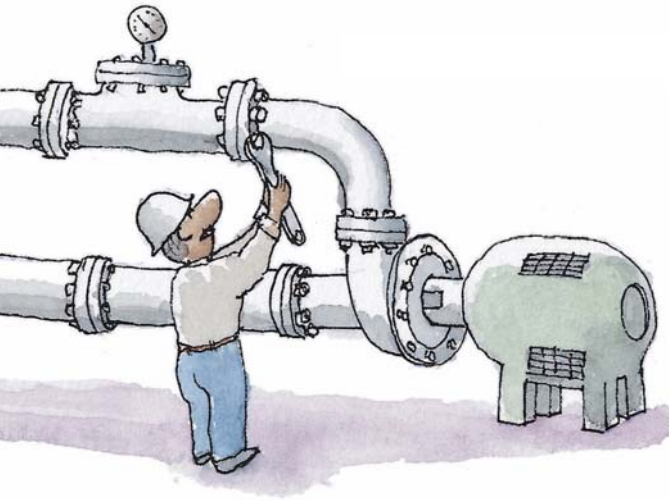
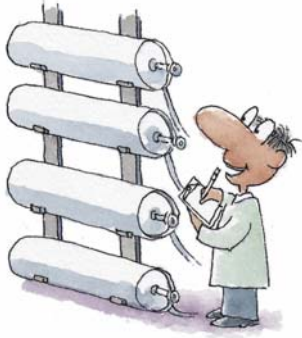


Does Rockford Use Treatment to Remove the Iron & Manganese?

Yes, construction of iron removal facilities began in the spring of 2008 at well sites that produced levels of soluble iron greater than the secondary limit of 0.3 ppm. Manganese removal is being installed at the well site that has soluble manganese levels greater than the secondary limit of 0.05 ppm.



The first treatment facilities will go on line in the spring of 2009. The start-up of these filter plants will mark the first time in the history of the City of Rockford that filtered water will be served to our customers.



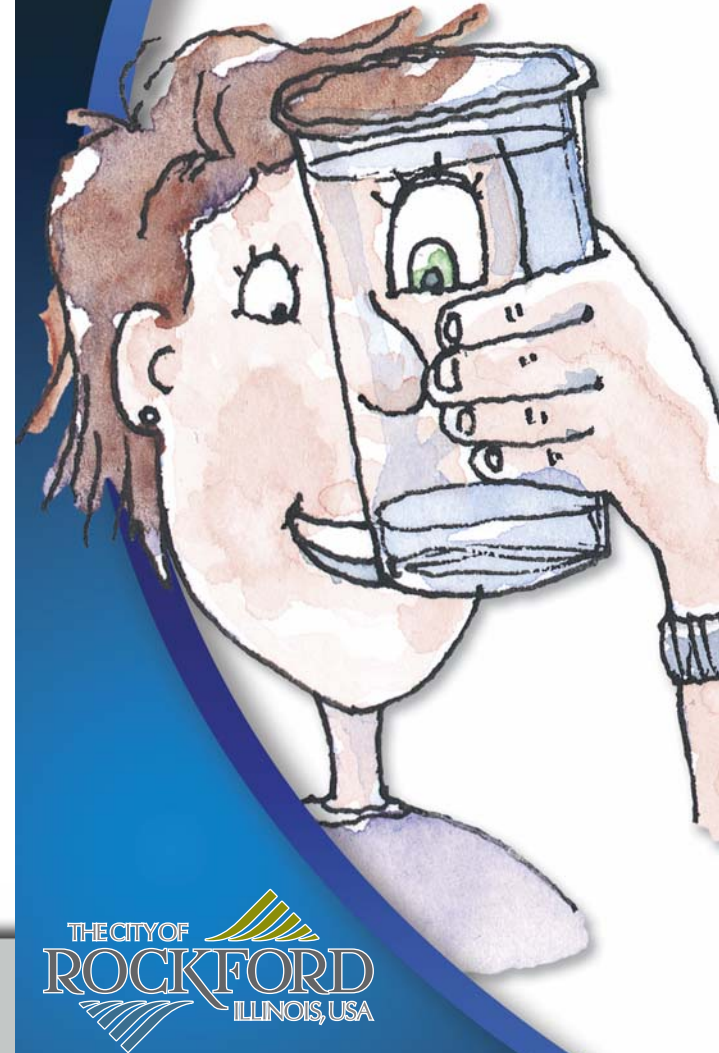
Questions?

