

7 Appendix

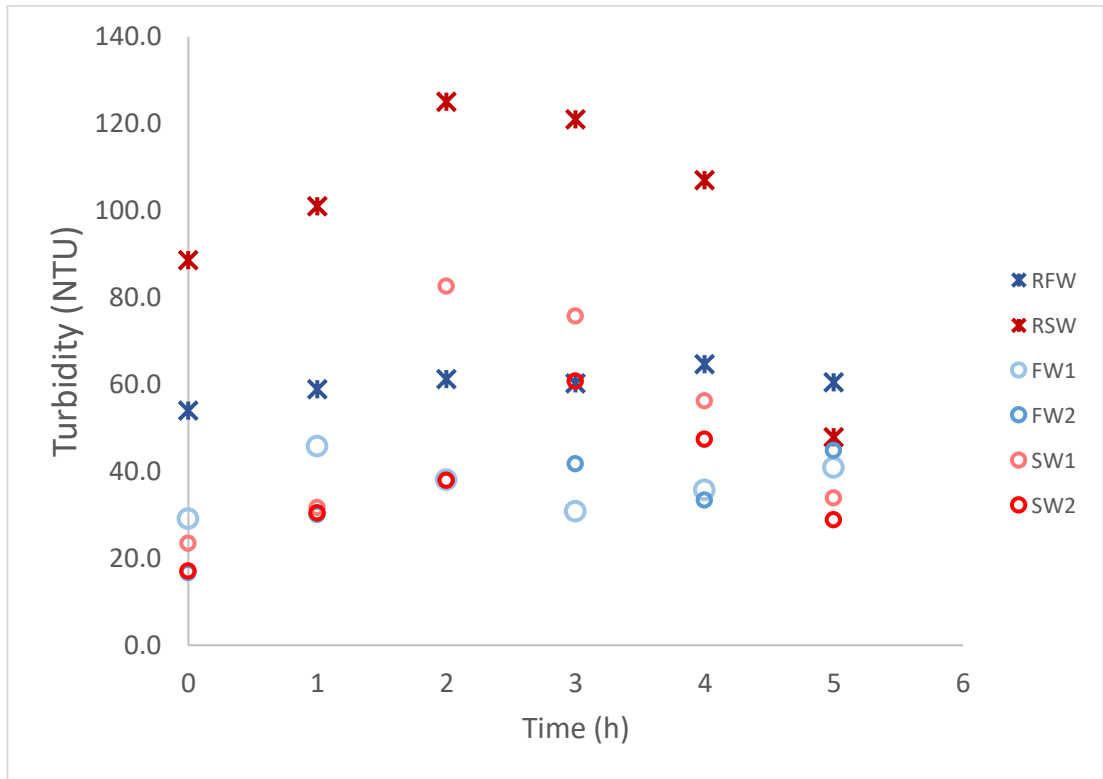


Figure 23: Turbidity measured on 02.11.2022

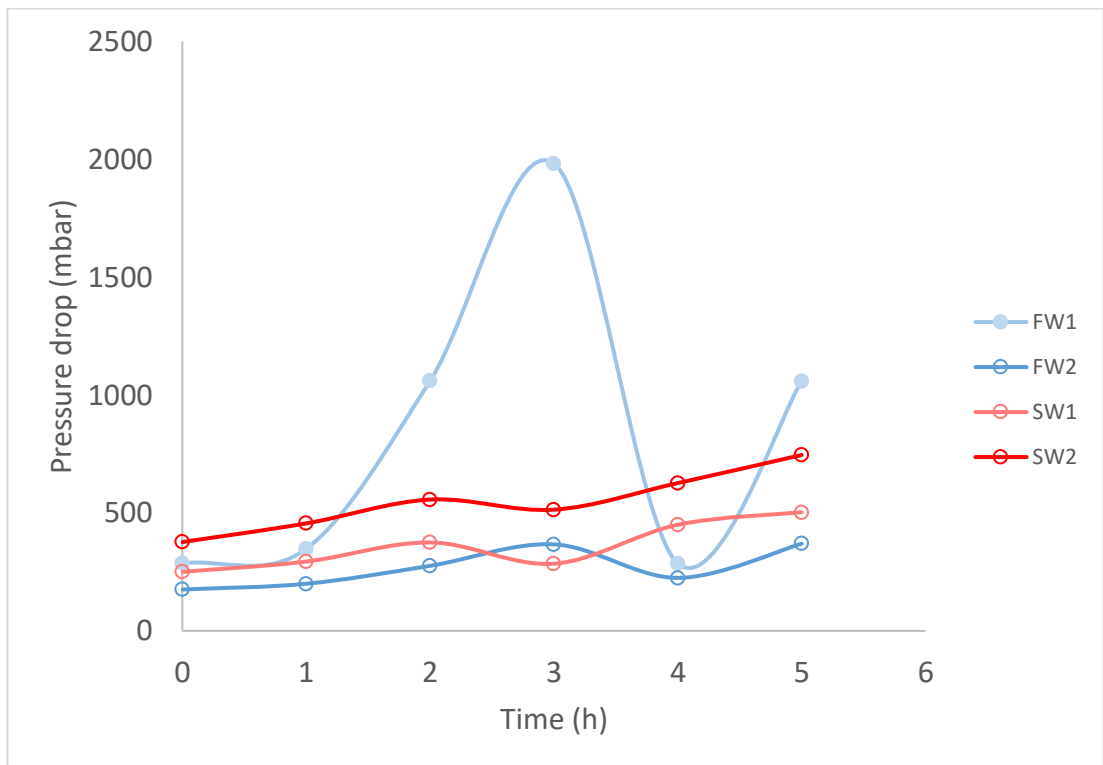


Figure 24: Pressure drop collected on 02.11.2022

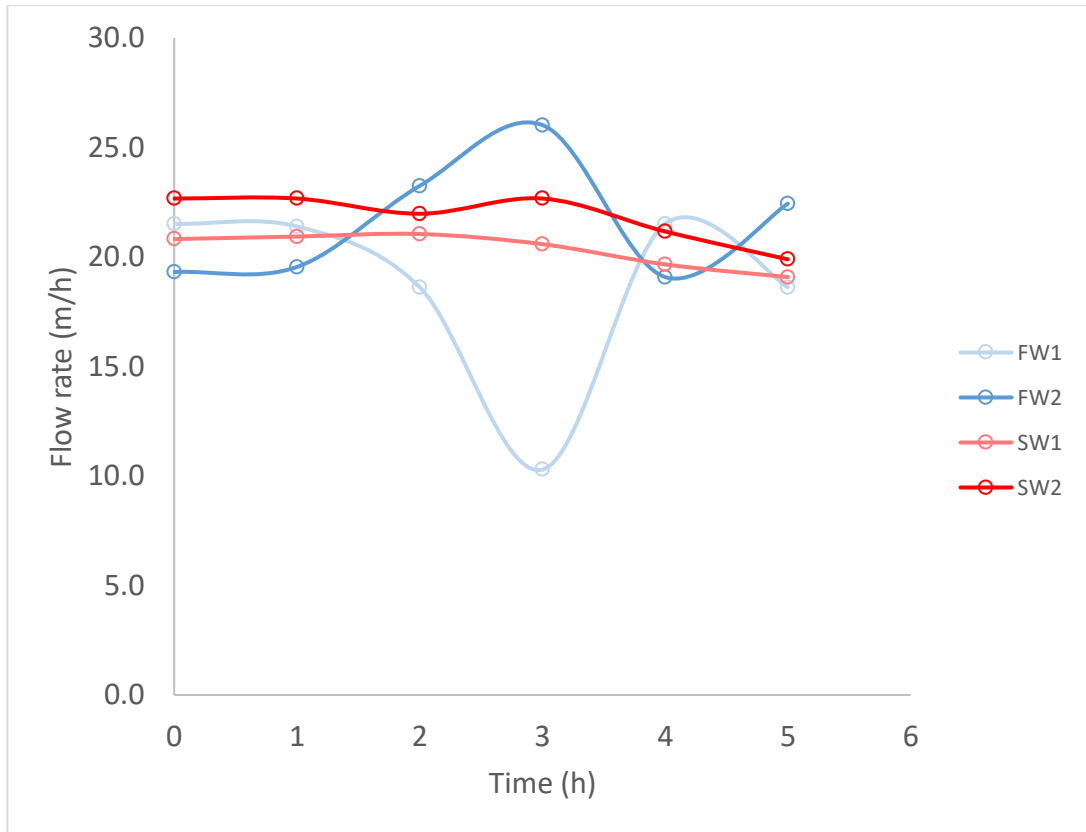


