

DMWW Water Quality Report for Industrial/Commercial Applications

Annual Average Values for the month of January-18

| Corrosion Control | | Fleur | Maffitt | Saylorville | Units |
|-------------------|--------------------------------|-------|---------|-------------|-------|
| | pH | 9.57 | 9.52 | 8.47 | NA |
| | Total Alkalinity * | 66 | 59 | 129 | mg/L |
| | Calcium Hardness * | 102 | 58 | 96 | mg/L |
| | Magnesium Hardness * | 59 | 73 | 58 | mg/L |
| | Total Hardness * | 160 | 131 | 154 | mg/L |
| | Total Hardness grains/gallon** | 9.4 | 7.6 | 9.0 | gpg |
| | CCPP | 16.81 | 12.34 | 8.45 | mg/L |
| | TDS | 298 | 213 | 217 | mg/L |
| | Conductivity | 497 | 355 | 362 | uS |
| | Silica τ | 12 | 12 | 4 | mg/L |
| | TOC | 1.28 | 1.49 | 0.78 | mg/L |
| | Chlorine, Free: Distribution | 0.71 | 0.71 | β | mg/L |
| | Chlorine, Total: Distribution | 0.87 | 0.87 | β | mg/L |
| | Chlorine, Free: Leaving Plant | 1.18 | 1.10 | 1.02 | mg/L |

* Expressed in CaCO₃ equivalents **Hardness as grains per gallon, units common for water softeners

τ Silica is not routinely monitored but historically has remained constant

β Water supplied to the City of Ankeny distribution system

| Metals | | Fleur | Maffitt | Saylorville | Units |
|--------|-----------|--------|---------|-------------|-------|
| | Sodium | 30 | 18 | 16 | mg/L |
| | Lead | <0.005 | <0.005 | <0.005 | mg/L |
| | Copper | <0.02 | <0.02 | <0.02 | mg/L |
| | Iron | <0.05 | <0.05 | <0.05 | mg/L |
| | Manganese | <0.02 | <0.02 | <0.02 | mg/L |
| | Potassium | 3.37 | 2.82 | 0.93 | mg/L |

| Physical | | Fleur | Maffitt | Saylorville | Units |
|----------|-------------------|-------|---------|-------------|-------|
| | Turbidity On-Line | 0.10 | 0.09 | 0.04 | NTU |
| | Temperature | 42 | 45 | 49 | °F |

| Inorganics | | Fleur | Maffitt | Saylorville | Units |
|------------|-------------|-------|---------|-------------|-------|
| | Fluoride | 0.68 | 0.66 | 0.72 | mg/L |
| | Chloride | 47 | 34 | 14 | mg/L |
| | Nitrite-N | <0.1 | <0.1 | <0.1 | mg/L |
| | Bromide | <0.1 | <0.1 | <0.1 | mg/L |
| | Nitrate-N | 3.9 | 2.3 | 0.6 | mg/L |
| | Phosphate-P | <0.1 | <0.1 | <0.1 | mg/L |
| Sulfate | 77 | 50 | 35 | mg/L | |

Abbreviations:

C.C.P.P. (Calcium Carbonate Precipitation Potention) is the amount of hardness that can come out of the water at ambient temperatures to form protective scale on plumbing surfaces.

TDS (Total Dissolved Solids) is the total concentration of dissolved minerals in the water. TDS greater than 500 mg/l can cause problems to some industrial users.

For more information about the Des Moines Water Works, its treatment processes, and on-line drinking water quality information, visit our website at www.dmww.com.

if parameters show value error, may have 2 decimals in data. Feb 7, 18