

Table S1. Chemical results. ID: d dynamic sampling; s static sampling. Type: usd, urban sewage treatment plant discharge; gw, groundwater; sw, surface water. Group: 1, salty water; 2, brackish water; 3, fresh water. DWT: Depth to water table.

ID	Type	Group	Data	DWT	T	pH	EC	O ₂	Ca	Mg	Na	K	Cl-	HCO ₃	SO ₄	NO ₃	NH ₄	B	Br	SiO ₂	Sr	Li	Rb
				m	(°C)		mS/cm							mg/l								µg/L	µg/L
1	usd	3	oct-20	0.42	21.40	6.96	0.74	7.07	51	19	72	16	123	132	59	32	<0.1	0.06	0.20	12	1.4	7	10
2	gw	3	oct-20	3.4	18.31	6.79	0.37	4.25	36	11	28	2.6	52	99	33	6.6	<0.1	0.04	0.25	13	0.15	5.4	0.38
3	gw	3	oct-20	3.3	18.60	6.63	0.42	4.57	42	15	32	3.7	60	140	38	6.3	<0.1	0.04	0.26	12	0.17	4.7	0.49
4	gw	3	oct-20	2.6	19.40	6.60	0.61	1.73	60	20	51	2.1	95	175	68	0.62	<0.1	0.05	0.45	15	0.19	6.6	0.71
4	gw	3	jun-22	2.9	17.40	6.89	0.63	1.78	54	20	49	2.4	86	165	61	0.33	<0.1	0.05	0.26	16	0.18	6.7	1.1
6	gw	3	sept-20	1.7	19.65	7.45	1.02	8.29	63	32	108	4.3	225	170	76	1.1	<0.1	0.06	0.85	13	0.24	7.7	0.95
7d	gw	1	jun-22	-	18.30	6.75	23.65	1.97	545	733	4770	84	9680	115	1140	<0.2	1.65	0.41	30	11	3.7	61	15
7s	gw	2	sept-20	1.6	21.80	7.20	2.55	3.20	97	61	412	13	795	195	111	2.1	<0.1	0.07	3.4	13	0.38	14	4.0
7s	gw	2	jun-22	1.5	18.60	6.87	1.92	2.33	51	44	255	12	523	91	74	0.30	0.21	0.05	1.6	7.9	0.25	5.3	2.2
8d	gw	2	jun-22	-	18.40	7.59	5.04	0.68	57	126	1060	44	1730	688	89	<0.2	22.30	1.5	5.2	25	0.79	22	11
8s	gw	2	sept-20	1.2	21.00	7.90	2.24	1.40	26	39	440	48	546	627	4	2.2	11.50	1.2	2.5	24	0.35	13	7.1
8s	gw	2	jun-22	1.2	18.80	7.61	2.28	1.22	27	42	430	29	527	600	3	<0.2	13.70	1.2	1.8	26	0.32	11	5.2
9d	gw	1	jun-22	-	19.60	7.04	13.40	2.74	352	390	2330	66	4960	221	454	<0.2	9.54	0.68	15	12	3.6	55	11
9s	gw	1	sept-20	0.5	22.25	7.30	11.92	2.80	314	340	2068	59	4650	213	434	0.10	<0.1	0.81	16	5.3	1.2	56	11
9s	gw	1	jun-22	0.7	19.90	6.90	13.53	1.42	353	389	2390	69	5100	221	465	0.50	17.01	0.68	17	12	3.6	56	11
10	gw	3	sept-20	3.9	20.90	7.44	0.26	3.80	14	8	26	2.1	44	50	18	5.5	<0.1	0.02	0.21	14	0.10	2.2	<0.01
11	gw	3	sept-20	4.4	21.20	7.31	0.81	4.19	68	28	71	2.9	114	227	87	8.3	<0.1	0.09	0.43	16	0.22	7.9	0.33
12	gw	3	sept-20	3.8	18.40	7.00	0.66	4.40	53	24	58	2.5	120	177	54	2.8	<0.1	0.04	0.47	10	0.20	7.8	1.05
13	gw	3	sept-20	2.8	18.50	7.82	0.68	4.69	59	26	50	1.7	106	194	55	1.3	<0.1	0.03	0.46	10	0.16	6.4	0.58
13	gw	3	jun-22	3.4	18.40	7.35	0.60	1.07	52	24	42	1.7	72	195	51	1.5	<0.1	0.03	0.19	11	0.17	5.6	0.55
