

OLWQS 2020 1 SOUTH BASIN

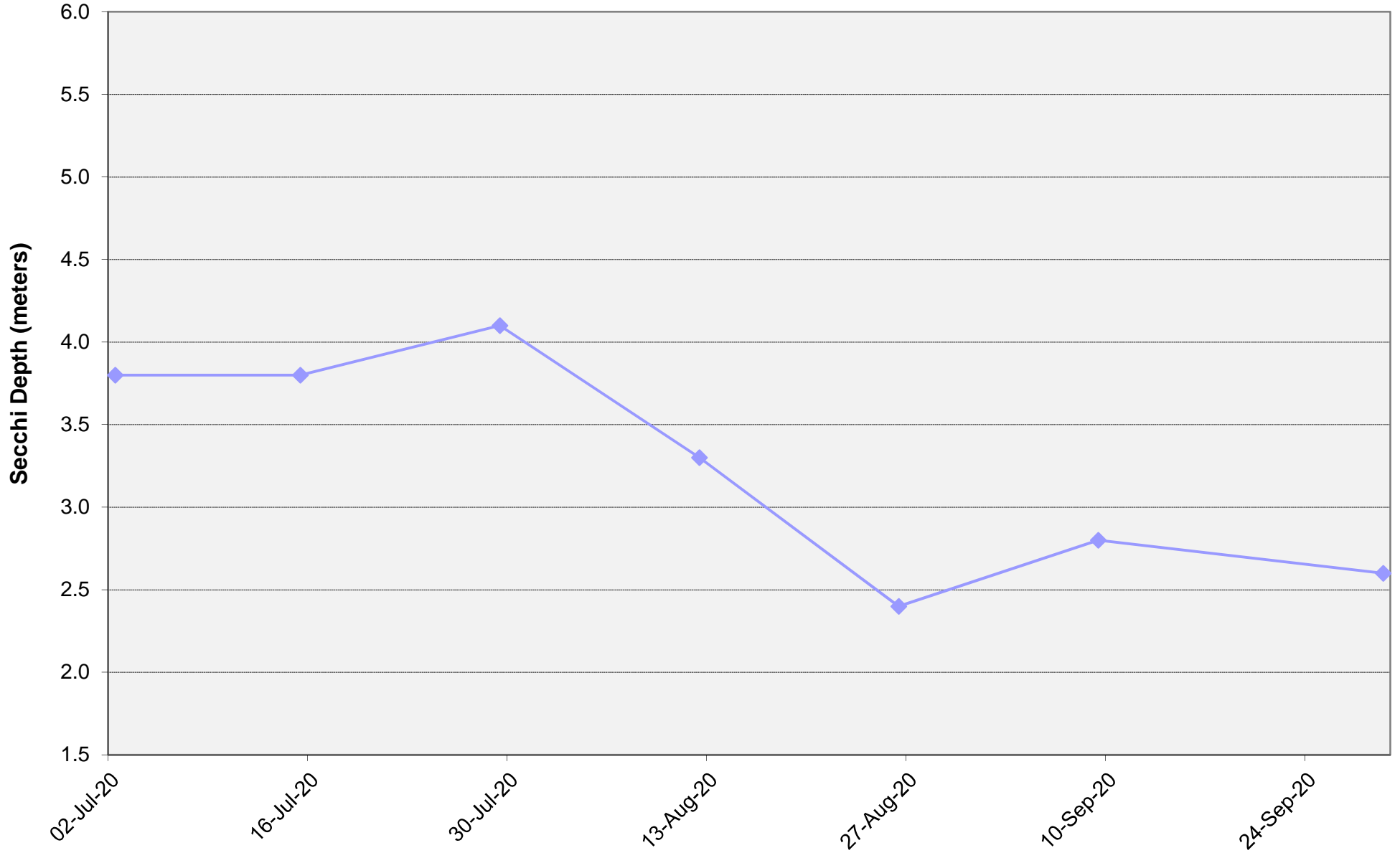
DATA - SOUTH BASIN (Border)- 2020

| 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) | | |
| 2-Jul-20 | 9:11 AM | Broken | S | Light | Light ripple | 16 | 24 | 3.8 | 19.0 | 12.3 | 8.93 | 2.89 | 243.2 | 284.8 | 8.10 | 7.09 | 11.0 | 15.7 | 5.4 | | |
| 15-Jul-20 | 11:06 AM | Scattered | | Calm | Light ripple | 23 | 24 | 3.8 | 22.3 | 13.1 | 9.16 | 2.06 | 248.5 | 280.2 | 8.26 | 7.14 | 11.0 | 16.7 | 4.5 | | |
| 29-Jul-20 | 10:55 AM | Clear | | Calm | Calm | 29 | 24 | 4.1 | 24.6 | 13.6 | 9.12 | 0.55 | 255.1 | 277.1 | 8.34 | 6.89 | 10.5 | 18.9 | 4.6 | | |
