

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 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 | 8.1 | -- | 8.2 | 16.0 | 12.7 | 1.3 | 5.7 | 7.9 | 8.3 | 8.5 | 15.7 | 8.2 | 6.2 |
| CALCIUM | mg/L | 76 | -- | 73 | 34 | 24 | 30 | 26 | 72 | 73 | 73 | 34 | 73 | 27 |
| MAGNESIUM | mg/L | 28 | -- | 27 | 8 | 6 | 15 | 13 | 27 | 27 | 27 | 8 | 27 | 13 |
| SODIUM | mg/L | 101 | -- | 98 | 62 | 57 | 69 | 55 | 97 | 105 | 103 | 74 | 103 | 61 |
| POTASSIUM | mg/L | 4.8 | -- | 4.8 | 2.4 | 2.2 | 4.0 | 3.6 | 4.8 | 5.0 | 4.8 | 2.4 | 4.8 | 3.8 |
| ALKALINITY, CARBONATE AS CO ₃ | mg/L | 0 | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALKALINITY, BICARBONATE AS HCO ₃ | mg/L | 161 | -- | 160 | 104 | 85 | 138 | 105 | 157 | 156 | 155 | 98 | 152 | 104 |
| SULFATE | mg/L | 233 | -- | 224 | 72 | 47 | 46 | 50 | 222 | 234 | 232 | 97 | 232 | 57 |
| CHLORIDE | mg/L | 106 | -- | 104 | 62 | 59 | 94 | 74 | 103 | 106 | 108 | 65 | 110 | 78 |
| NITRATE | mg/L | 1.3 | -- | 0.8 | 4.5 | 2.4 | <0.1 | 0.7 | 0.8 | 0.9 | 0.9 | 4.6 | 0.9 | 0.9 |
| FLUORIDE | mg/L | 0.3 | -- | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| TOTAL DISSOLVED SOLIDS (TDS) | mg/L | 639 | -- | 620 | 313 | 253 | 328 | 281 | 613 | 638 | 635 | 350 | 636 | 300 |
| TOTAL HARDNESS AS CaCO ₃ | mg/L | 302 | -- | 293 | 118 | 81 | 138 | 115 | 288 | 292 | 292 | 116 | 290 | 119 |
| TOTAL ALKALINITY AS CaCO ₃ | mg/L | 132 | -- | 131 | 85 | 70 | 113 | 86 | 129 | 128 | 127 | 80 | 125 | 85 |
| FREE CARBON DIOXIDE | mg/L | 1.5 | -- | 1.6 | 4.0 | 1.1 | 1.5 | 2.3 | 1.7 | 1.9 | 1.9 | 0.9 | 1.7 | 0.7 |
| pH | pH | 8.24 | -- | 8.22 | 7.63 | 8.10 | 8.19 | 7.88 | 8.20 | 8.13 | 8.13 | 8.26 | 8.17 | 8.39 |
| SPECIFIC CONDUCTANCE | µS/cm | 1020 | -- | 1010 | 528 | 443 | 613 | 517 | 996 | 1030 | 1030 | 584 | 1030 | 545 |
| COLOR | CU | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TURBIDITY | NTU | 1.5 | -- | 2.0 | 26.0 | 0.76 | 3.1 | 0.44 | 0.42 | 0.05 | 0.04 | 0.03 | 0.05 | 0.04 |
| TEMPERATURE | °C | 11 | -- | 16 | 11 | 9 | 11 | 13 | 13 | 13 | 14 | 13 | 15 | 14 |
| BROMIDE | mg/L | 0.09 | -- | 0.08 | 0.23 | 0.20 | 0.29 | 0.23 | 0.07 | -- | -- | -- | -- | -- |
| TOTAL ORGANIC CARBON | mg/L | 3.12 | -- | 2.94 | 2.66 | 3.70 | 4.20 | 2.84 | 2.93 | -- | -- | -- | -- | -- |
| SATURATION INDEX | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.50 | 0.51 | 0.15 | 0.56 | 0.23 |
| STATE PROJECT WATER | % | 0 | -- | 0 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 100 | 0 | 100 |

* Not Reported, Out of service.