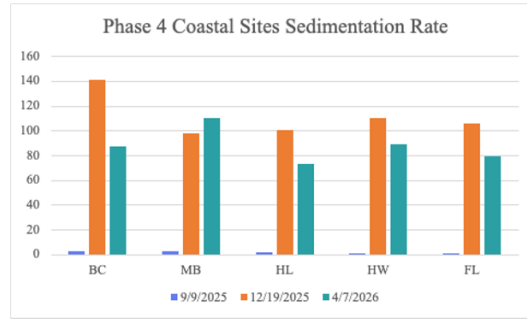
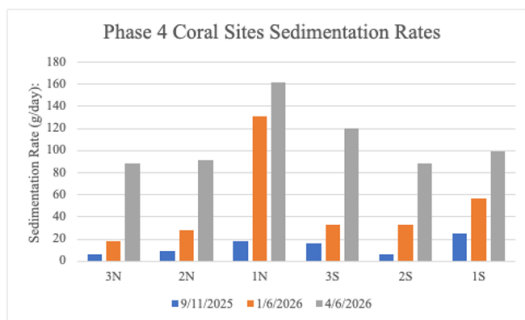
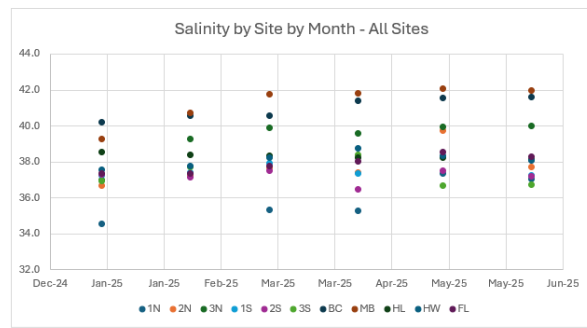
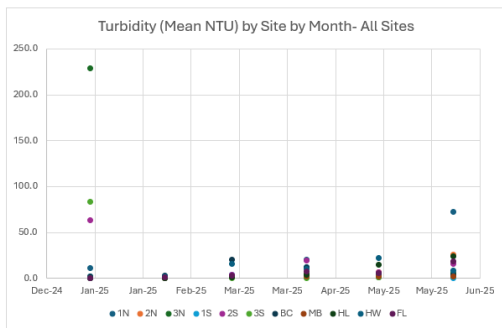
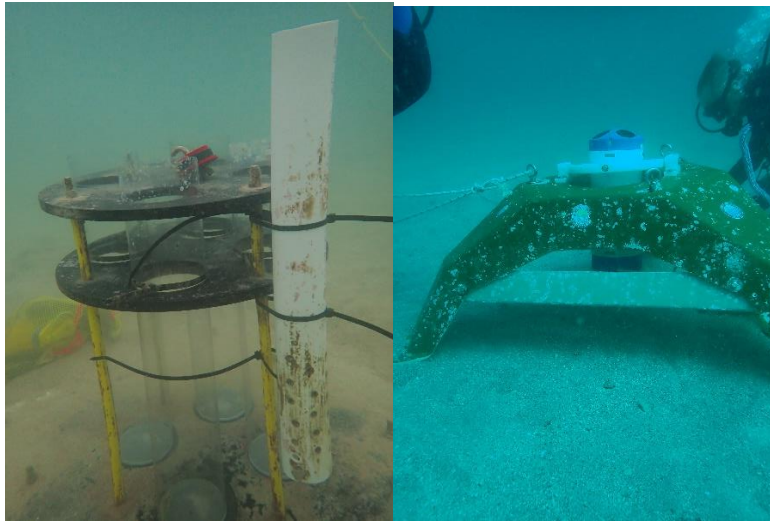


Abiotic Influences Along Southeast Florida Coral Reef Communities II



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Final Report

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Management Summary

Statistical analyses of Phase 3 (DEP C3D233) abiotic data (July 2024–May 2025) from coral reef and coastal sites in Southeast Florida examined temperature, salinity, dissolved oxygen (DO), pH, turbidity, pressure, and sedimentation. Sedimentation was highest at 1N and lowest at 3N/2S, peaking (~417 g/day) in Fall 2024. Temperature showed strong seasonality (~22°C winter to ~30°C summer), while salinity was higher at coastal sites and lower nearshore likely due to freshwater input. DO decreased with warming, pH was mostly stable but lower nearshore, and turbidity was generally low with brief offshore spikes. Sedimentation was strongly inversely correlated with salinity indicating higher deposition during freshwater influence.

During July 2025–May 2026, sedimentation showed strong spatial variability, initially lowest at 3N and highest at 1S, then increasing over time with 1N becoming a persistent hotspot (~130–162 g/day). Coastal sites showed a seasonal pattern, with a fall peak at BC (~140.82 g/day), winter–spring decline, and later dominance by MB, while HL remained lowest.

Across reef and coastal sites, abiotic conditions showed strong seasonal forcing, with warm summers (~29–33°C), cooler winters (~21–25°C), and consistent spatial patterns (offshore more stable, nearshore more variable). pH increased seasonally and was higher offshore (3N, MB, HL), while DO follow temperature trends, decreasing in summer and increasing in winter. Turbidity showed episodic spikes, highest at nearshore reef sites (1N, 1S) and coastal BC/HW, while salinity showed strong spatial gradients with offshore sites (3N, MB) stable and highest. Pressure remained stable and depth controlled.

These findings help identify environmental threats to Florida’s Coral Reef by linking water quality and sedimentation to coral stress. They show how chronic and acute stressors (turbidity, sedimentation) affect coral physiology and provide baseline conditions for detecting disturbance, assessing restoration, and evaluating climate and environmental impacts.

Executive Summary (1 page max)

Statistical analyses of Phase 3 (DEP C3D233) data (July 2024–May 2025) examined relationships between abiotic parameters (turbidity, pH, temperature, salinity, dissolved oxygen) and sedimentation across coral reef (1N–3N, 1S–3S) and coastal (BC, MB, HL, HW, FL) sites in Southeast Florida. Sedimentation showed the greatest variability, with highest rates at 1N (peaking ~417 g/day) and lowest at offshore sites such as 3N. Strong seasonal patterns were observed in temperature (~22°C winter to ~30°C summer), with corresponding declines in dissolved oxygen, while salinity showed clear spatial gradients driven by freshwater input (higher at MB/BC, lower nearshore). pH remained relatively stable but was lower at nearshore sites, and turbidity was generally low except for episodic offshore spikes (~100 NTU). Correlation analysis revealed a strong inverse relationship between sedimentation and salinity, indicating higher sedimentation under freshwater influence; other relationships were weak or inconsistent, suggesting dominant seasonal forcing and episodic disturbance rather than stable inter-variable coupling.

Abiotic data (turbidity, pH, temperature, salinity, and dissolved oxygen) from AquaTroll 600 sondes and sedimentation rates were collected at coral reef (1N–3N, 1S–3S) and coastal (BC, MB, HL, HW, FL) sites in Southeast Florida from July 2025–May 2026. Across coral reef sites, sedimentation showed strong spatial and temporal variability, increasing over time from low–moderate rates (5.49–24.60 g/day) to much higher values, with 1N emerging as a persistent hotspot (up to ~130–162 g/day). Other sites (2N, 3N, 2S, 3S) also showed progressive increases, indicating a system-wide intensification of sediment deposition. Abiotic conditions were strongly seasonal, with temperatures ranging from warm summer conditions (~29–31°C) to winter lows (~21–24°C), relatively stable but offshore-elevated pH, and dissolved oxygen following seasonal temperature trends. Salinity was highest and most stable offshore (3N) and more variable nearshore likely due to freshwater inputs. Turbidity exhibited strong spatial and temporal heterogeneity, with episodic storm- and runoff-driven spikes most pronounced at nearshore sites (1N, 1S) and comparatively stable conditions offshore (3N), reflecting strong hydrodynamic gradients across the reef system. Across coastal sites, sedimentation was strongly seasonal, peaking in fall (BC up to ~140 g/day) before declining through winter–spring and shifting in dominance among sites (often MB highest during later periods and HL generally lowest). Overall, sediment loads increased during peak disturbance periods, consistent with storm, runoff, and hydrodynamic forcing across the system. Abiotic conditions also showed clear seasonal structure: temperatures declined from summer highs (~32–33°C) to winter lows (~21–25°C) before rebounding in spring; pH gradually increased over time; dissolved oxygen decreased during warmer summer months and increased in winter; and turbidity was highly variable with pronounced spikes at BC and HW. Salinity exhibited strong spatial gradients, with MB and BC generally highest and most stable, HW most variable, and FL showing a late-stage increase. Pressure remained stable and depth dependent across all sites.

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Table 39. Weekly averages data logged from site 3S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 40. Monthly averages data logged from site 3S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 41. Quarterly averages data logged from site 3S over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 42. Daily averages data logged from site Fort Lauderdale (FL) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 43. Weekly averages data logged from site Fort Lauderdale (FL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 44. Monthly averages data logged from site Fort Lauderdale (FL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 45. Quarterly averages data logged from site Fort Lauderdale (FL) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 46. Daily averages data logged from site Hollywood (HW) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 47. Weekly averages data logged from site Hollywood (HW) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 48. Monthly averages data logged from site Hollywood (HW) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 49. Quarterly averages data logged from site Hollywood (HW) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 50. Daily averages data logged from site Haulover (HL) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 51. Weekly averages data logged from site Haulover (HL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 52. Monthly averages data logged from site Haulover (HL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 53. Quarterly averages data logged from site Haulover (HL) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 54. Daily averages data logged from site Miami Beach (MB) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 55. Weekly averages data logged from site Miami Beach (MB) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 56. Monthly averages data logged from site Miami Beach (MB) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 57. Quarterly averages data logged from site Miami Beach (MB) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 58. Daily averages data logged from site Biscayne (BC) over the period 07/01/25 – 04/17/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 59. Weekly averages data logged from site Biscayne (BC) over the period June 2025 – April 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Table 60. Monthly averages data logged from site Biscayne (BC) over the period June 2025 – April 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Table 61. Quarterly averages data logged from site Biscayne (BC) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

List of Acronyms

1N (Reef North Location 1)
2N (Reef North Location 2)
3N (Reef North Location 3)
1S (Reef South Location 1)
2S (Reef South Location 2)
3S (Reef South Location 3)
FL (Fort Lauderdale)
HW (Hollywood)
HL (Haulover)
MB (Miami Beach)
BC (Biscayne)
3N ADCP (Reef North Location 3 with ADCP)
MB ADCP ((Miami Beach with ADCP)

1. INTRODUCTION

Protecting endangered coral reef communities is of critical environmental and economic importance, particularly in regions such as South Florida where reefs underpin both biodiversity and coastal economies. Healthy coral reef ecosystems provide essential habitat for nearly half of all federally managed fisheries and support substantial economic activity through tourism and recreation (Riegl and Dodge, 2008). However, coral reef persistence is strongly influenced by a complex suite of environmental stressors, including variability in temperature, salinity, dissolved oxygen, pH, turbidity, and nutrient availability (Riegl et al., 2009; Hay and Rasher, 2010). To effectively protect and restore these vulnerable ecosystems, it is essential to integrate high-resolution oceanographic and hydrodynamic data into monitoring and management frameworks. Continuous measurements of water column properties, coupled with current velocity and direction data, provide critical insight into the physical processes that regulate sediment resuspension, contaminant dispersal, and thermal stress exposure. These data enable the identification of spatial and temporal patterns in environmental conditions that influence coral health, resilience, and recovery potential. By incorporating oceanographic monitoring and current profiling into coral protection and restoration efforts, managers can better predict stress events, assess anthropogenic impacts, and optimize site selection and timing for restoration activities, ultimately enhancing the long-term success of coral reef conservation initiatives.

1.1 Statistics (abiotic data)

Statistical analyses and correlation assessments of Phase 3 (DEP C3D233) abiotic parameters, including turbidity, pH, temperature, salinity, and dissolved oxygen, provide a framework for characterizing and identifying potential threats to Florida's Coral Reef communities. By linking these variables to broader oceanographic and environmental conditions such as sedimentation rates, conductivity (salinity), pressure, and water quality dynamics, this approach enhances our ability to interpret ecosystem change. Furthermore, it supports evidence-based mapping of the impacts of chronic and acute stressors (e.g., turbidity and sedimentation) on coral physiological function and reproductive capacity. Continuous monitoring of these abiotic factors establishes critical baseline conditions, enabling the detection of disturbances and facilitating comparisons across disturbance events, restoration efforts, and recovery trajectories. This approach also aids in evaluating the influence of climate-related stressors and other harmful environmental co-factors on reef health.

Since water quality is affected by complex environmental and anthropogenic factors and weather events, its continuous sampling and monitoring is of critical importance to coral health. This information can be valuable for implementing targeted management and remediation strategies to mitigate sediment pollution and evaluate any

future changes that might occur due to environmental changes and/or anthropogenic influences.

1.2 Sedimentation and Abiotic data at Six Coral Reef and Five Coastal Sites

Coral reefs are among the most diverse and productive ecosystems on Earth, providing essential habitat for marine species and protecting coastlines from erosion and storm damage (Odum & Odum, 1955; Moberg & Folke, 1999). However, they are increasingly threatened by environmental stressors such as sedimentation, turbidity, temperature, pH, salinity, and dissolved oxygen.

Sedimentation occurs when particles settle out of the water and accumulate on the seafloor. Excessive sedimentation can smother corals, block sunlight needed for photosynthesis, and disrupt feeding and reproduction (Duckworth et al., 2017; Tuttle et al., 2020; Roger & Ramos-Scharron, 2022). These sediments originate from natural erosion as well as human activities like coastal development, agriculture, and dredging. Sediment can cover coral colonies, reduce light penetration, and limit the photosynthetic activity of symbiotic algae (zooxanthellae), ultimately weakening coral health and growth (Rogers, 1990; Junjie et al., 2014; Jones et al., 2019; López-Londoño et al., 2021). It can also damage coral tissue, increase susceptibility to disease and predation, and reduce long-term resilience (Riegl, 1995; Jones et al., 2020). Over time, sediment buildup can alter reef structure, reducing spaces important for recruitment and habitat (Tuttle et al., 2020).

Turbidity refers to water cloudiness caused by suspended particles such as sediment, organic matter, and plankton. High turbidity reduces light availability, limiting photosynthesis and energy production in corals. It can also disrupt environmental cues that trigger synchronized spawning, reducing reproductive success (Jones et al., 2015). Additional impacts include decreased fertilization, larval settlement, and survival (Babcock & Smith, 2002; Ricardo et al., 2015). Turbidity can shift reef community composition by favoring species tolerant of low-light conditions while disadvantaging others (Jordán-Garza et al., 2017).

Temperature, pH, and dissolved oxygen are also critical to coral health. Elevated temperatures can cause coral bleaching, where corals expel their symbiotic algae, lose their primary food source, and become more vulnerable to disease and mortality (Kleppel et al., 1989; Palmer et al., 2011; Ward et al., 2007). Temperature also affects growth, reproduction, and spawning timing, with excessive heat reducing coral performance (Rodolfo-Metalpa et al., 2007; Crabbe, 2008; Keith et al., 2016). Rising temperatures further intensify ocean acidification (lower pH), which reduces the ability of corals to build calcium carbonate skeletons (Anthony et al., 2008).