| 12-Aug-20 | 10:34 AM | Clear | SE | Moderate | Small waves | 22 | 24 | 3.3 | 22.1 | 14.1 | 8.44 | 0.00 | 259.4 | 276.5 | 8.29 | 6.98 | 11.0 | 17.8 | 2.3 | | |
| 26-Aug-20 | 10:35 AM | Clear | | Calm | Calm | 23 | 24 | 2.4 | 22.2 | 14.7 | 8.21 | 0.00 | 264.4 | 276.5 | 8.28 | 7.05 | 12.0 | 18.3 | 0.8 | | |
| 09-Sep-20 | 10:40 AM | Clear | N | Calm/v light | Light ripple | 18 | 24 | 2.8 | 20.7 | 15.2 | 8.6 | 0.1 | 267.0 | 277.0 | 8.25 | 7.15 | 14.5 | 17.7 | 2.0 | | |
| 29-Sep-20 | 10:41 AM | Clear | | Calm | Light ripple | 16 | 24 | 2.6 | 18.5 | 15.0 | 9.0 | 0.0 | 269.1 | 281.6 | 8.46 | 7.37 | 16.0 | 16.6 | 1.4 | | |
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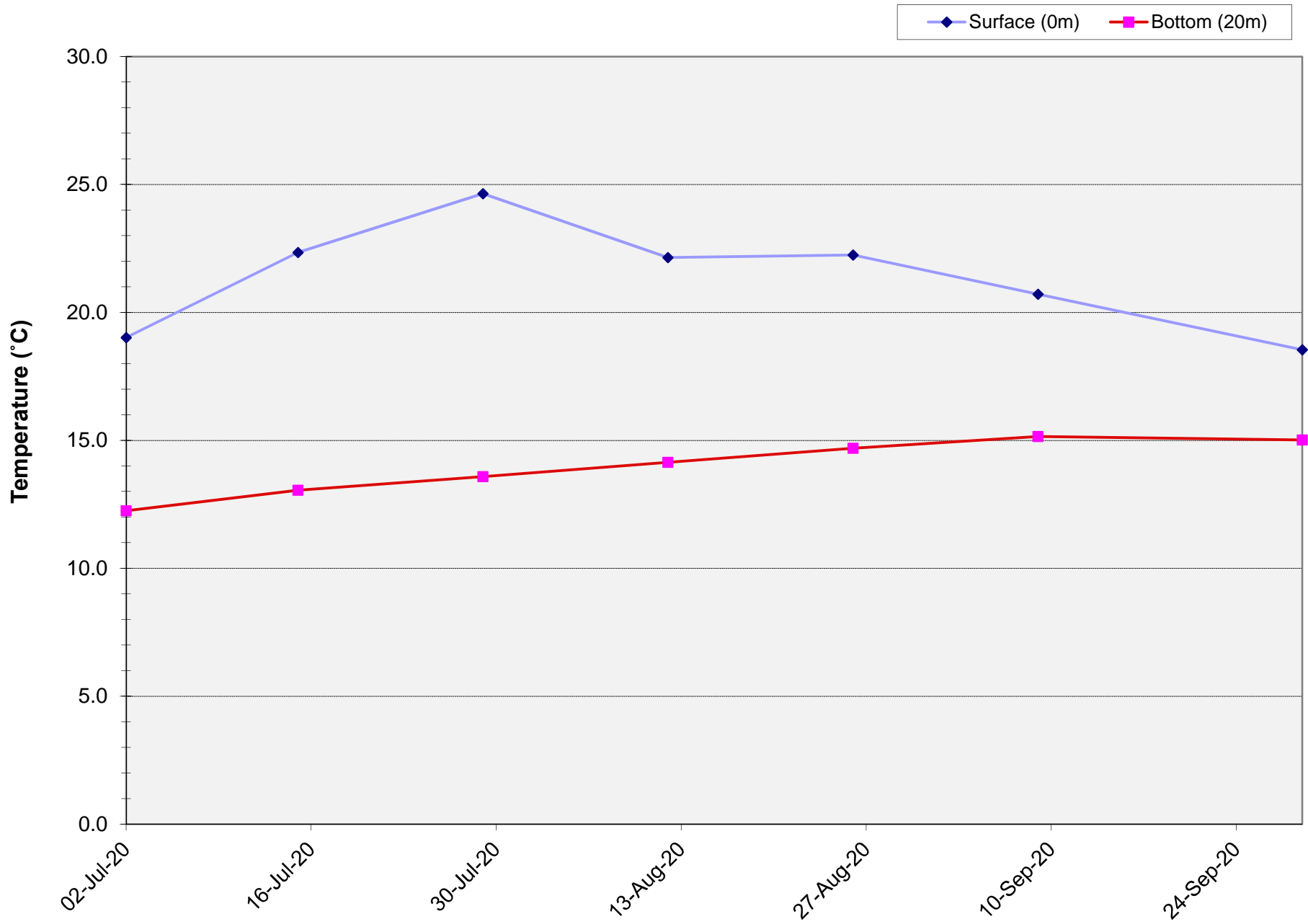
OLWQS, VERTICAL WATER TESTING 2020:

