Manganese

Manganese occurs naturally in both surface and ground waters that come into contact with manganese-bearing soils. Like iron, manganese is considered a secondary contaminant.

High levels of manganese will cause black stains in laundry and on porcelain fixtures. Food that is cooked in water that has high levels of manganese will become discolored. Manganese also gives water a foul taste and odor. Many iron bacteria also utilize manganese or substitute manganese for iron in their growth. Manganese deposits build up in tanks, filters, and in distribution system pipes creating an area for bacteria to multiply in. These bacteria are very difficult to kill with conventional chlorination because the manganese deposits provide a “shelter” for them. The chlorine preferentially reacts with the manganese and is used up before it gets a chance to kill the bacteria.

Manganese will also cause water to be turbid or cloudy. Manganese interfaces with photo developing and the pulp and paper-making process. Even in low levels, manganese can be a nuisance. Therefore the state of Washington Department of Health limit for manganese in drinking water is 0.05 mg/l.

need more information?

- City Of Olympia Water Quality Section 1(360) 709-2774.
- Washington State Department of Health Division of Drinking Water 1(800) 521-0323.
- For single family (domestic) wells contact your county health agency.