

WaterIssue

Why are airlines posting water contamination advisories

By Hava Tinson

Ispend much of my time working away from home improving drinking water and wastewater treatment systems in native communities. The work can be tiring so I often fall asleep early in the office and in the morning use the shower at the water plant.

Sleeping in the office is fine and I take comfort in knowing that the water is of a certain quality because the alternative is to find a hotel in a small rural community, which has a good chance of having really poor quality water even to take a shower in. Yet, the shower water used in most of these rural communities is the same water used to serve coffee and tea, and even drinking water right from the tap.

Lives with regular checks and balances, like on any bus, the United States Environmental Protection Agency (USEPA) showed recently that 17% of all domestic and international carriers had contaminated water and sewage.

Passengers with compromised immune systems or others concerned may want to request canned or bottled beverages and avoid drinking coffee, tea, and other drinks prepared with tap water.

In most towns on reserves with compromised tap water you can buy a cup of coffee made with filtered water and this points to an increased awareness of the importance of safe drinking water in native communities but many other rural nonaboriginal communities are lagging behind.

A problem in rural communities is that the water sources are often located in

close proximity to waste water leading to an increased incidence of contamination. Some of the waterborne microorganisms cause diseases in humans (pathogens) and are very difficult to deal with. For example, viruses are very mobile and move rapidly into ground and surface waters.

In February 2003 the Campbell government in British Columbia decided to do something about this. They launched a new \$60 million safe drinking water program. Reasons for implementing the program included: the presence of pathogens, such as E. coli and the Hepatitis A virus in water sources, and the need to curb boil water advisories which jumped from 19 in 1996 to 304 in 2001.

The B.C. government has had a live attitude falsely believing that just because many drinking water sources produce good-tasting water, they are also safe, but a Sierra Legal Defense Fund report in 2003 accused B.C. for having some of the poorest drinking water treatment systems in Canada.

Thus the B.C. government is recognizing that pathogens really have no taste and what appears to be pristine water can contain pathogens in real programs, and that Hepatitis A is recognized by a provincial government as a cause for concern when it comes to drinking water is also gratifying.

More than ten years ago the USEPA demonstrated that 7% of total water wells in the United States contained the Hepatitis A virus and its presence was one of the reasons for the implementation of the U.S. Groundwater Rule.

Indeed, the documents in support of the enforcement of the U.S. Groundwater Rule showed that viruses present in ground water have caused the majority of waterborne disease outbreaks in the United States during the past ten years. Despite great concern of Hepatitis A and other potentially dangerous ad-

microbes as Canada's water concern Health Canada has practically disavowed viruses as a cause of waterborne illness.

Health Canada's "soft" policies on policy is fitting in the face of science. Only one-third of waterborne disease outbreaks in the United States during the past ten years is still due to coliform. Good science dictates you test for even microbes, or else that adopts treatment barriers in place before the water is processed safe even when there are no coliform present.

But, rural non-native communities are doing my better. In fact, in my case they are worse. A couple of days ago the National Sodium Foundation held a conference in Washington and a hypothetical question was it among a large number of scientists.

"Where is a U.S. tourist most likely to pick up a waterborne disease, in Canada or in Mexico?" The answer was not Canada. Nor that the water in rural Mexico is safer, but a reasonable question while in Canada tourist would simply assume it is when frequently it is not.

The increased awareness of drink water safety on Canadian reserves and the efforts to find solutions to poor water on reserve is gaining attention internationally. The process could, however, go faster if politicians would realize the connection between poor health and poor water.



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