1. Lake sites: South basin, Central basin, White sands, and Packing house.
2. Testing and sampling frequency: Mostly bi-weekly, with the season starting 2nd July through to 29th September 2020.
3. Water test equipment: Hydrolab HL4 sonde, timer, Secchi disc.

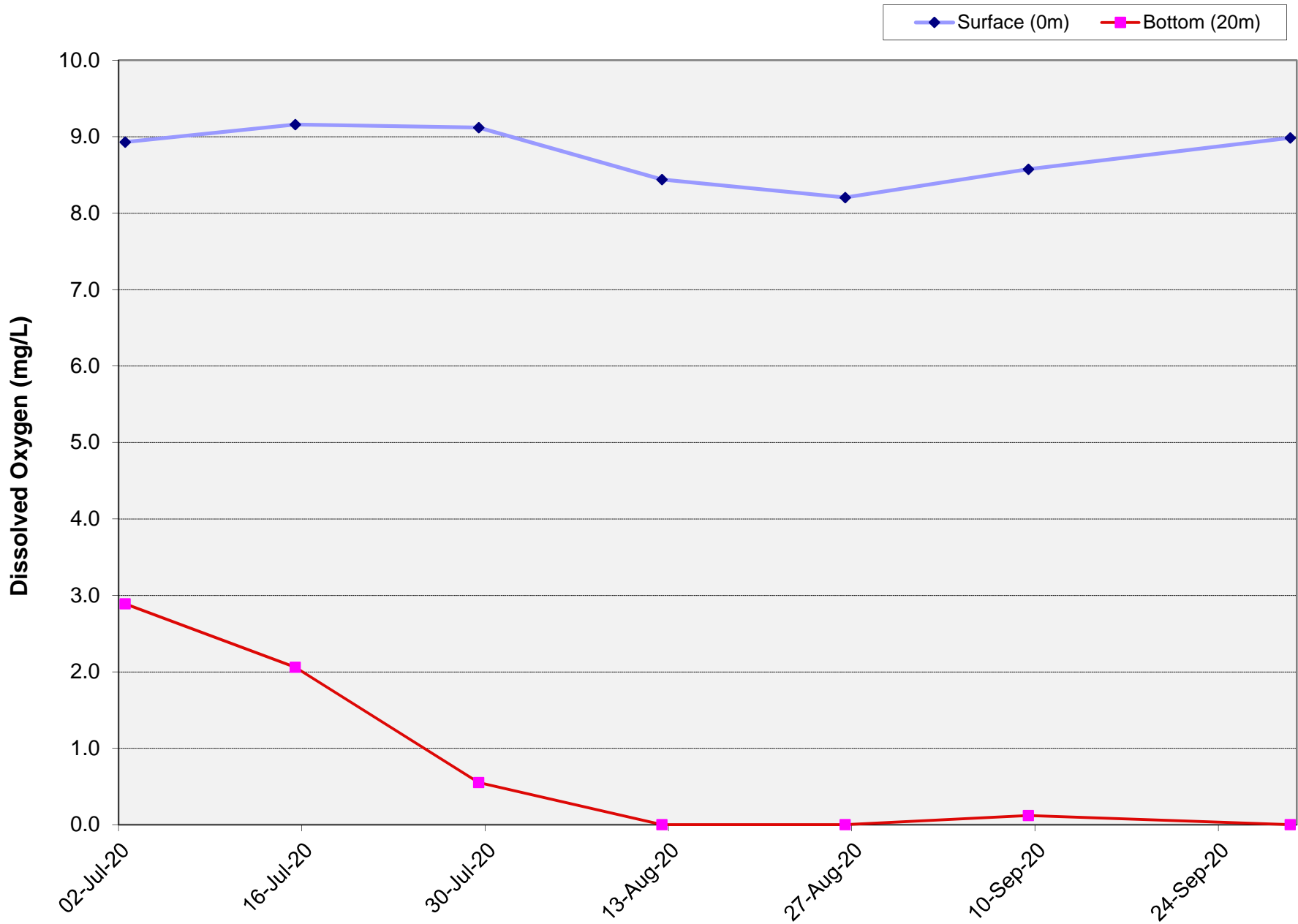
Osoyoos Lake (at South Basin) - Secchi Depth 2020



