

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

June 2015

| 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 | 6.9 | 7.0 | 7.0 | 15.5 | 8.4 | 9.9 | 10.0 | 7.8 | 7.3 | 7.4 | 14.4 | 8.5 | 10.7 |
| CALCIUM | mg/L | 80 | 73 | 78 | 37 | 29 | 31 | 30 | 65 | 75 | 79 | 37 | 57 | 30 |
| MAGNESIUM | mg/L | 25 | 26 | 26 | 9 | 9 | 12 | 13 | 23 | 25 | 25 | 9 | 20 | 11 |
| SODIUM | mg/L | 91 | 93 | 93 | 74 | 71 | 75 | 58 | 84 | 96 | 97 | 83 | 83 | 79 |
| POTASSIUM | mg/L | 4.7 | 4.7 | 4.7 | 2.4 | 2.4 | 3.1 | 3.6 | 4.4 | 4.8 | 4.8 | 2.4 | 4.4 | 3.0 |
| CARBONATE | mg/L | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BICARBONATE | mg/L | 165 | 151 | 160 | 110 | 96 | 106 | 101 | 144 | 156 | 159 | 109 | 139 | 107 |
| SULFATE | mg/L | 243 | 245 | 244 | 87 | 72 | 69 | 67 | 195 | 248 | 251 | 100 | 170 | 76 |
| CHLORIDE | mg/L | 91 | 92 | 93 | 81 | 74 | 95 | 75 | 88 | 97 | 97 | 82 | 93 | 93 |
| NITRATE | mg/L | 1.5 | 1.2 | 1.2 | 4.3 | 2.8 | 0.2 | 1.3 | 0.8 | 1.3 | 1.4 | 4.4 | 0.9 | 3.4 |
| FLUORIDE | mg/L | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 |
| TOTAL DISSOLVED SOLIDS (TDS) | mg/L | 626 | 620 | 627 | 365 | 318 | 348 | 309 | 540 | 633 | 643 | 388 | 507 | 360 |
| TOTAL HARDNESS AS CaCO ₃ | mg/L | 296 | 290 | 294 | 130 | 108 | 126 | 130 | 249 | 298 | 302 | 129 | 228 | 126 |
| TOTAL ALKALINITY AS CaCO ₃ | mg/L | 135 | 128 | 131 | 90 | 81 | 87 | 83 | 118 | 128 | 130 | 89 | 114 | 88 |
| FREE CARBON DIOXIDE | mg/L | 1.6 | 1.1 | 1.3 | 2.6 | 0.6 | 1.3 | 4.5 | 1.3 | 2.4 | 2.1 | 1.2 | 1.7 | 1.0 |
| pH | pH | 8.23 | 8.39 | 8.30 | 7.84 | 8.44 | 8.12 | 7.57 | 8.26 | 8.03 | 8.09 | 8.18 | 8.13 | 8.26 |
| SPECIFIC CONDUCTANCE | µS/cm | 1020 | 1030 | 1030 | 658 | 577 | 642 | 569 | 914 | 1060 | 1060 | 680 | 872 | 652 |
| COLOR | CU | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TURBIDITY | NTU | 3.2 | 0.70 | 0.44 | 1.9 | 0.79 | 2.1 | 0.88 | 0.47 | 0.05 | 0.04 | 0.04 | 0.06 | 0.05 |
| TEMPERATURE | °C | 19 | 24 | 22 | 16 | 17 | 22 | 17 | 21 | 22 | 24 | 22 | 25 | 23 |
| BROMIDE | mg/L | 0.08 | 0.09 | 0.09 | 0.30 | 0.28 | 0.34 | 0.23 | 0.13 | -- | -- | -- | -- | -- |
| TOTAL ORGANIC CARBON | mg/L | 3.32 | 3.26 | 3.00 | 1.77 | 3.10 | 3.60 | 2.40 | 2.90 | -- | -- | -- | -- | -- |
| SATURATION INDEX | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 | 0.65 | 0.29 | 0.56 | 0.36 |
| STATE PROJECT WATER | % | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 25 | 0 | 0 | 100 | 40 | 100 |