

OLWQS 2019 1 SOUTH BASIN

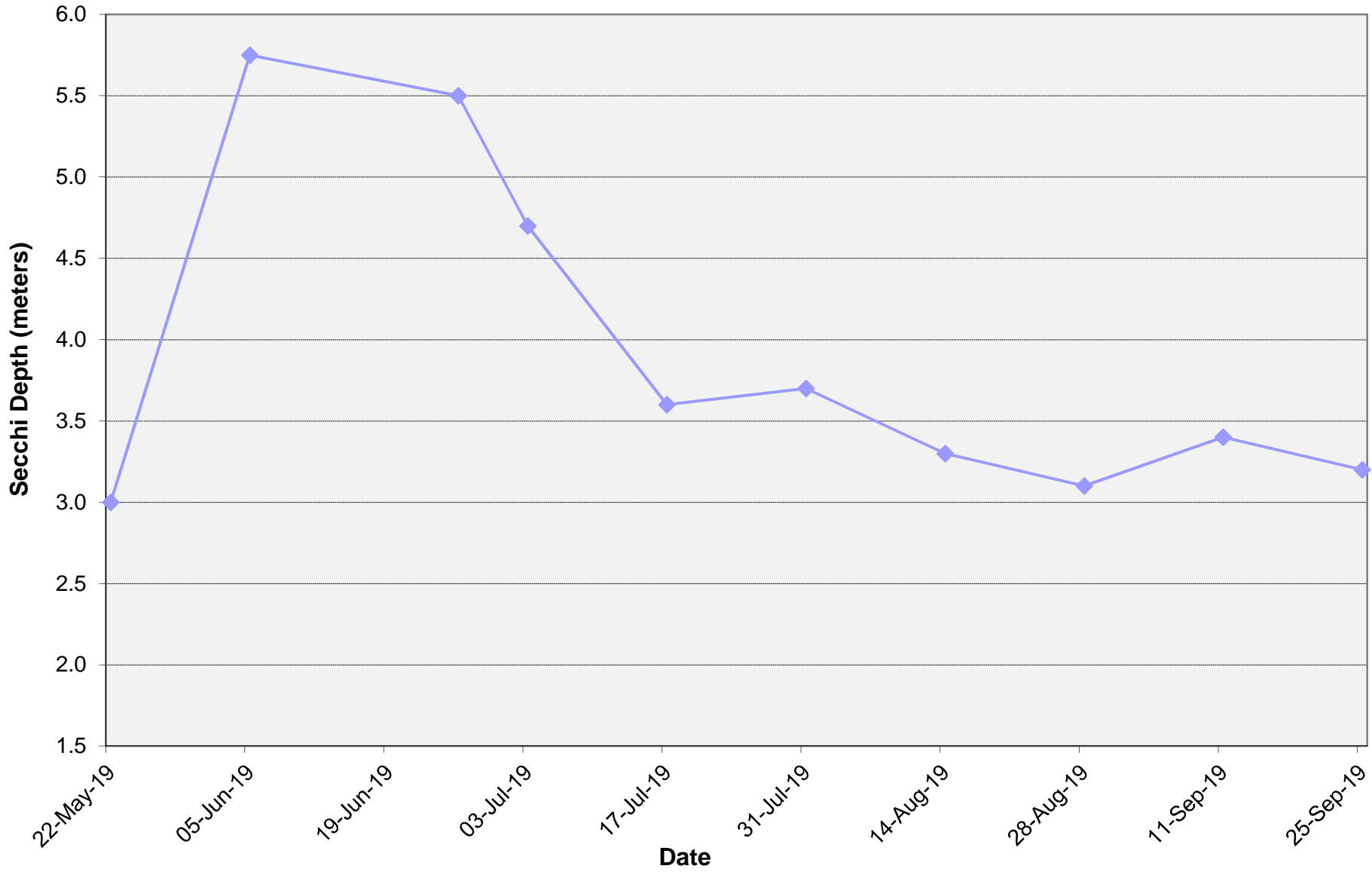
DATA - SOUTH BASIN (Border)- 2019

DATE	TIME	SKY CONDITION	WIND DIRECTION	WIND STRENGTH	WATER CONDITION	AIR TEMPERATURE (°C)	LAKE DEPTH (meters)	SECCHI DISC (meters)	TEMP, SURFACE (°C at 0m)	TEMP, BOTTOM (°C at 20m)	D.O. SURFACE (mg/l at 0m)	D.O. BOTTOM (mg/l at 20m)	SP. COND. - SURFACE (µS/cm)	SP. COND. - BTM (µS/cm at 20m)	pH SURFACE	pH BOTTOM (20m)	THERMOCLINE			NOTES
																	DEPTH (meters)	TEMP (°C)	D.O. (ppm)	
22-May-19	9:25 AM	Overcast	NE	Moderate	Light ripple	17	24	3.0	16.6	9.7	9.72	6.89	307.7	309.5	8.64	7.73	8.0	12.3	8.3	
5-Jun-19	9:35 AM	Overcast	S	Light	Small waves	18	24	5.8	20.5	9.9	8.82	4.46	308.1	311.9	8.72	7.60	9.0	12.8	6.1	
26-Jun-19	12:12 PM	Clear		Calm	Calm	22	24	5.5	20.3	10.9	8.55	2.28	311.2	315.8	8.65	7.55	10.0	14.5	4.5	