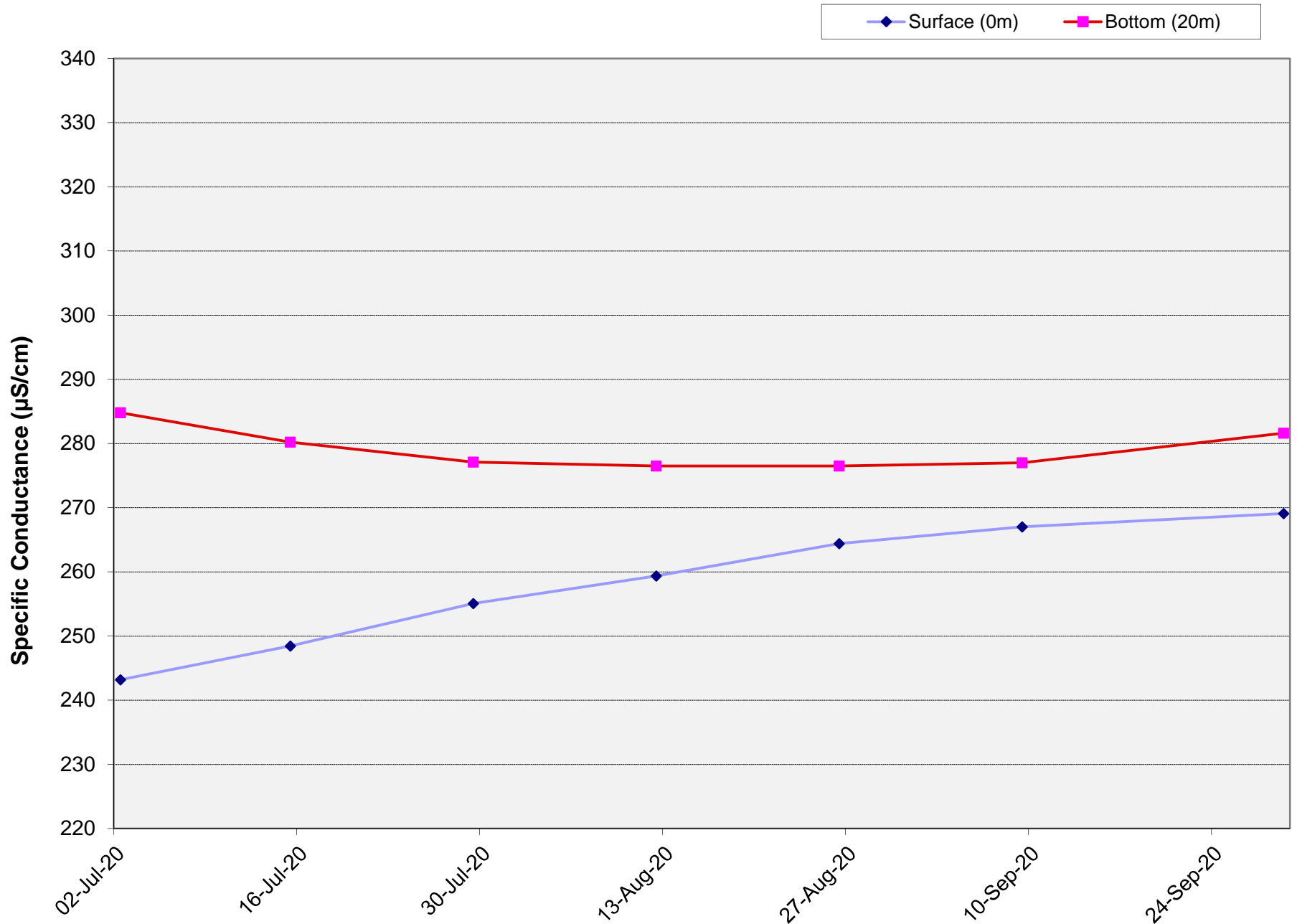
Osoyoos Lake (at South Basin) - Water Temperature 2020



