

TSS Measurements for Organ Mountain Pond C.

Water collected 11/30/22

Water analyzed 12/2/2022

TSS Analysis was conducted using a Whatman paper filter grade 40 and a vacuum pump. See below for details.

	Filter	Avg	Sample 1	Sample 2	Sample 3
	Weight filter (g)	0.2030	0.2010	0.2029	0.2051
(24h)	Weight dried filter (g)	0.2024	0.2002	0.2024	0.2046
	Wet filter + solids (g)	0.3696	0.3662	0.3698	0.3729
(1h)	Dried filter + solids (g)	0.2054	0.2033	0.2068	0.2061
	Dried solids (g)	0.0030	0.0031	0.0044	0.0015
	TSS (mg/L)	30	31	44	15
(2h)	Dried filter + solids (g)	0.2052	0.2032	0.2062	0.2063
	Dried solids (g)	0.0028	0.0030	0.0038	0.0017
	TSS (mg/L)	28	30	38	17
(3h)	Dried filter + solids (g)	0.2037	0.2024	0.2034	0.2054
	Dried solids (g)	0.0013	0.0022	0.0010	0.0008
	TSS (mg/L)	13	22	10	8

TSS Analysis details

- Measured the weight of the filters, left it in the oven (45 C) for 24h, and measured the weight of the "Dried filter" today.
- Filtered **100 mL** in triplicate (A, B, C), 2 minutes each.
- Immediately after filtration, measured the weight of the "Wet filter+solids", and put it in the oven at 45 C.
- After 1 h in the oven, measured the weight of the "(1h)Dried filter+solids", and returned to the oven. After one hour, measured the "(2h) Dried filter+solids". Same for "(3h) Dried filter+solids".
- "Dried solids" = "Dried filter+solids" - "Dried filter"
- "TSS" (mg/L) = "Dried solids" (g) *1000 (conversion g -> mg) *10 (conversion 100 mL -> L)