3-Jul-19	9:30 AM	Scattered	S	Calm	Calm	21	25	4.7	20.5	11.2	8.68	1.59	315.6	317.3	8.38	7.46	10.0	15.4	3.6	
17-Jul-19	9:12 AM	Overcast	S	Light	Light ripple	22	24	3.6	22.4	11.7	8.80	0.00	310.3	317.6	8.70	7.36	10.0	18.7	4.5	
31-Jul-19	12:01 PM	Scattered		Calm	Calm	29	24	3.7	23.7	12.2	8.43	0.00	305.4	316.6	8.62	7.22	12.0	16.5	0.4	
14-Aug-19	11:30 AM	Clear		Calm	Calm	25	24	3.3	24.7	12.4	8.25	0.00	306.4	316.8	8.67	7.30	10.0	18.9	1.6	
28-Aug-19	8:53 AM	Clear		Calm	Calm	20	24	3.1	22.2	12.8	8.1	0.0	308.2	318.6	8.59	7.33	12.0	16.6	0.4	
11-Sep-19	11:05 AM	Clear		Calm	Calm	19	26	3.4	22.4	13.3	8.3	0.0	305.2	320.9	8.67	7.43	12.0	17.3	0.0	
25-Sep-19	11:48 AM	Scattered		Calm	Calm	18	26	3.2	19.4	13.3	8.1	0.1	305.8	322.6	8.60	7.50	14.0	15.6	0.1	

