

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES

LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: March 23, 2016

LAB ID Nos.

1st QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C1977 | 16C1978 | 16C1979 | 16C1980 | 16C1981 | 16C1982 | 16C1983 | 16C1984 | 16C1985 |
|-------------------------------|-------------|--------------------------|------------------|--------------------------------|---------|---------|-----------------|----------------------------------|---------|---------|-----------------|---------|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
| | | | | 1 | 2A | 2B | 3 | 4 | 5A | 5B | 6 | 7 |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | 73rd Street | 79th Street | SOUTH | | North | Central | Central | North | | | | |
| TEMPERATURE | | °C | 00010 | 8 | 7 | 7 | 11 | 9 | 8 | 8 | 8 | 9 |
| TURBIDITY | TT | N.T.U. | 82079 | 3.0 | 0.10 | 0.10 | 0.10 | 5.0 | 0.10 | 0.10 | 0.10 | 0.10 |
| THRESHOLD ODOR, STRAIGHT | *3 | T.O.N | 00086 | 1 Cc | 1 Cc | 1 Cc | 1 Cc | 1 Cc | 1 Cc | 1 Cc | 1 Cc | 1 Cc |
| THRESHOLD ODOR, DECHLORINATED | *3 | T.O.N. | | 1 Mm | 1 Mm | 1 Mm | 1 Mm | 2 Mm | 1 Mm | 1 Mm | 1 Mm | 1 Mm |
| COLOR | *15 | Pt.-Co. CU | 00080 | 13 | <1 | <1 | <1 | 29 | <1 | <1 | <1 | <1 |
| pH | *6.5-8.5 | STD. Units | 00040 | 8.22 | 7.74 | 7.73 | 7.97 | 8.24 | 7.76 | 7.79 | 7.93 | 7.96 |
| FREE CHLORINE RESIDUAL | | CL ₂ , mg/L | 50064 | -- | 1.27 | 1.29 | 0.84 | -- | 1.20 | 1.22 | 0.93 | 0.92 |
| SATURATION INDEX, LANGELIER | | UNITS +/- | | 0.01 | -0.52 | -0.53 | -0.18 | -0.06 | -0.46 | -0.43 | -0.35 | -0.29 |
| ALKALINITY, PHENOLPHTHALEIN | | 0 | 00415 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALKALINITY, TOTAL | | CaCO ₃ , mg/L | 00410 | 110 | 102 | 104 | 105 | 113 | 105 | 106 | 105 | 104 |
| CONDUCTIVITY | | uS/cm | | 278 | 286 | 288 | 290 | 292 | 301 | 302 | 295 | 293 |
| BROMIDE | | Br, mg/L | 71870 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| CHLORIDE | *250 | Cl, mg/L | 00940 | 12.9 | 14.4 | 14.6 | 15.6 | 15.4 | 16.7 | 16.6 | 16.0 | 15.5 |
| FLUORIDE | 4 | F, mg/L | 00951 | 0.12 | 0.66 | 0.69 | 0.69 | 0.13 | 0.67 | 0.68 | 0.66 | 0.65 |
| SULFATE | *250 | SO ₄ , mg/L | 00945 | 23.0 | 27.8 | 27.6 | 28.2 | 23.7 | 28.3 | 28.2 | 28.4 | 28.8 |
| HARDNESS | | CaCO ₃ , mg/L | 00900 | 140 | 141 | 140 | 139 | 140 | 141 | 140 | 140 | 134 |
| CALCIUM | | Ca, mg/L | 00916 | 36.6 | 36.3 | 36.3 | 36.7 | 36.3 | 37.2 | 37.0 | 36.5 | 36.6 |
| MAGNESIUM | | Mg, mg/L | 00927 | 12.6 | 12.5 | 12.5 | 12.6 | 12.5 | 12.8 | 12.8 | 12.6 | 12.6 |
| POTASSIUM | | K, mg/L | 00937 | 1.47 | 1.47 | 1.44 | 1.49 | 1.46 | 1.51 | 1.51 | 1.48 | 1.46 |
| SODIUM | | Na, mg/L | 00006 | 8.17 | 8.58 | 8.59 | 9.15 | 8.71 | 9.59 | 9.54 | 9.12 | 9.08 |
| SOLIDS, TOTAL DISSOLVED | *500 | TDS, mg/L | 00150 | 165 | 171 | 167 | 175 | 180 | 180 | 172 | 180 | 176 |
| SOLIDS, TOTAL | | Tot. Sol., mg/L | 00500 | 181 | 180 | 174 | 179 | 184 | 186 | 181 | 182 | 184 |
| TOTAL ORGANIC CARBON | | TOC, mg/L | 00680 | 1.64 | 1.49 | 1.44 | 1.36 | 1.57 | 1.38 | 1.42 | 1.36 | 1.42 |
| OXYGEN DEMAND, CHEMICAL | | O, mg/L | 00335 | 5.61 | 6.08 | 6.06 | 9.09 | 7.40 | 9.36 | 9.94 | 5.06 | 8.68 |
| NITROGEN, AMMONIA | | N, mg/L | 00610 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| NITROGEN, NITRATE | 10 | N, mg/L | 00620 | 0.311 | 0.302 | 0.312 | 0.331 | 0.402 | 0.379 | 0.372 | 0.448 | 0.340 |
| NITROGEN, NITRITE | 1 | N, mg/L | 00615 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| ORTHOPHOSPHATE | | PO ₄ , mg/L | 00660 | 0.028 | 0.402 | 0.471 | 0.486 | 0.048 | 0.469 | 0.487 | 0.508 | 0.507 |
| PHOSPHATE, TOTAL | | PO ₄ , mg/L | 00650 | 0.076 | 1.05 | 1.220 | 1.25 | 0.101 | 1.22 | 1.21 | 1.21 | 1.22 |
| CYANIDE, TOTAL | 200 | CN, ug/L | 00720 | H | H | H | H | H | H | H | H | H |
| RADIOACTIVITY, GROSS ALPHA | 15 | pCi/L | 01501 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 |
| RADIOACTIVITY, GROSS BETA | 50 | pCi/L | 03501 | <7 | 8.0 | <7 | 10 | 10 | 9 | 8 | 13 | <1 |

