

DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for the Month of Mar-2016

Corrosion Control		Fleur	Maffitt	Saylorville	Units
	pH	9.30	9.25	8.54	NA
	Total Alkalinity *	62	51	124	mg/l
	Calcium Hardness *	86	59	92	mg/l
	Magnesium Hardness *	58	70	49	mg/l
	Total Hardness *	145	129	141	mg/l
	Total Hardness grains/gallon**	8.5	7.6	8.3	gpg
	CCPP	9.9	6.4	8.9	mg/l
	TDS	237	203	193	mg/l
	Conductivity	394	326	322	us
	Silica τ	12	12	4	mg/l
	TOC	0.91	1.37	0.76	mg/l
	Chlorine, Free: Distribution	0.84	0.84	β	mg/L
Chlorine, Total: Distribution	1.00	1.00	β	mg/l	
Chlorine, Free: Leaving Plant	1.21	1.13	0.94	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	16	10	15	mg/l
	Lead	<0.006	<0.006	<0.006	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	2.26	2.02	0.88	mg/l

Physical		Fleur	Maffitt	Saylorville	Units
	Turbidity On-Line	0.03	0.03	0.07	NTU
	Temperature	47	49	48	°F

Inorganics		Fleur	Maffitt	Saylorville	Units
	Fluoride	0.72	0.69	0.58	mg/l
	Chloride	31	27	12	mg/l
	Nitrite-N	<0.1	<0.1	<0.1	mg/l
	Bromide	<0.1	<0.1	<0.1	mg/l
	Nitrate-N	7.9	8.0	2.0	mg/l
	Phosphate-P	<0.1	<0.1	<0.1	mg/l
Sulfate	45	35	29	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.

TOC (Total Organic Carbon) is a potential source of food for bacteria and a precursor to disinfection by-products

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.