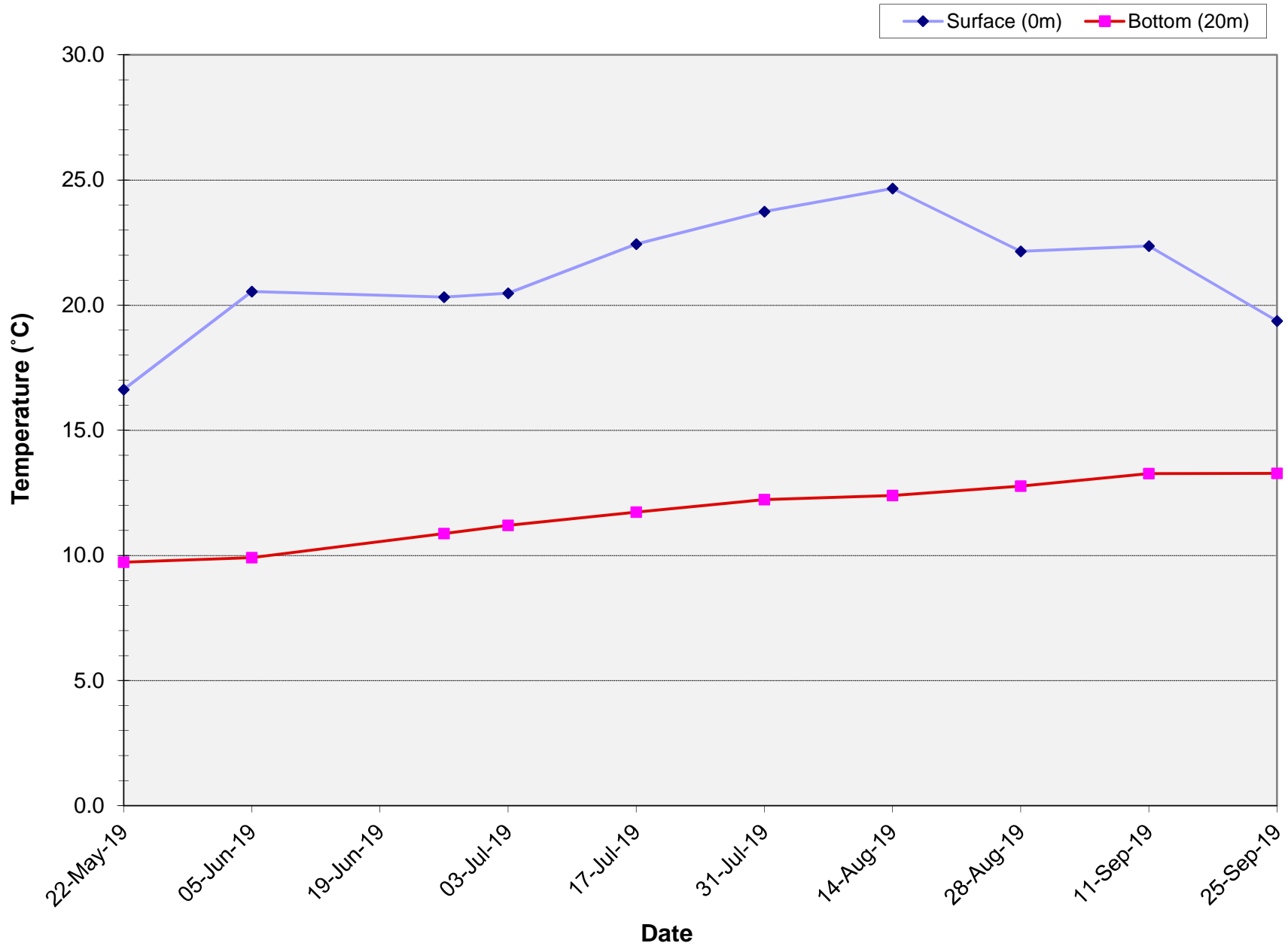
OLWQS, VERTICAL WATER TESTING 2019:

1. Lake sites: South basin, Central basin, White sands, and Packing house.
2. Testing and sampling frequency: Bi-weekly, with the season extended by starting earlier from 22nd May through to 25th September.
3. Water test equipment: Hydrolab HL4 sonde, timer, Secchi disc.