* Federal/State Secondary MCLs

** Action Level

***Distribution samples are composited. TT - Treatment Technique ND - not detected

H - Holding Time Exceeded - pH

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES

LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: March 23, 2016

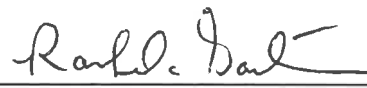
LAB ID Nos. 1st QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C1977 | 16C1978 | 16C1979 | 16C1980 | 16C1981 | 16C1982 | 16C1983 | 16C1984 | 16C1985 |
|------------|----------|---------------|---------------|--------------------------------|-------------|-------------|-----------------|----------------------------------|---------|---------|-----------------|---------|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | | | | | 73rd Street | 79th Street | South | | North | Central | Central | North |
| ALUMINUM | *50-200 | Al, µg/L | 01105 | 72.4 | 32.5 | 30.8 | 29.2 | 164 | 34.6 | 34.3 | 27.8 | 24.3 |
| ANTIMONY | 6 | Sb, µg/L | 01268 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| ARSENIC | 10 | As, µg/L | 01002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| BARIUM | 2000 | Ba, µg/L | 01007 | 17.6 | 19.9 | 19.8 | 20.1 | 22.7 | 20.6 | 20.1 | 19.7 | 19.6 |
| BERYLLIUM | 4 | Be, µg/L | 01012 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| BORON | | B, µg/L | 01022 | 23.6 | 23.1 | 23.0 | 23.8 | 23.6 | 24.0 | 24.2 | 24.0 | 23.6 |
| CADMIUM | 5 | Cd, µg/L | 01027 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| CHROMIUM | 100 | Cr, µg/L | 01034 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| COBALT | | Co, µg/L | 01037 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| COPPER | **1300 | Cu, µg/L | 01042 | <1 | <1 | <1 | 1.74 | <1 | <1 | <1 | 1.02 | 2.08 |
| IRON | *300 | Fe, µg/L | 00031 | 67.3 | <1 | <1 | 6.36 | 177 | <1 | <1 | 5.13 | 6.64 |
| LEAD | **15.0 | Pb, µg/L | 01051 | <1 | <1 | <1 | 1.34 | <1 | <1 | <1 | <1 | <1 |
| LITHIUM | | Li, µg/L | 01132 | 2.86 | 2.70 | 2.70 | 2.79 | 3.06 | 2.79 | 2.79 | 2.74 | 2.72 |
| MANGANESE | *50 | Mn, µg/L | 01055 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| MERCURY | 2 | Hg, µg/L | 71900 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MOLYBDENUM | | Mo, µg/L | 01062 | 1.00 | 1.05 | 1.03 | 1.09 | 1.06 | 1.06 | 1.08 | 1.02 | 1.03 |
| NICKEL | | Ni, µg/L | 01067 | 2.63 | 2.59 | 2.73 | 2.72 | 3.52 | 2.72 | 2.67 | 2.64 | 2.69 |
| SELENIUM | 50 | Se, µg/L | 01147 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| SILICON | | Si, µg/L | 01142 | 1285 | 1324 | 1333 | 1339 | 1463 | 1357 | 1348 | 1325 | 1318 |
| SILVER | *100 | Ag, µg/L | 01077 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| STRONTIUM | | Sr, µg/L | 01082 | 103 | 123 | 123 | 125 | 127 | 128 | 127 | 122 | 125 |
| THALLIUM | 2 | Tl, µg/L | 01059 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| TITANIUM | | Ti, µg/L | 01152 | 2.02 | 1.42 | 1.60 | 1.61 | 4.74 | 1.59 | 1.56 | 1.59 | 1.59 |
| VANADIUM | | V, µg/L | 00985 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| ZINC | *5000 | Zn, µg/L | 01092 | <1 | <1 | 1.41 | 10.3 | 2.10 | <1 | <1 | 26.5 | 18.7 |

* Federal/State Secondary MCLs

** Action Level

***Distribution samples are composited. TT - Treatment Technique ND - not detected



CHIEF WATER CHEMIST



DIRECTOR OF LABORATORIES



MANAGER OF WATER QUALITY



DEPUTY COMMISSIONER

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: May 18, 2016

LAB ID Nos.