Figure 25: Measured flow rate on 02.11.2022

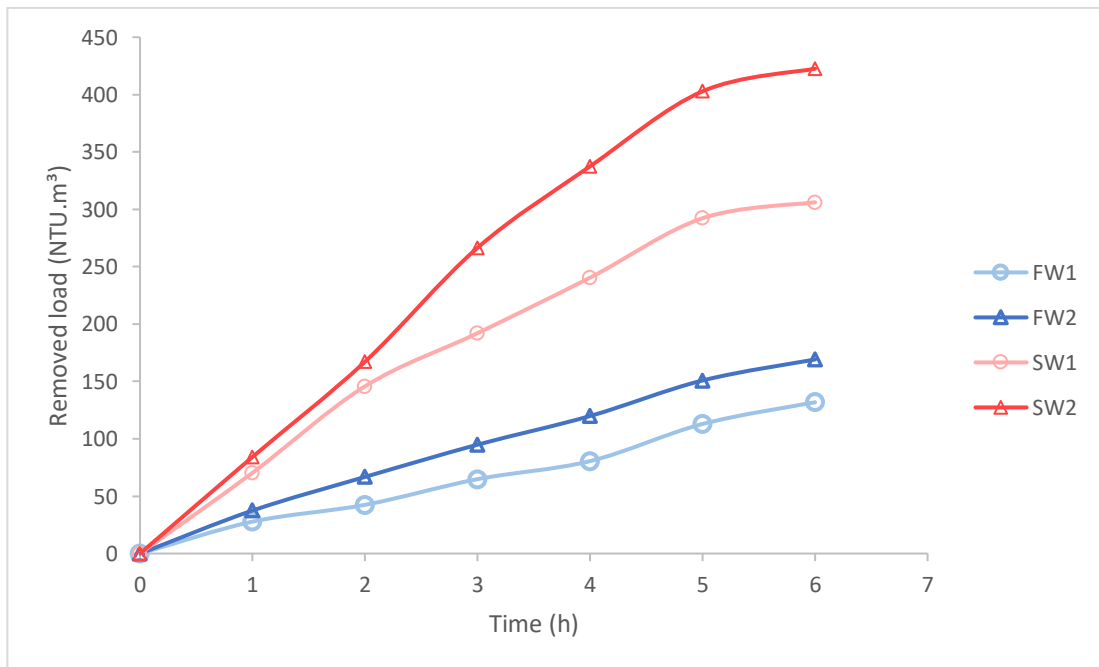


Figure 26: Filters removed load on 02.11.2022

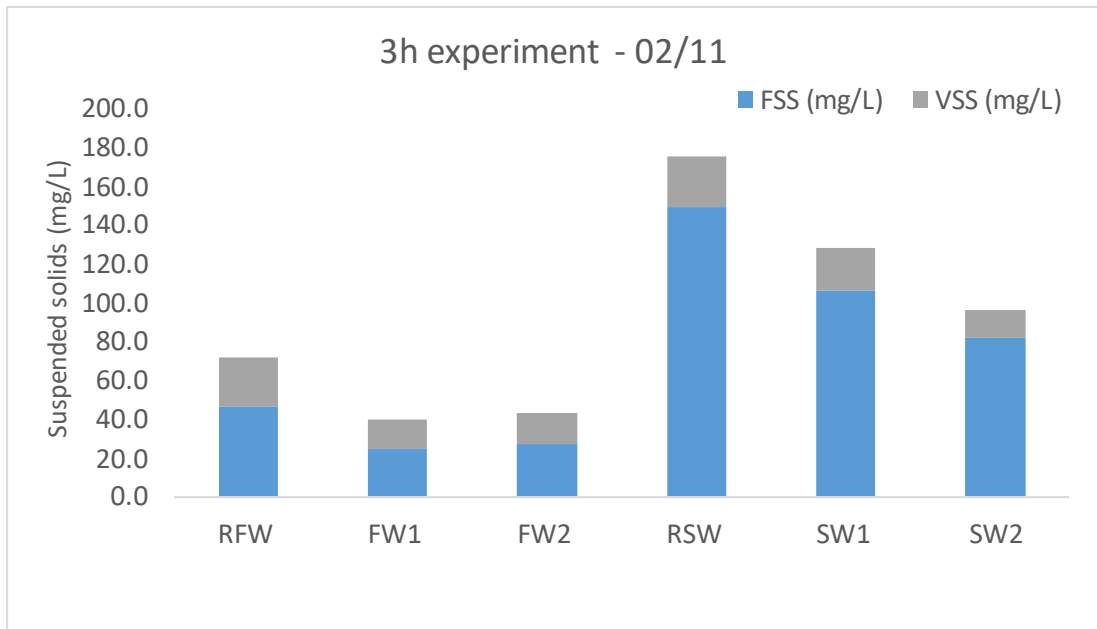


Figure 27: TSS measurement collected on 02.11.2022

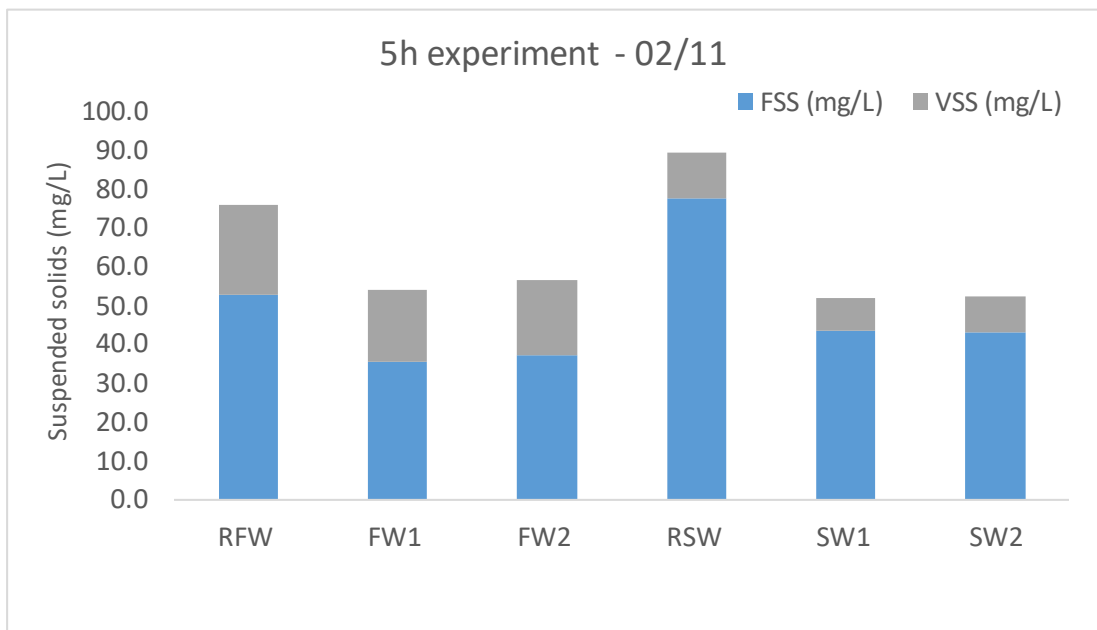