If you have any questions, please feel free to contact the City of Rockford Water Division – Water Quality Section
1111 Cedar St
Rockford, IL 61102
(779) 348-7151

For more information, visit our website at www.rockfordil.gov

Iron & Manganese

In Drinking Water

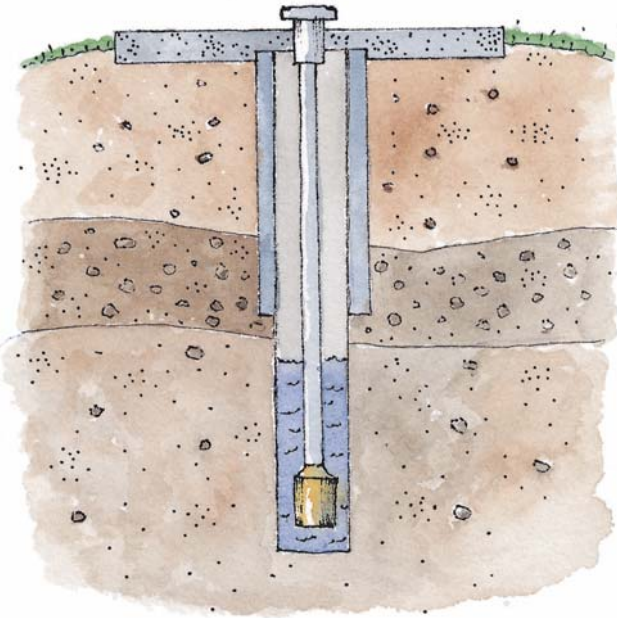


Iron & Manganese

In Drinking Water

Where Does Iron & Manganese Come From?

Iron and manganese are two similar elements that can be a nuisance in a drinking water supply. Iron and manganese are commonly found in the earth's crust. Iron is more common than manganese, but they often occur together. They are not hazardous to your health.



As water travels through soil and rock, it can dissolve these minerals and carry them into groundwater. Also, iron pipes can corrode and leach iron into a household water supply.

How Does Iron & Manganese Effect Water Quality?

Iron and manganese found in our drinking water is a soluble or dissolved mineral that you cannot see. Over time, these dissolved minerals oxidize from the presence of oxygen in the air to insoluble or red iron and/or black manganese.



When the level of iron in water exceeds 0.3 ppm, we may experience red, brown, or yellow staining of laundry, glassware, and household fixtures such as bathtubs and sinks. The water may also have a metallic taste and an offensive odor. When manganese levels exceed 0.05 ppm, we may experience a black oily residue on household fixtures. Detergents will not remove these stains.

Water containing high concentrations of iron and manganese may have an unpleasant metallic flavor. The water may react with tannins in coffee, tea and other beverages to produce a black sludge.



When the level of iron in water exceeds 0.3 ppm, we may experience red, brown, or yellow staining of laundry, glassware, and household fixtures such as bathtubs and sinks. The water may

Is There Iron & Manganese in Rockford's Water?

Rockford's water has iron levels ranging from levels barely detectable to 1.5 ppm. Manganese levels range from barely detectable to 0.3 ppm. To remove the oxidized iron and manganese from the pipes that deliver water to your home, the City embarks on an annual unidirectional hydrant flushing program every spring. This annual maintenance is performed to remove this normal mineral build-up. Water is safe during flushing, but customers may notice discoloration or sediment at their water tap. It is best not to use hot water until the water has cleared.

