

DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for August-18

Corrosion Control		Fleur	Maffitt	Saylorville	Units
	pH	9.42	9.60	8.45	NA
	Total Alkalinity *	49	70	132	mg/L
	Calcium Hardness *	90	95	100	mg/L
	Magnesium Hardness *	22	30	51	mg/L
	Total Hardness *	112	125	151	mg/L
	Total Hardness grains/gallon**	6.6	7.3	8.8	gpg
	CCPP	6.69	10.61	4.23	mg/L
	TDS	201	223	214	mg/L
	Conductivity	335	372	356	uS
	Silica τ	12	12	4	mg/L
	TOC	1.17	1.15	1.12	mg/L
	Chlorine, Free: Distribution	0.70	0.70	β	mg/L
	Chlorine, Total: Distribution	0.83	0.83	β	mg/L
	Chlorine, Free: Leaving Plant	1.31	1.35	1.04	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	14	20	14	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	3.05	3.22	1.56	mg/L

Physical		Fleur	Maffitt	Saylorville	Units
	Turbidity On-Line	0.08	1.00	0.04	NTU
	Temperature	78	74	71	°F

Inorganics		Fleur	Maffitt	Saylorville	Units
	Fluoride	0.63	0.74	0.72	mg/L
	Chloride	33	32	12	mg/L
	Nitrite-N	<0.1	<0.1	<0.1	mg/L
	Bromide	<0.1	<0.1	<0.1	mg/L
	Nitrate-N	3.3	2.8	0.6	mg/L
	Phosphate-P	<0.1	<0.1	<0.1	mg/L
Sulfate	42	54	27	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.