15	gw	3	sept-20	3.0	19.35	7.53	0.49	3.10	47	21	31	2.7	59	173	44	4.0	<0.1	0.04	0.27	11	0.14	5.3	0.58
16	gw	3	oct-20	5.7	18.66	6.69	0.28	5.57	23	9	24	2.3	41	91	18	6.4	<0.1	0.03	0.21	13	0.13	1.8	0.31
16	gw	3	jun-22	4.5	17.90	6.40	0.22	6.83	12	6	22	1.4	37	37	15	4.4	<0.1	0.02	0.09	12	0.08	1.6	0.32
18	gw	3	oct-20	3.5	21.00	6.52	0.86	4.27	78	28	76	4.5	128	224	99	6.2	<0.1	0.08	0.46	17	0.24	7.8	1.51
19	gw	3	oct-20	2.7	22.20	6.44	0.67	6.00	48	16	73	3.5	134	112	48	16	<0.1	0.07	0.46	22	0.20	5.50	0.78
20	gw	3	oct-20	4.9	22.13	6.83	0.86	5.55	45	22	111	1.7	165	136	77	36	<0.1	0.10	0.52	30	0.25	11	0.73
21	gw	3	oct-20	3.6	18.13	6.94	0.52	5.44	51	16	41	2.7	83	148	51	4.0	<0.1	0.29	0.32	15	0.17	5.3	0.80
22	gw	3	oct-20	2.9	18.28	6.99	0.83	4.48	78	30	72	1.7	131	239	94	2.0	<0.1	0.06	0.48	15	0.19	7.1	0.86
23	gw	3	oct-20	3.7	18.85	6.59	0.55	4.35	54	17	44	1.9	68	131	88	6.0	<0.1	0.04	0.40	18	0.20	11	<0.01
24	gw	3	oct-20	2.9	23.55	6.58	0.94	5.20	77	28	97	6.9	107	319	90	12.2	<0.1	0.15	0.39	18	0.22	5.8	<0.01
24	gw	3	jun-22	3.8	18.20	6.66	1.19	2.78	103	39	116	7.0	207	294	120	17.8	<0.1	0.12	0.46	17	0.31	5.2	0.40
26d	gw	2	jun-22	-	19.10	7.20	3.47	2.72	212	111	409	7.5	1120	163	126	<0.2	0.16	0.04	3.5	11	0.77	27	2.05
26s	gw	2	oct-20	1.1	20.43	7.54	2.73	—	175	93	232	6.6	833	154	74	2.9	<0.1	0.05	3.8	11	0.69	26	1.75
26s	gw	2	jun-22	1.5	18.50	7.10	3.22	3.64	203	106	347	7.6	1040	158	111	0.32	<0.1	0.04	3.2	11	0.85	23	1.77
27	gw	3	oct-20	1.0	18.95	8.04	0.76	2.07	49	37	60	10	159	238	7	0.48	2.10	0.26	0.75	21	0.34	3.2	2.27
27	gw	3	jun-22	1.3	20	8.1	0.81	0.90	49	38	64	9.4	174	233	4	<0.2	2.0	0.25	0.5	22	0.40	3	2.4
29	gw	2	oct-20	2.7	19.23	6.62	2.72	3.71	114	66	400	3.2	790	213	145	3.7	<0.1	0.07	4.0	12	0.38	22	1.20
30	gw	2	oct-20	7.3	20.65	6.71	2.09	5.65	112	55	251	3.9	601	151	87	17	<0.1	0.11	2.1	27	0.63	30	<0.01
30	gw	2	jun-22	7.6	21.20	6.82	1.90	2.13	94	44	248	4.5	478	175	116	52	0.27	0.10	1.3	22	0.55	19	0.41
32	gw	2	oct-20	2.2	19.62	7.22	2.77	8.64	133	77	431	4.5	904	188	142	3.8	<0.1	0.07	4.5	12	0.43	25	2.3
33	gw	3	oct-20	3.3	18.63	6.36	0.30	5.60	54	17	43	1.5	79	135	74	4.6	<0.1	0.04	0.47	16	0.17	6.4	0.29
34	gw	3	oct-20	3.6	18.50	6.64	0.58	3.07	59	19	46	1.5	89	143	79	0.72	<0.1	0.04	0.50	15	0.19	6.3	<0.01
35	gw	2	oct-20	1.3	20.58	6.96	3.77	5.32	154	91	601	5.7	1199	178	178	1.0	<0.1	0.07	4.4	11	0.47	25	2.5
36d	gw	1	jun-22	-	18.80	8.08	26.00	1.82	675	1086	7630	103	15180	213	1670	<0.2	6.90	0.49	47	4.6	5.4	78	17
