

Table S1: Details of Samples sent for Sequencing & RT-qPCR Detection

Sample Code	Date of Collection	Type of Sample	Number of Samples combined	WWTPs Site covered	Nanodrop Readings (ng/μl)	Nanodrop OD A260/280	NanoDrop ODA260/230
1	27 February 2021	Individual	1	3	9.3	1.8	0.1
2	20 February 2021	Pooled	2	9 & 2	11.1	1.8	0.1
3	12 March 2021	Pooled	2	5 & 7	11.2	1.4	0.5
4	19 March 2021	Pooled	3	7, 4, 5	16.8	1.7	0.1
5	1 April 2021	Pooled	7	4, 2, 3, 1, 5, 8, 4	6.8	1.5	0.1
6	9 April 2021	Pooled	7	5, 2, 8, 6, 4, 1, 3	19.1	1.7	0.5
7	20 April 2021	Pooled	6	5, 8, 4, 2, 3, 1	32.7	1.9	0.1
8	1 May 2021	Pooled	5	5, 4, 1, 6, 8	35.3	2.0	0.4
9	8 May 2021	Pooled	5	4, 6, 5, 11, 1	29.1	1.8	0.9
10	15 May 2021	Pooled	6	2, 7, 5, 4, 6, 8	41.0	1.9	0.1
11	24 May 2021	Pooled	4	9, 7, 10, 6	50.3	1.8	0.1

Table S2. Mapping and Consensus Statistics.

Sample Name	Reference Sequence	Mapping (%)	Genome Coverage (%)	No. of sequence(s)	Total length of consensus (bp)
1	Severe acute respiratory syndrome coronavirus 2 isolate Wuhan-Hu-1, complete genome (NC_045512.2)	90.67	94.42	1	29,869
2A		87.64	91.08	1	29,869
3A		90.56	92.48	1	29,903
4A		89.36	94.17	1	29,903
5A		89.74	92.11	1	29,903
6A		91.82	91.45	1	29,903
7A		88.02	99.52	1	29,903
8A		92.47	95.95	1	29,900
9A		91.21	93.38	1	29,903
10A		93.39	99.91	1	29,903
11A		90.63	92.99	1	29,903

Table S3. RT qPCR Detection.

Sample Code	Qualitative Detection				Quantitative Detection			
	IC	E gene	RdRp gene	N gene	IC	N gene	Copy no./Litre	Log ₁₀
JPR 1	29	33	37	33	-	36.36	2.15×10 ⁴	4.40
JPR 2	28	-	38	30	-	35.21	9.44×04	4.97
	27	36	-	32	-	34.61	1.46×05	5.16
JPR 3	24	-	37	-	35.79	32.84	2.38×05	5.38
	24	36	38	-	37.35	32.62	2.82×05	5.45
JPR 4	25	-	37	33	35.45	32.89	3.85×04	4.58
	26	-	37	33	35.14	33.14	2.99 ×04	4.48
	26	-	36	33	35.41	33.02	3.38×04	4.53
JPR 5	27	31	36	34	36.8	32.12	1.10×06	6.04
	26	33	34	34	36.86	32.4	9.16×05	5.96
	26	31	-	34	37.32	32.87	6.80×05	5.83
	26	31	35	34	37.11	32.51	8.56×05	5.93
	27	32	32	35	38.4	32.68	7.69×05	5.89
	26	32	36	34	39.26	32.54	8.39×05	5.92
	31	31	34	34	38.39	32.54	8.38×05	5.92
	24	31	34	33	34.55	32.48	5.93×04	4.77
JPR 6	26	32	-	34	34.95	32.2	7.85×04	4.89
	25	33	-	33	35.17	32.78	4.32×04	4.64
	26	31	34	34	34.82	32.72	4.63×04	4.67
	-	-	39	34	36.88	32.72	4.62×04	4.66
	25	31	33	33	35.58	32.22	7.71×04	4.89
	27	33	35	34	35.41	32.52	5.68×04	4.75
	26	29	34	31	35.89	31.72	5.63×05	5.75
JPR 7	26	30	33	31	37.7	32.21	3.87×05	5.59
	28	32	-	32	36.7	32.67	2.71×05	5.43
	29	30	33	31	35.33	32.12	4.14×05	5.62
	28	30	33	31	37.17	32.34	3.50×05	5.54
	29	31	33	31	36.18	32.54	2.99×05	5.48
	31	32	35	32	38.6	35.91	1.90×05	5.28
JPR 8	27	32	35	33	36.99	35.24	3.26×05	5.51
	29	32	37	33	36.93	35	3.95×05	5.60
	33	31	-	32	36.59	34.99	3.98×05	5.60
	29	32	37	32	36.58	36.01	1.77×05	5.25
	26	32	36	33	36.84	34.61	5.40×05	5.73
JPR 9	26	31	33	32	36.52	34.9	4.29×05	5.63
	26	31	36	32	37.56	34.29	7.00×05	5.84
	28	34	-	33	37.56	35.01	3.92×05	5.59
	27	32	35	33	36.23	32.55	1.13×05	5.05

Table S3. Cont.

Sample Code	Qualitative Detection				Quantitative Detection			
	IC	E gene	RdRp gene	N gene	IC	N gene	Copy no./Litre	Log ₁₀
JPR 10	27	32	-	32	37.27	34.36	6.61×05	5.82
	27	32	-	31	36.21	34.14	7.90×05	5.90
	29	32	-	32	36.47	34.47	6.03×05	5.78
	27	33	-	32	36.08	35.02	3.90×05	5.59
	28	32	-	32	36.12	34.44	6.17×05	5.79
	29	-	39	35	-	-	LOD	-
JPR 11	26	37	-	36	-	-	LOD	-
	26	34	-	38	-	-	LOD	-
	26	36	-	38	-	-	LOD	-
	26	35	-	38	-	38.11	5.53×04	4.74

Note: IC- Internal Control, LOD- Limit of detection.