Temperature strongly influences dissolved oxygen (DO) levels, as warmer water holds less oxygen. Thermal stratification can further limit oxygen mixing, creating low-

oxygen conditions in deeper waters (Garcia-Soto et al., 2021). Reduced DO can stress or suffocate corals, especially during high metabolic demand or bleaching events (Nelson & Altieri, 2019). Warmer temperatures also increase metabolic rates and oxygen consumption, while decomposition of organic matter further depletes oxygen (Gillooly et al., 2001).

Turbidity and temperature can indirectly reduce dissolved oxygen. Lower light levels reduce photosynthesis and oxygen production, while increased organic matter decomposition consumes oxygen and raises carbon dioxide levels. Turbid conditions can also limit gas exchange between water and the atmosphere (Schmidt et al., 2019). These processes can lead to hypoxic or anoxic conditions, harming marine life and reducing biodiversity (Hughes et al., 2020). Even low levels of organic-rich sediment (0.3%) can trigger anoxia and coral mortality within 15–48 hours (Weber et al., 2012). Salinity is another key factor influencing coral health. Changes in salinity from rainfall or drought can stress corals, increasing susceptibility to disease and bleaching (Coles & Jokiel, 1992; Ding D-S et al., 2022). Salinity affects water density and circulation which control the delivery of nutrients and oxygen to reef systems (Smyth & Elliott, 2016). Corals rely on stable salinity for osmoregulation, and fluctuations can cause physiological stress (Dias et al., 2019). Variations in salinity can also shift community composition, sometimes favoring algae over corals and reducing reef diversity (Vieira et al., 2016). Understanding how these environmental factors interact is essential for assessing the impacts of climate change and human activities on coral reefs and for developing effective conservation and management strategies.

2. METHODOLOGY

Permits for sediment collection and placement of sediment traps with sondes were provided by Broward County (Environmental Resource License # DF24-1103), Department of Regulatory and Economic Resources (Miami-Dade County) (# EAA2024-0018), and Florida Department of Environmental Protection (# 06-427980-001,002-EE and 13-0447895-001-EE). Permits for acoustic Doppler current profilers were provided by Broward County (Environmental Resource License # DF25-1342) and Miami Dade County (# EAA2026-0026).

2.1 Statistics

Statistical analyses were conducted in R v. 4.4.0 (2024 release), IBS SPSS 29 (2022 release), and in Microsoft Excel 365 Version 2504 (2025 release). Statistical significance was determined as $p < 0.05$. Pearson and Spearman Rank-Correlations using medians of non-parametric data were performed. Statistical analyses were performed on the abiotic data (turbidity, pH, pressure, temperature, salinity, and dissolved oxygen levels) and sedimentation rates at 6 coral reef and 5 coastal sites from Phase 3 (DEP C3D233).

2.2 Sedimentation Rates

Sediment was collected from 11 sediment traps (Fig. 1) every 2-3 months by the dive team at six reef sites approximately 1.5 km north (1N, 2N, 3N) and south (1S, 2S, 3S) of the inlet to Port Everglades and at five coastlines locations along the (FL, HW, HL, MB, and BC) north and south of Port Everglades (Fig. 2 and Table 1). The sediments were placed in 5-gallon bucket for the total weight per sediment trap and sedimentation rates were calculated as grams per day.



Figure 1. Constructed platform with ST-30 sediment trap and AquaTroll 600 sonde.

Table 1. Locations and depth of sediment traps and AquaTroll 600 sondes in latitude and longitude.

Location	<u>LatDD</u>	<u>LonDD</u>
1N	26.11003	-80.10068
2N	26.11012	-80.09828
3N	26.11085	-80.09067
1S	26.07578	-80.10707
2S	26.07465	-80.09805
3S	26.07447	-80.09432
FL	26.145271	-80.09744
HW	26.0325	-80.10375
HL	25.914417	-80.107883
MB	25.789826	-80.104443
BC	25.707632	-80.128603
3N ADCP	26.11085°	-80.09067°
MB ADCP	25.78978°	-80.10708°

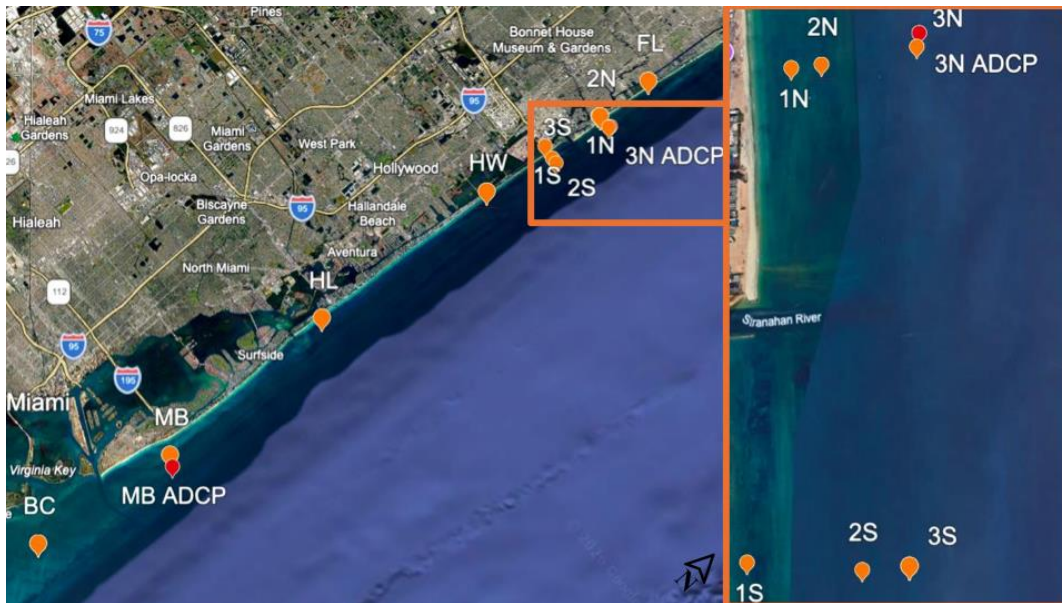


Figure 2. Coastal South Florida (Fort Lauderdale/Miami) map of the existing deployed sediment traps and sensor locations. North Coral Reef Tract 1 (1N), North Coral Reef Tract 2 (2N), North Coral Reef Tract 3 (3N), South Coral Reef Tract 1 (1S), South Coral Reef Tract 2 (2S), South Coral Reef Tract 3 (3S), Fort Lauderdale (FL), Hollywood (HW), Haulover (HL), Miami Beach (MB), and Biscayne (BC).

2.3 Collection of Abiotic Data from AquaTroll 600 Sondes and Calibrations

In-Situ AquaTroll 600 multiparameter sondes outfitted with temperature, conductivity (salinity), pressure, dissolved oxygen, pH, and turbidity sensors were mounted on anchored platforms at six reef sites (1N, 2N, 3N, 1S, 2S, 3S) and at five coastal locations (FL, HW, HL, MB, and BC) north and south of Port Everglades (Fig. 1 and Table 1). Water chemistry data, including temperature, conductivity (salinity), pressure, dissolved oxygen, pH, and turbidity, were recorded hourly by each of the 11 sondes. Sonde sensors were calibrated and data downloaded to an Android phone every 1-2 months. All calibrations were performed according to the standard quality assurance plan for DEP agreement. The data were then extracted into Excel spreadsheets.

2.4 Acoustic Doppler Current Profilers Deployments

Teledyne acoustic Doppler current profilers were deployed at 3N ADCP in April 2026 and MB ADCP is being deployed in June 2026 (Figure 2).

3. RESULTS/DISCUSSION

3.1 Statistical Analysis Abiotic Data (temperature, conductivity (salinity), pressure, dissolved oxygen, pH, and turbidity) and Sedimentation Rates at Coral Reef (1N, 2N, 3N, 1S, 2S, and 3S) and Coastal Locations (BC, MB, HL, HW, and FL) from July 2024-June 2025.

For statistical purposes, all coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and coastal (BC, MB, HL, HW, and FL) locations abiotic data and sedimentation rates from Phase 3 2025 (DEP C3D233) were averaged by month, as monthly values provided the most reliable basis for evaluation compared to daily or quarterly data as observed before (Hirons et al., 2025). Plots of the mean values for temperature, conductivity (salinity), pressure, dissolved oxygen, pH, and turbidity across three time periods for the coral sites (July – September 2024, September – November 2024, and November 2024-May 2025) and over one period (December 2024-June 2025) for the coastal sites are shown in Figures 3–22.

From July to September 2024, sedimentation rates at the coral sites were highest at site 1N (~26 g/day) and lowest at site 3N (~2 g/day). Sites 1N and 1S showed consistently higher sedimentation during this initial period, a pattern that continued in later intervals. Temperature was generally similar across sites, with a slight increase at 3N. Salinity remained relatively uniform, with slightly higher values at 3N and 1S. Pressure varied moderately, with the highest values observed at 2N and 3S. Dissolved oxygen and pH were stable across all sites. In contrast, turbidity was highest at site 3S (~103 NTU), suggesting increased suspended particles or localized sediment resuspension (Figure 3).

From September to November 2024, sedimentation rates at the coral sites were substantially higher than all other measured parameters. The highest values occurred at site 1N (~417 g/day), while the lowest were recorded at site 2S (~212 g/day). Temperature, salinity, and pressure showed moderate variation among sites but remained within similar overall ranges. In contrast, dissolved oxygen, pH, and turbidity (1.91 NTU at 3N to 14.5 NTU at 1S) were low and relatively consistent across all sites, indicating stable water quality conditions during this period (Figure 4).

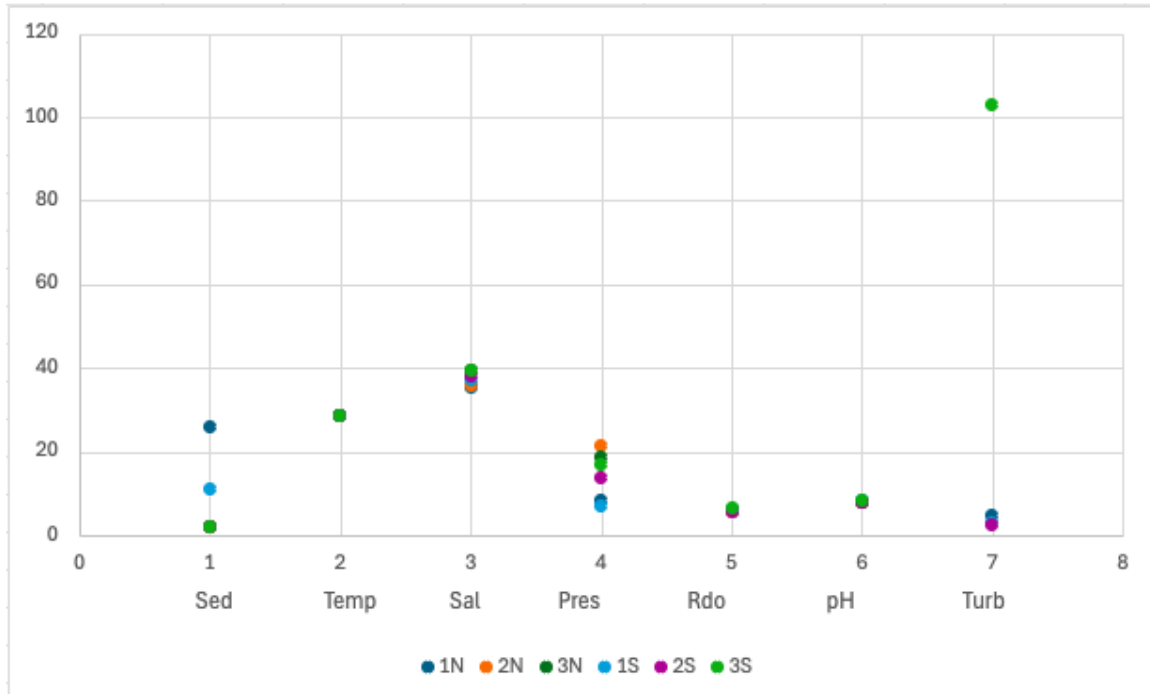


Figure 3. The mean sedimentation rates (Sed; g/day) and abiotic data (temp = temperature °C; Sal = salinity in psu; Pre = pressure psi; Rdo = relative dissolve oxygen mg/L , pH, and Turb = turbidity NTU) at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from July 1 – September 12, 2024.

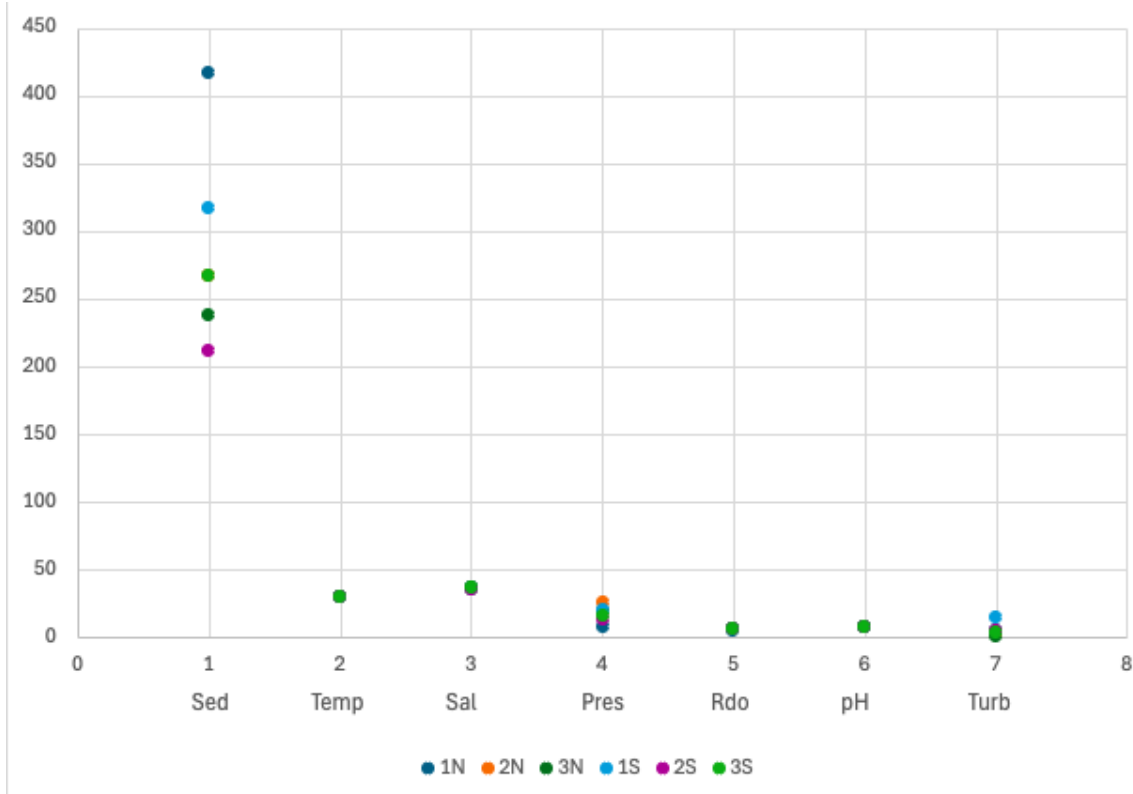


Figure 4. The mean sedimentation rates (Sed; g/day) and abiotic data (temp = temperature °C; Sal = salinity in psu; Pre = pressure psi; Rdo = relative dissolve oxygen mg/L , pH, and Turb = turbidity NTU) at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from September – November 2024.