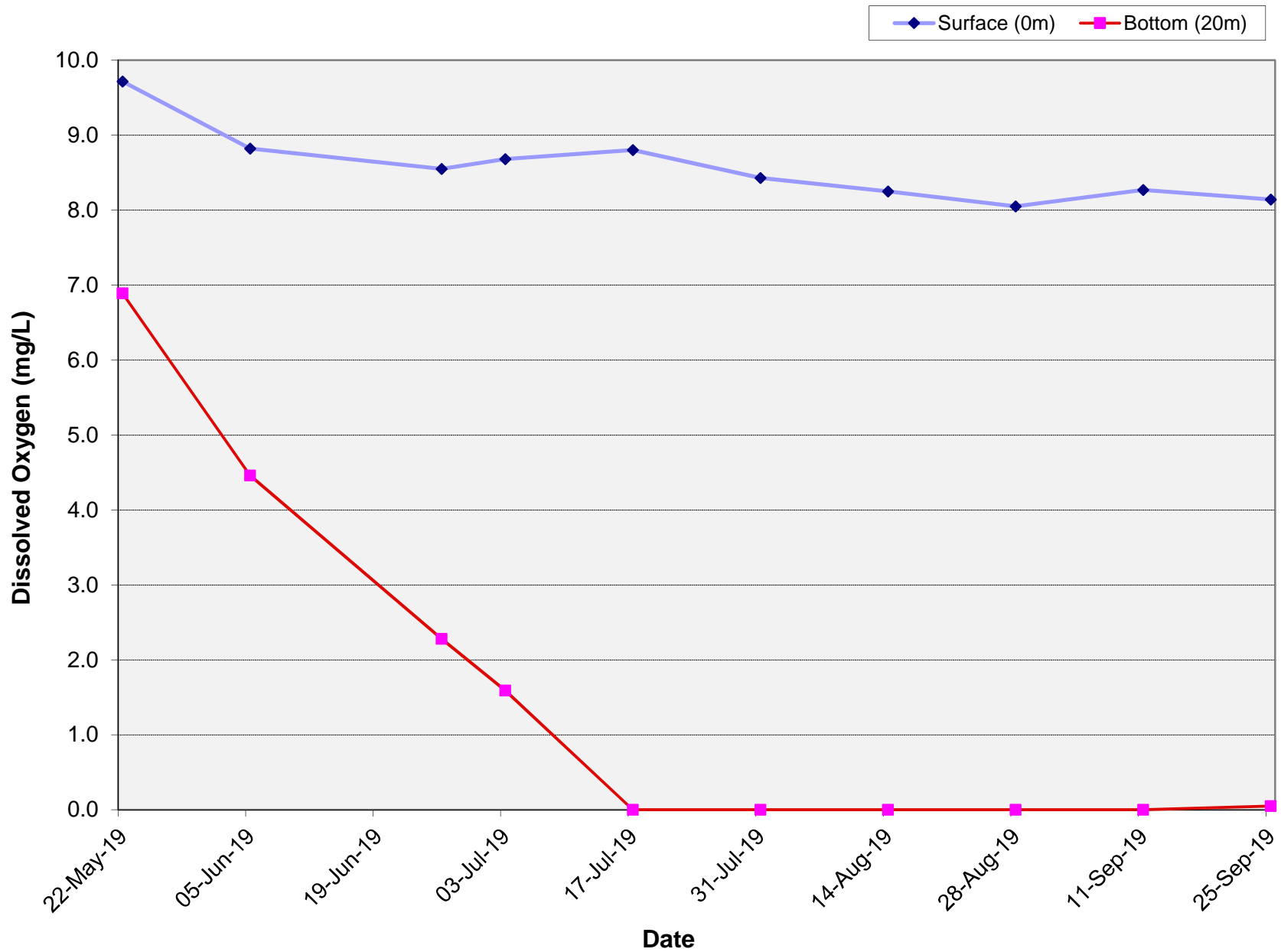
Osoyoos Lake (at South Basin) - Secchi Depth 2019



