

Joe Stanhope
Chair of the Englishman River Water Services Board
Regional District of Nanaimo, Lantzville, B C

Trevor Wicks
TRENTEC INNOVATIONS LTD.
Web <http://www.innovationbc.com/>
Qualicum Beach B.C Canada
Ph. 250 738 0524
E-mail trentec@shaw.ca

Dear Mr. Stanhope,
Re: ASR reports in newspapers

February 5th 2012

A number of statements have recently been published in local papers, if the facts as published are accurate, some explanation would be helpful, as to how these conclusions were reached.

On Jan 17th. PQ News, a statement claims to compare '*ASR storage at \$5 million*' to '*above ground storage at an estimated \$600 million*'. Properly managed recharge areas, will refill aquifers to capacity each winter, at **no cost**. The Arrowsmith Lake Dam retains about **nine million cubic meters** of water, 800 meters above Parksville at a capital cost of about \$6 million.

Another quote is that pumping water into an aquifer will '*recharge, clean the aquifer and cool the water*'. Historically all aquifers are seasonally full to capacity, there is no need to mechanically recharge an aquifer unless, there is over extraction, or improper water resource management. '*Cleaning an aquifer*' with '*treated*' (chlorinated water????) makes as much sense as pouring bottled water into the sea to clean the ocean. Pumping water from the Englishman to Nanoose, and back to Parksville to cool the water, needs some explanation. The vast majority of water is used for irrigation and non potable uses.

A headline states '*Aquifer is found for project **Nanoose Creek aquifer***' using existing well logs. It should be noted that old well logs are generally not accurate or relevant in 2012, and very few of the drilled wells were actually logged in the past. Drilling a number of wells into a confined aquifer will cause it to be unconfined.

Other comments; '*if the project doesn't go ahead*' suggests that a significant amount of time and money could be wasted on an 'experiment'? Could there be a good reason why ASR is not in common use all over the world.

'\$1.3 million dollars will be '*two-thirds physical construction*'. Who will own this infrastructure if a confined aquifer is not found?

A '*confined aquifer*' on a major subduction fault may not be possible, because the subsurface formations are constantly moving and form fracture lines as the movement occurs.

From Dec 22nd Oceanside Star: Suggesting that '*cavernous spaces underground will retain water for later use*'. Have these cavernous spaces been found?

'*The cost of storing water in the ground is just a fraction of conventional surface solutions*'. Is that because the water is in the ground and has to be pumped out and treated or disinfected before it can be used?

The suggestion that the proposed system will '*provide the **ERWS Area** with a secure, stable and long term supply of drinking water*'. What is the ARWS area, and does that include a large proportion of Electoral Area 'E' and the proposed new Fairwinds development in Nanoose?

Sincerely ...Trevor Wicks...