

Table S14, Hatley et al.

Sample ID	Date/Time	Well	pH	Temperature (C)	Dissolved Oxygen (mg/L)	Specific Conductivity (uS/cm)	Depth to Water (ft)	Total Depth (ft)	Alkalinity (meq/L)	Alkalinity (as mg/L CaCO3)	F- (mg/L)	Cl- (mg/L)	NO2- (mg/L)	Br- (mg/L)
20200625_3-5MOR	6/25/20 14:27	3-5 MOR	7.04	19.4	n.a.*	488.7	20.60	22.40	6.2	310.20	0.47	3.33	<0.71	<0.06
20200806_3-5MOR	8/6/20 9:56	3-5 MOR	6.65	16.7	n.a.	655.3	20.80	22.40	6.8	338.80	0.47	3.25	<0.71	<0.06
20200902_3-5MOR	9/2/20 8:55	3-5 MOR	6.89	17.7	6.7	682.8	20.81	22.45	7.1	354.50	0.42	2.45	<0.71	<0.06
20201102_3-5MOR	11/2/20 13:13	3-5 MOR	6.8	17.4	7.4	773.6	20.12	22.45	6.9	347.40	0.38	2.88	<0.71	<0.06
20201201_3-5MOR	12/1/20 13:01	3-5 MOR	6.67	13.2	7.7	761.3	20.90	22.45	6.5	328.00	0.42	3.17	<0.71	<0.06
20210223_3-5MOR	2/23/21 16:22	3-5 MOR	6.92	9.6	n.a.	689.5	20.22	22.45	6.3	313.60	0.77	4.37	<0.71	<0.06
20210415_3-5MOR	4/15/21 16:00	3-5 MOR	6.56	13.1	7.3	573.4	17.54	22.47	5.5	275.90	0.49	3.27	<0.71	<0.06
20210526_3-5MOR	5/26/21 12:30	3-5 MOR	7.35	15.8	4.8	528.2	18.59	22.45	5.7	287.20	0.56	4.20	<0.71	<0.06
20210707_3-5MOR	7/7/21 10:30	3-5 MOR	7.26	17.4	6.2	832.0	20.55	22.45	7.2	360.80	0.60	3.63	<0.71	<0.06
20210820_3-5MOR	8/20/21 11:25	3-5 MOR	7.05	19.1	6.0	634.1	21.01	22.44	6.8	338.60	0.43	2.95	<0.71	<0.06
20200806_3-5-1MOR	8/6/20 13:35	3-5-1 MOR	6.75	18.4	n.a.	656.4	35.10	41.60	6.3	317.20	0.35	4.08	<0.71	<0.06
20200921_3-5-1MOR	9/21/20 10:54	3-5-1 MOR	7.14	15.9	7.3	n.a.	35.85	41.35	6.5	326.80	0.41	3.68	<0.71	<0.06
20201012_3-5-1MOR	10/12/20 9:16	3-5-1 MOR	6.89	13.3	1.9	649.9	35.92	41.25	6.2	309.40	0.40	3.88	<0.71	<0.06
20201102_3-5-1MOR	11/2/20 12:08	3-5-1 MOR	6.94	16.2	1.7	649.4	35.85	41.20	6.3	313.90	0.35	3.43	<0.71	<0.06
20201201_3-5-1MOR	12/1/20 12:21	3-5-1 MOR	6.65	12.7	2.3	596.6	35.66	41.25	6.2	310.60	0.39	3.70	<0.71	<0.06
20210223_3-5-1MOR	2/23/21 15:53	3-5-1 MOR	6.85	13.8	n.a.	1416.0	35.24	41.25	6.3	312.70	0.39	4.10	<0.71	<0.06
20210415_3-5-1MOR	4/15/21 15:40	3-5-1 MOR	6.6	13.8	3.3	698.1	32.77	41.31	6.4	318.30	0.39	3.90	<0.71	<0.06
20210526_3-5-1MOR	5/26/21 12:15	3-5-1 MOR	7.3	16.8	2.1	605.7	33.40	41.30	6.3	315.60	0.46	4.89	<0.71	<0.06
20210707_3-5-1MOR	7/7/21 10:10	3-5-1 MOR	7.2	15.7	1.2	670.0	34.71	41.26	6.4	317.90	0.53	3.95	<0.71	<0.06
20210820_3-5-1MOR	8/20/21 11:50	3-5-1 MOR	7.18	15.3	1.7	637.0	35.31	41.34	6.4	321.50	0.35	3.91	<0.71	<0.06