From November 2024 to May 2025, sedimentation rates showed notable variability among coral sites. The highest rate occurred at site 1N (~110 g/day), while all other sites were substantially lower and more similar, with the lowest recorded at 3N (~28 g/day). Temperature remained consistent across all sites (approximately 28°C), indicating minimal spatial variation. Salinity was also relatively uniform, with a slight increase at 3N compared to the other sites. Pressure showed moderate variability, with the highest values at 3N and the lowest at 1S. Dissolved oxygen and pH were consistent across all sites, indicating stable baseline water chemistry. In contrast, turbidity varied spatially, with elevated values at 3N (~40 NTU) and 3S (~42 NTU), moderate levels at 2S and 1N, and the lowest levels at 2N and 1S, suggesting localized differences in suspended particles or resuspension activity across reef sites (Figure 5).

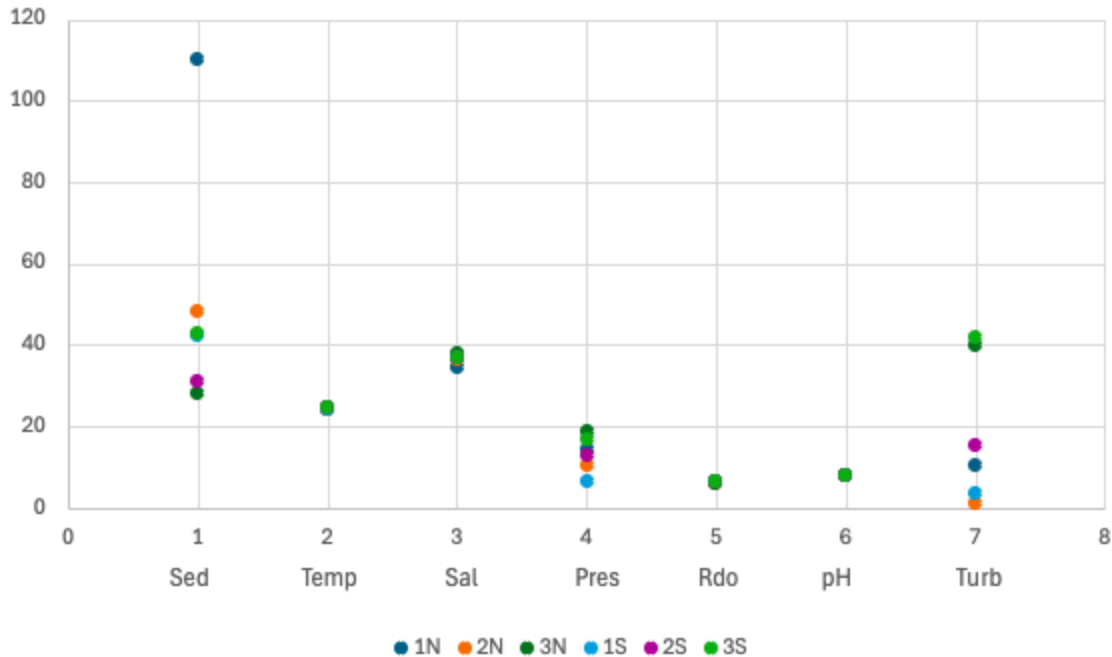


Figure 5. The mean sedimentation rates (Sed; g/day) and abiotic data (temp = temperature °C; Sal = salinity in psu; Pre = pressure psi; Rdo = relative dissolve oxygen mg/L , pH, and Turb = turbidity NTU) at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from November 2024 – May 2025.

From January to May 2025, sedimentation rates at the coastal sites were highest at MB (~38 g/day) and HW (~34 g/day), and lowest at HL (~19 g/day) and FL (~27 g/day), indicating spatial differences in particulate deposition along the coastline. Temperature showed moderate variability, with slightly higher values at BC and MB compared to the other sites. Salinity also varied among locations, with higher values at MB, HL, and FL, and comparatively lower values at BC and HW. Turbidity was highest at BC (~13 NTU), indicating increased suspended particulate matter, while HL showed the lowest levels (~1 NTU). Pressure remained relatively stable across all sites. pH showed modest variation, with the highest values at BC and the lowest at HL (Figure 6).

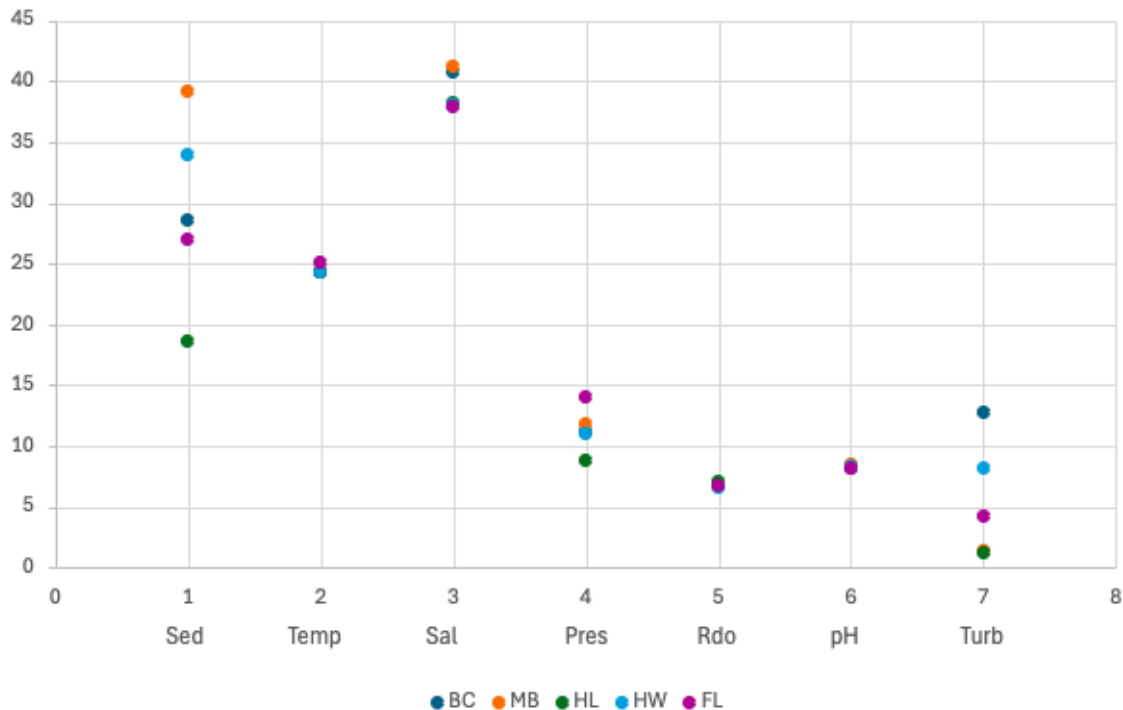


Figure 6. The mean sedimentation rates (Sed; g/day) and abiotic data (temp = temperature °C; Sal = salinity in psu; Pre = pressure psi; Rdo = relative dissolve oxygen mg/L , pH, and Turb = turbidity NTU) at the five coastal sites (BC, MB, HL, HW, and FL) from January 20 2025 – April 8 2025 for BC and MB, January2025 – April 2025 for HL and HW and from January 2025 – May 2025 for FL.

Across the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) and five coastal sites (BC, MB, HL, HW, and FL), mean temperature (°C) from December 2024 to June 2025 showed a consistent seasonal warming trend. Temperatures ranged from approximately 22.0°C to 29.6°C across all sites, with most locations showing a gradual increase from winter into early summer.

The northern reef sites (1N, 2N, 3N) began the period at cooler temperatures in December and warmed steadily through June, while the southern reef sites (1S, 2S, 3S) started slightly warmer but followed a similar warming pattern. Coastal sites showed more variability; however, they also reflected the same overall seasonal increase. Notably, coastal site BC exhibited a deviation in January, with mean temperatures at least 0.8°C lower (22.2°C) than all other sites during that period.

The lowest temperatures occurred during the winter months (December–February), followed by a steady increase from March through May. This warming peaked in June, when several sites reached up to 29.6°C. Overall, the results indicate a strong

region-wide seasonal temperature cycle with minor site-specific variation, particularly at BC in January (Figure 7).

Across the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), mean salinity (psu) from July 2024 to May 2025 showed clear seasonal variability with distinct winter–summer differences. Salinity ranged approximately from 36.0 to just over 40.0 psu, with the lowest values occurring in winter and the highest values during late spring and summer (up to 40.1 psu).

A notable decline in salinity occurred in December 2024, particularly at site 1N, which recorded the lowest value in the dataset (~33.6 psu). During this period, most other sites remained between 36.0 and 37.5 psu. In contrast, higher salinity conditions were observed during June–August 2024, when sites such as 2N and 3N frequently reached 39.0–40.0 psu, with similarly elevated values reappearing in April–May 2025 (Figure 8).

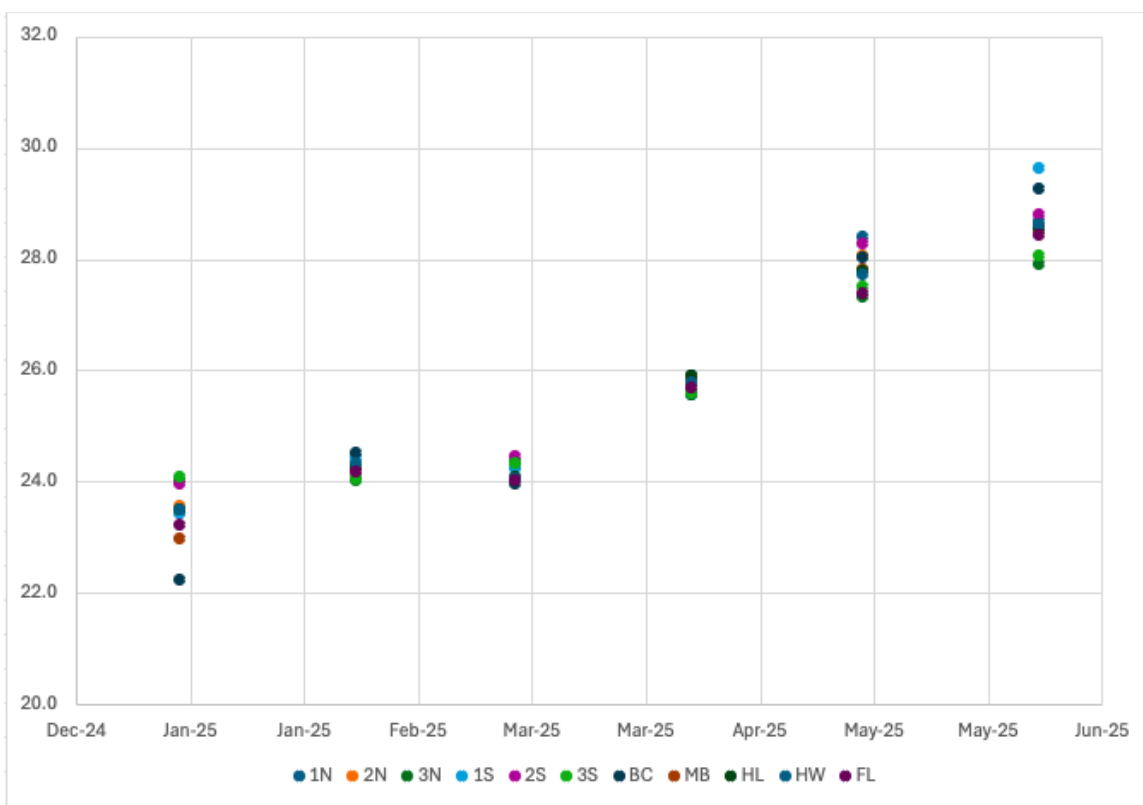


Figure 7. The mean temperature (°C) at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

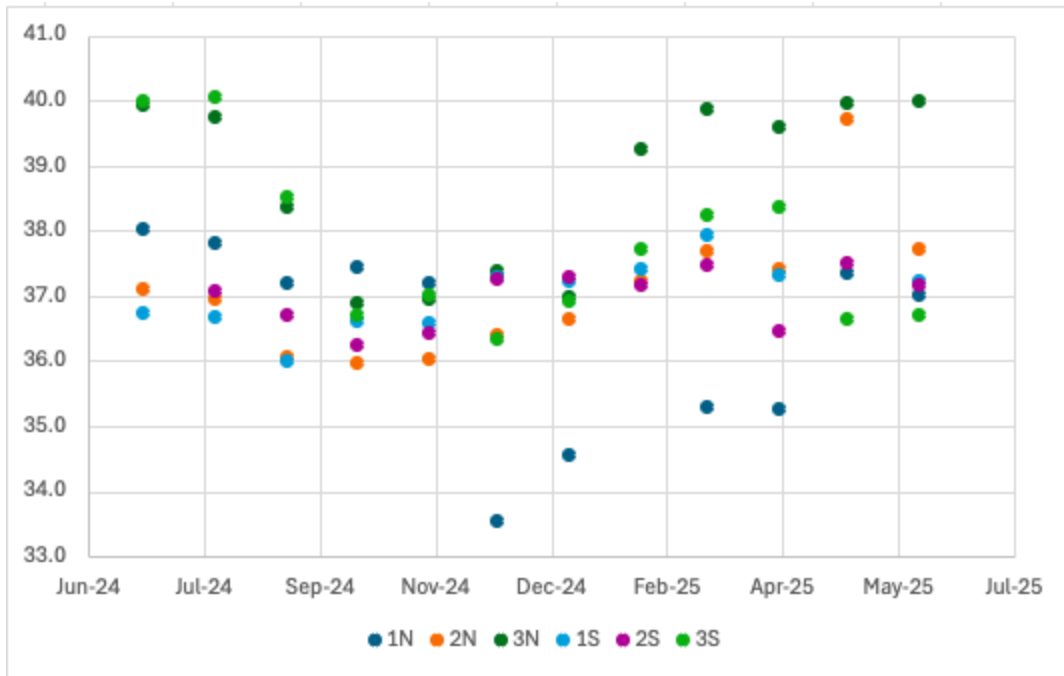


Figure 8. The mean salinity (psu) at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) from July 2024 – May 2025.

Seasonally, salinity decreased slightly from September through November 2024, followed by a winter minimum in December. From January 2025 onward, salinity gradually increased across all sites, with a more pronounced rise during April and May when several sites again approached or exceeded 39.0 psu. Site-specific differences were also evident. Sites 2N and 3N consistently showed the highest salinity values and strongest seasonal variability, while 1N exhibited greater variability, including the lowest recorded salinity event. The southern sites (1S, 2S, and 3S) generally showed intermediate salinity levels with more moderate fluctuations, although 2S occasionally aligned with higher salinity conditions in late spring. Overall, the results indicate a strong seasonal salinity cycle across the reef system, likely driven by rainfall, evaporation, and regional oceanographic circulation patterns.

Across the five coastal sites (BC, MB, HL, HW, and FL), mean salinity (psu) from December 2024 to May 2025 ranged from 37.3 to 42.1 psu, showing both spatial variability and seasonal structure. Overall, salinity showed a modest increase from winter to summer, with higher values generally occurring during warmer months. Site MB consistently recorded the highest salinity values, frequently approaching or exceeding 42.0 psu, indicating persistently more saline conditions relative to the other sites. In contrast, site FL showed the lowest salinity levels, typically ranging from 37.3 to 38.6 psu throughout the study period (Figure 9).