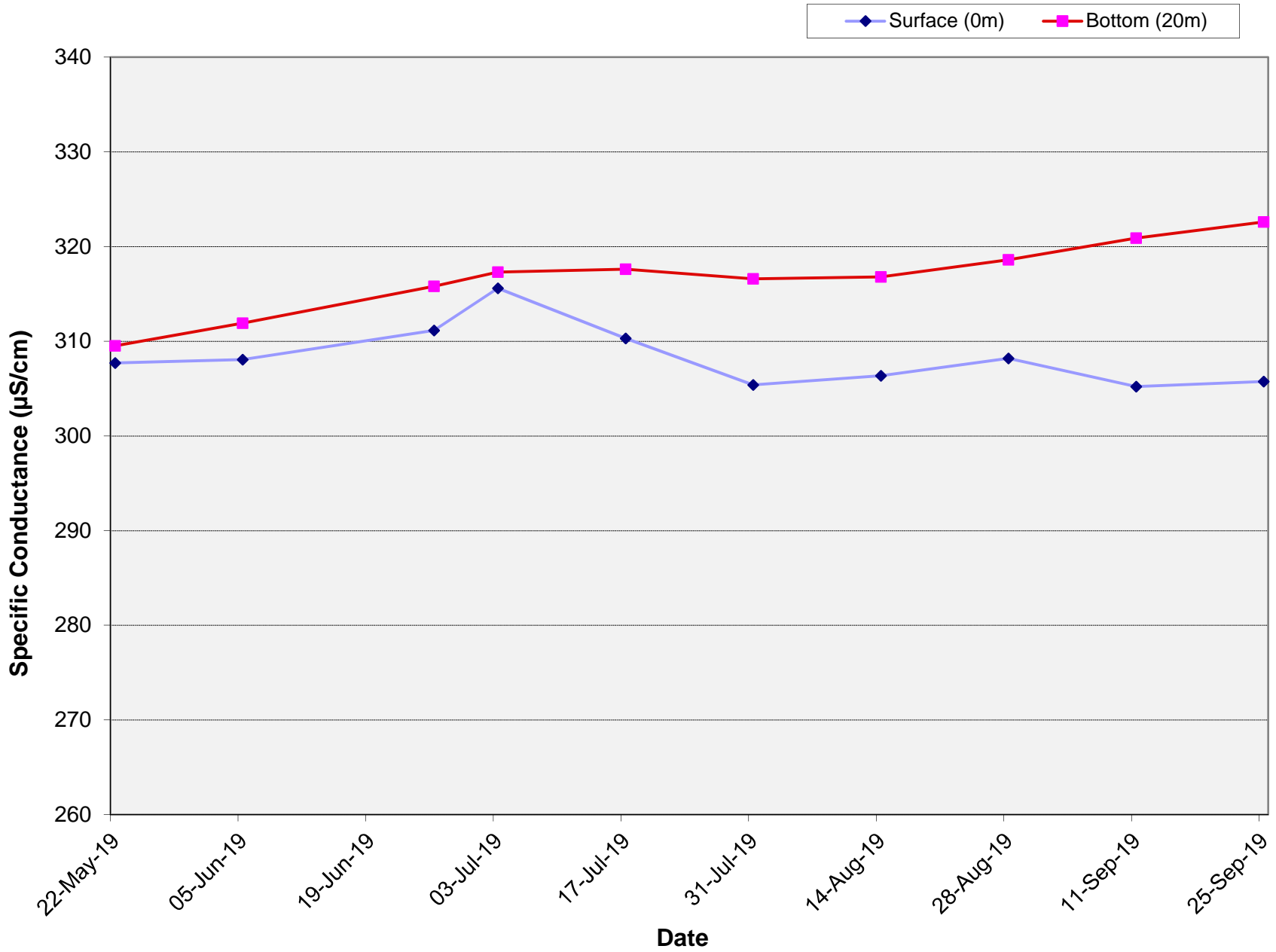
Osoyoos Lake (at South Basin) - Water Temperature 2019



Osoyoos Lake (at South Basin) - Dissolved Oxygen Levels 2019



Osoyoos Lake (at South Basin) - Specific Conductance Data 2019



OLWQS - SOUTH BASIN 2019

DEPTH DATA

Depth (m)