Figure 28: TSS measurement after five hours from experimental run on 02.11.2022

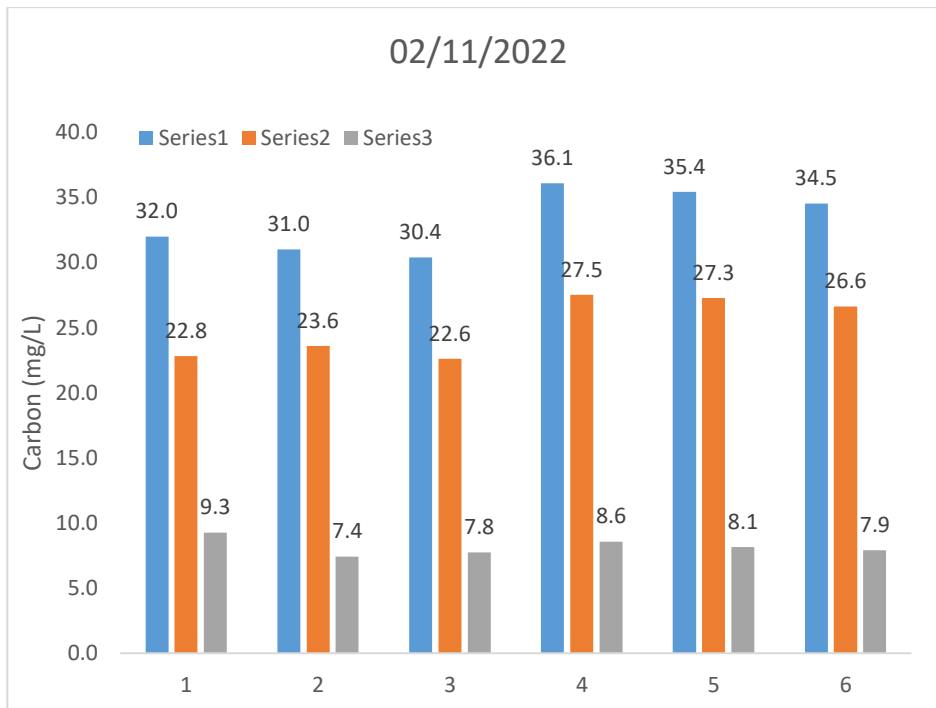


Figure 29: TOC measurement

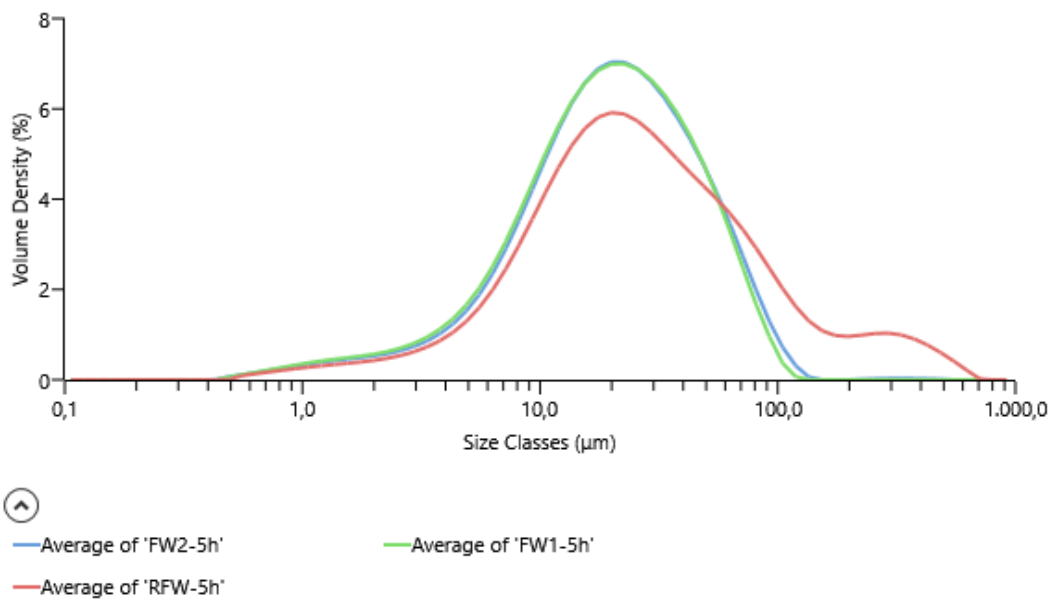


Figure 30: Particle size averages for fresh water measured on 02.11.2022