Intermediate conditions were observed at sites HL, HW, and BC, which generally fluctuated between 38.0 and 42.0 psu, with temporal variation but no strong deviation

outside this range. Spatially, MB and FL represented the two ends of the salinity gradient, while the remaining sites were intermediate. Temporally, a slight increase in salinity from winter into summer was most evident at MB and FL, suggesting seasonal influences from freshwater input and evaporation. Overall, the results indicate a clear spatial salinity gradient across the coastal system, with superimposed seasonal variability driven by hydrological and oceanographic processes.

Across the combined coral reef and coastal sites (1N, 2N, 3N, 1S, 2S, 3S, BC, MB, HL, HW, and FL), mean salinity (psu) from December 2024 to May 2025 showed clear spatial gradients and seasonal variability. The highest salinity values were consistently observed at BC and MB, frequently exceeding 40 psu, suggesting reduced freshwater influence at these coastal locations. In contrast, the lowest salinity values were generally recorded at site 1N, particularly during winter months, where values ranged approximately from 34 to 35 psu. FL also showed relatively low salinity compared to most other sites, typically remaining within 37–38 psu.

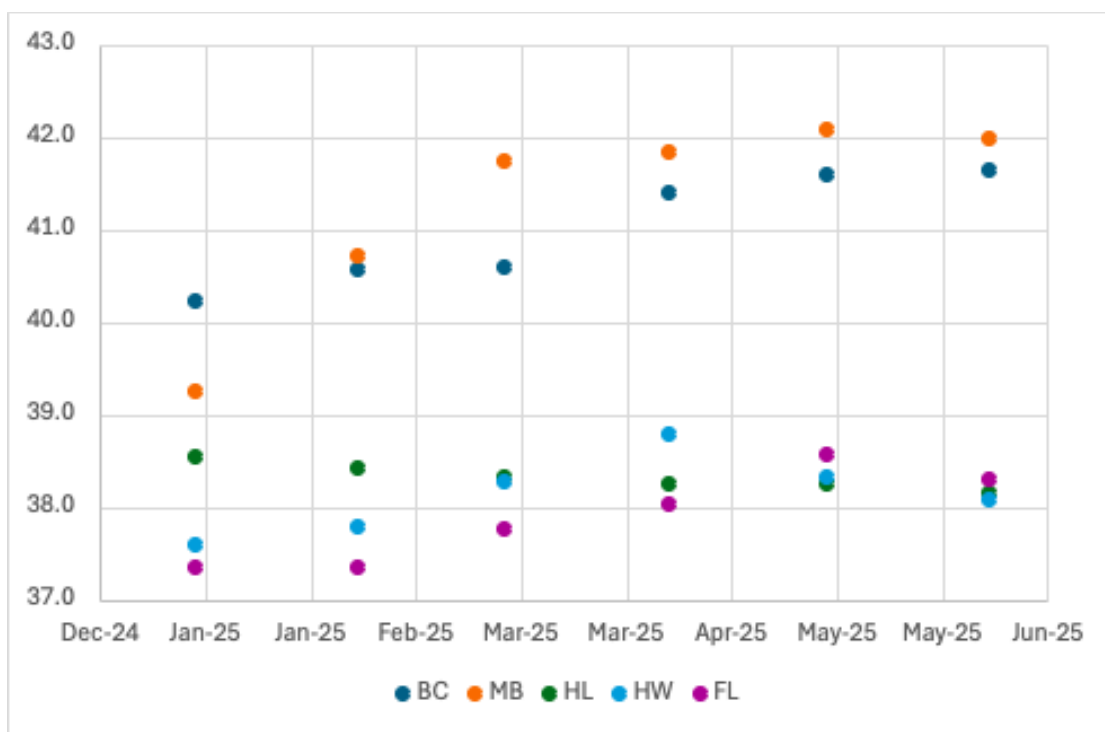


Figure 9. The mean salinity (psu) at the five coastal sites (BC, MB, HL, HW, and FL) from December – June 2025.

Among the reef sites, the northern locations (1N, 2N, 3N) showed moderate variability, with salinity ranging from approximately 34.6 to 40.0 psu, indicating stronger seasonal fluctuations. In contrast, the southern reef sites (1S, 2S, 3S) were more stable, generally ranging between 36.7 and 38.0 psu throughout the study period. Temporally, a weak seasonal pattern was evident, with slightly lower salinity during winter months and

gradual increases toward summer across most sites (Figure 10). Overall, the integrated dataset highlights distinct spatial salinity gradients between coastal and reef environments, along with moderate seasonal variability likely driven by precipitation, evaporation, and regional hydrodynamic processes.

Across the combined coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S; May 2024 to May 2025) and coastal sites (BC, MB, HL, HW, and FL; December 2024 to May 2025), mean pressure (PSI) remained highly stratified, primarily reflecting the fixed deployment depths of the sondes at each location (Figures 11–13). Several pressure records were excluded from the analysis due to sensor malfunctions and other instrumentation errors identified during the study period.

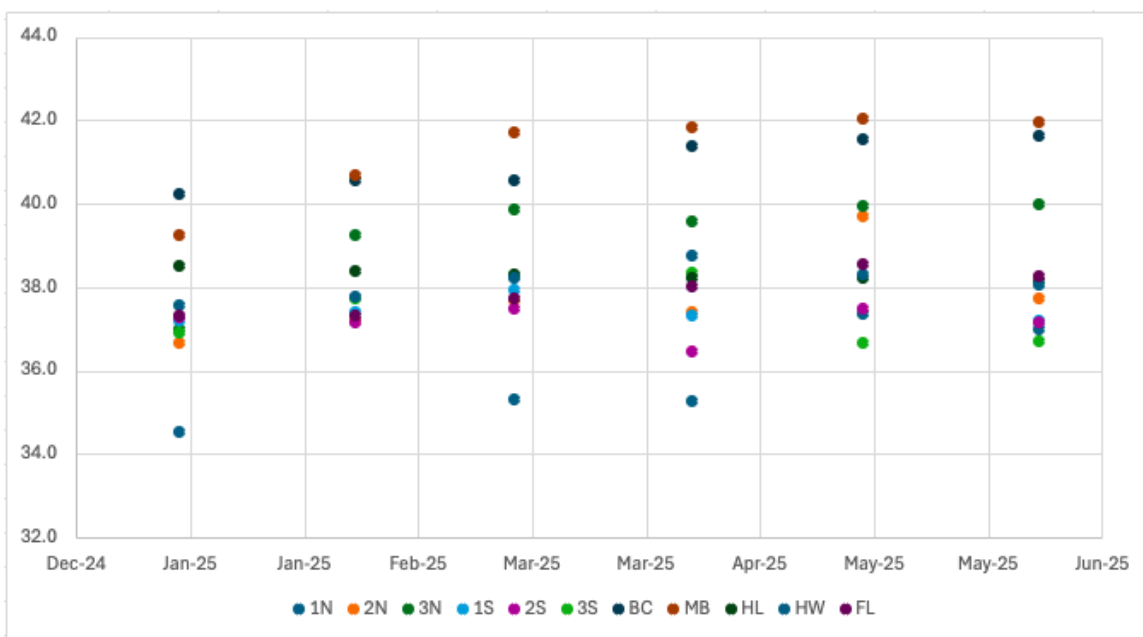


Figure 10. The mean salinity (psu) at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

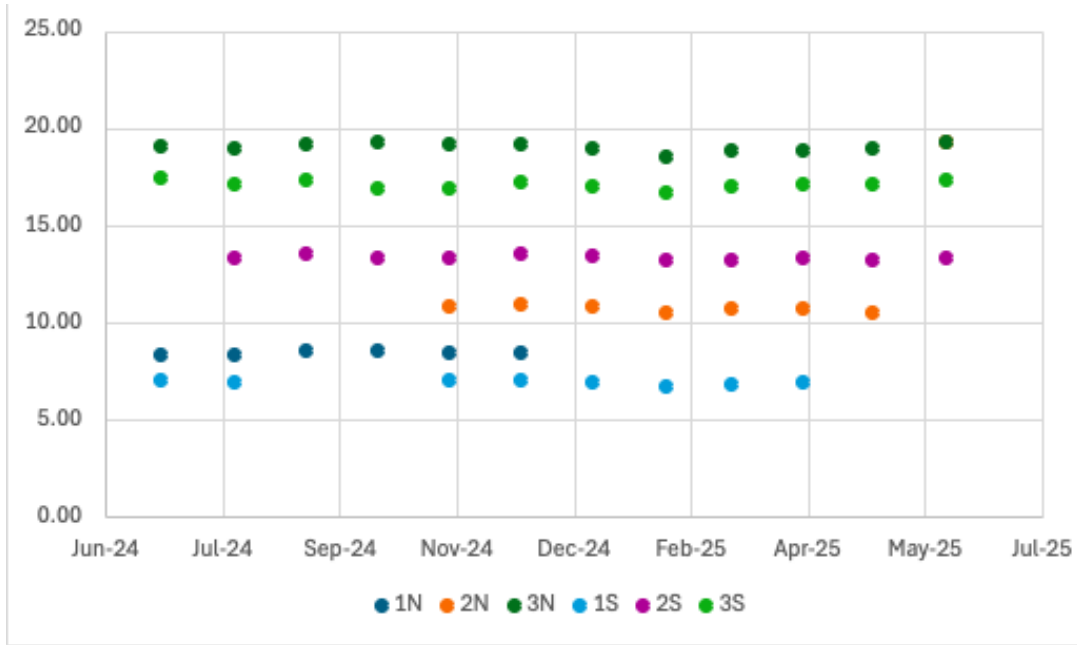


Figure 11. The mean pressure (psi) at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from June 2024 – May 2025.

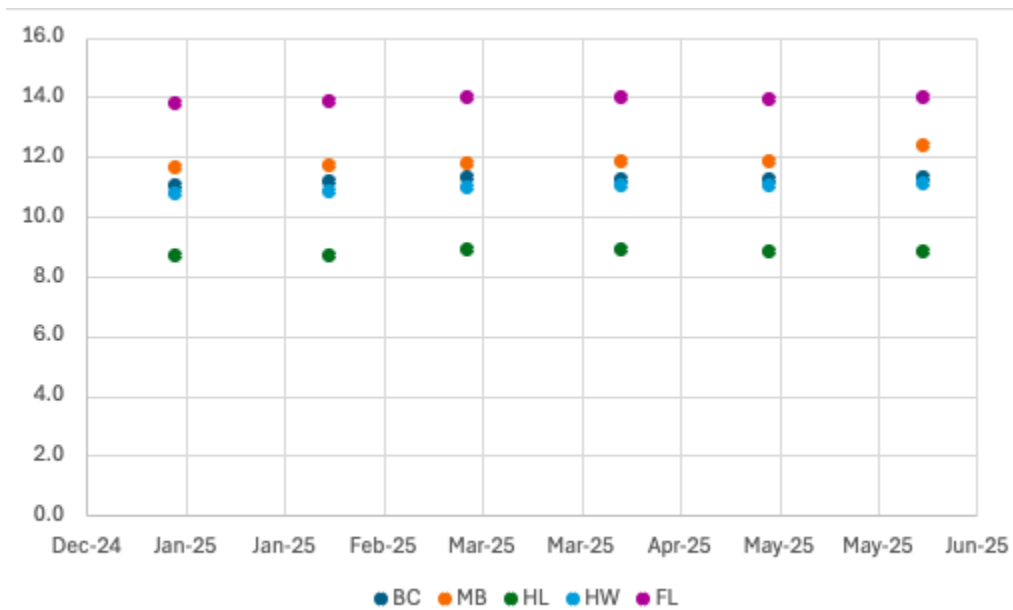


Figure 12. The mean pressure (psi) at the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

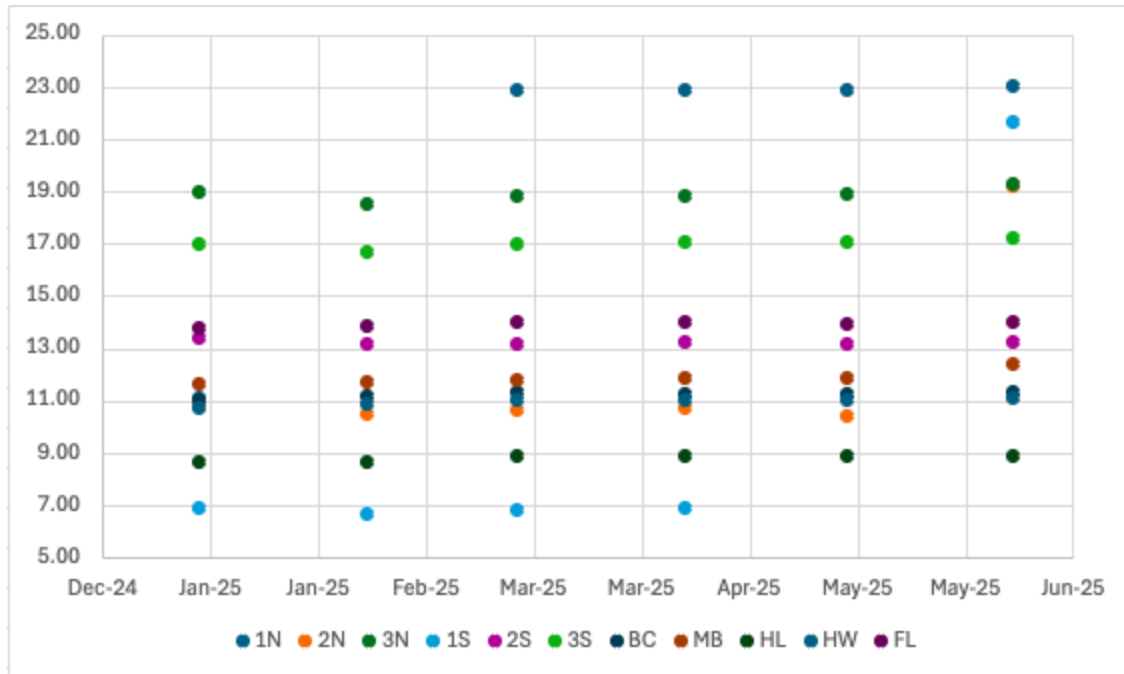


Figure 13. The mean pressure (psi) at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

Across the combined coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), mean dissolved oxygen (mg/L) from June 2024 to May 2025 showed clear seasonal cycles and spatial variability. Concentrations across all sites ranged from approximately 5.27 to 7.35 mg/L, with temporal variability largely driven by water temperature, which influences oxygen solubility, as well as localized biological activity.

Across the study period, dissolved oxygen exhibited a consistent seasonal pattern, with lower concentrations during the warmer months (June–August), likely due to reduced oxygen solubility at higher temperatures. In contrast, higher concentrations were observed during the cooler winter months (December–February), most notably at the southern reef sites.

Spatially, the northern sites, particularly 1N (5.75–6.85 mg/L) and 2N (5.27–6.90 mg/L), showed the greatest variability with frequent monthly fluctuations. In comparison, the southern reef sites exhibited more stable conditions; for example, site 3S remained relatively consistent within a range of 6.18–6.87 mg/L throughout the study period (Figure 14).