22-May-19	5-Jun-19	26-Jun-19	3-Jul-19	17-Jul-19	31-Jul-19	14-Aug-19	28-Aug-19	11-Sep-19	25-Sep-19
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.97	1.92	1.88	1.99	1.97	2.00	1.95	1.98	2.01	1.99
3.99	3.89	3.85	3.93	3.93	3.88	3.92	3.88	3.92	3.85
5.89	5.82	5.90	5.90	5.90	5.84	5.77	5.80	5.81	5.76
7.98	7.95	7.92	7.96	8.00	7.94	7.89	7.90	7.99	7.93
9.95	9.89	9.90	9.95	9.93	9.94	9.86	9.92	9.96	9.92
11.99	11.87	11.88	11.98	11.94	12.00	11.90	11.86	11.94	11.90
13.8	13.9	13.87	14.00	13.94	13.75	13.91	13.95	13.92	13.90
15.97	15.85	15.64	15.99	15.92	15.95	15.96	15.86	15.97	15.96
17.95	17.92	17.87	18.00	17.95	17.89	17.95	17.91	17.99	17.96
19.96	19.96	19.80	20.00	19.96	19.90	19.90	19.93	20.01	19.97

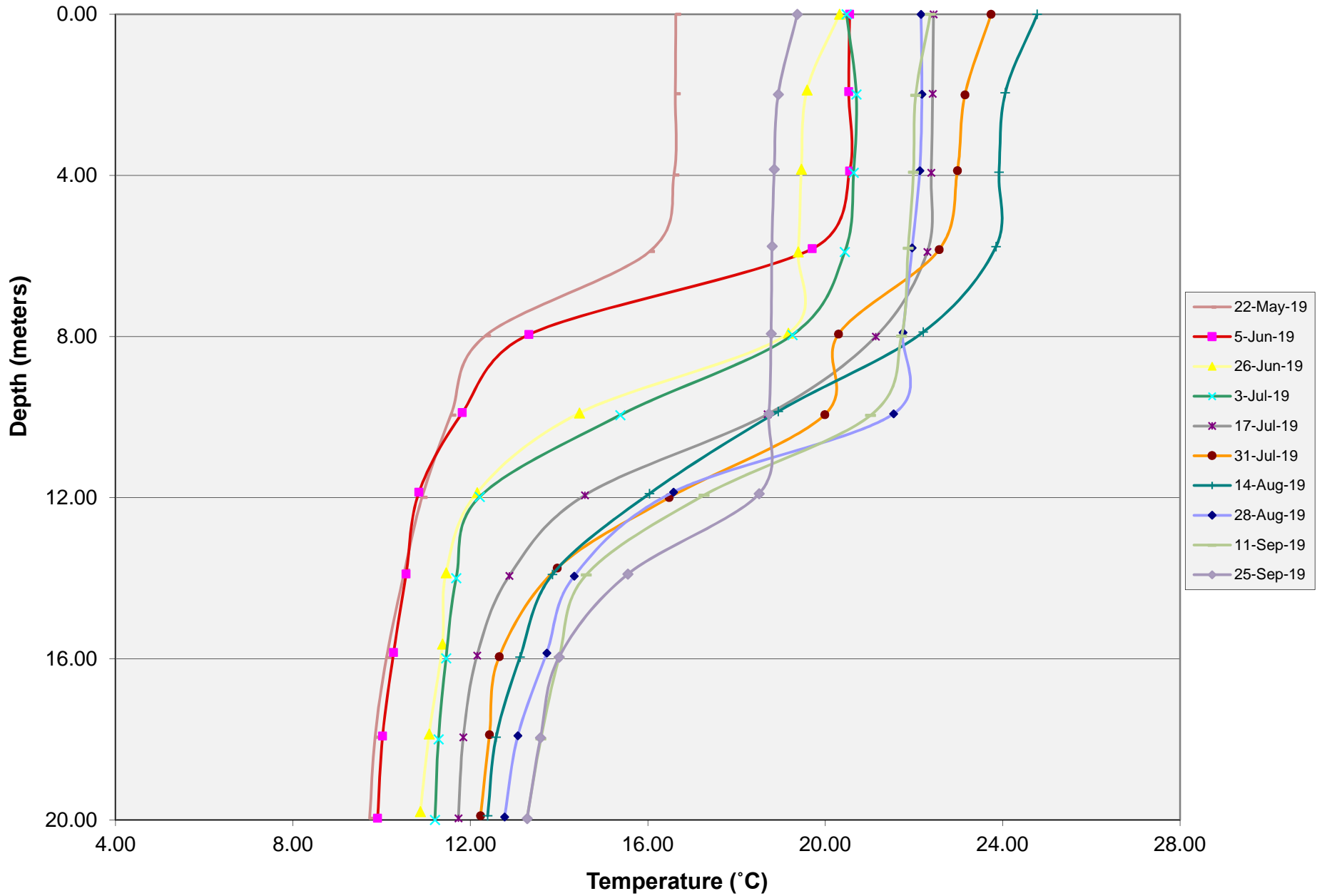
Temperature (°C)