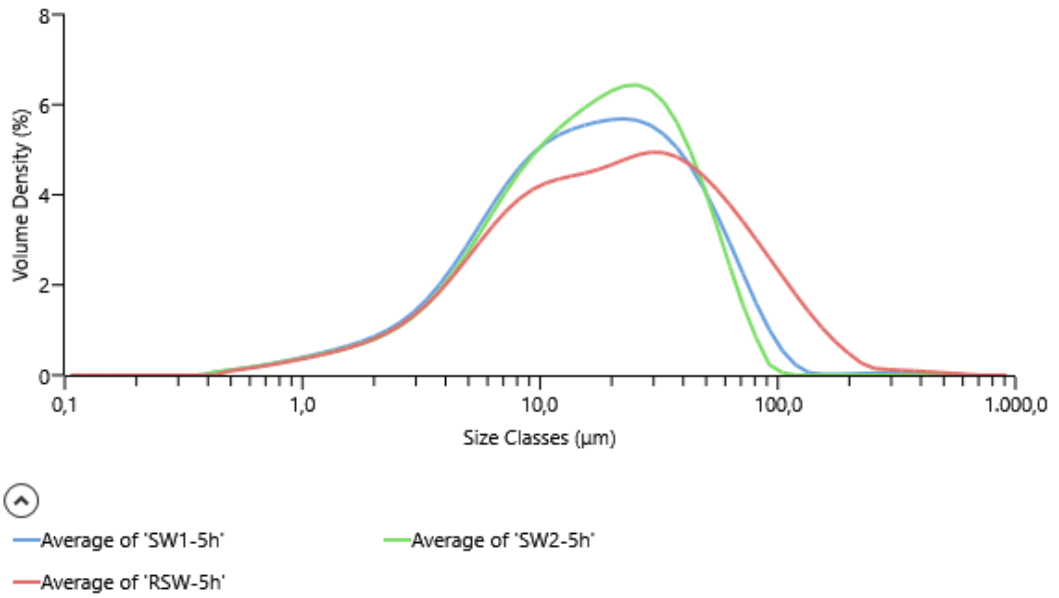


Figure 31: Particle size averages for sea water measured on 02.11.2022

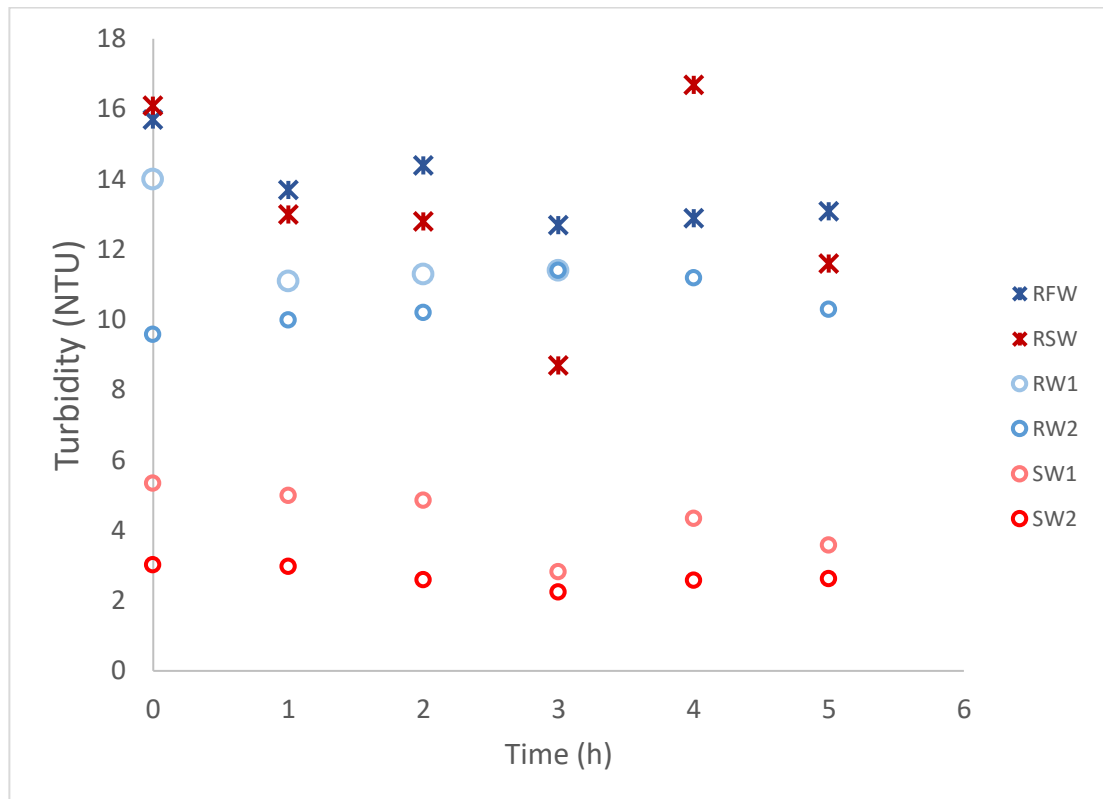


Figure 32: Measured turbidity for treated & untreated water collected on 28.09.2022

