

Is my water safe?

Yes it is. Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and State drinking water health standards. The Department of Water Supply vigilantly safeguards its water supplies and once again we are proud to report that your system has complied with all drinking water standards.

Why are there contaminants

in my drinking water?

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-(800) 426-4791. If you have any questions regarding this Water Quality Report, call Keith Okamoto, P.E., at 961-8670.

Do I need to take special precautions?

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 at 1-(800) 426-4791.

Source Water Assessment Program

In 2004, the preliminary source water assessment report was released. The purpose of the source water assessment report is to enable the public and decision-makers to make well-founded decisions for the protection and preservation of our drinking water. The source water assessment report identifies the potential contaminating activities for each source of water.

In the report, Pepeekeo Water System sources are potentially vulnerable to contaminants associated with the following activities: recorded spills, cesspools, sugarcane, roads, sewer lines, and residential parcel. Simazine, atrazine, and dieldrin have been detected in the water which is attributed to runoff from herbicides and insecticides used on crops. For more information, please contact Keith Okamoto, P.E., at 961-8670.

How can I get more information?

The Water Board meets the fourth Tuesday of every month. Call for the time and location of the meeting.

You Can Contact Us
at the Following Numbers:

Administration/Finance/General..... (808) 961-8050
Billing/Customer Service..... (808) 961-8060
Engineering..... (808) 961-8070
Emergencies & Field Operations..... (808) 961-8790
Water Quality..... (808) 961-8670

You can find us on the web at www.hawaiiidws.org

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2004

Pepeekeo Water System Annual Water Quality Report

County of Hawai'i



Department of
Water Supply

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Pepeekeo System Water Quality Data Table

The table below lists the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

Regulated Contaminants										
			Kulaimano Well/Maukaloa Spring			Kulaimano Well				
Contaminants (units)	MCL	MCLG	Level Found	Range of Detections	Sample Date	Level Found	Range of Detections	Sample Date	Violation	Typical Source of Contaminants
Inorganic Contaminants										
Nitrate (ppm)	10	10	1.10	ND - 1.10	2004	1.10	1.10 - 1.10	2004	No	Runoff from fertilizer use. Leaching from septic tanks, sewage. Erosion of natural deposits.
Organic Contaminants										
Atrazine (ppb)	3	3	0.26	0.11 - 0.38	2004	0.33	0.28 - 0.38	2004	No	Runoff from herbicide used on row crops.
Disinfection By-Products										
Haloacetic acids (ppb)	60	n/a	2.8	n/a	2004	2.8	n/a	2004	No	Byproduct of drinking water disinfection.
Total Trihalomethanes (TTHMs) (ppb)	80	n/a	6.3	n/a	2004	6.3	n/a	2004	No	Byproduct of drinking water disinfection.
<small>Haloacetic Acids or "HAA5" means the sum of the concentration of the haloacetic acids (monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid). Total Trihalomethanes or "TTHM" means the sum of the concentration of the trihalomethane compounds [trichloromethane (chloroform), dibromochloromethane, bromodichloromethane, and tribromomethane (bromoform)].</small>										

Sodium (Not Regulated by State or Federal Government)										
			Kulaimano Well/Maukaloa Spring			Kulaimano Well				
Contaminants (units)	MCL	MCLG	Level Found	Range of Detections	Sample Date	Level Found	Range of Detections	Sample Date	Violation	Typical Source of Contaminant
Inorganic Contaminants										
Sodium (ppm)	n/a	none	23.0	n/a	2004	8.9	7.1 - 8.9	2002	No	Erosion of naturally occurring deposits; additive used for corrosion control.

Lead and Copper Rule Compliance								
Pepeekeo Water System								
Contaminant	AL	MCLG	Level Found	Range of Detections	# of Sites > AL	Sample Date	Violation	Typical Source of Contaminant
Copper (ppm)	1.3	1.3	1.55	n/a	5/25	2004	Yes	Corrosion of household plumbing systems; erosion of natural deposits.

Sodium in drinking water

There is no State or Federal maximum contaminant level for sodium. Although required, monitoring for sodium is performed primarily to gather information for the consumers, the Safe Drinking Water Branch, and the Department of Water Supply. The EPA Drinking Water Advisory recommends that the sodium concentration in drinking water not exceed a range of 30 to 60 mg/L because of the possible adverse effects on taste at higher concentrations. For persons on a sodium-restricted diet, sodium concentrations greater than 120 mg/L could be problematic. If you are on a sodium-restricted diet, you should consult your physician about the level of sodium in the drinking water.

Sources of drinking water

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 source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- 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.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Key definitions of terms used in this report

- MCLG** = Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk for health. MCLGs allow for a margin of safety.
- MCL** = Maximum Contaminant Level: 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
- AL** = Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- ppm** = Parts per million. One ppm corresponds to a single penny in \$10,000 or about one minute in two years.
- ppb** = Parts per billion. One ppb corresponds to a single penny in \$10,000,000 or about one minute in two thousand years.
- ND** = Not Detected: If a contaminant is not measured at or above its minimum detection limit, it is reported as Not Detected - detection limits are available upon request.
- n/a** = not applicable

Where does my water come from?

The present source of water for the Pepeekeo Water System is Kulaimano Well, which is a groundwater source. The use of Maukaloa Spring, which is a groundwater source, was discontinued in October of 2004. The source(s) of supply may change depending on the supply and demand. In previous years we have included a map of the distribution system. However, because we are taking measures to safeguard your water supply, we are not including the map in this year's water quality report. Thank you for your understanding.

Copper

Copper levels for the Pepeekeo Water System exceeded the action level for the monitoring period in 2004. The copper does not come from the drinking water source or the pipes in the distribution system, but leaches from the copper pipes in home plumbing systems.

Although copper is an essential nutrient, some individuals who drink, over a short period of time, water containing copper in excess of the action level, could experience gastrointestinal distress. Some individuals, who drink over many years, water with copper in excess of the action level, could suffer liver or kidney damage. Individuals with Wilson's disease should consult their personal physician.

If copper is a concern, flush the tap before using the water for drinking or cooking whenever the water in the faucet has gone unused for more than six hours. Flushing the tap means running the cold water faucet until the water gets noticeably colder, usually for about 30 seconds to 2 minutes.

Departmental Actions for Improvement

In October of 2004 the use of Maukaloa Spring was discontinued. A booster was installed to provide Kulaimano Well well water to that service area in an effort to reduce the corrosiveness of the water to Pepeekeo Water System and bring copper levels below the action level. These actions are part of the Department's efforts to comply with existing and future regulations.