2nd QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C3515 | 16C3516 | 16C3517 | 16C3518 | 16C3519 | 16C3520 | 16C3521 | 16C3522 | 16C3523 | | | |
|-------------------------------|-------------|--------------------------|---------------|--------------------------------|---------|---------|-----------------|----------------------------------|---------|---------|-----------------|---------|--|--|--|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | | | | |
| | | | | 1 | 2A | 2B | 3 | 4 | 5A | 5B | 6 | 7 | | | |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | | | | |
| | 73rd Street | 79th Street | SOUTH | | North | Central | Central | North | | | | | | | |
| TEMPERATURE | | °C | 00010 | 13 | 11 | 12 | 13 | 12 | 8 | 8 | 13 | 13 | | | |
| TURBIDITY | TT | N.T.U. | 82079 | 1.7 | 0.05 | 0.05 | 0.10 | 1.6 | 0.05 | 0.05 | 0.10 | 0.10 | | | |
| THRESHOLD ODOR, STRAIGHT | *3 | T.O.N | 00086 | 2 Cc | 1 Cc | 1 Cc | 1 Cc | 2 Cc | 1 Cc | 1 Cc | 1 Cc | 1 Cc | | | |
| THRESHOLD ODOR, DECHLORINATED | *3 | T.O.N. | | 2 Mm | 1 Mm | 1 Mm | 1 Mm | 2 Mm | 1 Mm | 1 Mm | 1 Mm | 1 Mm | | | |
| COLOR | *15 | Pt.-Co. CU | 00080 | 11 | 0 | 0 | 0 | 12 | 1 | 0 | 1 | 0 | | | |
| pH | *6.5-8.5 | STD. Units | 00040 | 8.30 | 7.81 | 7.82 | 8.03 | 8.35 | 7.84 | 7.86 | 8.06 | 8.05 | | | |
| FREE CHLORINE RESIDUAL | | CL ₂ , mg/L | 50064 | -- | 1.32 | 1.30 | 0.91 | -- | 1.20 | 1.20 | 0.91 | 0.73 | | | |
| SATURATION INDEX, LANGELIER | | UNITS +/- | | 0.25 | -0.32 | -0.29 | -0.06 | 0.28 | -0.35 | -0.33 | -0.01 | -0.02 | | | |
| ALKALINITY, PHENOLPHTHALEIN | | 0 | 00415 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | | | |
| ALKALINITY, TOTAL | | CaCO ₃ , mg/L | 00410 | 116 | 107 | 107 | 109 | 115 | 110 | 110 | 111 | 111 | | | |
| CONDUCTIVITY | | uS/cm | | 247 | 250 | 249 | 236 | 239 | 241 | 239 | 248 | 244 | | | |
| BROMIDE | | Br, mg/L | 71870 | 0.060 | <0.05 | <0.05 | <0.05 | 0.118 | <0.05 | <0.05 | <0.05 | <0.05 | | | |
| CHLORIDE | *250 | Cl, mg/L | 00940 | 16.6 | 16.8 | 16.9 | 16.9 | 15.8 | 19.1 | 19.0 | 19.6 | 19.2 | | | |
| FLUORIDE | 4 | F, mg/L | 00951 | 0.12 | 0.70 | 0.72 | 0.71 | 0.12 | 0.68 | 0.68 | 0.69 | 0.70 | | | |
| SULFATE | *250 | SO ₄ , mg/L | 00945 | 22.4 | 25.8 | 25.7 | 25.7 | 22.8 | 26.6 | 26.5 | 26.2 | 26.0 | | | |
| HARDNESS | | CaCO ₃ , mg/L | 00900 | 142 | 148 | 141 | 141 | 118 | 136 | 144 | 132 | 144 | | | |
| CALCIUM | | Ca, mg/L | 00916 | 38.1 | 37.3 | 37.2 | 37.2 | 37.8 | 38.3 | 38.4 | 38.2 | 38.2 | | | |
| MAGNESIUM | | Mg, mg/L | 00927 | 13.0 | 12.7 | 12.7 | 12.6 | 13.0 | 13.2 | 13.3 | 13.2 | 13.2 | | | |
| POTASSIUM | | K, mg/L | 00937 | 1.41 | 1.33 | 1.34 | 1.33 | 1.35 | 1.41 | 1.40 | 1.36 | 1.41 | | | |
| SODIUM | | Na, mg/L | 00006 | 10.8 | 10.1 | 10.1 | 10.1 | 9.79 | 11.4 | 11.4 | 11.6 | 11.6 | | | |
| SOLIDS, TOTAL DISSOLVED | *500 | TDS, mg/L | 00150 | 173 | 166 | 174 | 168 | 160 | 180 | 180 | 179 | 174 | | | |
| SOLIDS, TOTAL | | Tot. Sol., mg/L | 00500 | 181 | 178 | 179 | 181 | 183 | 192 | 195 | 202 | 192 | | | |
| TOTAL ORGANIC CARBON | | TOC, mg/L | 00680 | 1.79 | 1.57 | 1.58 | 1.54 | 1.77 | 1.66 | 1.61 | 1.64 | 1.63 | | | |
| OXYGEN DEMAND, CHEMICAL | | O, mg/L | 00335 | 8.94 | 8.83 | 10.0 | 6.25 | 13.5 | 12.0 | 12.0 | 5.9 | 7.02 | | | |
| NITROGEN, AMMONIA | | N, mg/L | 00610 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | | | |
| NITROGEN, NITRATE | 10 | N, mg/L | 00620 | 0.444 | 0.426 | 0.414 | 0.430 | 0.461 | 0.464 | 0.455 | 0.456 | 0.441 | | | |
| NITROGEN, NITRITE | 1 | N, mg/L | 00615 | 0.218 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | | | |
| ORTHOPHOSPHATE | | PO ₄ , mg/L | 00660 | 0.477 | 0.403 | 0.437 | 0.479 | 0.010 | 0.480 | 0.480 | 0.467 | 0.495 | | | |
| PHOSPHATE, TOTAL | | PO ₄ , mg/L | 00650 | 0.092 | 1.08 | 1.13 | 1.17 | 0.064 | 1.17 | 1.19 | 1.17 | 1.12 | | | |
| CYANIDE, TOTAL | 200 | CN, ug/L | 00720 | H | H | H | H | H | H | H | H | H | | | |
| RADIOACTIVITY, GROSS ALPHA | 15 | pCi/L | 01501 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | | | |
| RADIOACTIVITY, GROSS BETA | 50 | pCi/L | 03501 | 10 | 9 | 14 | 8 | 8 | 9 | <7 | <7 | 11 | | | |