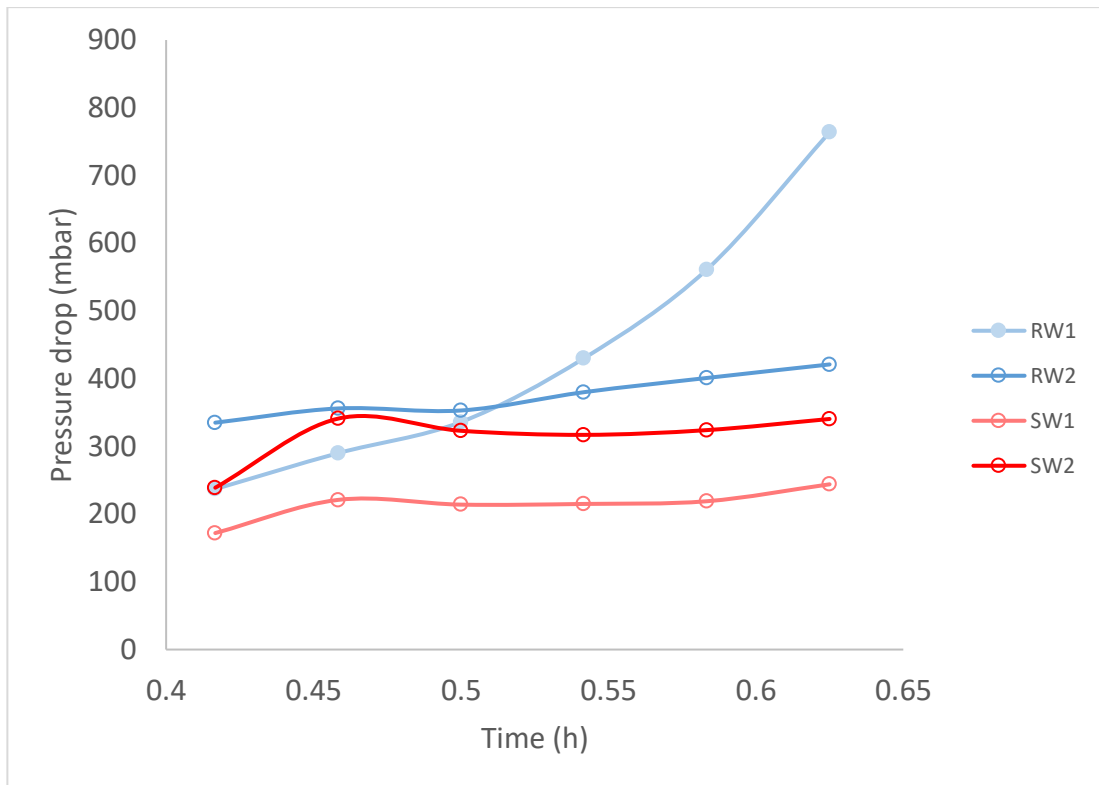


Figure 33: Measured pressure over experimental run on 28.09.2022

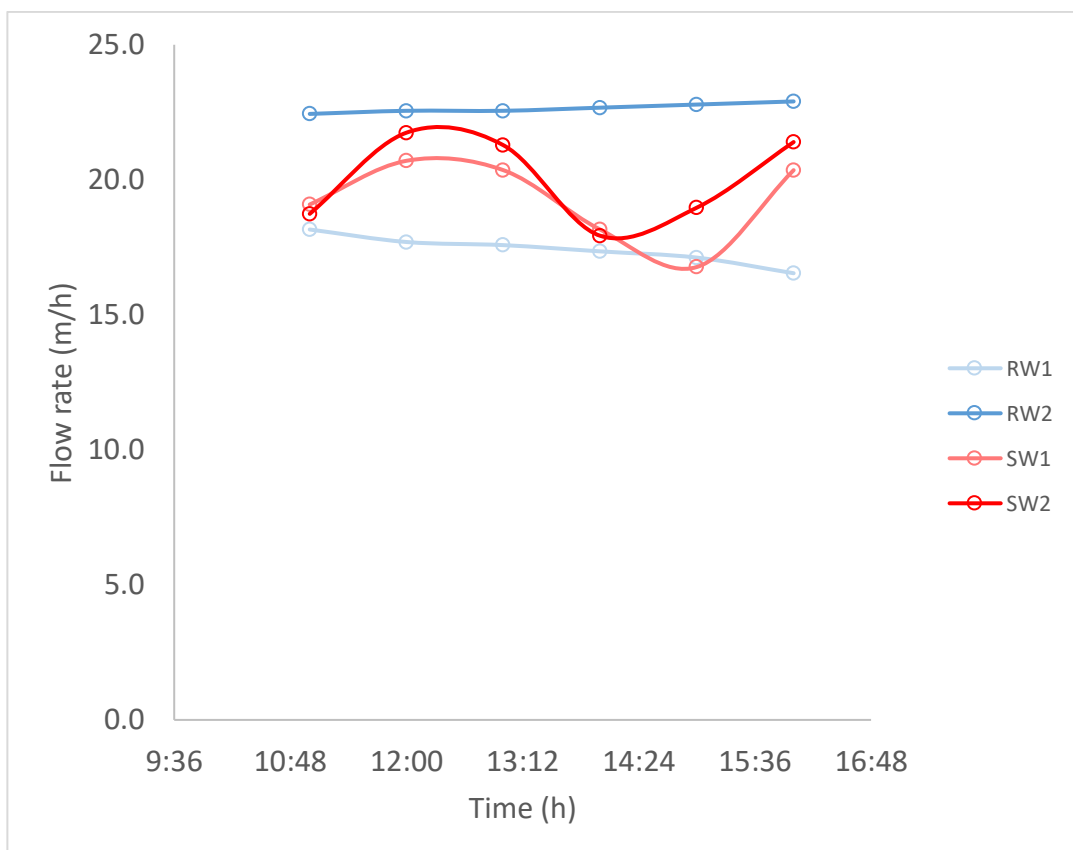


Figure 34: Measured flow collected on 28.09.2022

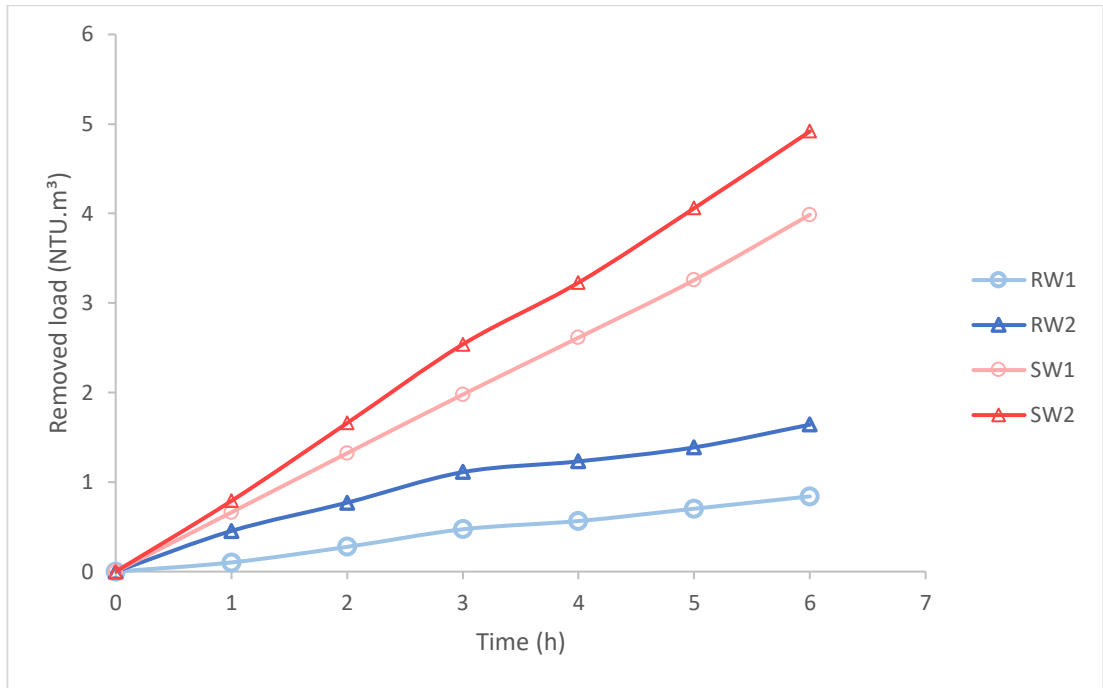