Osoyoos Lake (at South Basin) - Dissolved Oxygen Levels 2020



Osoyoos Lake (at South Basin) - Specific Conductance Data 2020



OLWQS - SOUTH BASIN 2020

DEPTH DATA

Depth (m)

| 2-Jul-20 | 15-Jul-20 | 29-Jul-20 | 12-Aug-20 | 26-Aug-20 | 9-Sep-20 | 29-Sep-20 |
|----------|-----------|-----------|-----------|-----------|----------|-----------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.02 | 1.98 | 2.09 | 1.89 | 2.04 | 2.05 | 2.05 |
| 3.92 | 3.87 | 3.92 | 3.88 | 3.90 | 3.88 | 3.93 |
| 5.78 | 5.76 | 5.75 | 5.39 | 5.68 | 5.74 | 5.73 |
| 7.94 | 7.91 | 8.07 | 7.74 | 7.92 | 7.90 | 7.97 |
| 9.91 | 9.90 | 9.97 | 9.64 | 9.91 | 9.93 | 9.94 |
| 11.88 | 11.91 | 11.82 | 11.96 | 11.92 | 11.96 | 11.92 |
| 13.93 | 13.87 | 13.91 | 13.47 | 13.86 | 13.90 | 13.87 |
| 15.89 | 15.89 | 15.86 | 15.66 | 15.91 | 15.88 | 15.88 |
| 17.91 | 17.91 | 17.91 | 17.15 | 17.92 | 17.94 | 17.93 |
| 19.96 | 19.86 | 19.85 | 20.05 | 19.89 | 19.90 | 19.91 |

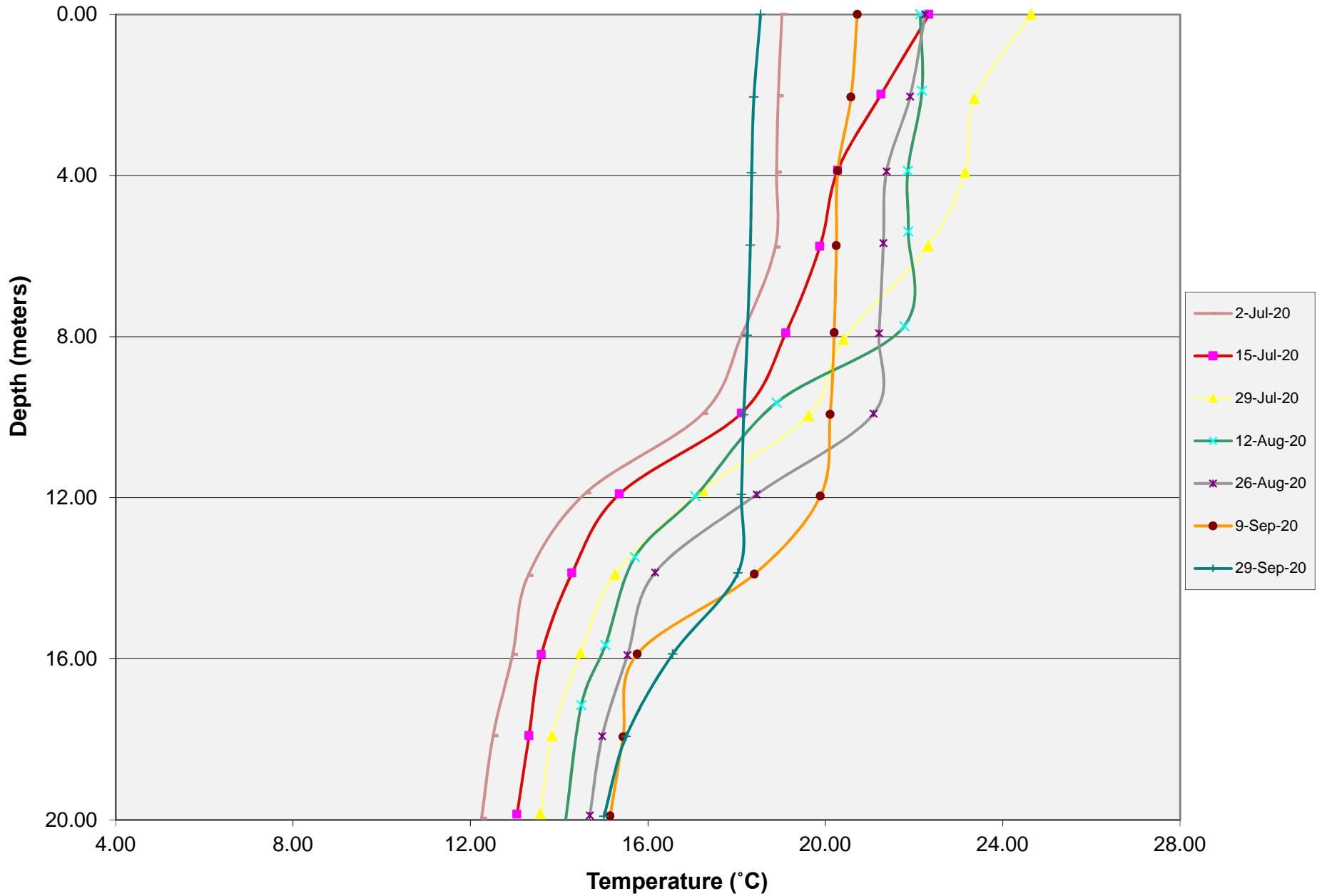
Temperature (°C)