* Federal/State Secondary MCLs ** Action Level ***Distribution samples are composited. TT - Treatment Technique ND - not detected

H - Holding Time Exceeded - pH

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CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: May 18, 2016

LAB ID Nos. 2nd QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C3515 | 16C3516 | 16C3517 | 16C3518 | 16C3519 | 16C3520 | 16C3521 | 16C3522 | 16C3523 |
|------------|----------|---------------|---------------|--------------------------------|-------------|-------------|-----------------|----------------------------------|---------|---------|-----------------|---------|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | | | | | 73rd Street | 79th Street | South | | North | Central | Central | North |
| ALUMINUM | *50-200 | Al, µg/L | 01105 | 49.7 | 56.0 | 52.8 | 45.4 | 49.2 | 56.1 | 56.6 | 47.6 | 46.8 |
| ANTIMONY | 6 | Sb, µg/L | 01268 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| ARSENIC | 10 | As, µg/L | 01002 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| BARIUM | 2000 | Ba, µg/L | 01007 | 22.4 | 20.5 | 20.4 | 20.0 | 21.3 | 21.0 | 20.7 | 20.7 | 20.9 |
| BERYLLIUM | 4 | Be, µg/L | 01012 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| BORON | | B, µg/L | 01022 | 24.7 | 24.4 | 24.3 | 24.0 | 23.4 | 24.2 | 23.9 | 24.2 | 24.8 |
| CADMIUM | 5 | Cd, µg/L | 01027 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| CHROMIUM | 100 | Cr, µg/L | 01034 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| COBALT | | Co, µg/L | 01037 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| COPPER | **1300 | Cu, µg/L | 01042 | <1 | <1 | <1 | 1.88 | <1 | <1 | <1 | 2.40 | 2.99 |
| IRON | *300 | Fe, µg/L | 00031 | 51.1 | <1 | <1 | 4.70 | 44.2 | <1 | <1 | 3.08 | 9.11 |
| LEAD | **15.0 | Pb, µg/L | 01051 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.14 | <1 |
| LITHIUM | | Li, µg/L | 01132 | 4.07 | 2.68 | 2.64 | 2.64 | 4.00 | 2.69 | 2.68 | 2.69 | 2.68 |
| MANGANESE | *50 | Mn, µg/L | 01055 | 1.27 | <1 | <1 | <1 | 4.28 | <1 | <1 | <1 | <1 |
| MERCURY | 2 | Hg, µg/L | 71900 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MOLYBDENUM | | Mo, µg/L | 01062 | <1 | 1.1 | 1.06 | 1.07 | 1.12 | 1.12 | 1.05 | 1.05 | 1.04 |
| NICKEL | | Ni, µg/L | 01067 | 3.24 | 2.78 | 2.75 | 2.94 | 3.32 | 2.77 | 2.80 | 2.84 | 2.90 |
| SELENIUM | 50 | Se, µg/L | 01147 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| SILICON | | Si, µg/L | 01142 | 1181 | 1148 | 1150 | 1149 | 1071 | 1159 | 1164 | 1168 | 1156 |
| SILVER | *100 | Ag, µg/L | 01077 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| STRONTIUM | | Sr, µg/L | 01082 | 132 | 130 | 129 | 130 | 122 | 130 | 129 | 130 | 130 |
| THALLIUM | 2 | Tl, µg/L | 01059 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| TITANIUM | | Ti, µg/L | 01152 | 1.46 | 1.54 | 1.58 | 1.57 | 4.58 | 1.66 | 1.59 | 1.62 | 1.64 |
| VANADIUM | | V, µg/L | 00985 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| ZINC | *5000 | Zn, µg/L | 01092 | <1 | <1 | 2.12 | 8.67 | 1.63 | 1.35 | 1.00 | 25.6 | 22.0 |


* Federal/State Secondary MCLs

** Action Level

***Distribution samples are composited. TT - Treatment Technique ND - not detected



CHIEF WATER CHEMIST



DIRECTOR OF LABORATORIES



MANAGER OF WATER QUALITY



DEPUTY COMMISSIONER

COMPREHENSIVE CHEMICAL ANALYSIS
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WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: August 23, 2016

LAB ID Nos.

