

City of Detroit
Water and Sewerage Department
 Laboratory analysis of Water Samples collected at
Southwest Plant
 on March 26, 2002

| | Raw | Tap | MCL/[SMCL] ⁽¹⁾ | MDL ⁽²⁾ |
|---|-------|--------|---------------------------|--------------------|
| Turbidity ⁽³⁾ | 99.0 | 0.09 | 0.3/95% | |
| Total Solids | 283 | 161 | [500] | 10 |
| Total Dissolved Solids | 154 | 159 | [500] | 10 |
| Aluminum (Al) | 2.101 | 0.093 | [0.05-0.2] | 0.005 |
| Iron (Fe) | 1.782 | 0.008 | [0.3] | 0.002 |
| Copper (Cu) | 0.221 | 0.005 | 1.3 | 0.001 |
| Magnesium (Mg) | 7.92 | 6.58 | | 0.2 |
| Calcium (Ca) | 37.5 | 30.3 | | 0.06 |
| Sodium (Na) | 5.09 | 4.53 | 20 ⁽⁴⁾ | 0.01 |
| Potassium (K) | 1.97 | 0.95 | | 0.01 |
| Manganese (Mn) | 0.051 | <0.001 | [0.05] | 0.001 |
| Zinc (Zn) | 0.07 | 0.01 | [5.0] | 0.01 |
| Silica (SiO ₂) | 6.14 | 7.28 | | 0.4 |
| Sulfate (SO ₄) | 20.7 | 34.1 | | |
| Chloride (Cl ⁻) | 10.5 | 10.5 | [250] | 1.0 |
| Phosphorus (P) | <0.01 | 0.32 | | 0.01 |
| Free Carbon Dioxide | 1.4 | 5.6 | | |
| Total Hardness ^{(5) (6)} | IV | 112 | | |
| Total Alkalinity ⁽⁵⁾ | 93 | 72 | | |
| Carbonate Alkalinity ⁽⁵⁾ | 0 | 0 | | |
| Bi-Carbonate Alkalinity ⁽⁵⁾ | 93 | 72 | | |
| Non-Carbonate Hardness ⁽⁵⁾ | IV | 40 | | |
| Chemical Oxygen Demand | 16.0 | <2.0 | | 2.0 |
| Dissolved Oxygen | 9.4 | 10.2 | | |
| Ammonia Nitrogen | <0.1 | <0.1 | | 0.1 |
| Organic Nitrogen | 0.8 | 0.1 | | 0.1 |
| Nitrite Nitrogen | <0.01 | <0.01 | 1.0 | 0.01 |
| Nitrate Nitrogen | 0.71 | 0.49 | 10.0 | 0.01 |
| Fluoride | 0.1 | 1.1 | 4.0 | 0.1 |
| pH in pH units | 8.09 | 7.41 | 6.5-8.5 | |
| Specific Conductance in micromhos at 25 ^o C. | 239 | 234 | | |
| Temperature in ° C. | 4.9 | 7.5 | | |

 FOR INFORMATIONAL PURPOSES ONLY

Notes: All units are mg/L unless otherwise noted. (1) MCL/[SMCL] = Maximum Contaminant Level/Secondary Maximum Contaminant Level. (2) MDL = Method Detection Limit. (3) NTU = Nephelometric Turbidity Units. Reported results are from a Grab sample. EPA requirements are for 95% of monthly readings to be <0.3 NTU. (4) EPA Guidance level. (5) = As Calcium Carbonate. (6) by EDTA titration. (7) Metals results temporarily unavailable. "<" = Less than. EF = Equipment Failure. IV = Invalid Sample

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