

King County Water District
#54 serves downtown
Des Moines and the southern
portion of Normandy Park.



KING COUNTY WATER DISTRICT #54

Annual Drinking Water Report

We at King County Water District #54 are pleased to present to you this year's Annual Water Quality Report for 2012

This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water is drawn from four wells in the Highline Aquifer. This aquifer is overlain

For your Health

King County Water District #54 routinely monitors for constituents in your drinking water according to Federal and State laws.

The following tables show the results of our monitoring for the period of January 1st to December 31st, 2012. Not all of the following test results are from 2012 testing.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some constituents. The presence of constituents does not necessarily indicate that the water poses a health risk.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people

by 130 to 165 feet of glacial drift, which acts as a natural filter.

We have a source water protection plan available for review at our office. This provides more information such as potential sources of contamination.

We're pleased to report that our drinking water is safe and meets federal and state requirements.

should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

MCL's (Maximum Contaminant Level) are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

For more info about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at (800)426-4791.

Meetings:

Our regularly scheduled meeting time is 4:00 PM at our office on the first and third Tuesdays of every month

Working Hard For You

The United States Environmental Protection Agency (EPA) sets the National standards for public drinking water quality to ensure that tap water is safe to drink. Water District #54 does not add any chemicals, such as chlorine or

fluoride to our water. It is drawn from the wells and delivered pure to your tap. To protect public health, EPA and the Washington State Department of Health establish maximum contaminants levels and the specific actions

required if levels of certain contaminants are exceeded, including public notification. (Food and Drug Administration regulations establish limits for contaminants in bottled water.)

Water Use Efficiency

The Department of Health and the Department of Ecology have been working together to work with water utilities to conserve water, therefore, we are required to have a water use efficiency plan. This requires us to state goals and how we plan to achieve these goals.

As part of these goals we strive to pump less water and to have each individual user use less water.

In each of the last few years we have used less water per single-family home than the previous year. For 2012 we used about 160 gallons per single family home. Our 5 year average is 170 gallons per single family household.

The Department of Ecology has set the water use efficiency goal of less than 10% for unaccounted for water. In the year 2012 King County Water District

#54 had an unaccounted for water of 6.29%, this is down from 9.35% for 2010. We are continuing to change old inefficient meters. The new meters are touch read which allows the meter reader to touch a pad on the meter box with an electronic device which transfers the usage to a digital display. If you've noticed a round pad on your meter box lid you have a new meter. The round pad is the new touch pad.

What are IOC's?

Inorganic Chemicals are considered to be of a mineral, not biological. Typical

inorganic compounds include: Carbon monoxide, carbon dioxide, carbonates,

cyanides among many others.

Microbiological Contaminants

Total Coliform: The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. If coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water sup-

ply. If this limit is exceeded, the water supplier must notify the public by mail within 30 days.

Fecal Coliform/E.Coli: Fecal Coliforms and E.Coli are bacteria whose presence indicates that the water may be contaminated with human or animal

wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems. The water supplier must notify the public by newspaper, television or radio within 24 hours.

Inorganic Contaminants

Nitrates: Nitrate in drinking water at levels above 10 parts per million is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby

syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care

provider. As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

What are Radionuclides's?

Radionuclide is the testing for radioactive mineral in water which is found in rocks and soil predominately found in the Northeast part of the state. When uranium decays, it changes into differ-

ent elements that are also radioactive, including radon, a gas that is know to cause cancer. The main concern for uranium in drinking water is harm to the kidneys.

Radon is most hazardous when inhaled, not when ingesting. High radon levels in drinking water may suggest elevated radon in indoor air.

Manganese

Manganese is considered a secondary contaminant by the Environmental Protection Agency (EPA). Manganese does not cause disease from being consumed. It is however a nuisance. Even in low levels it will cause the staining of porcelain fixtures and laundry. Food cooked in water containing

high levels of manganese may become discolored, but the off color does not mean it is not safe to eat or drink. Manganese may give water an unusual taste and odor that has been described as "musty" or "metallic". Manganese deposits consist of a black powder that does not dissolve in water, it builds up

in tanks, and in distribution lines in a water system. When there is a change in water pressure or some disruption in the water system, manganese deposits are knocked loose from the pipe, causing the water to become cloudy or brown.

TEST RESULTS (Measured at the Source)

Inorganic Chemicals (IOC's)	Violation Y/N	Level Detected	Unit	MCL	SRL	Explanation
Arsenic	N	<0.002	Mg/L	.01	.002	Found in natural deposits underground
Fluoride	N	<0.2	Mg/L	4	0.2	Found naturally in water, food & soil. Also synthesized in labs
Iron	N	<0.1	Mg/L	0.3	0.1	Makes up 5% of earths crust
Manganese	N	0.05	Mg/L	0.05	0.01	Naturally occurring, found in air, food, soil & water
Nitrate	N	<0.2	Mg/L	10	.5	Found in fertilizer, manure & liquid waste
Tested Compound	Violation Y/N	Level Detected	Unit	Action Level	# of Homes over AL	Explanation
Lead	N	0.003	Mg/L	0.015	0	Corrosion of household plumbing
Copper	N	0.05	Mg/L	1.13	0	Corrosion of household plumbing

In the table above you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

***Parts per million (ppm) or Milligrams per liter (Mg/L)** - one part per million corresponds to one minute in two years or a single penny in \$10,000.

***State Reporting Limit (SRL)** - The limit at which the State Department of Health must be notified.

*< - Indicates 'less than'.

***Maximum Contaminant Level - (mandatory language)** The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best

available treatment technology.

***Picouries per liter (Pcil/L)** - this is the measurement of radioactivity in the water.

***Non-regulated (NR)**- items not regulated by the state.

King County Water District #54

922 South 219th Street

Des Moines, WA 98198

(206) 878-7210

Presorted Standard

U.S. Postage

PAID

Seattle, WA

Permit No. 4136

System ID: 399504

System Operator: Eric Clarke

The District is owned by the ratepayers and managed through a Board of Commissioners elected by the ratepayers.

Board of Commissioners

John Rayback

Allene "Alli" Larkin

Vic Pennington

Miscellaneous District Info

District Projects: This year we will do improvements to our Well 6. Currently well 6 pumps only to the elevated reservoir. We are installing a new control valve and diverting its discharge to fill the lower reservoir. This will allow us to take the elevated reservoir off-line for maintenance.

Routine Sampling: Every month 6 water sample are drawn to test for coliform bacteria and in 2012 we had no violations.

King County Water District No. 54 strives to provide our customers with the quality of water and services you deserve.

Thank you for allowing us to continue providing your family with clean, quality water this year. In our continuing efforts to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

We at King County Water District #54 work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

If you have any questions about this report or concerning your water utility, please contact the office at: (206)878-7210. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at 4:00 pm on the 1st and 3rd Tuesdays of each month at the District office.