3rd QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C5610 | 16C5611 | 16C5612 | 16C5613 | 16C5614 | 16C5615 | 16C5616 | 16C5617 | 16C5618 |
|-------------------------------|-------------|--------------------------|---------------|--------------------------------|---------|---------|-----------------|----------------------------------|---------|---------|-----------------|---------|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
| | | | | 1 | 2A | 2B | 3 | 4 | 5A | 5B | 6 | 7 |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | 73rd Street | 79th Street | SOUTH | | North | Central | Central | North | | | | |
| TEMPERATURE | | °C | 00010 | 20 | 19 | 20 | 22 | 18 | 20 | 19 | 22 | 24 |
| TURBIDITY | TT | N.T.U. | 82079 | 0.45 | 0.10 | 0.10 | 0.15 | 0.50 | 0.15 | 0.10 | 0.10 | 0.10 |
| THRESHOLD ODOR, STRAIGHT | *3 | T.O.N | 00086 | 1 M | 2 Cc | 2 Cc | 2 Cc | 1 M | 2 Cc | 2 Cc | 2 Cc | 2 Cc |
| THRESHOLD ODOR, DECHLORINATED | *3 | T.O.N. | | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M |
| COLOR | *15 | Pt.-Co. CU | 00080 | 5 | 2 | 1 | 1 | 6 | 2 | 2 | 1 | 1 |
| pH | *6.5-8.5 | STD. Units | 00040 | 8.39 | 7.88 | 7.91 | 7.99 | 8.40 | 7.86 | 7.86 | 8.02 | 7.96 |
| FREE CHLORINE RESIDUAL | | CL ₂ , mg/L | 50064 | -- | 1.29 | 1.25 | 0.83 | -- | 1.21 | 1.25 | 0.91 | 0.87 |
| SATURATION INDEX, LANGELIER | | UNITS +/- | | 0.19 | -0.57 | -0.56 | -0.12 | 0.32 | -0.55 | -0.53 | -0.09 | -0.16 |
| ALKALINITY, PHENOLPHTHALEIN | | 0 | 00415 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| ALKALINITY, TOTAL | | CaCO ₃ , mg/L | 00410 | 110 | 104 | 103 | 104 | 109 | 102 | 103 | 104 | 104 |
| CONDUCTIVITY | | uS/cm | | 298 | 303 | 302 | 306 | 299 | 307 | 303 | 303 | 306 |
| BROMIDE | | Br, mg/L | 71870 | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S |
| CHLORIDE | *250 | Cl, mg/L | 00940 | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S |
| FLUORIDE | 4 | F, mg/L | 00951 | 0.12 | 0.69 | 0.77 | 0.73 | 0.12 | 0.75 | 0.74 | 0.73 | 0.74 |
| SULFATE | *250 | SO ₄ , mg/L | 00945 | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S |
| HARDNESS | | CaCO ₃ , mg/L | 00900 | 132 | 139 | 143 | 139 | 139 | 142 | 140 | 142 | 145 |
| CALCIUM | | Ca, mg/L | 00916 | 36.2 | 36.0 | 36.2 | 36.4 | 36.5 | 36.6 | 36.4 | 36.4 | 36.1 |
| MAGNESIUM | | Mg, mg/L | 00927 | 12.8 | 12.7 | 12.8 | 12.8 | 12.8 | 12.9 | 12.8 | 12.7 | 12.7 |
| POTASSIUM | | K, mg/L | 00937 | 1.26 | 1.29 | 1.28 | 1.32 | 1.26 | 1.31 | 1.31 | 1.28 | 1.29 |
| SODIUM | | Na, mg/L | 00006 | 7.90 | 8.18 | 8.19 | 8.22 | 7.74 | 8.33 | 8.26 | 8.18 | 8.15 |
| SOLIDS, TOTAL DISSOLVED | *500 | TDS, mg/L | 00150 | R | R | R | R | R | R | R | R | R |
| SOLIDS, TOTAL | | Tot. Sol., mg/L | 00500 | R | R | R | R | R | R | R | R | R |
| TOTAL ORGANIC CARBON | | TOC, mg/L | 00680 | 1.63 | 1.62 | 1.60 | 1.68 | 1.77 | 1.71 | 1.64 | 1.62 | 1.91 |
| OXYGEN DEMAND, CHEMICAL | | O, mg/L | 00335 | 3.14 | 11.6 | 5.09 | 13.4 | 8.29 | 3.62 | 8.55 | 8.46 | 6.67 |
| NITROGEN, AMMONIA | | N, mg/L | 00610 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| NITROGEN, NITRATE | 10 | N, mg/L | 00620 | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S |
| NITROGEN, NITRITE | 1 | N, mg/L | 00615 | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S | O/S |
| ORTHOPHOSPHATE | | PO ₄ , mg/L | 00660 | 0.016 | 0.500 | 0.513 | 0.496 | 0.028 | 0.535 | 0.549 | 0.561 | 0.543 |
| PHOSPHATE, TOTAL | | PO ₄ , mg/L | 00650 | 0.085 | 0.794 | 0.782 | 0.801 | 0.022 | 0.779 | 0.790 | 0.780 | 0.817 |
| CYANIDE, TOTAL | 200 | CN, ug/L | 00720 | <12 | <12 | <12 | <12 | <12 | <12 | <12 | <12 | <12 |
| RADIOACTIVITY, GROSS ALPHA | 15 | pCi/L | 01501 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 |
| RADIOACTIVITY, GROSS BETA | 50 | pCi/L | 03501 | 9 | 11 | 10 | 8 | 11 | 11 | 10 | 8 | 10 |

