

Supplementary Materials: Beyond Microplastics: Circular water for industrial processes by implementation of a two-stage removal process for microplastics and chemical oxygen demand

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Table S1: Raw data of all measured parameters for all test phases and batches.

Batch	Sampling location	pH [-]	COD [mg/L]	TSS [mg/L]	Particle count [n/L]	Turbidity / [NTU]
1	Untreated	7.2	10 782	722.21	77 403 439	612
	After belt filter	6.4	8 990	23.25	605 361	18
	After fixed bed	8	605	6.34	n.a	9
2	Untreated	7.1	10 929	823.53	69 538 918	607
	After belt filter	6.5	9 250	8.23	843 366	14
	After fixed bed	7.6	3 693	7.58	n.a	11
3	Untreated	6.6	10 489	818.03	70 366 763	620
	After belt filter	7	8 944	17.71	574 317	17
	After fixed bed	7.6	3 638	8.9	n.a	12
4	Untreated	n.a	n.a	n.a	n.a	n.a
	After belt filter	n.a	n.a	n.a	n.a	n.a
	After fixed bed	n.a	n.a	n.a	n.a	n.a

1	Untreated	6.8	4 080	1 297.56	22 765 717	657
	After belt filter	6.7	2 650	192.22	507 055	31
	After fixed bed	7	54	1.44	n.a	5
2	Untreated	6.9	4 450	1 092.06	9 809 955	694
	After belt filter	6.7	2 560	6.77	205 409	34
	After fixed bed	7	40	3.45	n.a	10
3	Untreated	6.8	4 030	947.36	12 127 919	675
	After belt filter	7.4	2 437	26.8	333 725	33
	After fixed bed	7.3	65	11.6	n.a	22
4	Untreated	7.2	3 600	1 176.94	11 796 781	483
	After belt filter	7.4	1 453	132.05	299 576	30
	After fixed bed	7.1	71	0.63	n.a	30

1	Untreated	6.7	4470	2381.15	82 370 505	933
	After belt filter	6.8	1189	78.41	442 379	41
	After fixed bed	7.2	5	3.24	n.a	3
2	Untreated	6.8	4290	1970.74	125 418 406	936
	After belt filter	6.7	1204	28.69	1 241 766	46
	After fixed bed	6.9	6	2.93	n.a	10
3	Untreated	7	4380	2142.84	93 960 324	995
	After belt filter	6.9	1483	157.94	782 572	147
	After fixed bed	6.9	40	3.33	n.a	19
4	Untreated	7	3570	1750.75	101 410 923	953
	After belt filter	6.9	1323	140.02	712 722	121
	After fixed bed	6.7	46	4.07	n.a	26

1	Untreated	6.6	2333	1048	58 983 904	624
	After belt filter	5.1	1073	78.71	227 140	25
	After fixed bed	6.8	5	10.3	n.a	5
2	Untreated	n.a	n.a	n.a	n.a	n.a
	After belt filter	5.7	927	17.97	464 628	20
	After fixed bed	6.5	58.4	5.05	n.a	7
3	Untreated	6.4	2547	1176.09	54 844 683	617
	After belt filter	6.2	854	35.43	304 750	30
	After fixed bed	6.4	104	7.52	n.a	9
4	Untreated	6.7	2338	996.61	68 711 074	643
	After belt filter	6.7	818	8.48	241 110	35
	After fixed bed	6.4	107	5.82	n.a	15

1	Untreated	6.50	1766	685.90	33 113 782	342
	After belt filter	5.26	896	11.63	130 077	21
	After fixed bed	5.67	4	4.82	n.a	1
2	Untreated	6.17	1241	740.56	30 581 519	702
	After belt filter	5.77	1060	16.29	58 402	32
	After fixed bed	6.05	6	11.55	n.a	1
3	Untreated	6.31	1391	802.34	28 931 555	442
	After belt filter	6.00	1065	5.29	54 327	24
	After fixed bed	6.03	19	17.17	n.a	1
4	Untreated	6.31	1375	759.56	40 233 246	608
	After belt filter	6.18	1071	17.20	17 228	21
	After fixed bed	6.09	54	4.43	n.a	1

1	Untreated	6.9	2 589	559.2	17 695 171	554
	After belt filter	6.8	1 471	59.6	1 232 971	165
	After fixed bed	6	5	17.5	n.a	4
2	Untreated	7.2	2 627	565.5	12 624 625	557
	After belt filter	7.1	1 573	28.7	1 165 191	91
	After fixed bed	6.2	323	8.3	n.a	12
3	Untreated	7.2	2 391	565.6	17 384 730	558
	After belt filter	7.3	1 637	29.3	1 176 574	83
	After fixed bed	6.4	394	0.0	n.a	16
4	Untreated	7.2	2 220	411.2	20 592 626	495
	After belt filter	7.3	1 626	13.7	1 095 859	75
	After fixed bed	6.7	403	4.0	n.a	10

1	Untreated	7	2 226	1121.1	47 187 123	653
	After belt filter	6.4	931	101.8	2 036 450	129
	After fixed bed	6.3	14.1	44.3	n.a	12
2	Untreated	6.5	2 188	962.6	33 527 693	602
	After belt filter	6.5	582	85.9	354 938	14
	After fixed bed	6	104	85.2	n.a	16
3	Untreated	6.5	2 210	1032.8	44 703 590	671
	After belt filter	6.5	564	50	392 709	20
	After fixed bed	5.9	177	49.2	n.a	10
4	Untreated	6.2	2 183	1070.2	62 502 242	660
	After belt filter	6.5	567	145.1	436 170	28
	After fixed bed	5.7	172	50.3	n.a	7

1	Untreated	6.8	2 525	1005.9	49 256 734	616
	After belt filter	6.6	763	97.2	2 337 367	105
	After fixed bed	6.3	7.24	75.6	n.a	31
2	Untreated	6.1	2 600	1403.6	47 187 123	673
	After belt filter	6	771	57.3	1 122 764	38
	After fixed bed	5.7	9.3	27.6	n.a	7
3	Untreated	6.3	2 611	1067.5	55 879 488	650
	After belt filter	5.9	838	66.6	880 878	12
	After fixed bed	5.6	13.1	10.3	n.a	8
4	Untreated	6	2 450	969.8	48 428 890	676
	After belt filter	6	882	59.1	430 738	18
	After fixed bed	5.6	83.9	14.1	n.a	9