20200806_4-6EIS1	8/6/20 12:41	4-6 EIS 1	6.72	16.0	n.a.	581.8	22.20	25.80	5.8	288.70	0.42	3.23	<0.71	<0.06
20200914_4-6EIS1	9/14/20 13:11	4-6 EIS 1	6.95	17.7	n.a.	747.5	22.45	24.85	6.7	336.50	0.43	2.85	<0.71	<0.06
20201102_4-6EIS1	11/2/20 10:45	4-6 EIS 1	6.99	14.2	n.a.	736.5	22.40	25.00	5.9	292.90	0.47	3.16	<0.71	<0.06
20201201_4-6EIS1	12/1/20 11:20	4-6 EIS 1	6.78	12.1	7.6	556.2	22.35	24.90	5.8	289.00	0.47	3.06	<0.71	<0.06
20210223_4-6EIS1	2/23/21 15:03	4-6 EIS 1	6.8	14.6	n.a.	1216.0	22.29	24.99	6.0	297.70	3.43	11.61	<0.71	<0.06
20210415_4-6EIS1	4/15/21 14:19	4-6 EIS 1	n.a.	n.a.	7.0	n.a.	22.07	24.96	6.2	308.60	0.78	3.90	<0.71	<0.06
20210508_4-6EIS1_1343	5/8/21 13:43	4-6 EIS 1	n.a.	n.a.	n.a.	n.a.	22.00	24.95	5.9	293.90	0.43	3.32	<0.71	<0.06
20210510_4-6EIS1_1112	5/10/21 11:12	4-6 EIS 1	7.01	13.5	5.0	870.5	22.82	24.97	5.8	288.60	0.48	4.21	<0.71	<0.06
20210526_4-6EIS1_1110	5/26/21 11:10	4-6 EIS 1	7.41	16.6	6.4	563.2	20.70	24.98	6.1	303.40	0.45	3.96	<0.71	<0.06
20210528_4-6EIS1_1010	5/28/21 10:10	4-6 EIS 1	7.15	12.5	5.0	668.5	21.58	24.98	6.0	302.40	0.48	5.78	<0.71	<0.06
20210701_4-6EIS1_1040	7/1/21 10:40	4-6 EIS 1	7.37	15.5	7.6	593.6	22.16	24.95	5.8	292.00	0.75	4.09	<0.71	<0.06
20210707_4-6EIS1_0930	7/7/21 9:30	4-6 EIS 1	7.46	15.8	6.8	607.0	22.24	24.93	5.9	292.70	0.64	3.84	<0.71	<0.06
20210820_4-6EIS1_0942	8/20/21 9:42	4-6 EIS 1	7.5	16.3	n.a.	544.7	23.21	24.97	6.7	334.30	0.43	2.80	<0.71	<0.06
20210820_4-6EIS1	8/20/21 9:42	4-6 EIS 1	7.5	16.3	n.a.	544.7	23.21	24.97	6.7	334.30	0.43	2.80	<0.71	<0.06
20200806_4-6EIS2	8/6/20 13:16	4-6 EIS 2	6.89	17.8	n.a.	566.8	18.60	16.50	7.6	379.10	0.42	4.92	<0.71	<0.06
20200901_4-6EIS2	9/1/20 14:45	4-6 EIS 2	6.93	19.8	9.2	557.3	16.50	18.52	6.0	298.70	0.36	2.39	<0.71	<0.06
20200914_4-6EIS2	9/14/20 13:16	4-6 EIS 2	6.81	16.5	7.1	726.3	16.55	18.50	8.3	416.00	0.38	2.35	<0.71	<0.06
20201102_4-6EIS2	11/2/20 10:10	4-6 EIS 2	6.78	15.6	6.9	642.3	16.55	18.60	6.8	340.00	0.34	2.35	<0.71	<0.06
20201201_4-6EIS2	12/1/20 11:50	4-6 EIS 2	6.72	13.4	5.8	671.3	14.52	16.52	6.6	329.70	0.40	2.78	<0.71	<0.06
20210223_4-6EIS2	2/23/21 15:31	4-6 EIS 2	6.69	15.7	n.a.	551.2	16.63	18.55	6.3	314.30	0.48	2.97	<0.71	<0.06
20210415_4-6EIS2_1450	4/15/21 14:50	4-6 EIS 2	6.74	14.7	7.5	1855.0	16.12	18.57	6.1	303.50	0.42	2.82	<0.71	<0.06
20210508_4_6_EIS2_1420	5/8/21 14:20	4-6 EIS 2	6.84	17.2	6.1	604.6	16.14	18.51	5.9	296.50	0.42	4.15	<0.71	<0.06
