

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 2022

| 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 | 8.4 | 8.6 | 16.0 | 14.1 | 1.6 | 5.3 | 8.3 | 8.4 | 8.6 | 15.9 | 8.4 | 4.7 |
| CALCIUM | mg/L | 73 | 71 | 71 | 32 | 24 | 29 | 26 | 72 | 73 | 72 | 32 | 73 | 26 |
| MAGNESIUM | mg/L | 27 | 26 | 26 | 7 | 6 | 15 | 13 | 26 | 27 | 27 | 7 | 27 | 13 |
| SODIUM | mg/L | 102 | 99 | 98 | 67 | 71 | 70 | 56 | 99 | 105 | 102 | 72 | 104 | 62 |
| POTASSIUM | mg/L | 5.0 | 5.0 | 4.9 | 2.1 | 2.4 | 4.2 | 3.9 | 4.9 | 4.8 | 4.8 | 2.1 | 4.9 | 3.8 |
| ALKALINITY, CARBONATE AS CO ₃ | mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALKALINITY, BICARBONATE AS HCO ₃ | mg/L | 160 | 161 | 161 | 106 | 88 | 137 | 105 | 161 | 161 | 160 | 107 | 151 | 101 |
| SULFATE | mg/L | 238 | 222 | 218 | 67 | 58 | 45 | 48 | 218 | 229 | 224 | 73 | 230 | 55 |
| CHLORIDE | mg/L | 106 | 102 | 101 | 66 | 75 | 93 | 72 | 101 | 104 | 105 | 69 | 107 | 78 |
| NITRATE | mg/L | 1.0 | 1.0 | 0.8 | 3.0 | 2.1 | <0.1 | <0.1 | 0.8 | 0.9 | 0.9 | 3.1 | 0.9 | 0.3 |
| FLUORIDE | mg/L | 0.3 | 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 | 640 | 615 | 609 | 313 | 297 | 326 | 277 | 611 | 633 | 625 | 328 | 631 | 294 |
| TOTAL HARDNESS AS CaCO ₃ | mg/L | 294 | 287 | 292 | 107 | 85 | 136 | 116 | 292 | 292 | 291 | 107 | 291 | 117 |
| TOTAL ALKALINITY AS CaCO ₃ | mg/L | 131 | 132 | 132 | 87 | 72 | 112 | 86 | 132 | 132 | 131 | 88 | 124 | 83 |
| FREE CARBON DIOXIDE | mg/L | 1.6 | 1.3 | 1.7 | 2.6 | 2.0 | 2.7 | 1.5 | 1.7 | 1.9 | 2.0 | 1.1 | 1.9 | 0.6 |
| pH | pH | 8.23 | 8.30 | 8.21 | 7.84 | 7.86 | 7.92 | 8.07 | 8.21 | 8.14 | 8.13 | 8.22 | 8.13 | 8.42 |
| SPECIFIC CONDUCTANCE | µS/cm | 1010 | 1010 | 996 | 533 | 514 | 616 | 509 | 990 | 1040 | 1000 | 565 | 1040 | 544 |
| COLOR | CU | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TURBIDITY | NTU | 1.7 | 0.72 | 2.0 | 6.7 | 1.0 | 1.7 | 0.58 | 0.77 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 |
| TEMPERATURE | °C | 13 | 14 | 18 | 14 | 12 | 14 | 14 | 16 | 15 | 16 | 16 | 17 | 16 |
| BROMIDE | mg/L | 0.09 | 0.05 | 0.08 | 0.25 | 0.27 | 0.30 | 0.23 | 0.07 | -- | -- | -- | -- | -- |
| TOTAL ORGANIC CARBON | mg/L | 3.06 | 3.02 | 2.90 | 1.97 | 2.97 | 4.20 | 2.86 | 2.88 | -- | -- | -- | -- | -- |
| SATURATION INDEX | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.56 | 0.56 | 0.18 | 0.55 | 0.27 |
| STATE PROJECT WATER | % | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 100 | 0 | 100 |