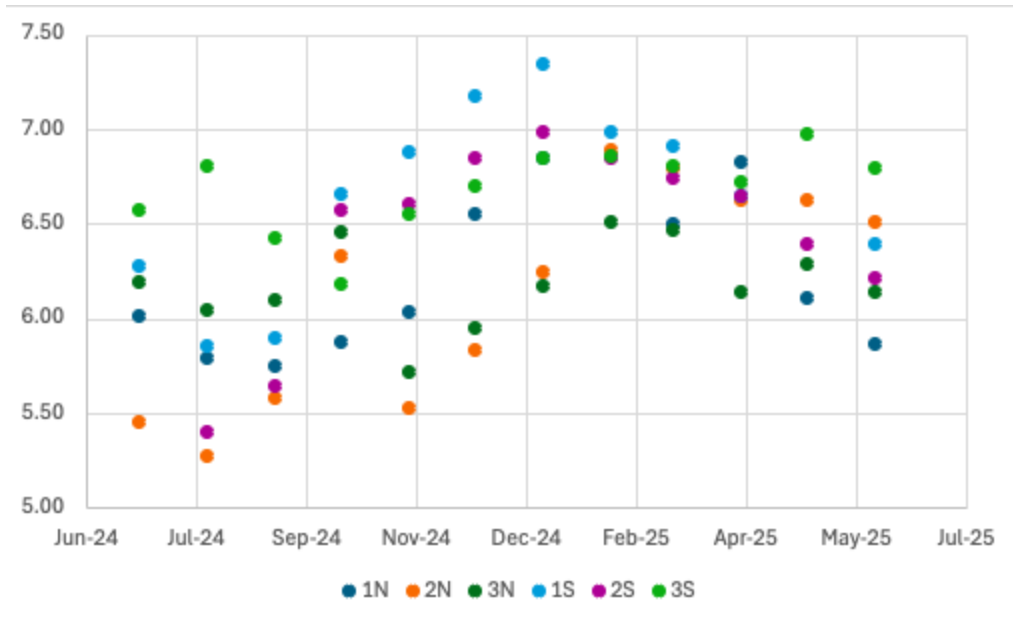


Figure 14. The mean relative dissolved oxygen (mg/L) at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from June 2024 – May 2025.

Across the five coastal sites (BC, MB, HL, HW, and FL), mean dissolved oxygen (mg/L) from December 2024 to May 2025 showed a general downward trend, corresponding with the seasonal shift toward warmer temperatures. Oxygen concentrations were highest in January across all sites, with HL recording the maximum value at approximately 7.58 mg/L. As the period progressed into late spring and summer, a gradual decline was observed, with most sites converging to a range of approximately 6.00 to 6.60 mg/L by June.

Spatially, HL consistently exhibited the highest dissolved oxygen concentrations throughout the study period, while HW frequently recorded the lowest values, often approaching ~6.00 mg/L. Overall, the data indicates a clear seasonal reduction in dissolved oxygen across coastal sites, consistent with increasing water temperatures and associated decreases in oxygen solubility (Figure 15).

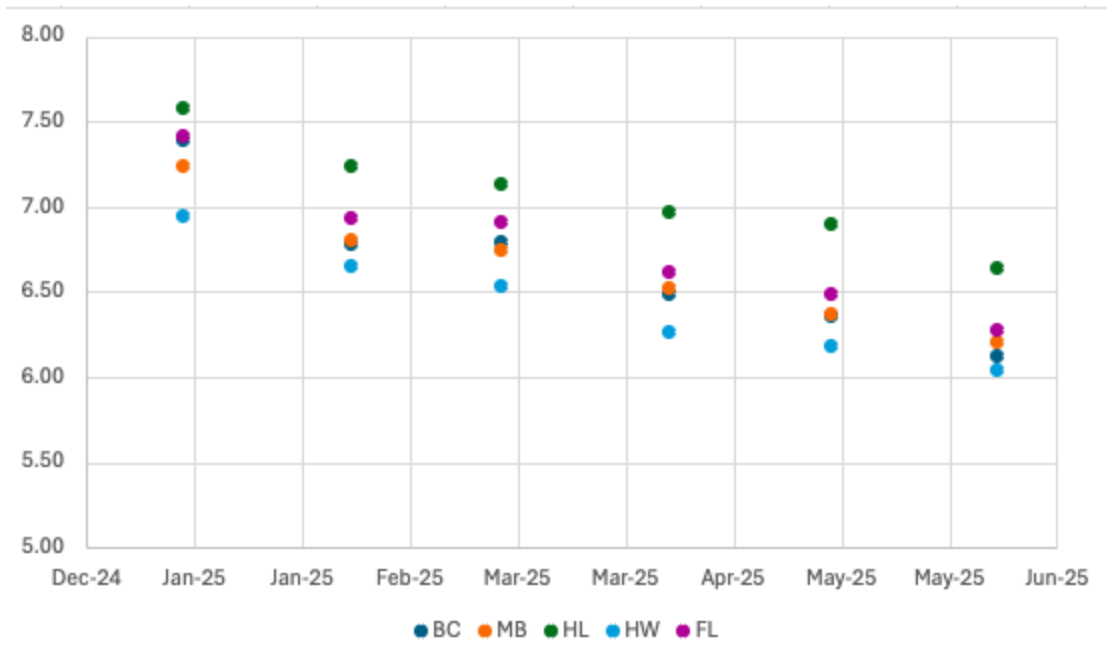


Figure 15. The mean relative dissolved oxygen (mg/L) at the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

Across the integrated dataset encompassing all coral reef (1N, 2N, 3N, 1S, 2S, 3S) and coastal sites (BC, MB, HL, HW, FL), relative dissolved oxygen concentrations from December 2024 to May 2025 showed a clear, synchronized seasonal decline. In January, most sites reached peak values for the period, ranging from approximately 6.20 to 7.60 mg/L with HL recording the highest overall concentration.

As conditions transitioned into the warmer months, dissolved oxygen steadily declined across the entire study area, with most sites converging to a narrower range of approximately 5.80 to 6.80 mg/L by June. This pattern reflects the typical temperature-driven reduction in oxygen solubility as water warms.

Despite the dominant seasonal signal, spatial differences remained evident. Southern reef sites and coastal locations such as HL generally maintained higher dissolved oxygen levels, while northern reef sites, particularly 1N, frequently fell toward the lower end of the observed range (Figure 16). Overall, the results indicate a region-wide seasonal decline in dissolved oxygen, with persistent spatial structure between reef and coastal environments superimposed on the broader warming-driven trend.

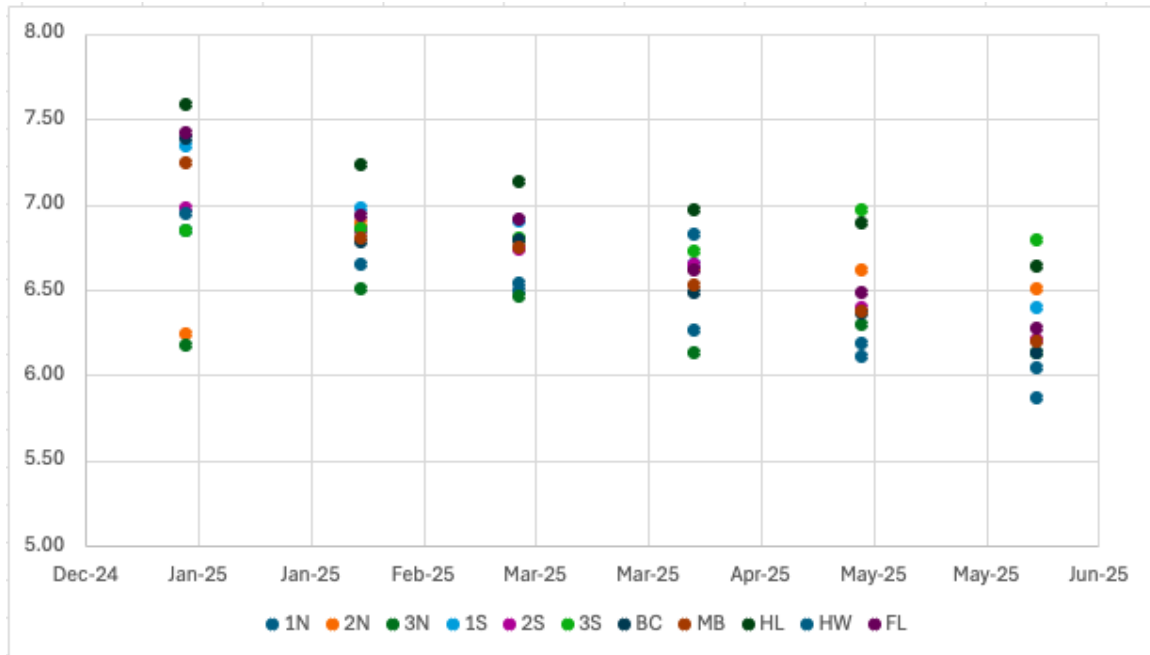


Figure 16. The mean relative dissolved oxygen (mg/L) at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

Across the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), mean pH from June 2024 to May 2025 showed notable temporal variability and spatial differences, generally ranging from 8.00 to 8.47. In contrast to the relative stability observed in pressure, pH exhibited a clear decline during late fall and early winter (November–December), with several sites, particularly 1S and 2N, reaching minimum values near 8.00.

Following this period, pH gradually increased across most sites through spring 2025. Spatial patterns were dynamic, but the southern reef site 3S showed a tendency toward higher pH in the latter part of the study, reaching a maximum of approximately 8.47 in May 2025. In contrast, site 1N frequently recorded the lower end of the observed range during spring (Figure 17).

Sites 1N and 1S, which are closest to the coast, likely experience greater influence from freshwater inputs via canal discharge, which can contribute to localized reductions in pH.

Across the five coastal sites (BC, MB, HL, HW, and FL), mean pH from December 2024 to May 2025 showed a generally stable range with site-specific variability. Most sites remained relatively consistent between 8.20 and 8.40 throughout the study period.

In contrast, site MB exhibited pronounced variability, with elevated values reaching approximately 8.68 in February followed by a decline to ~8.12 by June (Figure 18). This variability suggests localized environmental influences. Toward the end of the

study period, FL also showed comparatively lower pH values relative to the other sites, which may indicate localized conditions or freshwater inputs affecting coastal chemistry.

Across the combined coral reef and coastal sites (1N, 2N, 3N, 1S, 2S, 3S, BC, MB, HL, HW, and FL), mean pH from December 2024 to May 2025 showed clear spatial gradients and evidence of influence from proximity to land. The highest pH values were intermittently observed at site MB, peaking near 8.68 in early 2025, and at the offshore southern reef site 3S, which reached approximately 8.47 toward the end of the study period. These elevated values are consistent with more stable marine conditions and greater buffering capacity in offshore environments.

In contrast, the lowest pH values were consistently recorded at the nearshore sites 1N and 1S, particularly during periods of higher rainfall, when values declined to approximately 8.00 (Figure 19). This spatial pattern indicates increased sensitivity to freshwater inputs at sites closest to the shoreline. Sites 1N and 1S likely receive greater influence from terrestrial runoff, which can reduce pH due to lower alkalinity and the presence of organic acids. In comparison, offshore sites (e.g., 3N and 3S) remain more buffered by open-ocean conditions, resulting in more stable and generally higher pH values.

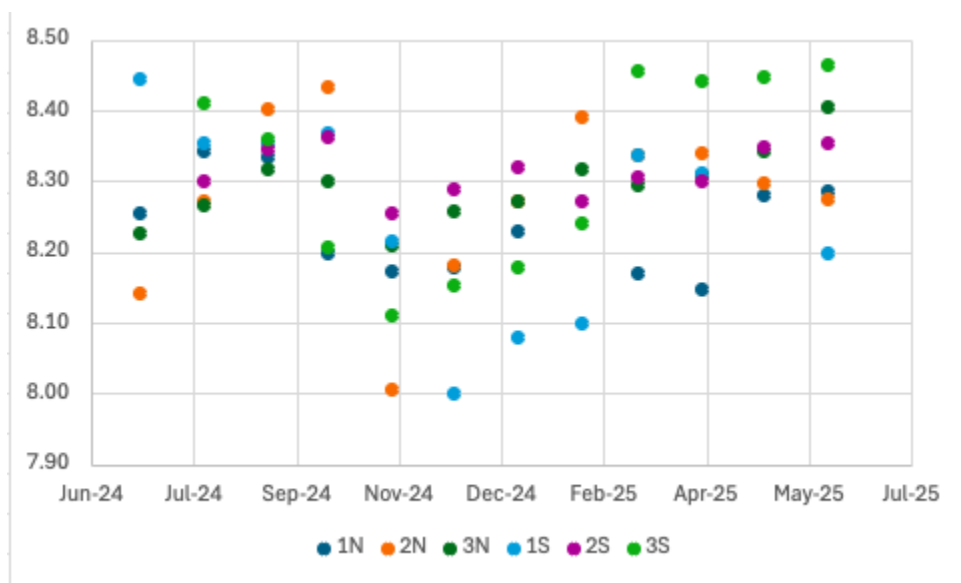


Figure 17. The mean pH at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from June 2024 – May 2025.