* Federal/State Secondary MCLs ** Action Level ***Distribution samples are composited. TT - Treatment Technique ND - not detected
 H - Holding Time Exceeded - pH, Ammonia-N, Chemical Oxygen Demand R - Data rejected

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: August 23, 2016

LAB ID Nos.

3rd QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C5610 | 16C5611 | 16C5612 | 16C5613 | 16C5614 | 16C5615 | 16C5616 | 16C5617 | 16C5618 |
|------------|----------|---------------|---------------|--------------------------------|-------------|-------------|-----------------|----------------------------------|---------|---------|-----------------|---------|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | | | | | 73rd Street | 79th Street | South | | North | Central | Central | North |
| ALUMINUM | *50-200 | Al, µg/L | 01105 | 9.62 | 174 | 155 | 151 | 16.4 | 153 | 156 | 116 | 118 |
| ANTIMONY | 6 | Sb, µg/L | 01268 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| ARSENIC | 10 | As, µg/L | 01002 | 0.845 | 0.526 | 0.645 | 0.582 | 0.685 | 0.787 | 2.30 | 2.32 | 2.39 |
| BARIUM | 2000 | Ba, µg/L | 01007 | 20.4 | 20.0 | 19.8 | 19.4 | 20.4 | 20.0 | 19.8 | 20.0 | 19.9 |
| BERYLLIUM | 4 | Be, µg/L | 01012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| BORON | | B, µg/L | 01022 | 22.2 | 21.9 | 21.8 | 22.4 | 22.0 | 22.0 | 21.9 | 22.4 | 22.5 |
| CADMIUM | 5 | Cd, µg/L | 01027 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| CHROMIUM | 100 | Cr, µg/L | 01034 | 0.571 | 0.574 | <0.50 | <0.50 | 0.632 | <0.50 | <0.50 | <0.50 | <0.50 |
| COBALT | | Co, µg/L | 01037 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| COPPER | **1300 | Cu, µg/L | 01042 | 1.20 | <1 | <1 | 1.07 | <1 | <1 | <1 | 1.02 | 1.70 |
| IRON | *300 | Fe, µg/L | 00031 | 5.70 | <1 | <1 | 5.88 | 10.9 | <1 | <1 | 8.15 | 7.55 |
| LEAD | **15.0 | Pb, µg/L | 01051 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| LITHIUM | | Li, µg/L | 01132 | 2.68 | 2.80 | 2.68 | 2.73 | 2.65 | 2.69 | 2.67 | 2.69 | 2.67 |
| MANGANESE | *50 | Mn, µg/L | 01055 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.561 |
| MERCURY | 2 | Hg, µg/L | 71900 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MOLYBDENUM | | Mo, µg/L | 01062 | 1.02 | 0.946 | 0.989 | 0.922 | 0.919 | 0.902 | 0.900 | 0.875 | 0.886 |
| NICKEL | | Ni, µg/L | 01067 | 1.31 | 1.23 | 1.17 | 1.30 | 1.33 | 1.44 | 1.59 | 1.26 | 1.34 |
| SELENIUM | 50 | Se, µg/L | 01147 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SILICON | | Si, µg/L | 01142 | 549 | 676 | 705 | 684 | 622 | 716 | 717 | 727 | 720 |
| SILVER | *100 | Ag, µg/L | 01077 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| STRONTIUM | | Sr, µg/L | 01082 | 112 | 110 | 114 | 108 | 110 | 107 | 108 | 107 | 107 |
| THALLIUM | 2 | Tl, µg/L | 01059 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| TITANIUM | | Ti, µg/L | 01152 | <0.5 | 0.996 | 0.920 | 0.849 | <0.5 | 0.990 | 1.04 | 0.971 | 0.970 |
| VANADIUM | | V, µg/L | 00985 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| ZINC | *5000 | Zn, µg/L | 01092 | <1 | <1 | <1 | 7.93 | <1 | <1 | <1 | 20.7 | 10.4 |

* Federal/State Secondary MCLs

** Action Level

***Distribution samples are composited. TT - Treatment Technique ND - not detected


 CHIEF WATER CHEMIST


 DIRECTOR OF LABORATORIES


 MANAGER OF WATER QUALITY


 DEPUTY COMMISSIONER

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: October 25, 2016

LAB ID Nos.