| 2-Jul-20 | 15-Jul-20 | 29-Jul-20 | 12-Aug-20 | 26-Aug-20 | 9-Sep-20 | 29-Sep-20 |
|----------|-----------|-----------|-----------|-----------|----------|-----------|
| 19.02 | 22.34 | 24.64 | 22.14 | 22.25 | 20.72 | 18.54 |
| 18.94 | 21.26 | 23.36 | 22.18 | 21.91 | 20.58 | 18.39 |
| 18.90 | 20.28 | 23.15 | 21.86 | 21.38 | 20.28 | 18.34 |
| 18.87 | 19.88 | 22.32 | 21.87 | 21.31 | 20.25 | 18.31 |
| 18.12 | 19.11 | 20.41 | 21.78 | 21.21 | 20.20 | 18.24 |
| 17.24 | 18.11 | 19.62 | 18.90 | 21.09 | 20.11 | 18.16 |
| 14.60 | 15.36 | 17.23 | 17.07 | 18.45 | 19.89 | 18.11 |
| 13.30 | 14.29 | 15.26 | 15.71 | 16.16 | 18.40 | 18.03 |
| 12.95 | 13.60 | 14.48 | 15.04 | 15.54 | 15.76 | 16.56 |
| 12.51 | 13.32 | 13.84 | 14.50 | 14.97 | 15.44 | 15.51 |
| 12.25 | 13.05 | 13.58 | 14.14 | 14.69 | 15.15 | 15.01 |

Dissolved Oxygen (mg/L)

| 2-Jul-20 | 15-Jul-20 | 29-Jul-20 | 12-Aug-20 | 26-Aug-20 | 9-Sep-20 | 29-Sep-20 |
|----------|-----------|-----------|-----------|-----------|----------|-----------|
| 8.93 | 9.16 | 9.12 | 8.44 | 8.21 | 8.58 | 8.99 |
| 8.85 | 9.35 | 9.22 | 8.30 | 8.15 | 8.36 | 8.99 |
| 8.79 | 9.10 | 9.07 | 7.86 | 7.53 | 7.86 | 8.82 |
| 8.68 | 8.57 | 8.59 | 7.98 | 7.44 | 7.84 | 8.74 |
| 7.83 | 7.53 | 6.59 | 7.59 | 7.35 | 7.71 | 8.50 |
| 6.73 | 6.03 | 5.36 | 4.18 | 6.72 | 7.62 | 8.37 |
| 4.42 | 2.88 | 2.90 | 0.98 | 0.89 | 7.03 | 8.29 |
| 3.51 | 2.22 | 1.10 | 0.00 | 0.00 | 2.68 | 8.17 |
| 3.32 | 1.95 | 0.74 | 0.00 | 0.00 | 0.00 | 1.31 |
| 3.04 | 1.84 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.89 | 2.06 | 0.55 | 0.00 | 0.00 | 0.12 | 0.00 |

Osoyoos Lake (at South Basin) - Temperature Profiles 2020



Osoyoos Lake (at South Basin) - Oxygen Profiles 2020