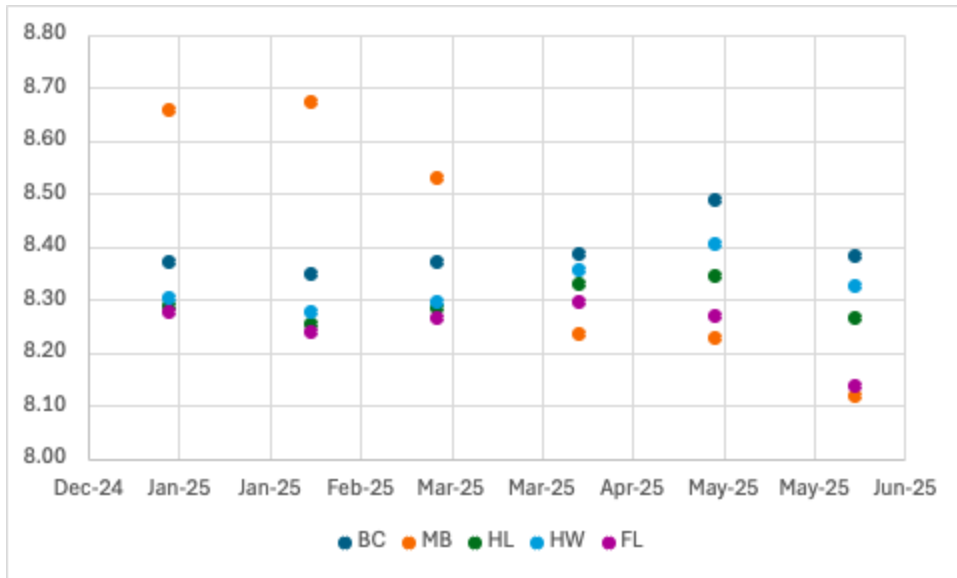


Figure 18. The mean pH at the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025

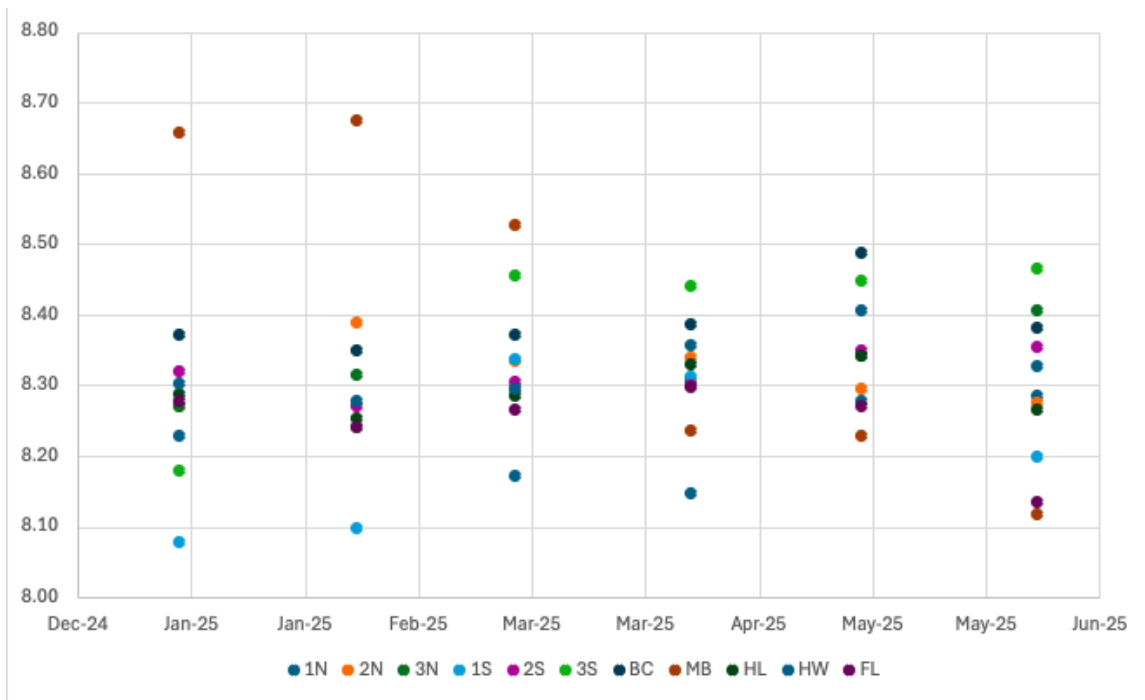


Figure 19. The mean pH at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

Across the coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), turbidity (NTU) from June 2024 to May 2025 showed a generally stable baseline with intermittent, highly localized spikes at offshore locations. For most of the study period, turbidity remained low across all sites, frequently below 5 NTU, indicating consistently clear water conditions.

A notable deviation from this pattern occurred at the offshore sites 3S and 3N during late fall 2024. Site 3S showed a pronounced increase, reaching nearly 100 NTU in November and December, while 3N peaked at approximately 80 NTU in December. These events represent sharp, short-term increases relative to otherwise stable conditions.

Spatially, this pattern is notable given site positioning. The nearshore sites (1N and 1S), which are typically more influenced by freshwater input and terrestrial runoff, remained relatively clear during the same period, generally below 10 NTU (Figure 20). This indicates that the elevated turbidity observed at offshore sites was not associated with typical coastal runoff but instead suggests localized sediment resuspension or discrete offshore disturbance events.

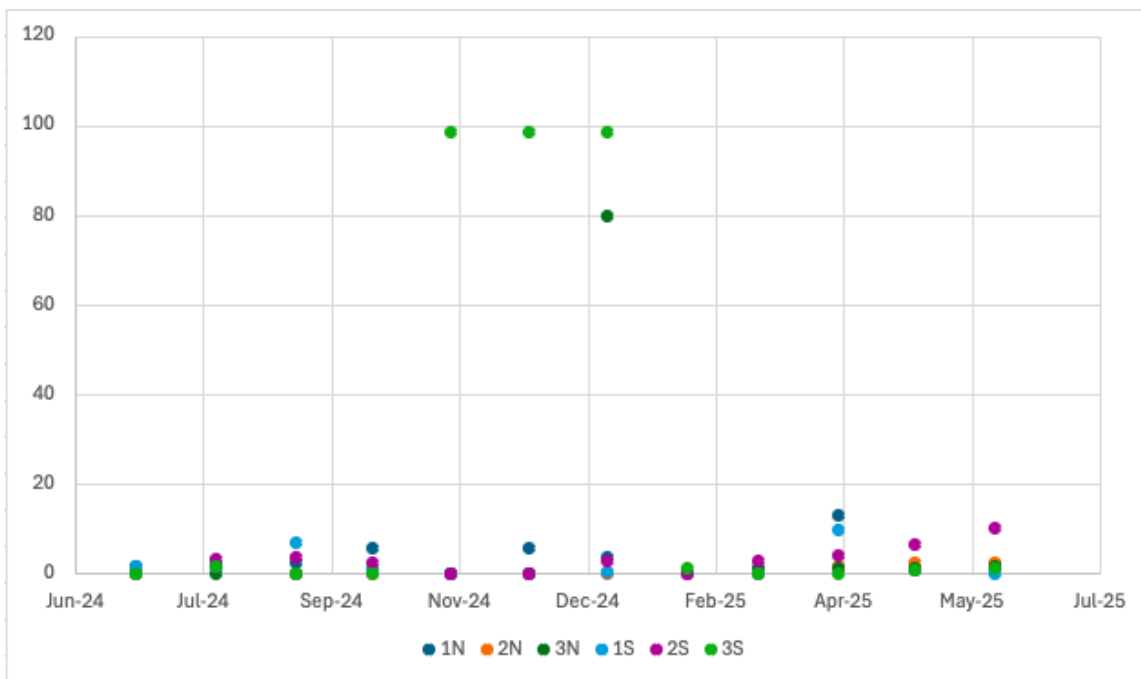


Figure 20. The median turbidity (NTU) at the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) from June 2024 – May 2025.

Across the five coastal sites (BC, MB, HL, HW, and FL), turbidity (NTU) from December 2024 to May 2025 remained generally low but showed clear site-specific increases during the summer months. During the first quarter of the study period, all sites exhibited high water clarity, with turbidity values typically below 2 NTU. Beginning in April, site HL showed a marked increase in turbidity, rising steadily to nearly 24 NTU by

June, the highest value recorded among the coastal sites (Figure 21). This late-period increase indicates a shift in local conditions compared to earlier months.

Spatially, sites closer to the shoreline, such as HL and FL, are more likely influenced by freshwater inputs and coastal processes, including sediment resuspension driven by tides and wind. In contrast, site MB remained consistently stable throughout the study period, with turbidity values ranging from approximately 0.03 to 2.3 NTU, suggesting more well-flushed or protected conditions relative to the other coastal sites.

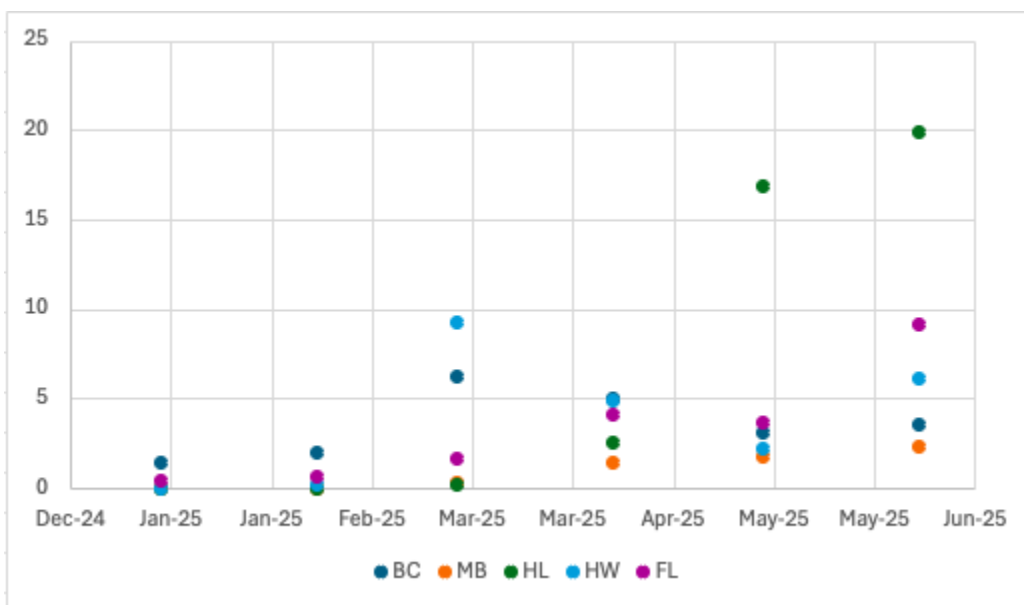


Figure 21. The median turbidity (NTU) at the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025

Across the combined coral reef and coastal sites (1N, 2N, 3N, 1S, 2S, 3S, BC, MB, HL, HW, and FL), turbidity (NTU) from December 2024 to May 2025 was generally characterized by a stable baseline with isolated, extreme spikes. For most of the study period, sites maintained high water clarity, with turbidity values frequently below 5 NTU.

A pronounced deviation from this pattern occurred at the offshore reef sites 3S and 3N in early 2025. Site 3S exhibited a major spike, reaching nearly 100 NTU in January, while 3N reached approximately 80 NTU during the same period (Figure 22). These short duration increases contrast sharply with otherwise low and stable background conditions.

Spatially, the pattern highlights differences between nearshore and offshore environments. The nearshore sites (1N and 1S), which are typically more exposed to freshwater input and terrestrial runoff, remained relatively clear during the period when offshore spikes occurred. This suggests that the elevated turbidity at the 3-series sites was

not driven by regional runoff, but more likely reflects localized sediment resuspension, a discrete offshore disturbance event, or potential instrumentation artifacts.

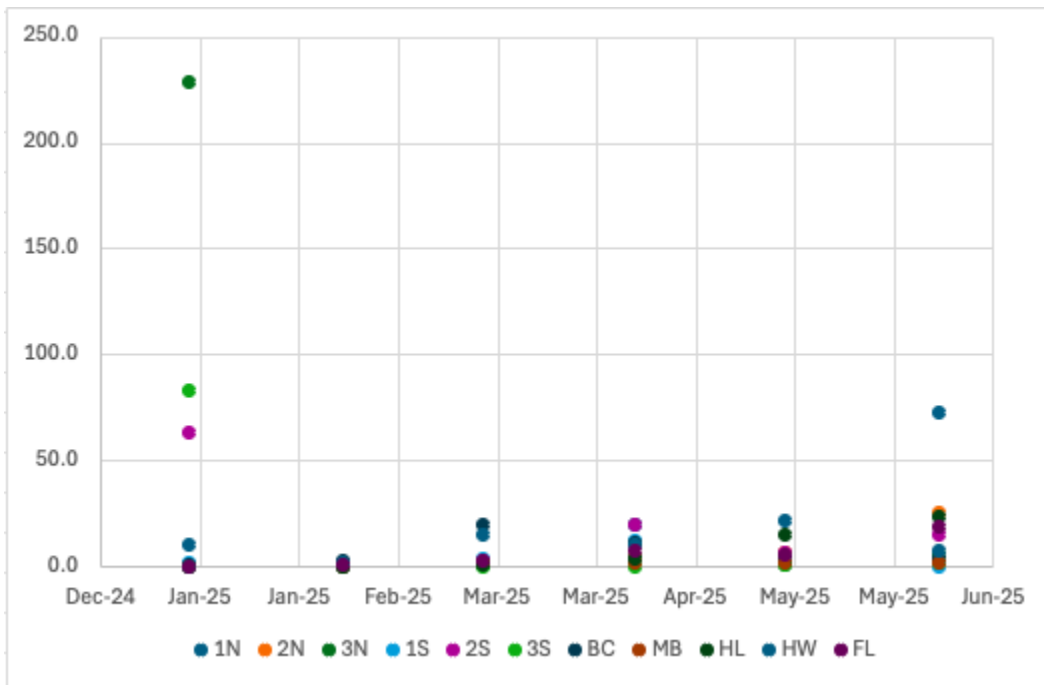


Figure 22. The mean turbidity (NTU) at the six coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and the five coastal sites (BC, MB, HL, HW, and FL) from December 2024 – May 2025.

Pearson and Spearman rank correlation tests were conducted to examine relationships between abiotic variables (temperature, conductivity/salinity, pressure, dissolved oxygen, pH, and turbidity) and sedimentation rates across the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S) and five coastal sites (BC, MB, HL, HW, and FL). Tables 2–9 present the monthly correlation matrices for temperature (°C), salinity (PSU), pressure (psi), dissolved oxygen (mg/L), pH, turbidity (NTU), and sedimentation rates (g/day), with significant p-values highlighted in yellow. Monthly averaged data provided the most robust basis for analysis, and only statistically significant relationships that were consistent in direction across sites are reported.

Overall, at the six coastal sites, no significant correlations were observed between sedimentation rates and any of the six abiotic variables during the sedimentation sampling period (Table 2).

Table 2 Pearson correlation matrix of sedimentation rates and abiotic water quality parameters (temperature (Temp °C), salinity (Sal, NTU), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Turb, NTU)) across five coastal sites (n = 5; BC, MB, HL, HW, and FL), during January – April 2025 with significance threshold (r-critical = 0.878).

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
Sed	1.00						
Temp	-0.271	1.00					
Sal	0.528	-0.547	1.00				
Pres	0.412	0.742	-0.011	1.00			
Rdo	-0.785	-0.023	-0.138	-0.535	1.00		
pH	0.732	-0.454	0.833	0.120	-0.177	1.00	
Turb	0.103	-0.082	0.193	0.100	-0.540	-0.264	1.00

The sedimentation rates and turbidity are likely non-normally distributed so the dataset was reanalyzed using non-parametric Spearman rank correlation instead of Pearson correlation. This rank-based approach identified a negative relationship between temperature and salinity at the coastal sites (Table 3). This pattern indicates that higher temperatures are associated with lower salinity values. In shallow coastal systems, warmer conditions often coincide with increased precipitation, runoff or river discharge, all of which introduce freshwater and dilute seawater salinity which is indicative of the summer months.

Table 3. Spearman rank correlation matrix showing relationships between sedimentation rates and abiotic water quality parameters (temperature (Temp, °C), salinity (Sal), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Turb, NTU)) across five coastal sites (n = 5; BC, MB, HL, HW, and FL) (r-critical = 0.878) during January – April 2025. Yellow highlighting indicated statistical significance.

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
Sed	1.00						
Temp	-0.671	1.00					
Sal	0.391	-0.894	1.00				
Pres	0.624	0.224	-0.100	1.00			
Rdo	-0.821	0.344	-0.154	-0.051	1.00		
pH	0.872	-0.803	0.821	0.205	-0.632	1.00	
Turb	0.300	0.224	-0.100	0.200	-0.667	0.308	1.00

At the six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), the Pearson correlation matrix showed no significant relationships among abiotic variables (temperature, salinity, pressure, dissolved oxygen, pH, and turbidity) during July – September 2024 (Table 4).

Because the data were likely non-normally distributed, a non-parametric Spearman rank correlation was also applied. The Spearman results likewise showed no significant correlations among the abiotic variables (Table 5).