4th QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | 16C7133 | 16C7134 | 16C7135 | 16C7136 | 16C7137 | 16C7138 | 16C7139 | 16C7140 | 16C7141 |
|-------------------------------|-------------|--------------------------|------------------|--------------------------------|---------|---------|-----------------|----------------------------------|---------|---------|-----------------|---------|
| | | | | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
| | | | | 1 | 2A | 2B | 3 | 4 | 5A | 5B | 6 | 7 |
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | 73rd Street | 79th Street | SOUTH | | North | Central | Central | North | | | | |
| TEMPERATURE | | °C | 00010 | 17 | 16 | 17 | 17 | 15 | 16 | 16 | 18 | 19 |
| TURBIDITY | TT | N.T.U. | 82079 | 1.8 | 0.10 | 0.05 | 0.15 | 2.0 | 0.10 | 0.10 | 0.10 | 0.10 |
| THRESHOLD ODOR, STRAIGHT | *3 | T.O.N | 00086 | 2 M | 2 Cc | 2 Cc | 2 Cc | 2 M | 2 Cc | 2 Cc | 2 Cc | 2 Cc |
| THRESHOLD ODOR, DECHLORINATED | *3 | T.O.N. | | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M | 1 M |
| COLOR | *15 | Pt.-Co. CU | 00080 | 16 | 0 | 0 | 1 | 21 | 1 | 1 | 1 | 1 |
| pH | *6.5-8.5 | STD. Units | 00040 | 8.23 | 7.81 | 7.84 | 7.98 | 8.34 | 7.98 | 7.82 | 8.01 | 8.07 |
| FREE CHLORINE RESIDUAL | | CL ₂ , mg/L | 50064 | -- | 1.28 | 1.27 | 0.92 | -- | 1.27 | 1.24 | 0.84 | 0.85 |
| SATURATION INDEX, LANGELIER | | UNITS +/- | | 0.24 | -0.23 | -0.21 | -0.03 | 0.30 | -0.08 | -0.23 | 0.03 | 0.12 |
| ALKALINITY, PHENOLPHTHALEIN | | 0 | 00415 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALKALINITY, TOTAL | | CaCO ₃ , mg/L | 00410 | 109 | 101 | 99 | 104 | 108 | 99 | 101 | 104 | 105 |
| CONDUCTIVITY | | uS/cm | | 296 | 302 | 302 | 305 | 298 | 300 | 300 | 301 | 301 |
| BROMIDE | | Br, mg/L | 71870 | 0.14 | <0.05 | 0.07 | H | 0.14 | <0.05 | 0.07 | H | H |
| CHLORIDE | *250 | Cl, mg/L | 00940 | 13.1 | 14.7 | 14.7 | 15.1 | 13.0 | 14.5 | 14.5 | 15.0 | 15.1 |
| FLUORIDE | 4 | F, mg/L | 00951 | 0.11 | 0.60 | 0.64 | 0.63 | 0.11 | 0.73 | 0.74 | 0.75 | 0.74 |
| SULFATE | *250 | SO ₄ , mg/L | 00945 | 23.3 | 25.9 | 25.8 | 27.4 | 23.2 | 27.6 | 27.6 | 26.8 | 27.1 |
| HARDNESS | | CaCO ₃ , mg/L | 00900 | 148 | 142 | 130 | 139 | 130 | 146 | 142 | 142 | 144 |
| CALCIUM | | Ca, mg/L | 00916 | 37.1 | 37.3 | 37.3 | 37.0 | 37.0 | 36.0 | 36.2 | 36.4 | 36.7 |
| MAGNESIUM | | Mg, mg/L | 00927 | 13.4 | 12.6 | 12.6 | 12.5 | 12.8 | 12.4 | 12.5 | 12.5 | 12.5 |
| POTASSIUM | | K, mg/L | 00937 | 1.34 | 1.42 | 1.42 | 1.38 | 1.25 | 1.36 | 1.37 | 1.39 | 1.41 |
| SODIUM | | Na, mg/L | 00006 | 8.49 | 9.09 | 9.08 | 8.87 | 8.00 | 8.63 | 8.69 | 8.87 | 8.91 |
| SOLIDS, TOTAL DISSOLVED | *500 | TDS, mg/L | 00150 | R | R | R | R | R | R | R | R | R |
| SOLIDS, TOTAL | | Tot. Sol., mg/L | 00500 | R | R | R | R | R | R | R | R | R |
| TOTAL ORGANIC CARBON | | TOC, mg/L | 00680 | 1.64 | 1.52 | 1.51 | 1.52 | 1.66 | 1.44 | 1.43 | 1.50 | 1.53 |
| OXYGEN DEMAND, CHEMICAL | | O, mg/L | 00335 | 9.97 | 10.8 | 11.7 | 11.8 | 12.3 | 8.60 | 12.1 | 12.4 | 12.0 |
| NITROGEN, AMMONIA | | N, mg/L | 00610 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| NITROGEN, NITRATE | 10 | N, mg/L | 00620 | 0.272 | 0.305 | 0.304 | H | 0.322 | 0.299 | 0.299 | H | H |
| NITROGEN, NITRITE | 1 | N, mg/L | 00615 | <0.05 | <0.05 | <0.05 | H | <0.05 | <0.05 | <0.05 | H | H |
| ORTHOPHOSPHATE | | PO ₄ , mg/L | 00660 | 0.005 | 0.484 | 0.524 | 0.520 | 0.017 | 0.507 | 0.513 | 0.539 | 0.533 |
| PHOSPHATE, TOTAL | | PO ₄ , mg/L | 00650 | 0.074 | 1.19 | 1.22 | 1.07 | 0.065 | 1.22 | 1.17 | 1.03 | 1.44 |
| CYANIDE, TOTAL | 200 | CN, ug/L | 00720 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| RADIOACTIVITY, GROSS ALPHA | 15 | pCi/L | 01501 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 | <9 |
| RADIOACTIVITY, GROSS BETA | 50 | pCi/L | 03501 | 9 | 11 | 8 | 11 | 11 | 11 | 9 | 8 | 8 |