Figure 35: Removed load collected on 28.09.2022 calculated in excel

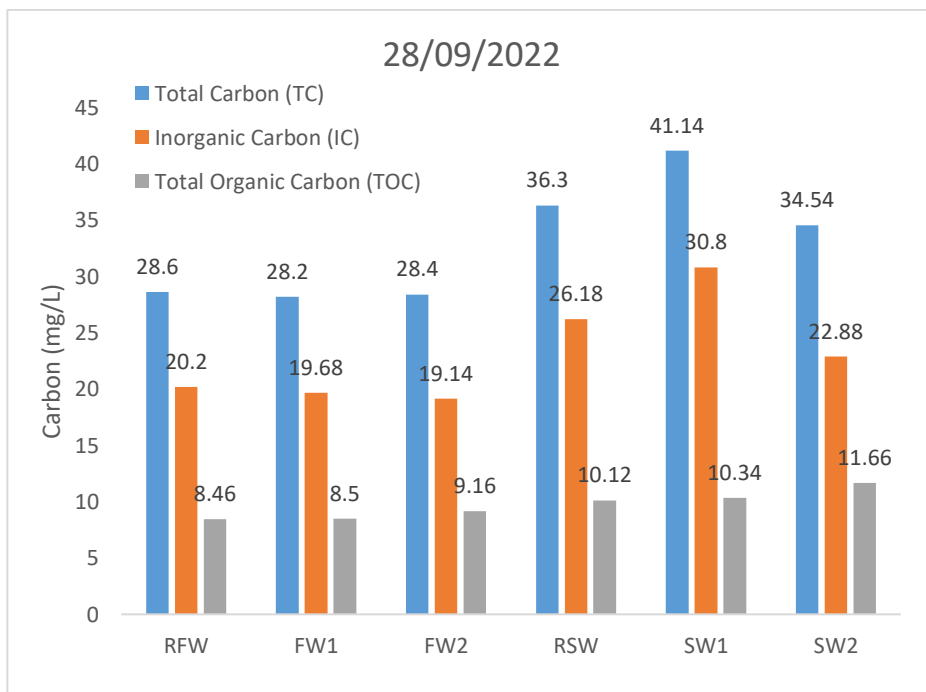


Figure 36: TOC measured from samples at end of experiment run

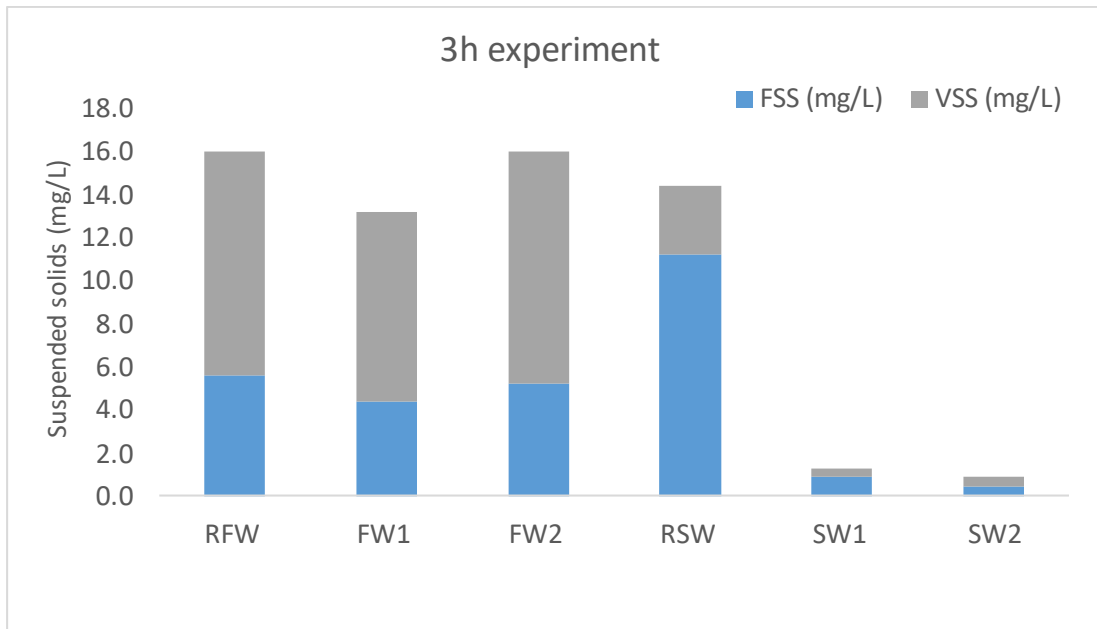


Figure 37: TSS measurement performed three hours after start of experiment on 28.09.2022