Table 4. Pearson correlation matrix of sedimentation rates and abiotic water quality parameters (temperature (Temp °C), salinity (Sal, NTU), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Turb, NTU)) across six coral sites (n = 6; (1N, 2N, 3N, 1S, 2S, and 3S), during July – September 2024 with significance threshold (r- critical = 0.811 except pairs with Turb n=4 with r-critical = 0.950).

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
Sed	1.00						
Temp	0.619	1.00					
Sal	-0.644	-0.640	1.00				
Pres	-0.762	-0.432	0.346	1.00			
Rdo	0.055	-0.297	0.647	-0.223	1.00		
pH	0.276	-0.309	0.088	-0.630	0.564	1.00	
Turb	-0.465	-0.717	0.775	0.780	0.845	0.693	1.00

Table 5. Spearman rank correlation matrix of sedimentation rates and abiotic water quality parameters (temperature (Temp °C), salinity (Sal, NTU), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Turb, NTU)) across six coral sites (n = 6; (1N, 2N, 3N, 1S, 2S, and 3S), during July – September 2024 with significance threshold (r- critical = 0.811 except pairs with Turb n=4 with r-critical = 0.950).

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
Sed	1.00						
Temp	0.618	1.00					
Sal	-0.314	-0.765	1.00				
Pres	-0.600	-0.500	0.257	1.00			
Rdo	0.543	-0.118	0.600	-0.371	1.00		
pH	0.406	-0.194	0.232	-0.580	0.638	1.00	
Turb	0.400	-0.316	0.200	0.400	0.800	0.632	1.00

At the coral reef sites (n = 6) from September to November 2024, the only significant correlation was between salinity and pH (r = -0.962). This indicates a strong inverse relationship, where lower salinity is consistently associated with higher pH (and vice versa). This pattern suggests linked hydrochemical processes, likely influenced by periodic freshwater inputs that reduce salinity while affecting carbonate chemistry. All

other correlations, including those involving sedimentation and turbidity, did not exceed the significance threshold and are therefore not considered statistically significant (Table 6).

Table 6. Pearson correlation matrix of sedimentation rates and abiotic water quality parameters (temperature (Temp °C), salinity (Sal, NTU), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Tub, NTU)) across six coral sites (n = 6; (1N, 2N, 3N, 1S, 2S, and 3S), with significance threshold (r- critical = 0.811 except pairs with Turb n=4 with r-critical = 0.950) during September - November 2024. Yellow highlighting indicated statistical significance.

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
Sed	1.00						
Temp	0.689	1.00					
Sal	0.327	-0.362	1.00				
Pres	-0.465	-0.103	-0.773	1.00			
Rdo	-0.672	-0.324	-0.480	0.672	1.00		
pH	-0.477	0.210	-0.962	0.739	0.608	1.00	
Turb	0.324	0.681	-0.297	0.032	0.298	0.242	1.00

At the coral reef sites (n = 6) from September to November 2024, the significant correlations were between salinity and pH (r = -1.000), salinity and pressure (r = -0.829), and pH and pressure (r = 0.829). The perfect inverse relationship between salinity and pH indicates a very strong coupling, where decreases in salinity are consistently associated with increases in pH (and vice versa). The strong negative correlation between salinity and pressure, along with the positive relationship between pH and pressure, suggests linked hydrochemical responses, likely influenced by freshwater inputs.

These results indicate that key abiotic variables co-vary in a consistent and predictable way, reflecting underlying physical and chemical processes. These are the only statistically supported relationships observed during this sampling period. All other correlations, including those involving sedimentation, temperature, dissolved oxygen, and turbidity, did not exceed the critical thresholds and are therefore not considered statistically significant (Table 7).

Table 7. Spearman rank correlation matrix of sedimentation rates and abiotic water quality parameters (temperature (Temp °C), salinity (Sal, NTU), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Tub, NTU)) across six coral sites (n = 6; (1N, 2N, 3N, 1S, 2S, and 3S), with significance threshold (r- critical = 0.811 except pairs with Turb n=4 with r-critical = 0.950) during September - November 2024. Yellow highlighting indicated statistical significance.

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
Sed	1.00						
Temp	0.765	1.00					
Sal	0.261	-0.145	1.00				
Pres	-0.058	-0.029	-0.829	1.00			
Rdo	-0.348	-0.116	-0.600	0.543	1.00		
pH	-0.261	0.145	-1.00	0.829	0.600	1.00	
Turb	0.290	0.667	-0.086	-0.257	0.200	0.086	1.00

At the coral reef sites (n = 6) during November 2024 to May 2025, the Spearman rank correlation matrix showed a strong inverse relationship between sedimentation and salinity ($r = -0.949$), indicating that higher sedimentation is consistently associated with lower salinity conditions. This pattern suggests that freshwater inputs, such as rainfall or coastal runoff, may simultaneously reduce salinity and increase sediment loading in nearshore reef environments. All other sedimentation relationships were weak and did not exceed the critical threshold ($r = 0.811$), indicating no consistent association between sedimentation and the remaining abiotic variables at this sample size.

In contrast, several strong and statistically significant relationships were observed among the abiotic variables themselves. Temperature showed strong positive correlations with pressure ($r = 0.821$), pH ($r = 0.813$), and turbidity ($r = 0.818$), suggesting coordinated variability likely driven by shared seasonal or hydrodynamic forcing. Pressure also showed a strong positive relationship with turbidity ($r = 0.869$), indicating that location depth may influence suspended particle distribution and associated environmental conditions (Table 8).

Overall, these results suggest that sedimentation at the coral reef sites is most strongly associated with freshwater-driven changes in salinity, while the broader abiotic environment is structured by tightly coupled physical processes characteristic of nearshore reef systems.

Table 8. Pearson correlation matrix of sedimentation rates and abiotic water quality parameters (temperature (Temp °C), salinity (Sal, NTU), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Tub, NTU)) across six coral sites (n = 6; (1N, 2N, 3N, 1S, 2S, and 3S), during November 2024 – May 2025 with significance threshold (r -critical = 0.811). Yellow highlighting indicated statistical significance.

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
<i>Sed</i>	1.00						
<i>Temp</i>	-0.454	1.00					
<i>Sal</i>	-0.949	0.416	1.00				
<i>Pres</i>	-0.030	0.821	0.141	1.00			
<i>Rdo</i>	0.086	-0.311	-0.229	-0.556	1.00		
<i>pH</i>	-0.427	0.813	0.368	0.645	-0.572	1.00	
<i>Turb</i>	-0.335	0.818	0.463	0.869	-0.285	0.522	1.00

Because sedimentation rates and turbidity are likely non-normally distributed, the dataset was reanalyzed using non-parametric Spearman rank correlation instead of Pearson correlation. This analysis revealed a strong inverse relationship between sedimentation and salinity ($r = -0.812$) during November 2024 – May 2025, indicating that higher sedimentation is consistently associated with lower salinity conditions. This pattern is consistent with freshwater influence, where rainfall and/or coastal runoff simultaneously reduce salinity while increasing suspended and deposited sediment loads in nearshore reef environments. All other sedimentation relationships were weak to moderate and did not exceed the critical correlation threshold ($|r| \geq 0.811$), suggesting no strong or consistent associations between sedimentation and the remaining abiotic variables at this sample size and spatial scale.

In contrast, several strong and statistically meaningful relationships were observed among the other abiotic variables. Temperature showed strong positive correlations with pH ($r = 0.822$), turbidity ($r = 0.833$), and pressure ($r = 0.772$), indicating coordinated variability likely driven by shared seasonal forcing and regional hydrodynamic structure. Turbidity also exhibited a strong positive relationship with pressure ($r = 0.829$), suggesting that depth plays an important role in regulating suspended particulate matter and associated chemical variability (Table 9).

Overall, these results indicate that sedimentation at these coral reef sites is primarily influenced by freshwater-driven variability in salinity, while the broader abiotic environment is structured by tightly coupled physical and biogeochemical processes characteristic of dynamic nearshore reef systems.

Table 9. Spearman rank correlation matrix showing relationships between sedimentation rates and abiotic water quality parameters (temperature (Temp, °C), salinity (Sal), pressure (Pres, psi), relative dissolved oxygen (Rdo, mg/L), pH, and turbidity (Turb, NTU)) across six coral sites ($n = 6$; (1N, 2N, 3N, 1S, 2S, and 3S), during November 2024 – May 2025 with significance threshold (r -critical = 0.811). Yellow highlighting indicated statistical significance.

	<i>Sed</i>	<i>Temp</i>	<i>Sal</i>	<i>Pres</i>	<i>Rdo</i>	<i>pH</i>	<i>Turb</i>
<i>Sed</i>	1.00						
<i>Temp</i>	-0.494	1.00					
<i>Sal</i>	-0.812	0.376	1.00				
<i>Pres</i>	-0.257	0.772	0.377	1.00			
<i>Rdo</i>	0.029	-0.313	0.015	-0.551	1.00		
<i>Ph</i>	-0.304	0.822	0.189	0.507	-0.514	1.00	
<i>Turb</i>	-0.429	0.833	0.551	0.829	-0.029	0.439	1.00

Overall, no correlations at the coral sites were consistently observed across multiple time points. This may reflect seasonal variability in the measured parameters or could be attributable to data noise or collection-related inconsistencies. Longer-term analyses spanning multiple years and seasons would be necessary to determine whether these relationships exhibit true seasonal patterns

3.5. Sedimentation Rates at Coral Reef (1N, 2N, 3N, 1S, 2S, and 3S) and Coastal Sites (BC, MB, HL, HW, and FL) during May 2025- April 2026.

Coral Reef Sites (1N, 2N, 3N, 1S, 2S, and 3S)

Across the six coral reef sites, sedimentation rates exhibited clear spatial variability during the 113-day deployment period (5/21/25–9/11/25). Overall, rates ranged from a low of 5.49 g/day (2S) to a high of 24.60 g/day (1S), indicating substantial heterogeneity in sediment deposition across relatively short spatial distances.

The highest sedimentation rates were consistently observed at the southern sites, particularly 1S (24.60 g/day) and 3S (15.39 g/day), suggesting stronger sediment delivery or resuspension processes in this region. In contrast, northern and central sites showed lower to intermediate rates, with 3N (6.02 g/day) and 2S (5.49 g/day) representing the lowest accumulation, and 2N (9.03 g/day) and 1N (17.52 g/day) falling within a moderate range (Figure 23 and Table 10).

This spatial pattern suggests a pronounced gradient in sediment dynamics, with elevated deposition concentrated at specific sites, especially 1S, potentially reflecting localized influences such as proximity to the shore, hydrodynamics (currents, waves, freshwater flows), or episodic resuspension events (weather/wind). The marked differences among nearby sites also indicate that sedimentation is highly patchy at the reef scale, emphasizing the importance of fine-scale environmental variability in controlling benthic sediment exposure.

Table 10. Sedimentation weights (g) and rates (g/day) at six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), following sample collection on 9/11/25. Sediment tubes were deployed for 113 days across all sites, from 5/21/25 to 9/11/25.

Date	Site	Sediment weight (g)	Sediment rate (g/day)
9/11/25	1N	1980	17.5
	2N	1020	9.03
	3N	680	6.02
	1S	2780	24.6
	2S	620	5.49

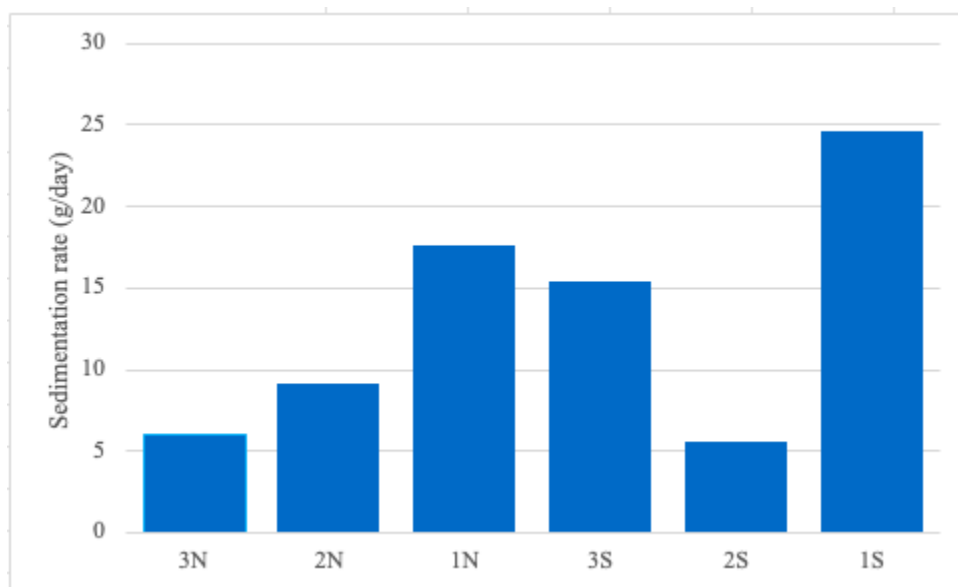


Figure 23. Sedimentation rates from six coral sites (3N, 2N, 1N, 3S, 2S, and 1S), following sample collection on 9/11/25. Sediment tubes were deployed for 113 days across all sites, from 5/21/25 to 9/11/25.

Across the six coral reef sites, sedimentation rates exhibited pronounced spatial variability during the 117-day deployment period (9/11/25–1/06/26). Overall, rates ranged from a low of 17.95 g/day at 3N to a high of 130.77 g/day at 1N, indicating extremely high and uneven sediment deposition across the reef system compared to the previous sampling period.

The highest sedimentation rate was observed at 1N (130.77 g/day), far exceeding all other sites and suggesting a substantial localized input or resuspension event. Elevated rates were also recorded at 1S (56.41 g/day), while intermediate accumulation occurred at 2S and 3S (both 32.48 g/day) and 2N (27.35 g/day). In contrast, 3N (17.95 g/day) exhibited the lowest sedimentation rate, indicating relatively reduced sediment accumulation at this site (Figure 11 and Table 24).

This spatial pattern highlights a shift in sediment dynamics, with the northern site 1N emerging as a dominant hotspot of deposition during this period. The magnitude of sedimentation at 1N suggests strong localized influences, potentially including increased terrestrial runoff, altered hydrodynamic conditions, or episodic disturbance events.

Table 11. Sedimentation weights (g) and rates (g/day) rates at six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), calculated following sample collection on 1/06/26. Sediment tubes were deployed for 117 days across all sites, from 9/11/25 to 1/06/26.

