

From The Aqua Smart Inc. Files

PIPE SCALE AND CORROSION REMOVAL WITH SEAQUEST

Case # 301 – Stellarton, Nova Scotia – May 2004 and Dec 2008
(Total Hardness <40 PPM; Fe 0.00; Mn 0.007; 0.630 MGD)

DECEMBER, 2008

MAY, 2004



1. In 1904, the Town of Stellarton, Nova Scotia, a Surface Water System, put new Cast Iron Pipe throughout their Distribution System. The 4" Pipe section above on the right was removed in May, 2004, about 100 years after it was put into the ground. The Stellarton Water Utility began using SeaQuest in 2004 and intended to cut out another piece of pipe 5 years later in May, 2009 for proof of cleanout.

Both Pipes Were Marked To Identify Removal Dates



DECEMBER, 2008

MAY, 2004

4.5 Years of Using SeaQuest 100 Years of Occasional Caustic

3. The hole in their Pipe increased from ½" to about 2" (two inches). Chlorine residuals remained stable using about 29% less Chlorine Gas and Flushing Time was greatly reduced from Twice a Year down to Once a Year and for about only 20 minutes per Hydrant. When you add it all together; Staff Time, Equipment, Paper Work, Water Usage, etc., **SeaQuest saved Stellarton much more than the cost of using our product!**

The 4" Distribution Pipe in the Town of Stellarton, Nova Scotia

Tony Addis, Town Engineer Inspecting Both Pipes



2. Unexpectedly, in December, 2008, 4.5 years later, a pipe break occurred about 100 feet from the original piece of cut out pipe. The Pipe in the above picture in Tony's left hand was a result of 4.5 years of cleanout from using SeaQuest. The Town of Stellarton was already saving money with less Chlorine Usage and dramatically decreased Flushing (cut by half), but now they were amazed at what they actually saw in their Pipe!

4.5 Years of Using SeaQuest compared to 100 Years



THE RESULTS FROM USING SEAQUEST:

- 1. 100 Year Old Pipe - Opening from ½" To 2" (300% Increase)**
- 2. Chlorine Gas Usage was Reduced by 29% while Residuals remained stable throughout the Town of Stellarton.**
- 3. System Wide Flushing went from Twice a Year to only Once a Year (50% Less Staff and Equipment Flushing Time).**
- 4. Flushing Hydrants went from about 1 hour down to about 20 minutes before the water clears (Flushing approximately 66% less water!)**