

CITY OF PENDLETON

2003 WATER QUALITY REPORT

City of Pendleton Water Department is pleased to provide you with this summary of 2003 drinking water quality information. We want to keep you informed about the water and services we have delivered to you over the past year. Our goal is and always has been, to provide you a safe and dependable supply of drinking water. There were three sources of drinking water for City of Pendleton in 2003. The first is a series of infiltration galleries, commonly known as Thornhollow Springs, located approximately 20 miles east of the city near the Umatilla River. The second source consists of 7 deep basalt wells located throughout the city and another deep basalt well located 6 miles east of the city near Mission. The third source is the Umatilla River. Beginning June 13, 2003, the Thornhollow Springs source was filtered through the new Water Treatment Plant before it was distributed to customers. In December, 2003, the City began withdrawing water from the Umatilla River and filtering it through the new Water Treatment Plant.

We are pleased to report that our drinking water is safe and meets federal and state requirements. Chlorine is added to the water for disinfection. This report shows the City's water quality as delivered to you in 2003.

HEALTH INFORMATION

The Water Department routinely monitors for constituents in your drinking water according to federal and state laws. The tables included in this report show the results of our monitoring for the period of January 1st to December 31st, 2003, or, in some cases, the results of the most recent sampling completed in accordance with state and federal regulations.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA's) Safe Drinking Water Hotline (800-426-4791).

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 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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

EXPLANATION OF EXPECTED CONTAMINANTS

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in City of Pendleton source water include:

- X Microbial contaminants, such as viruses and bacteria, which may come from septic systems, livestock, or wild animals.
- X Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, mining or farming activities.
- X Pesticides and herbicides, which may come from a variety of sources such as farming, home or business use, or urban stormwater runoff.
- X Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- X Radioactive contaminants, which can occur naturally.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Maximum Contaminant Levels (MCLs) 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 (approximately 2 quarts) 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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

DEFINITIONS

In this report 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:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present at the detection level.

Not Available (NA)-some values are not available at this time.

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.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l)-one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL)- The "Maximum Allowed" 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.

Maximum Contaminant Level Goal (MCLG) - The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

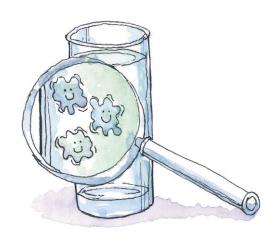
ADDITIONAL WATER QUALITY SAMPLING INFORMATION

Contaminants of Interest

Although some contaminants are not yet regulated, they may be of interest to some of our customers. Sodium was monitored in 2002 and 2003 at levels ranging from 8 to 61 ppm. Sulfate, which has a proposed MCL of 250 ppm, was monitored in 2002 and 2003 at levels ranging from 5 to 35 ppm.

Microbiological Contaminants

Microbiological testing of water helps protect the public from diseases. Chlorine is added to drinking water as a disinfectant to destroy or inactivate bacteria, viruses, and protozoa. City of Pendleton drinking water is routinely sampled for both Total Coliform Bacteria and Fecal Coliform Bacteria. Total coliform



bacteria are naturally present in the environment, and their presence is an indicator that other, potentially harmful bacteria may be present. The presence of fecal coliform bacteria indicates that water may be contaminated with human or animal wastes. There were 185 routine microbiological samples taken throughout the distribution system in 2003, and none of the samples indicated the presence of either total or fecal coliform bacteria.

Unregulated Contaminant Monitoring Rule (UCMR)

Under the Safe Drinking Water Act, the Environmental Protection Agency (EPA) required the City to monitor for contaminants that are currently unregulated but may be present in some drinking water supplies. The monitoring will help the EPA determine if these contaminants should be added to the regular monitoring requirements. The City collected 7 sets of samples which were each analyzed for 11 parameters. There were no detections in any of the samples. The data was submitted to EPA.

Regulated Contaminant Monitoring

The contaminants listed in the table on the following page are the only contaminants detected in Pendleton's water during the most recent monitoring period. Monitoring was completed in 2002 and 2003. Not listed in the table were 13 inorganic compounds, 39 volatile organic compounds, and 42 synthetic organic compounds for which we tested that were NOT detected.

WANT MORE INFORMATION?

If you have any questions about this report or the City of Pendleton Water Department, please contact Karen King at Pendleton Public Works, 541-276-3078. We want our valued customers to be informed about their water utility. For information on water conservation measures that can save water and save you money, contact King at 541-276-3078 or visit the City's website at http://www.pendleton.or.us and look under Public Notices for *Water Efficiency Facts and Tips*.

RESULTS OF MONITORING FOR REGULATED CONTAMINANTS

The items listed below were the only contaminants detected in Pendleton's water during the most recent monitoring period.

Parameter	Highest for Compliance	Range of Level Detected		MCL	MCLG	Complies?	Potential Sources of Contaminant
		Minimum	Maximum	(highest level allowed)	(ideal goal)	(Is it OK?)	
Turbidity	1.00 NTU	0.02 NTU	1.00 NTU	5.0 NTU	NA	Yes	Soil runoff, algae
Inorganics:							
Fluoride	0.5 ppm	0.2 ppm	0.5 ppm	4 ppm	4 ppm	Yes	Erosion of natural deposits
Nitrate	3.5 ppm	0.1 ppm	3.5 ppm	10 ppm	10 ppm	Yes	Erosion of natural deposits; animal waste; fertilizer; sewage; septic tanks
Disinfection Byproduc	ets:						
Total Trihalo- Methanes (TTHM)	4.8 ppb	ND	9.6 ppb	80 ppb	0	Yes	By-product of drinking water chlorination
Haloacetic Acid (HAA)	1.7 ppb	ND	2.2 ppb	60 ppb	0	Yes	By-product of drinking water chlorination
Radionuclides:							
Gross Alpha	1.77 pCi/L	ND	1.77 pCi/L	15 pCi/L	0	Yes	Erosion of natural deposits
Combined Radium 226/228	1.41 pCi/L	ND	1.41 pCi/L	5 pCi/L	0	Yes	Erosion of natural deposits
Combined Uranium	1.85 pCi/L	ND	1.85 pCi/L	30 pCi/L	0	Yes	Erosion of natural deposits
Gross Beta	4.32 pCi/L	ND	4.32 pCi/L	50 pCi/L	0	Yes	Erosion of natural deposits

RESULTS of MONITORING for LEAD & COPPER at RESIDENTIAL WATER TAPS:

Parameter	90th Percentile Values	No. of Sites Exceeding Action Level	Action Level (AL)	MCLG	Complies? (Is it OK?)	Potential Sources of Contaminant	
Lead	ND	0	15 ppb	0	Yes	Corrosion of household plumbing; erosion of natural deposits	
Copper	0.17 ppm	0	1.3 ppm	1	Yes		

Thirty-two sites were sampled for lead and copper in 2002. Maximum lead level measured was 4 ppb; maximum copper level measured was 0.25 ppm.