

# PENTAGON ENGINEERING LTD.

142 PENROSE COURT  
PENTICTON, BC, V2A 9B6  
TELEPHONE: (250) 809-9933

E-MAIL: P-ENG@OUTLOOK.COM

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Date: January 6, 2017

**City of Penticton AWWTP**  
459 Waterloo Ave  
Penticton, BC

**Via email:** randy.craig@penticton.ca

Attention: **Randy Craig**

RE: Penticton AWWTP – Alternate Measures of Control (AMC), Disk Filters (3)

Dear Mr. Craig,

The Fontaine sluice gate is of adequate engineering, construction and maintenance to hold back the head applied to it for the time required to be in the confined space. The analysis of the gate as a control measure assumes that all gates leak. However, there is no expectation that a properly installed and maintained gate will fail catastrophically if no work is being performed on it which this gate is. It is recognized that systems will often permit some leakage; a means of pumping out the fluid should be undertaken. The upstream water should be continuously monitored and if the level rises too high that space should be evacuated.

The outlet gravity feed channel after being pumped out is also considered as adequate Alternate Measure of Control as the design of the system does not allow for water to flow back into the channel. The downstream water should be continuously monitored and if the level rises too high that space should be evacuated.

Given these facts it is our opinion that the proposed AMC for entering the Disk Filters (3) confined space is adequate. This AMC is adequate for two years and after that time it should be revisited to ensure its adequacy.

**PENTAGON ENGINEERING LTD.**

Per:



Rob Linder, P.Eng.  
**Director**