20210510_4-6EIS2_1145	5/10/21 11:45	4-6 EIS 2	7.05	13.3	3.8	636.4	16.15	18.55	5.7	283.10	0.44	3.00	<0.71	<0.06
20210526_4-6EIS2_1144	5/26/21 11:44	4-6 EIS 2	7.2	16.7	5.2	506.0	15.51	18.54	5.6	280.20	0.42	3.35	<0.71	<0.06
20210528_4-6EIS2_1030	5/28/21 10:30	4-6 EIS 2	6.96	12.5	5.8	492.2	15.07	18.55	5.4	271.20	0.37	3.04	<0.71	<0.06
20210701_4-6EIS2_1050	7/1/21 10:50	4-6 EIS 2	7.2	15.1	6.3	561.5	16.35	18.55	3.9	195.70	0.51	3.30	<0.71	<0.06
20210707_4-6EIS2_0945	7/7/21 9:45	4-6 EIS 2	7.14	14.4	6.4	572.0	16.46	18.53	5.9	293.20	0.54	3.15	<0.71	<0.06
20210820_4-6EIS2	8/20/21 10:10	4-6 EIS 2	7.08	17.6	6.4	532.5	16.58	18.57	5.6	280.50	0.36	2.97	<0.71	<0.06
20200625_4-6MOR	6/25/20 11:35	4-6 MOR	7.19	20.2	n.a.	459.2	38.60	41.80	6.0	300.90	0.43	3.73	<0.71	<0.06
20200806_4-6MOR	8/6/20 12:10	4-6 MOR	6.8	16.9	6.8	625.5	39.40	41.80	6.6	331.90	0.42	3.27	<0.71	<0.06
20200901_4-6MOR	9/1/20 12:03	4-6 MOR	6.81	15.8	8.3	652.4	39.50	41.75	7.0	349.30	0.42	2.50	<0.71	<0.06
20200914_4-6MOR_B	9/14/20 9:37	4-6 MOR	7.03	15.4	6.5	686.2	39.60	41.74	6.9	346.00	0.40	2.83	<0.71	<0.06
20201102_4-6MOR	11/2/20 11:12	4-6 MOR	6.77	15.3	n.a.	987.9	39.65	41.75	7.0	349.70	0.37	60.60	<0.71	<0.06
20201201_4-6MOR	12/1/20 10:54	4-6 MOR	6.84	13.0	7.7	661.4	39.45	40.75	6.5	323.40	0.40	3.33	<0.71	<0.06
20210223_4-6MOR	2/23/21 14:33	4-6 MOR	6.98	13.6	n.a.	657.8	38.42	41.75	5.9	296.00	0.36	3.10	<0.71	<0.06
20210415_4-6MOR_1347	4/15/21 13:47	4-6 MOR	6.42	14.2	5.3	509.5	37.30	41.70	5.6	281.50	0.47	3.27	<0.71	<0.06
20210508_4-6MOR_1354	5/8/21 13:54	4-6 MOR	6.72	16.1	5.0	680.2	37.51	41.80	5.8	289.00	0.45	3.35	<0.71	<0.06
20210510_4-6MOR_1120	5/10/21 11:20	4-6 MOR	7.13	12.9	2.5	729.3	38.01	41.82	5.9	293.50	0.46	3.26	<0.71	<0.06
20210526_4-6MOR_1202	5/26/21 12:02	4-6 MOR	7.35	15.6	3.2	540.4	37.55	41.80	6.0	300.70	0.44	3.38	<0.71	<0.06
20210528_4-6MOR_1017	5/28/21 10:17	4-6 MOR	7.24	13.0	4.4	549.6	37.70	41.66	5.9	292.90	0.45	5.90	<0.71	<0.06
20210701_4-6MOR_1030	7/1/21 10:30	4-6 MOR	7.35	16.0	5.6	670.2	38.56	41.82	6.4	321.00	0.61	3.76	<0.71	<0.06
20210707_4-6MOR_0912	7/7/21 9:12	4-6 MOR	7.2	16.2	4.7	662.0	38.62	41.78	7.0	351.40	0.62	3.85	<0.71	<0.06
20210820_4-6MOR	8/20/21 9:40	4-6 MOR	7.06	18.1	5.4	616.8	39.88	41.80	6.6	332.30	0.41	3.39	<0.71	<0.06

\*n.a. indicates that the parameter was not determined

Table S14 continued, Hatley et al.

