

# Good and bad water

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levels at Six Nations varied tremendously while, in other communities, he found that levels stayed relatively consistent.

The level of aluminum in drinking water can be traced to two causes: the level found in raw, untreated water; and the use of alum (hydrated aluminum sulphate which is used in processing raw water); but, according to Thomas, the first option is "unlikely."

Thomas says he has "never seen such variation" as that of the aluminum levels in Six Nations, a variance which, to him, suggests that there are "some problems with the treatment plant."

The variance is aptly illustrated by the maximum aluminum levels found in Six Nations' water from 1991-1994. 190 ppb was the maximum recorded for '91/92. 1993's result skyrocketed to 4360 micrograms per liter of water (a measurement comparable to ppb, give or take a bit) and, in 1994, maximum levels dropped to 1100 ppb.

A variability of readings are found particularly in small treatment plants, says Larry Macdonnell, the Ministry of the Environment's Area Supervisor for the Cambridge District.

to monitor more thoroughly, diligence is needed to keep control in small plants, plants like Ohsweken's where the treatment of the water is conducted primarily by the water plant assistant, Kevin Doolittle, as well as others, all of whom have water treatment certificates.

Macdonnell agrees that the

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high levels of aluminum come primarily from added aluminum. If the operator puts too much aluminum (alum) into the water during processing, it leaves a residue after the particle settlement is filtered off, he says.

Although this Ministry official did not want to attribute the high aluminum readings from Ohsweken to negligence, he did state that what is required to fix the situation is knowledgeable operators, supervision and diligence to keep the aluminum level in drinking water right.

minimum levels is a correctable one, giving the options of making sure people are competent enough to handle the water treatment using alum or switching to automation.

Williams believes that the situation "can be corrected quite easily" by telling those at the water plant to check and monitor levels better and requesting the Ministry of the Environment to sent all reports regarding the water at Six Nations and not just those concerning NDMA.

We will be checking into the findings and if taking the step towards automation is needed to correct the situation then we will take that step, expressed Chief Williams adding that

his only concern is not getting everybody up tight again about using the water.

The step towards automation may be coming quicker than expected.

According to Six Nations Public Works Director, Lynda Ense, Public Works has been working towards getting a computerized water treatment system, with automatic self-adjusting feeders sensitive to the particle level in the raw water, to monitor all measurable levels; an acquisition tentatively scheduled for