

# DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for February-19

Corrosion Control		Fleur	McMullen (Maffitt)	Saylorville	Units
	pH	9.20	9.54	8.34	NA
	Total Alkalinity *	67	60	148	mg/L
	Calcium Hardness *	79	58	100	mg/L
	Magnesium Hardness *	66	66	55	mg/L
	Total Hardness *	145	124	154	mg/L
	Total Hardness grains/gallon**	8.5	7.2	9.0	gpg
	CCPP	8.1	12.0	9.3	mg/L
	TDS	240	201	219	mg/L
	Conductivity	400	335	365	uS
	Silica $\tau$	12	12	4	mg/L
	TOC	1.05	1.35	0.85	mg/L
	Chlorine, Free: Distribution	0.95	0.95	$\beta$	mg/L
	Chlorine, Total: Distribution	1.13	1.13	$\beta$	mg/L
	Chlorine, Free: Leaving Plant	1.37	1.31	1.04	mg/L

\* Expressed in CaCO<sub>3</sub> equivalents \*\*Hardness as grains per gallon, units common for water softeners

$\tau$  Silica is not routinely monitored but historically has remained constant

$\beta$  Water supplied to the City of Ankeny distribution system

Metals		Fleur	McMullen (Maffitt)	Saylorville	Units
	Sodium	16	13	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	2.28	2.10	0.88	mg/L

Physical		Fleur	McMullen (Maffitt)	Saylorville	Units
	Turbidity On-Line	0.06	0.04	0.06	NTU
	Temperature	41	40	50	°F

Inorganics		Fleur	McMullen (Maffitt)	Saylorville	Units
	Fluoride	0.65	0.58	0.55	mg/L
	Chloride	39	30	10	mg/L
	Nitrite-N	<0.1	<0.1	<0.1	mg/L
	Bromide	<0.1	<0.1	<0.1	mg/L
	Nitrate-N	5.2	5.2	0.5	mg/L
	Phosphate-P	<0.1	<0.1	<0.1	mg/L
Sulfate	40	34	25	mg/L	

**Abbreviations:**

C.C.P.P. (Calcium Carbonate Precipitation Potential) 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](http://www.dmww.com).