Sample ID	NO3- (mg/L)	SO4-- (mg/L)	Na+ (mg/L)	NH4+ (mg/L)	K+ (mg/L)	Mg++ (mg/L)	Ca++ (mg/L)	Sr++ (mg/L)	δD (per mil VSMOW)	δ18O (per mil VSMOW)
20200625_3-5MOR	<0.59	17.39	4.78	<0.24	2.38	21.10	98.07	4.23	n.a.	n.a.
20200806_3-5MOR	<0.59	23.44	5.12	n.a.	2.07	19.89	99.27	4.41	n.a.	n.a.
20200902_3-5MOR	0.74	30.18	4.14	<0.24	1.04	19.35	100.38	4.06	n.a.	n.a.
20201102_3-5MOR	<0.59	38.23	4.79	<0.24	1.04	20.62	110.65	4.76	n.a.	n.a.
20201201_3-5MOR	<0.59	44.15	5.30	<0.24	1.05	20.10	117.32	4.90	n.a.	n.a.
20210223_3-5MOR	<0.59	56.75	5.56	<0.24	1.42	20.12	98.36	3.89	n.a.	n.a.
20210415_3-5MOR	<0.59	27.36	4.82	<0.24	1.20	16.42	86.04	3.56	n.a.	n.a.
20210526_3-5MOR	<0.59	15.55	5.06	<0.24	0.76	16.82	92.11	3.07	n.a.	n.a.
20210707_3-5MOR	<0.59	22.25	5.45	<0.24	1.60	17.47	99.74	3.55	n.a.	n.a.
20210820_3-5MOR	<0.59	30.06	6.11	<0.24	2.36	20.05	110.15	3.81	n.a.	n.a.
20200806_3-5-1MOR	<0.59	42.60	6.81	<0.24	1.70	28.54	86.79	5.09	n.a.	n.a.
20200921_3-5-1MOR	<0.59	42.35	6.51	0.25	1.93	33.58	89.87	4.91	n.a.	n.a.
20201012_3-5-1MOR	<0.59	43.59	6.72	ND	1.31	32.59	104.71	5.27	n.a.	n.a.
20201102_3-5-1MOR	<0.59	39.89	6.52	ND	1.35	27.27	84.06	4.95	n.a.	n.a.
20201201_3-5-1MOR	<0.59	40.11	7.15	<0.24	1.12	27.78	86.98	5.04	n.a.	n.a.
20210223_3-5-1MOR	<0.59	43.92	7.77	<0.24	1.85	26.72	83.73	4.53	n.a.	n.a.
20210415_3-5-1MOR	<0.59	40.50	7.07	<0.24	1.54	27.44	90.08	4.55	n.a.	n.a.
20210526_3-5-1MOR	<0.59	42.86	7.71	<0.24	1.22	29.49	91.96	4.30	n.a.	n.a.
20210707_3-5-1MOR	<0.59	41.68	6.81	<0.24	1.17	28.43	94.57	4.30	n.a.	n.a.
20210820_3-5-1MOR	<0.59	41.23	6.17	0.29	1.55	27.11	88.12	4.16	n.a.	n.a.
20200806_4-6EIS1	1.07	18.81	6.87	n.a.	2.02	24.62	76.69	4.50	n.a.	n.a.
20200914_4-6EIS1	1.48	21.92	6.76	n.a.	2.40	25.51	77.22	4.15	n.a.	n.a.
20201102_4-6EIS1	0.92	20.35	6.87	n.a.	1.97	24.51	75.27	4.23	n.a.	n.a.
20201201_4-6EIS1	1.05	21.82	7.22	<0.24	1.07	26.03	76.01	4.28	n.a.	n.a.
20210223_4-6EIS1	1.49	19.84	9.48	<0.24	4.10	22.47	71.05	3.92	n.a.	n.a.
20210415_4-6EIS1	1.65	19.32	7.81	<0.24	2.12	24.07	75.47	3.89	n.a.	n.a.
20210508_4-6EIS1_1343	0.95	22.87	7.55	<0.24	1.73	25.29	76.48	3.90	-37	-5.8
20210510_4-6EIS1_1112	1.39	22.08	7.92	<0.24	2.20	25.15	72.40	4.01	-38	-6
20210526_4-6EIS1_1110	1.67	19.45	8.09	<0.24	1.37	26.11	78.07	3.70	-38	-6.2
20210528_4-6EIS1_1010	1.17	22.24	8.35	<0.24	2.40	27.82	77.37	4.48	-37	-5.8
20210701_4-6EIS1_1040	1.38	19.04	6.69	<0.24	1.85	25.34	77.95	4.35	n.a.	n.a.