22-May-19	5-Jun-19	26-Jun-19	3-Jul-19	17-Jul-19	31-Jul-19	14-Aug-19	28-Aug-19	11-Sep-19	25-Sep-19
16.63	20.55	20.32	20.48	22.44	23.74	24.78	22.16	22.37	19.37
16.62	20.53	19.59	20.70	22.42	23.15	24.06	22.18	22.04	18.94
16.59	20.55	19.46	20.64	22.39	22.98	23.92	22.13	21.99	18.85
16.04	19.71	19.39	20.44	22.30	22.57	23.85	21.96	21.87	18.80
12.34	13.32	19.17	19.26	21.14	20.30	22.21	21.75	21.72	18.78
11.56	11.82	14.46	15.38	18.70	19.99	18.94	21.54	21.02	18.73
10.91	10.84	12.15	12.21	14.58	16.48	16.04	16.58	17.27	18.51
10.52	10.55	11.45	11.68	12.88	13.96	13.85	14.34	14.61	15.55
10.11	10.27	11.37	11.45	12.15	12.65	13.12	13.72	14.00	14.00
9.85	10.02	11.07	11.28	11.84	12.43	12.58	13.07	13.59	13.58
9.73	9.91	10.87	11.20	11.73	12.23	12.39	12.77	13.27	13.28

Dissolved Oxygen (mg/L)

22-May-19	5-Jun-19	26-Jun-19	3-Jul-19	17-Jul-19	31-Jul-19	14-Aug-19	28-Aug-19	11-Sep-19	25-Sep-19
9.72	8.82	8.56	8.68	8.80	8.43	8.25	8.05	8.27	8.14
9.70	8.84	8.50	8.73	8.78	8.46	8.38	7.96	8.23	8.01
9.62	8.81	8.49	8.70	8.75	8.40	8.35	7.97	8.16	7.73
9.14	8.83	8.46	8.33	8.73	7.85	8.19	7.86	7.97	7.73
8.29	6.78	8.08	7.06	8.00	5.54	5.79	7.78	7.61	7.65
7.94	5.94	4.49	3.55	4.53	4.84	1.64	6.33	3.81	7.75
7.71	5.98	3.32	2.19	1.13	0.44	0.00	0.36	0.01	7.25
7.56	5.65	2.49	1.99	0.57	0.00	0.00	0.00	0.00	0.07
7.33	5.04	2.47	1.71	0.05	0.00	0.00	0.00	0.00	0.00
7.07	4.37	2.34	1.67	0.00	0.00	0.00	0.00	0.00	0.05
6.89	4.46	2.28	1.59	0.00	0.00	0.00	0.00	0.00	0.05

Osoyoos Lake (at South Basin) - Temperature Profiles 2019



Osoyoos Lake (at South Basin) - Oxygen Profiles 2019