* Federal/State Secondary MCLs ** Action Level ***Distribution samples are composited. TT - Treatment Technique ND - not detected

H - Holding Time Exceeded - (Ammonia-N, Chemical Oxygen Demand data reported)

R - Data rejected; QC criteria not acceptable

Bromide, Chloride, Sulfate, Nitrate-N, Nitrite-N were collected on 11/7/16

pH - Not tested within 15 minutes of sample collection

COMPREHENSIVE CHEMICAL ANALYSIS
CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: October 25, 2016

LAB ID Nos.

4th QUARTER

| PARAMETER | IEPA MCL | DETERMINED AS | STORET NUMBER | SOUTH WATER PURIFICATION PLANT | | | | JARDINE WATER PURIFICATION PLANT | | | | |
|------------|----------|---------------|---------------|--------------------------------|-------------|-------------|-----------------|----------------------------------|---------|---------|-----------------|-------|
| | | | | RAW LAKE | OUTLETS | | ***DISTRIBUTION | RAW LAKE | OUTLETS | | ***DISTRIBUTION | |
| | | | | | 73rd Street | 79th Street | South | | North | Central | Central | North |
| ALUMINUM | *50-200 | Al, µg/L | 01105 | 48.8 | 93.8 | 84.4 | 79.6 | 46.6 | 75.3 | 77.0 | 72.6 | 68.2 |
| ANTIMONY | 6 | Sb, µg/L | 01268 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| ARSENIC | 10 | As, µg/L | 01002 | <1 | 1.13 | 1.14 | 1.14 | <1 | 1.06 | 1.04 | 1.02 | 1.04 |
| BARIUM | 2000 | Ba, µg/L | 01007 | 19.9 | 19.8 | 19.6 | 19.3 | 19.7 | 19.2 | 19.1 | 19.1 | 19.0 |
| BERYLLIUM | 4 | Be, µg/L | 01012 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| BORON | | B, µg/L | 01022 | 23.6 | 23.8 | 23.7 | 23.1 | 22.4 | 22.2 | 23.2 | 23.5 | 22.8 |
| CADMIUM | 5 | Cd, µg/L | 01027 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| CHROMIUM | 100 | Cr, µg/L | 01034 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| COBALT | | Co, µg/L | 01037 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| COPPER | **1300 | Cu, µg/L | 01042 | 1.82 | <1 | <1 | 1.10 | <1 | <1 | <1 | <1 | <1 |
| IRON | *300 | Fe, µg/L | 00031 | 47.7 | <5 | <5 | 10.0 | 54.0 | <5 | <5 | 10.3 | 12.8 |
| LEAD | **15.0 | Pb, µg/L | 01051 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| LITHIUM | | Li, µg/L | 01132 | 3.06 | 3.10 | 3.09 | 3.09 | 2.90 | 2.98 | 2.99 | 3.06 | 3.02 |
| MANGANESE | *50 | Mn, µg/L | 01055 | 1.32 | <1 | <1 | <1 | 1.76 | <1 | <1 | <1 | <1 |
| MERCURY | 2 | Hg, µg/L | 71900 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MOLYBDENUM | | Mo, µg/L | 01062 | 1.11 | 1.11 | 1.10 | 1.03 | 1.02 | <1 | <1 | 1.00 | 1.00 |
| NICKEL | | Ni, µg/L | 01067 | 1.97 | 1.55 | 1.53 | 1.52 | 1.97 | 1.49 | 1.49 | 1.53 | 1.52 |
| SELENIUM | 50 | Se, µg/L | 01147 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| SILICON | | Si, µg/L | 01142 | 1137 | 1048 | 1066 | 1061 | 1154 | 1132 | 1133 | 1109 | 1096 |
| SILVER | *100 | Ag, µg/L | 01077 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| STRONTIUM | | Sr, µg/L | 01082 | 118 | 118 | 117 | 117 | 116 | 114 | 115 | 114 | 114 |
| THALLIUM | 2 | Tl, µg/L | 01059 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| TITANIUM | | Ti, µg/L | 01152 | <1 | 1.04 | 1.09 | 1.05 | 1.15 | 1.20 | 1.09 | 1.06 | 1.06 |
| VANADIUM | | V, µg/L | 00985 | R | <1 | <1 | <1 | R | <1 | <1 | <1 | <1 |
| ZINC | *5000 | Zn, µg/L | 01092 | 10.7 | <1 | <1 | 10.5 | 11.8 | <1 | <1 | 22.9 | 14.8 |

* Federal/State Secondary MCLs

** Action Level

***Distribution samples are composited. TT - Treatment Technique

Lithium - LFM did not meet QC Criteria


CHIEF WATER CHEMIST


DIRECTOR OF LABORATORIES


MANAGER OF WATER QUALITY


DEPUTY COMMISSIONER