
| Calcium (Ca), μg/L                             | 48,800         | 1,600              | 47,200        | 51,800        | 47,400            | 49,200            | 49,100            | 47,600            | 48,000            | 51,700            | Monthly          |
| Chloride (Cl), μg/L                            | 208,000        | 7,600              | 173,000       | 244,000       | 220,000           | 211,000           | 201,000           | 201,000           | 202,000           | 210,000           | Weekly-Monthly   |
| Total Chromium (Cr), μg/L                      | <0.7           | 0.3                | <0.5          | 1.7           | 1.2               | <0.5              | 0.7               | <0.5              | 0.8               | 0.7               | Monthly          |
| Copper (Cu), μg/L                              | 3.5            | 0.70               | 1.9           | 6.7           | 4.7               | 3.0               | 2.7               | 3.3               | 3.5               | 3.8               | 3/Week-Weekly    |
| Lead (Pb), μg/L                                | <1.0           | 0                  | <1.0          | <1.0          | <1.0              | <1.0              | <1.0              | <1.0              | <1.0              | <1.0              | Monthly          |
| Magnesium (Mg), μg/L                           | 29,000         | 1,400              | 26,600        | 32,100        | 28,800            | 29,700            | 29,200            | 27,100            | 28,200            | 31,100            | Monthly          |
| Mercury (Hg), μg/L                             | 0.0026         | 0.0002             | 0.0020        | 0.0035        | 0.0027            | 0.0028            | 0.0022            | 0.0028            | 0.0025            | 0.0025            | Monthly          |
| Nickel (Ni), μg/L                              | 6.5            | 0.7                | 4.0           | 10            | 7.0               | 7.4               | 6.8               | 5.9               | 5.6               | 6.4               | 3/Week-Weekly    |
| Phosphate (PO <sub>4</sub> ), μg/L             | 4,460          | 2,400              | 1,000         | 9,500         | 8,450             | 4,450             | 4,350             | 1,450             | 2,550             | 5,500             | Monthly          |
| Potassium (K), μg/L                            | 15,000         | 980                | 12,600        | 16,400        | 16,300            | 13,700            | 15,300            | 14,200            | 14,900            | 15,800            | Monthly          |
| Silicon (Si), μg/L                             | 11,300         | 600                | 10,200        | 12,800        | 11,100            | 10,700            | 11,200            | 10,900            | 11,400            | 12,400            | Monthly          |
| Silver (Ag), μg/L                              | <1.0           | 0.39               | <0.2          | <1.0          | <1.0              | <1.0              | <1.0              | <1.0              | 0.3               | <0.2              | Monthly          |
| Sodium (Na), μg/L                              | 162,000        | 7,000              | 139,000       | 185,000       | 169,000           | 155,000           | 164,000           | 152,000           | 165,000           | 168,000           | Monthly          |
| Sulfate (SO <sub>4</sub> ), μg/L               | 107,000        | 7,200              | 94,000        | 124,000       | 116,000           | 113,000           | 107,000           | 98,500            | 98,500            | 107,000           | Weekly-Monthly   |
| Zinc (Zn), μg/L                                | 52             | 8                  | 27            | 86            | 66                | 53                | 48                | 44                | 49                | 51                | 3/Week-Weekly    |
| <b>Other</b>                                   |                |                    |               |               |                   |                   |                   |                   |                   |                   |                  |
| Dissolved Oxygen, mg/L                         | 6.5            | 0.6                | 5.1           | 8.3           | 7.3               | 6.8               | 6.3               | 5.6               | 6.2               | 7.0               | Daily            |
| Ortho Phosphate, mg/L                          | <3.3           | 2.5                | <1.0          | 14.3          | 7.4               | 5.0               | <1.6              | <1.0              | 1.8               | 3.1               | Weekly-Monthly   |

N/A = Not Available

MPN = Most Probable Number

SAR =  $[\text{Na}^+] / \sqrt{([\text{Ca}^{++}] + [\text{Mg}^{++}]) / 2}$

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)