36s	gw	2	oct-20	1.6	20.67	7.54	3.24	6.16	168	88	353	6.5	951	156	114	2.00	<0.1	0.05	4.6	11	0.71	20	2.2
36s	gw	2	jun-22	1.7	19.60	6.90	3.77	0.72	172	106	514	10	1220	156	153	<0.2	0.36	0.05	3.8	11	0.88	19	2.19
37	gw	3	oct-20	17	19.19	6.60	1.01	5.07	74	35	110	1.8	182	270	94	0.64	<0.1	0.05	0.81	37	0.28	70	2.6
38	gw	3	oct-20	2.1	18.25	6.74	0.60	4.94	58	20	47	10	64	209	61	10	<0.1	0.09	0.32	16	0.20	3.3	0.35
39	gw	3	oct-20	4.	18.80	6.84	1.12	3.42	102	45	99	2.7	177	346	107	6.4	<0.1	0.13	0.69	16	0.35	21	1.5
40	gw	3	oct-20	3.4	18.84	7.10	0.59	4.12	62	26	37	1.4	64	224	60	0.78	<0.1	0.04	0.44	10	0.17	3.87	0.31
40	gw	3	jun-22		18.20	7.21	0.55	2.69	55	24	35	1.5	54	215	52	0.72	<0.1	0.04	0.17	10	0.16	3.63	0.41
42	gw	2	oct-20	-	20.10	7.17	2.74	7.77	111	66	397	3.3	790	227	153	3.5	<0.1	0.07	3.6	13	0.39	20	1.6
43	gw	2	oct-20	2.9	18.48	6.71	1.85	3.00	73	50	273	3.4	505	184	108	3.8	<0.1	0.06	2.1	11	0.25	11	1.3
44	gw	3	oct-20	3.0	18.41	6.74	0.54	4.79	57	17	41	1.9	64	142	84	4.9	<0.1	0.04	0.42	17	0.19	6.58	0.53
44	gw	3	oct-20	3.0	18.97	6.66	0.54	3.63	58	17	41	1.8	65	147	85	4.5	<0.1	0.04	0.40	17	0.19	6.65	0.47
44	gw	3	jun-22	4.2	18.60	6.80	0.54	3.89	52	16	41	2.0	66	135	76	8.4	<0.1	0.04	0.18	17	0.20	5.72	0.46
47	gw	3	oct-20	4.2	18.32	7.15	0.59	6.51	57	19	48	1.7	85	143	88	5.0	<0.1	0.05	0.52	17	0.19	9.15	<0.01
48	gw	3	oct-20	5.0	17.14	7.29	0.52	4.17	63	21	29	2.2	55	215	54	1.6	<0.1	0.03	0.35	8.3	0.16	4.40	0.30
49	gw	2	oct-20	-	20.61	6.60	2.37	1.60	121	70	298	3.0	695	199	109	1.8	<0.1	0.70	2.9	25	0.70	65	3.6
50	gw	3	oct-20	5.7	19.76	7.04	0.53	4.96	66	21	30	1.8	55	222	54	0.50	<0.1	0.03	0.35	10	0.17	5.28	0.68
51	gw	3	oct-20	5.4	17.95	6.76	0.46	5.92	46	18	32	3.8	57	164	47</								

ID	Type	Group	Data	DWT m	T (°C)	pH	EC mS/cm	O ₂	Ca	Mg	Na	K	Cl-	HCO ₃	SO ₄	NO ₃	NH ₄	B	Br	SiO ₂	Sr	Li µg/L	Rb µg/L
57	sw	1	oct-20	-	22.86	8.10	23.56	13.00	176	548	4580	151	8700	175	1138	5.0	<0.1	2.3	30	3.9	1.3	105	57
58	sw	1	oct-20	-	21.53	7.40	46.02	6.00	319	1170	10250	281	19360	172	2150	1.0	<0.1	4.7	78	3.3	2.7	232	111
59	sw	1	oct-20	-	22.20	8.00	39.68	10.36	296	1010	8300	226	16100	205	463	1.0	<0.1	3.9	53	4.4	2.2	184	91
60	sw	3	oct-20	-	20.50	7.13	0.50	6.39	54	18	31	2.7	55	188	48	0.76	<0.1	0.04	0.26	9.6	0.16	5.2	0.57
61	sw	2	oct-20	-	23.00	7.59	5.45	5.85	85	93	998	29	1784	204	261	<1	<0.1	0.46	6.30	2.9	0.31	25	11
SW*	sw	Lagoon	oct-20	-	23.50	7.88	54.55	7.68	415	1240	12400	483	23180	163	2640	1.00	<0.1	5.5	91	<1.4	3.1	276	136