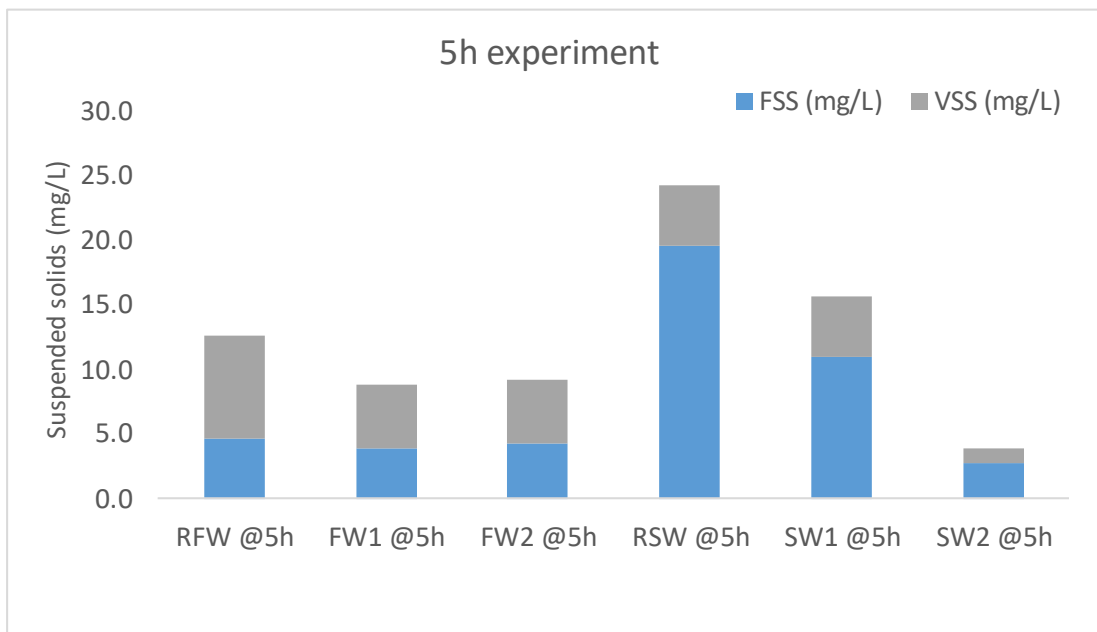


Figure 38: TSS performed at end of experiment on 28.09.2022

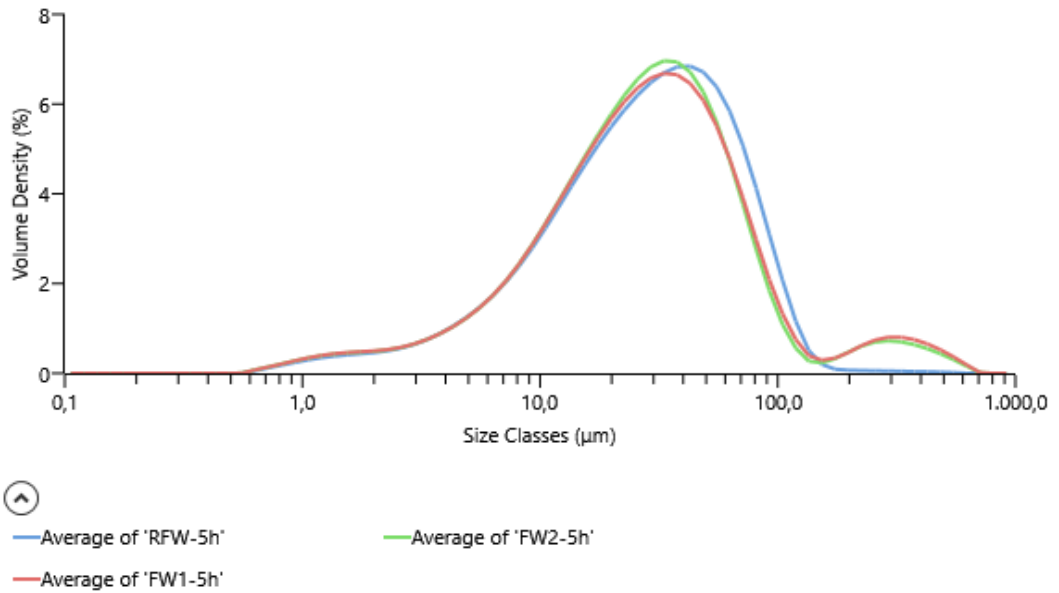


Figure 39: Average particle size of particulates in fresh water samples collected on 28.09.2022

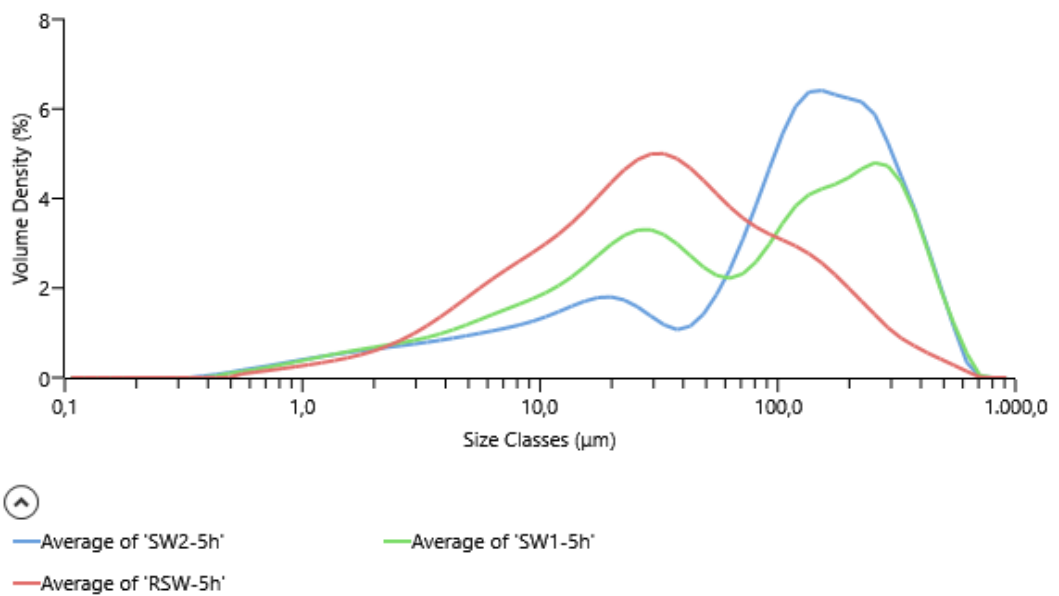


Figure 40: Particulate matter size of treated & untreated salt water samples collected on 28.09.2022

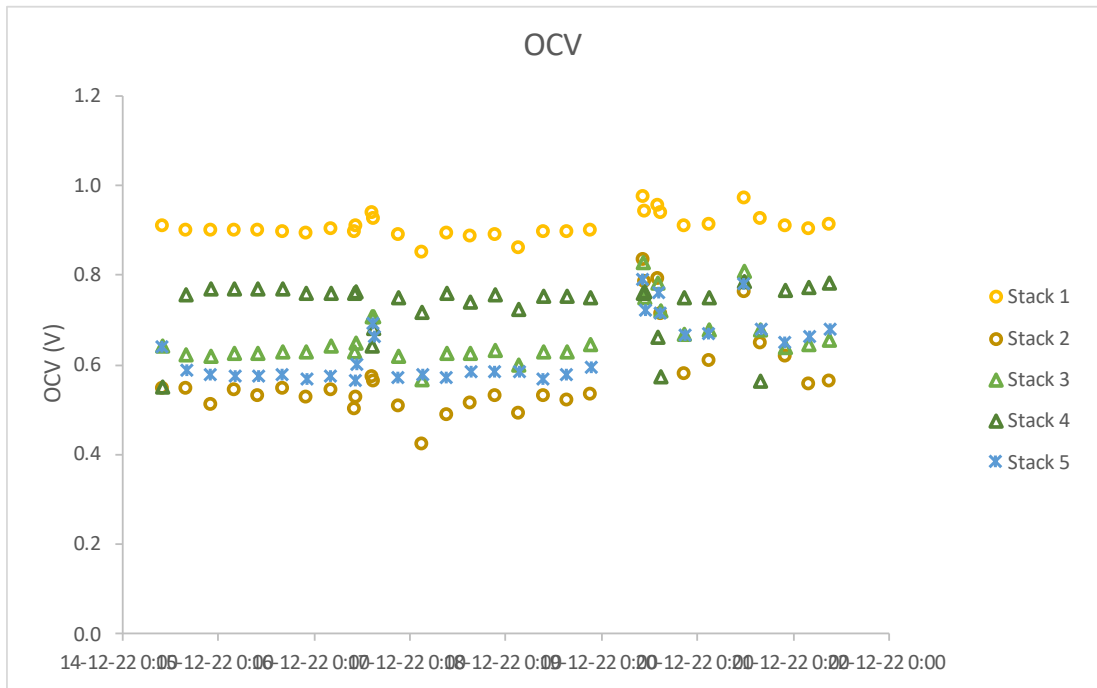


Figure 41: Power potential from stacks measured on (Iviumstat, Ivium Technologies, Netherlands) Stack 1 & 2 received sand filtered water at high velocity, Stack 3 & 4 received AFM filtered water at high velocity, and Stack 5 received sand filtered water at low velocity.