20210707_4-6EIS1_0930	1.78	20.69	7.83	<0.24	1.60	25.23	88.74	3.93	n.a.	n.a.
20210820_4-6EIS1_0942	1.30	20.07	6.66	0.28	1.74	25.08	78.33	3.54	n.a.	n.a.
20210820_4-6EIS1	1.30	20.07	6.66	0.28	1.74	25.08	78.33	3.54	n.a.	n.a.
20200806_4-6EIS2	0.68	13.95	4.69	<0.24	3.44	15.10	105.65	3.92	n.a.	n.a.
20200901_4-6EIS2	0.81	12.18	2.90	0.29	0.62	14.92	87.80	3.33	n.a.	n.a.
20200914_4-6EIS2	0.73	10.99	3.46	n.a.	1.23	15.81	90.02	3.64	n.a.	n.a.
20201102_4-6EIS2	<0.59	10.10	3.80	0.54	0.72	16.23	99.07	3.75	n.a.	n.a.
20201201_4-6EIS2	<0.59	11.65	6.70	<0.24	0.47	15.31	97.08	3.72	n.a.	n.a.
20210223_4-6EIS2	<0.59	10.88	7.09	<0.24	1.10	14.62	93.74	3.15	n.a.	n.a.
20210415_4-6EIS2_1450	<0.59	10.20	4.01	<0.24	1.06	13.70	93.75	3.14	n.a.	n.a.
20210508_4_6_EIS2_1420	0.69	15.80	6.12	<0.24	4.69	16.09	86.95	3.17	-36	-5.7
20210510_4-6EIS2_1145	<0.59	14.84	4.08	<0.24	1.04	15.42	87.55	3.25	-36	-5.7
20210526_4-6EIS2_1144	<0.59	6.90	3.97	<0.24	0.51	10.53	92.18	2.53	-34	-5.5
20210528_4-6EIS2_1030	0.93	6.10	3.03	<0.24	0.96	9.13	95.97	2.82	-34	-5.3
20210701_4-6EIS2_1050	<0.59	12.89	4.82	<0.24	1.43	14.11	90.85	2.90	-35	-5.6
20210707_4-6EIS2_0945	<0.59	11.20	4.03	<0.24	0.74	13.71	96.99	3.05	n.a.	n.a.
20210820_4-6EIS2	0.59	11.01	3.84	1.31	1.84	12.52	90.38	2.40	n.a.	n.a.
20200625_4-6MOR	0.98	23.14	4.39	n.a.	2.51	19.20	109.74	4.00	n.a.	n.a.
20200806_4-6MOR	<0.59	26.83	5.01	<0.24	1.81	22.28	99.58	4.45	n.a.	n.a.
20200901_4-6MOR	0.84	28.89	4.42	n.a.	1.11	20.36	95.25	4.51	n.a.	n.a.
20200914_4-6MOR_B	<0.59	34.53	4.92	n.a.	1.16	26.87	125.50	4.65	n.a.	n.a.
20201102_4-6MOR	<0.59	38.28	12.72	n.a.	58.63	21.67	100.50	4.84	n.a.	n.a.
20201201_4-6MOR	<0.59	44.47	5.42	<0.24	0.76	17.75	80.95	4.72	n.a.	n.a.
20210223_4-6MOR	<0.59	56.98	4.94	<0.24	0.70	20.00	98.60	3.82	n.a.	n.a.
20210415_4-6MOR_1347	<0.59	30.89	4.92	<0.24	0.76	17.92	86.62	3.64	n.a.	n.a.
20210508_4-6MOR_1354	<0.59	31.39	5.09	<0.24	1.22	18.16	88.27	3.31	-36	-5.7
20210510_4-6MOR_1120	<0.59	31.72	4.95	<0.24	1.09	18.14	89.22	3.79	-36	-5.7
20210526_4-6MOR_1202	<0.59	24.52	5.75	<0.24	0.70	20.07	86.30	3.45	-35	-5.7
20210528_4-6MOR_1017	0.77	21.07	5.28	<0.24	1.62	18.34	86.91	3.82	-34	-5.3
20210701_4-6MOR_1030	<0.59	24.84	4.94	<0.24	1.50	19.21	97.08	3.99	-36	-5.6
20210707_4-6MOR_0912	<0.59	32.10	5.91	<0.24	1.09	20.71	95.84	4.00	n.a.	n.a.
20210820_4-6MOR	<0.59	32.02	5.15	<0.24	1.47	20.97	102.84	3.89	n.a.	n.a.

\*n.a. indicates that the parameter was not determined