

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D
August 2023

| CONSTITUENTS | UNITS | SOURCE WATERS | | | | | | | | TREATMENT PLANT EFFLUENTS | | | | |
|---|-------|---------------|--------------------|--------------|--------------|-------------------|-------------|---------------------|--------------|---------------------------|--------|--------|---------|-------|
| | | LAKE HAVASU | SAN JACINTO TUNNEL | LAKE MATHEWS | CASTAIC LAKE | SILVER- WOOD LAKE | LAKE PERRIS | DIAMOND VALLEY LAKE | LAKE SKINNER | WEY-MOUTH | DIEMER | JENSEN | SKINNER | MILLS |
| SILICA | mg/L | 7.3 | 7.2 | 7.9 | 16.8 | 9.9 | 2.1 | 7.7 | 7.0 | 9.3 | 9.2 | 16.7 | 7.3 | 7.9 |
| CALCIUM | mg/L | 79 | 75 | 69 | 41 | 13 | 28 | 23 | 41 | 31 | 33 | 41 | 42 | 18 |
| MAGNESIUM | mg/L | 27 | 27 | 26 | 11 | 6 | 13 | 11 | 15 | 12 | 13 | 12 | 16 | 8 |
| SODIUM | mg/L | 107 | 107 | 99 | 55 | 20 | 62 | 46 | 62 | 54 | 57 | 62 | 69 | 40 |
| POTASSIUM | mg/L | 5.2 | 5.2 | 4.9 | 2.4 | 1.8 | 3.6 | 3.3 | 3.6 | 2.9 | 3.0 | 2.5 | 3.6 | 2.5 |
| ALKALINITY, CARBONATE AS CO ₃ | mg/L | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| ALKALINITY, BICARBONATE AS HCO ₃ | mg/L | 166 | 156 | 157 | 112 | 57 | 127 | 95 | 110 | 90 | 92 | 120 | 107 | 66 |
| SULFATE | mg/L | 222 | 236 | 216 | 96 | 16 | 43 | 40 | 112 | 90 | 99 | 99 | 125 | 34 |
| CHLORIDE | mg/L | 102 | 108 | 101 | 51 | 23 | 78 | 57 | 66 | 53 | 58 | 55 | 72 | 45 |
| NITRATE | mg/L | 1.6 | 1.4 | 1.1 | 4.5 | 1.3 | 0.2 | 1.0 | 0.6 | 1.3 | 1.3 | 4.6 | 0.4 | 1.3 |
| FLUORIDE | mg/L | 0.3 | 0.3 | 0.3 | 0.3 | <0.1 | 0.1 | 0.1 | 0.2 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| TOTAL DISSOLVED SOLIDS (TDS) | mg/L | 634 | 647 | 604 | 334 | 119 | 294 | 237 | 362 | 299 | 321 | 354 | 389 | 194 |
| TOTAL HARDNESS AS CaCO ₃ | mg/L | 306 | 306 | 285 | 148 | 54 | 125 | 103 | 169 | 127 | 137 | 148 | 169 | 74 |
| TOTAL ALKALINITY AS CaCO ₃ | mg/L | 136 | 132 | 129 | 92 | 47 | 104 | 78 | 90 | 74 | 77 | 98 | 88 | 60 |
| FREE CARBON DIOXIDE | mg/L | 2.5 | 1.0 | 3.3 | 5.4 | 1.4 | 1.8 | 2.5 | 1.1 | 0.6 | 0.6 | 0.9 | 1.2 | 0.2 |
| pH | pH | 8.05 | 8.41 | 7.90 | 7.54 | 7.82 | 8.07 | 7.80 | 8.23 | 8.42 | 8.39 | 8.34 | 8.18 | 8.70 |
| SPECIFIC CONDUCTANCE | µS/cm | 1050 | 1050 | 987 | 550 | 208 | 543 | 435 | 617 | 511 | 543 | 578 | 662 | 346 |
| COLOR | CU | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TURBIDITY | NTU | 1.2 | 0.22 | 1.4 | 0.69 | 2.0 | 0.79 | 0.58 | 0.71 | 0.05 | 0.03 | 0.04 | 0.07 | 0.05 |
| TEMPERATURE | °C | 25 | 29 | 19 | 13 | 25 | 23 | 18 | 28 | 24 | 25 | 20 | 29 | 28 |
| BROMIDE | mg/L | 0.09 | 0.08 | 0.08 | 0.17 | 0.07 | 0.25 | 0.17 | 0.10 | -- | -- | -- | -- | -- |
| TOTAL ORGANIC CARBON | mg/L | 3.16 | 3.15 | 3.16 | 3.22 | 3.81 | 4.97 | 3.16 | 3.90 | -- | -- | -- | -- | -- |
| SATURATION INDEX | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.42 | 0.45 | 0.51 | 0.44 | 0.45 |
| STATE PROJECT WATER | % | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 53 | 74 | 68 | 100 | 54 | 100 |