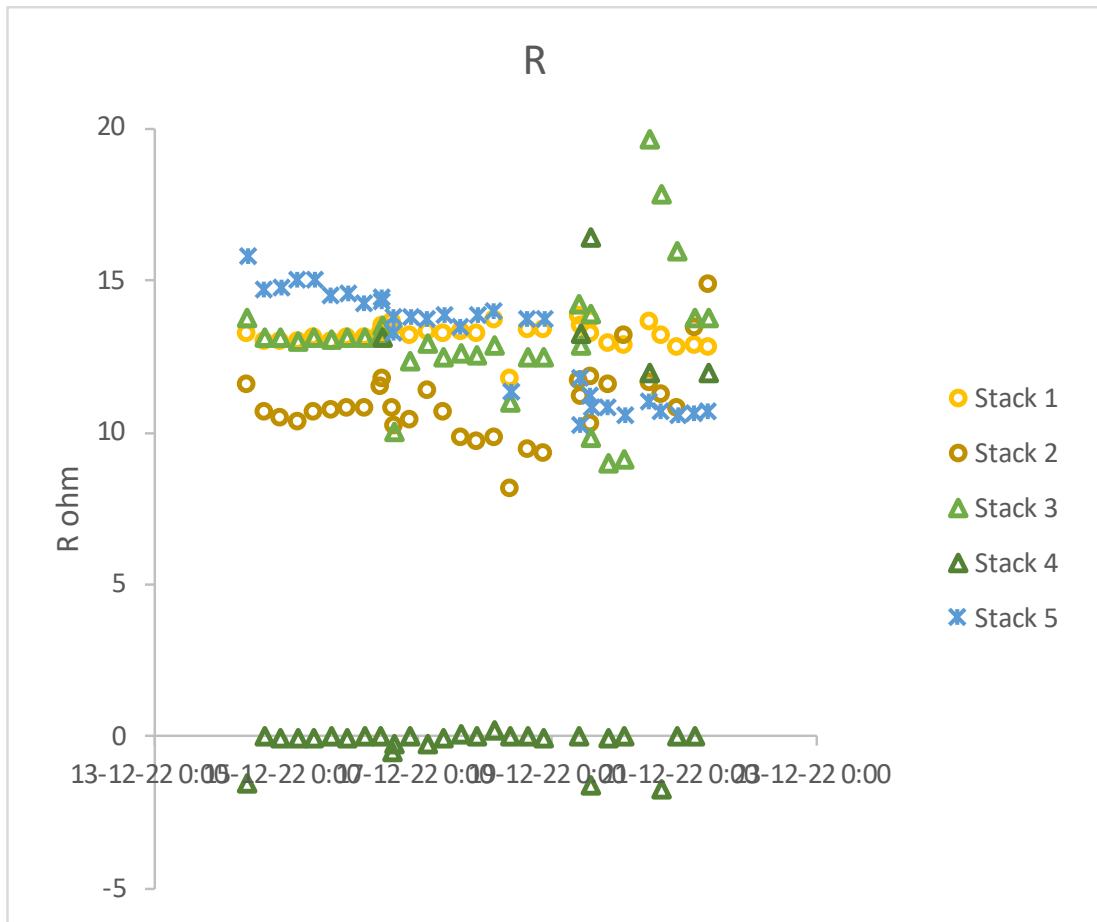


Figure 42: Total resistance in stacks measured on (Iviumstat, Ivium Technologies, Netherlands) Stack 1 & 2 received sand filtered water at high velocity, Stack 3 & 4 received AFM filtered water at high velocity, and Stack 5 received sand filtered water at low velocity.

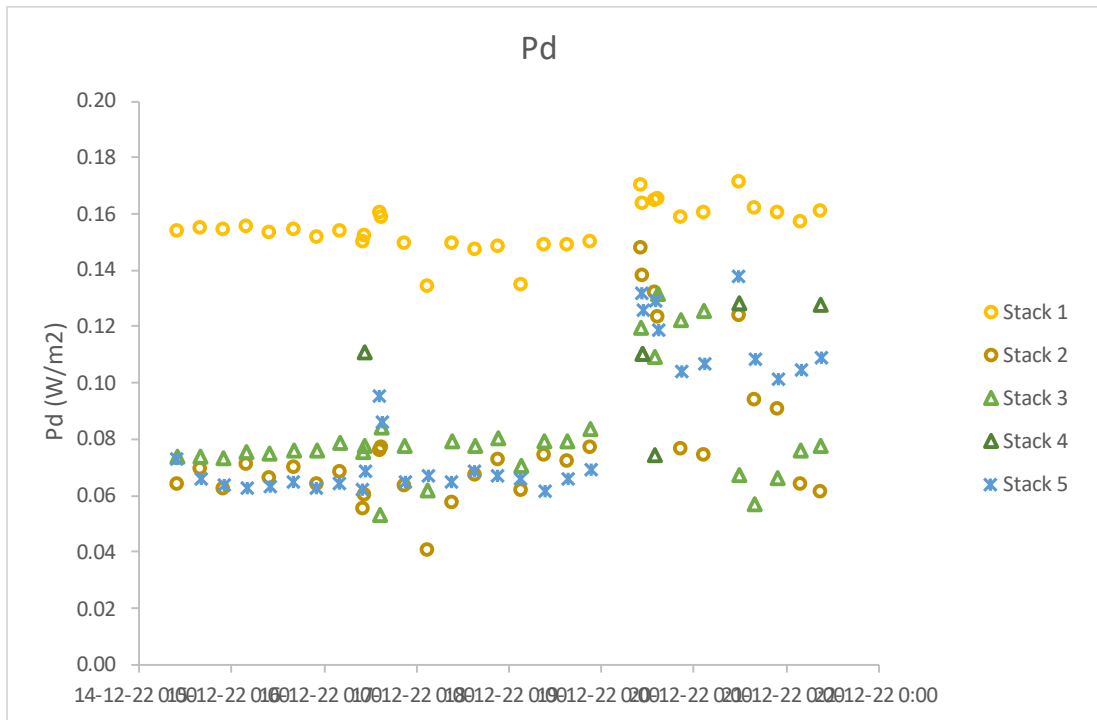


Figure 43: Power density from Stack 1 & 2 which received sand filtered water at high velocity, Stack 3 & 4 which received AFM filtered water at high velocity, and Stack 5 which received sand filtered water at low velocity.