

December 23, 2003

Reference No. 17500-A3656

UV Pure Technologies
 60 Venture Drive, Unit 19
 Toronto, ON
 M1B 3S4

Attention: Ron Hallett

Phone: (416) 208-9884 (Ext. 222)
 Fax: (416) 208-5808

Date of Analysis: December 23, 2003

GAP EnviroMicrobial Services was contracted by UV Pure Technologies to perform a 3rd party evaluation of a Hallett-30 UV reactor by recording the UV sensor output at a range of temperatures. As well, the time period for the reactor to reach operational output from a cold start was measured.

For the cold start measurement, 0.1°C water was pumped through the UV reactor at a velocity of 1 foot per second (while the reactor was off) for 10 minutes. The UV reactor was turned on and was able to reach operational output in one minute.

For the sensor output test, water was pumped through the UV reactor at a velocity of 1 foot per second, which resulted in a residence time within the UV reactor of less than 2 seconds. The UV sensor reading was recorded when the mV reading had changed by no more than .001 mV for 1 minute. The results of the evaluation are found in the following table:

Ambient Temperature(°C)	Water Temperature(°C)	Stabilized UV Sensor Reading (mV)
22.5	0.1	0.98
22.3	5.8	0.998
22.7	9	0.983
22.1	11.8	0.981
22.5	15	0.965
22.3	22.2	0.942

Overall, the UV sensor reading changed by less than 5 percent from the maximum value of .998 mV at 5.8°C to the minimum value of .942 mV at 22.2°C. The following graph illustrates the slight change in UV sensor output at various temperatures:

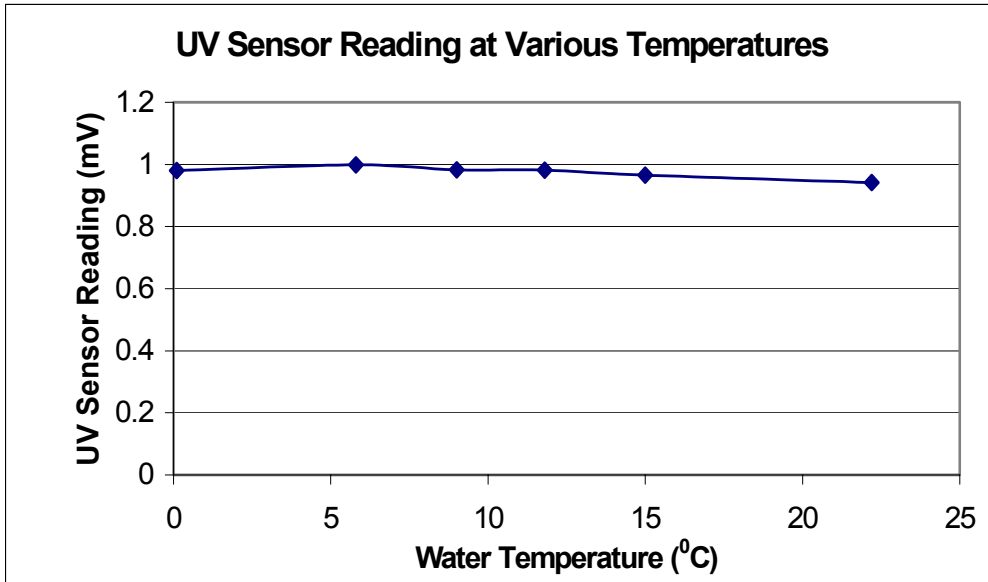


Figure 1. UV sensor readings at various water temperatures.

If you have any questions please call the lab anytime at (519) 681-0571.

Analyst: Conrad Odegaard

Approved By: Sophie Verhille

Position: Analytical Technologist

Position: Technical Manager

Signature: _____

Signature: _____

Date: December 23, 2003