

Supplementary table 4. JC polyomavirus Cycle threshold (Cq) values at the waste water treatment plant (WWTP) and the nursing home (NH).

Dil: dilution, **D:** analysis of the direct sample extraction, **-1:** 1-fold dilution; **AS:** Active sampling, **PS:** passive sampling. Highlighted cells correspond to Cq presenting inhibition (difference between the diluted sample and the direct sample below 2,5 Cq)

Sampling date	Replicate	Dil	WWTP		NH	
			AS	PS	AS	PS
10/01/2022	1	D	28,20	30,08	Undetermined	30,88
		-1	32,13	33,90	Undetermined	34,22
		-1	32,08	33,82	Undetermined	35,09
	2	D	28,19	Undetermined	31,77	28,36
		-1	32,22	Undetermined	34,70	32,25
		-1	32,08	Undetermined	34,89	32,68
13/01/2022	1	D	29,09	35,99	31,61	31,00
		-1	32,50	38,21	35,60	34,54
		-1	32,98	37,98	34,51	34,59
	2	D	Undetermined	Undetermined	29,21	29,38
		-1	Undetermined	Undetermined	33,12	33,86
		-1	Undetermined	38,89	33,05	33,49
20/01/2022	1	D	27,42	31,32	31,12	32,55
		-1	30,90	Undetermined	35,09	35,51
		-1	30,66	Undetermined	35,46	35,43
	2	D	27,02	33,60	30,65	32,32
		-1	30,41	36,21	34,88	35,49
		-1	30,25	36,40	34,73	35,34
25/01/2022	1	D	27,78	30,41	Undetermined	30,96
		-1	34,64	33,11	37,23	35,47
		-1	34,77	33,80	37,44	35,04
	2	D	27,95	33,91	32,32	34,31
		-1	30,69	37,53	34,28	36,08
		-1	30,58	37,59	34,91	36,56
27/01/2022	1	D	28,24	33,30	31,29	32,74
		-1	31,75	36,43	33,89	36,90
		-1	31,20	36,45	33,32	36,72
	2	D	28,48	32,74	31,62	33,38
		-1	32,50	35,81	34,85	Undetermined
		-1	32,97	35,92	34,52	Undetermined
01/02/2022	1	D	28,18	29,83	Undetermined	31,68
		-1	31,00	33,12	35,01	35,81
		-1	31,56	33,61	35,55	35,48
	2	D	26,72	33,32	32,48	30,82
		-1	30,18	37,58	34,31	34,64
		-1	30,16	37,67	34,6	34,51
08/02/2022	1	D	28,65	31,08	31,07	32,10
		-1	32,12	35,12	34,55	35,60
		-1	32,82	35,86	34,21	35,92
	2	D	28,92	31,40	31,32	32,40
		-1	32,34	34,85	35,45	35,22
		-1	32,70	34,73	34,21	35,21
10/02/2022	1	D	28,64	32,50	31,99	33,39
		-1	31,88	36,15	35,40	37,95
		-1	31,50	36,09	35, 13	37,81
	2	D	28,72	30,11	31,26	33,33
		-1	32,24	34,60	34,62	35,78
		-1	32,65	34,76	34,17	35,76

Sampling date	Replicate	Dil	WWTP		NH	
			AS	PS	AS	PS
17/02/2022	1	D	29,31	Undetermined	31,56	Undetermined
		-1	32,50	Undetermined	35,78	Undetermined
		-1	32,08	Undetermined	35,68	Undetermined
	2	D	29,18	31,22	32,07	33,66
		-1	32,03	34,05	36,72	36,53
		-1	32,19	34,54	36,64	36,55
22/02/2022	1	D	27,32	32,88	32,74	34,27
		-1	31,02	35,51	36,37	37,97
		-1	31,11	35,41	36,88	37,99
	2	D	28,90	34,10	32,46	30,00
		-1	32,04	36,90	36,12	33,99
		-1	32,35	36,78	36,11	33,79
24/02/2022	1	D	28,63	32,07	30,34	35,10
		-1	32,07	35,65	33,94	36,84
		-1	32,04	35,87	33,97	36,76
	2	D	Undetermined	31,52	35,10	Undetermined
		-1	34,78	35,31	36,84	Undetermined
		-1	35,00	35,67	36,76	Undetermined
01/03/2022	1	D	27,65	37,34	Undetermined	31,98
		-1	31,29	37,70	36,81	35,83
		-1	31,51	37,74	36,91	35,94
	2	D	28,09	31,64	32,87	31,79
		-1	30,31	35,44	35,92	34,65
		-1	30,81	35,11	35,36	34,53
03/03/2022	1	D	28,92	33,03	31,96	Undetermined
		-1	32,52	35,41	35,99	35,59
		-1	32,46	35,62	35,34	35,37
	2	D	29,63	38,60	32,35	32,38
		-1	32,78	38,13	34,70	35,69
		-1	32,02	38,27	34,89	35,69
10/03/2022	1	D	28,96	Undetermined	32,01	34,18
		-1	32,39	Undetermined	34,85	37,90
		-1	32,40	Undetermined	34,56	37,78
	2	D	28,55	34,85	32,38	33,85
		-1	32,39	38,11	35,39	38,23
		-1	32,27	38,28	35,52	38,29
22/03/2022	1	D	29,86	31,45	31,01	34,61
		-1	33,83	35,67	35,65	37,29
		-1	32,70	35,41	35,71	37,28
	2	D	29,01	31,20	31,13	33,29
		-1	32,53	35,21	34,43	36,23
		-1	33,13	35,20	34,45	36,73