Date	Site	Sediment weight (g)	Sediment rate (g/day)
1/06/25	1N	15,300	131
	2N	3,200	27.4
	3N	2,100	17.9
	1S	6,600	56.4
	2S	3,800	32.5
	3S	3,800	32.5

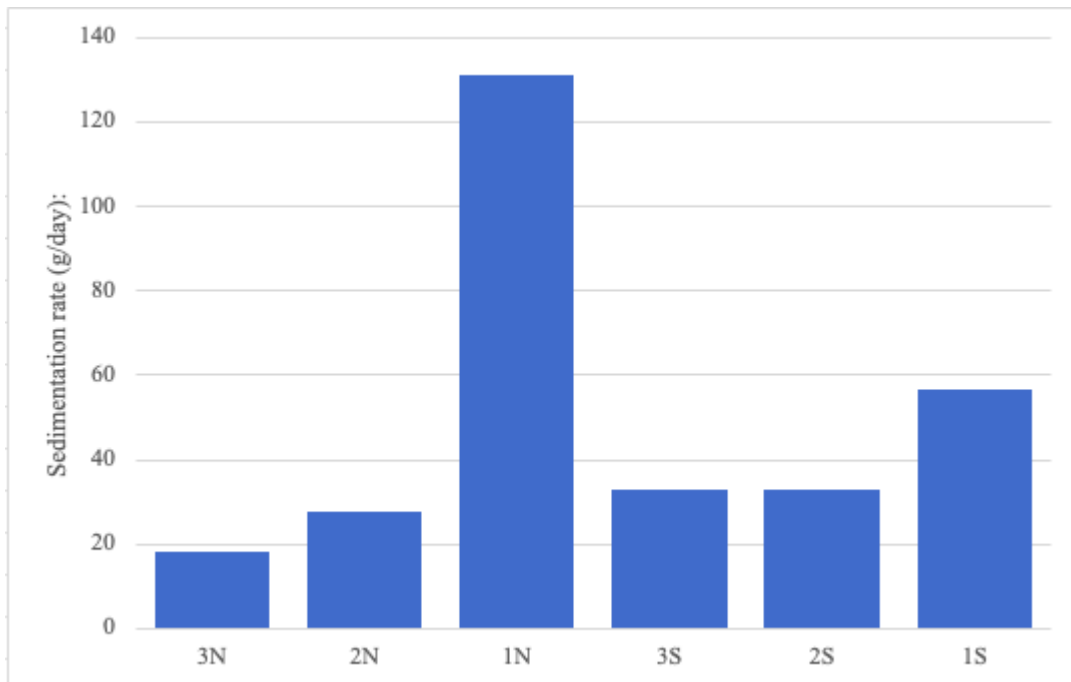


Figure 24. Sedimentation rates from six coral sites (3N, 2N, 1N, 3S, 2S, and 1S), following sample collection on 1/06/25. Sediment tubes were deployed for 117 days for all sites: 9/11/25 to 1/06/26.

Across the six coral reef sites, sedimentation rates exhibited consistently high and spatially variable patterns during the 117-day deployment period (1/06/26–4/06/26). Overall, rates ranged from a low of 87.56 g/day at 3N to a high of 161.78 g/day at 1N, indicating substantially elevated sediment deposition across all sites relative to earlier sampling periods.

The highest sedimentation rate was observed at 1N (161.78 g/day), maintaining its position as a dominant hotspot of deposition. Elevated rates were also recorded at 3S (119.56 g/day) and 1S (99.11 g/day), while moderately high and relatively similar rates occurred at 2N (90.67 g/day), 2S (88.00 g/day), and 3N (87.56 g/day). Unlike previous periods, where variability was more pronounced, sedimentation during this interval was uniformly high across all sites, though still exhibiting clear spatial differences (Figure 12 and Table 25).

This pattern suggests a system-wide increase in sediment delivery and/or resuspension, with particularly intense accumulation at 1N and 3S. The elevated and relatively consistent rates across both northern and southern sites indicate broader-scale environmental forcing, potentially driven by seasonal hydrodynamic conditions, increased runoff, or persistent disturbance events. Despite this overall increase, the persistence of higher deposition at specific sites highlights the continued influence of

Table 12. Sedimentation weights (g) and rates (g/day) at six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), calculated following sample collection on 4/06/26. Sediment tubes were deployed for 117 days across all sites, from 1/06/26 to 4/06/2026.

Date	Site	Sediment weight (g)	Sediment rate (g/day)
4/06/25	1N	14,560	162
	2N	8,160	90.7
	3N	7,880	87.6
	1S	8,920	99.1
	2S	7,920	88.0
	3S	10,760	120

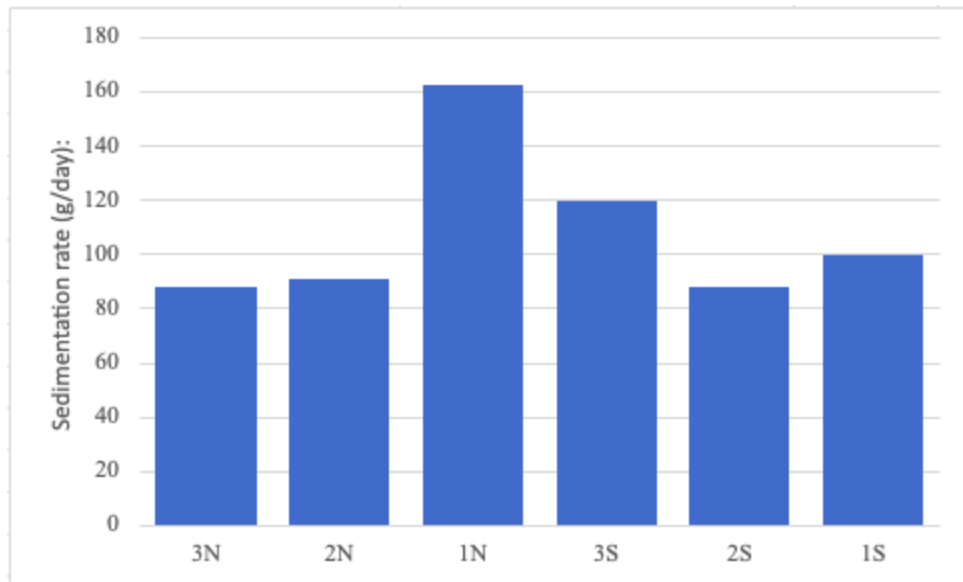


Figure 25. Sedimentation rates from six coral sites (3N, 2N, 1N, 3S, 2S, and 1S), following sample collection on 4/06/25. Sediment tubes were deployed for day 90 days for all sites: 1/06/26 to 4/06/26.

localized factors, reinforcing the spatially heterogeneous nature of sediment dynamics across the reef.

Across the six coral reef sites, sedimentation rates exhibited strong temporal increases and persistent spatial variability across the three deployment periods (5/21/25–9/11/25; 9/11/25–1/06/26; 1/06/26–4/06/26). Overall, rates increased substantially over time, rising from a low range of 5.49–24.60 g/day in the first period to markedly higher values of 17.95–130.77 g/day in the second period, and reaching a peak range of 87.56–161.78 g/day in the final period. This indicates a clear intensification of sediment deposition across the reef system over the study duration (Table 13).

Spatially, 1N consistently exhibited the highest sedimentation rates across all three sampling periods (17.52, 130.77, and 161.78 g/day, respectively), indicating it as a persistent hotspot of sediment accumulation. In contrast, 3N generally remained among the lower accumulation sites in the first two periods but increased substantially in the final period (6.02 → 17.95 → 87.56 g/day), suggesting a delayed but pronounced response to broader environmental forcing. Similarly, 2N and 2S showed strong temporal increases, particularly in the final deployment period (90.67 and 88.00 g/day, respectively). The southern sites (1S, 2S, and 3S) also demonstrated notable increases over time, with 3S showing the most pronounced escalation (15.39 → 32.48 → 119.56 g/day), ultimately reaching rates comparable to the highest northern sites in the final period.

Overall, while spatial differences among sites persisted, the dominant pattern was a system-wide increase in sedimentation through time, suggesting strengthening hydrodynamic or terrestrial inputs affecting the entire reef system. The persistence of elevated rates at specific sites, particularly 1N and 3S, further indicates that localized controls continue to interact with broader-scale environmental drivers in shaping sediment deposition patterns across the reef (Table 13 and Figure 26).

Table 13. Sedimentation weights (g) and rates (g/day) from all six coral reef sites (1N, 2N, 3N, 1S, 2S, and 3S), calculated following sample collections on 9/11/25, 1/06/26,

and 4/06/26. Sediment tubes were deployed for 113 days (5/21/25–9/11/25), 117 days (9/11/25–1/06/26), and 117 days (1/06/26–4/06/26).

Date	Site	Sediment weight (g)	Sediment rate (g/day)
9/11/25	1N	1980	17.5
	2N	1020	9.03
	3N	680	6.02
	1S	2,780	24.6
	2S	620	5.49
	3S	1740	15.4
1/06/26	1N	15,300	131
	2N	3,200	27.4
	3N	2,100	17.9
	1S	6,600	56.4
	2S	3,800	32.5
	3S	3,800	32.5
4/06/26	1N	14,560	162
	2N	8,160	90.7
	3N	7,880	87.6
	1S	8,920	99.1
	2S	7,920	88.0
	3S	10,760	120

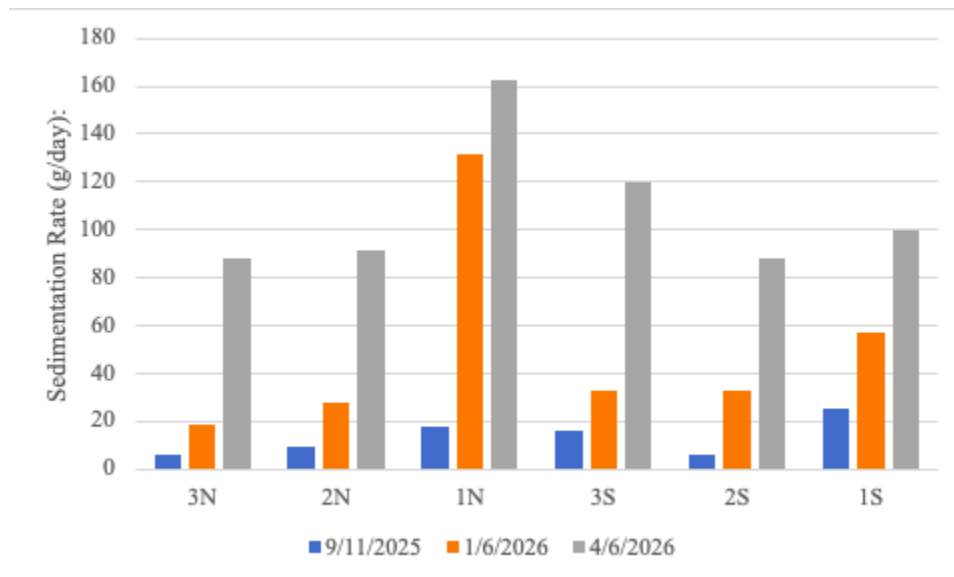


Figure 26. Sediment rates (g/day) from six coral sites (3N, 2N, 1N, 3S, 2S, and 1S) after collection on 9/11/25, 1/06/26, and 4/06/26.

Coastal Sites (BC, MB, HL, HW, and FL)

Sediment daily rate accumulations during the 4/08/25 - 9/09/25 for BC, MB, HL, HW, locations and 5/21/25 - 9/09/25 for FL show a clear spatial pattern. The highest sedimentation rates were observed at MB (2.52 g/day) and BC (2.09 g/day), followed by HL (1.64 g/day), indicating relatively elevated sediment input at these locations over the deployment period. In contrast, HW (0.75 g/day) and FL (0.65 g/day) exhibited markedly lower sedimentation rates, suggesting reduced sediment deposition or more stable conditions at these sites (Table 14 and Figure 27).

Despite differences in deployment duration (154 days for BC, MB, HL, and HW; 111 days for FL), normalization to daily rates allows for direct comparison across sites. The consistently higher rates at MB and BC may reflect localized influences such as greater hydrodynamic activity (currents, tidal action, wind, water flow), proximity to sediment sources through terrestrial runoff. Conversely, the lower rates at HW and FL suggest either reduced sediment supply or environmental conditions that limit deposition.

Table 14. Sediment weights (g) and rates (g/day) from five coastal sites (BC, MB, HL, HW, and FL) following sample collection on 9/09/25. Sediment tubes were deployed for 154 days for BC, MB, HL, and HW: 4/08/25 - 9/09/25 and for 111 days for FL: 5/21/25 - 9/09/25.

Date	Site	Sediment weight	Sediment rate
9/09/25	BC	321	2.09
	MB	388	2.52
	HL	252	1.64
	HW	116	0.750
	FL	72	0.650

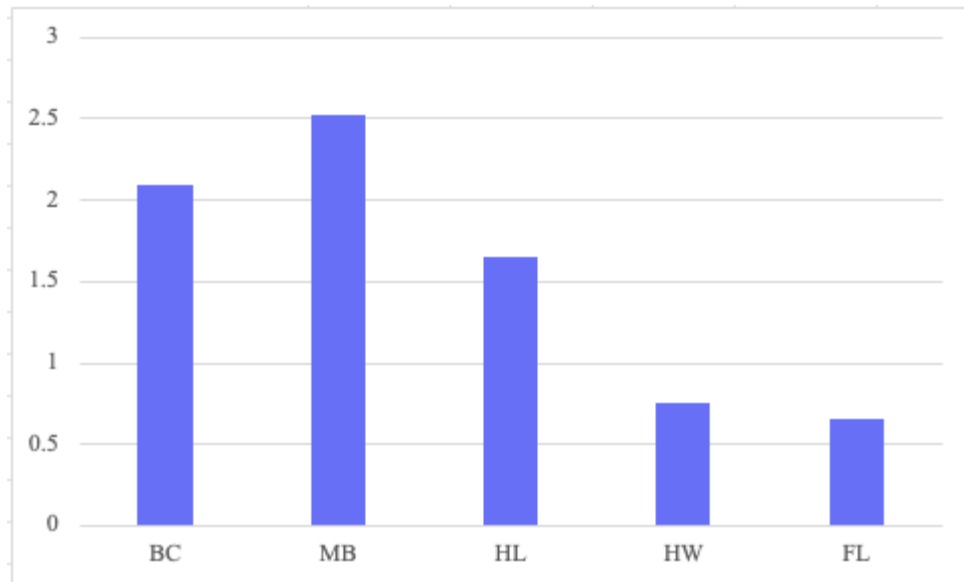


Figure 27. Sediment rates from five sites (BC, MB, HL, HW, and FL) following sample collection on 9/09/25. Sediment tubes were deployed for 154 days for BC, MB, HL, and HW: 4/08/25 - 9/09/25. Sediment tubes were deployed for 111 days for Site FL: 5/21/25 - 9/09/25.

Sedimentation rates during the second deployment period (09/09/25–12/19/25) were substantially higher across all sites compared to the previous sampling interval, indicating a pronounced increase in sediment accumulation during this time. BC exhibited the highest sedimentation rate (140.82 g/day), clearly exceeding all other sites and suggesting a strong localized input or resuspension of sediments. HW (110.32 g/day), FL (105.37 g/day), and HL (100.42 g/day) formed a secondary group with moderately elevated and relatively similar rates, while MB (97.64 g/day) recorded the lowest sedimentation rate among the five sites (Table 15 and Figure 28).

Because all sites were deployed for the same duration (101 days), comparisons are direct and not influenced by differences in exposure time. The elevated rates across all locations point to a system-wide increase in sediment delivery, potentially driven by seasonal factors such as increased storm activity, runoff, or hydrodynamic forcing during the fall period. The notably higher rate at BC suggests that this site may be more sensitive to these drivers, possibly due to proximity to sediment sources or greater water movement.

Table 15. Sediment weights (g) and rates (g/day) from five coastal sites (BC, MB, HL, HW, and FL) following sample collection on 12/19/25. Sediment tubes were deployed for 101 days for all sites: 09/09/25 - 12/19/25.

Date	Site	Sediment weight	Sediment rate
12/19/25	BC	14,222	141
	MB	9,862	97.6
	HL	10,142	100
	HW	11,142	110
	FL	10,642	105

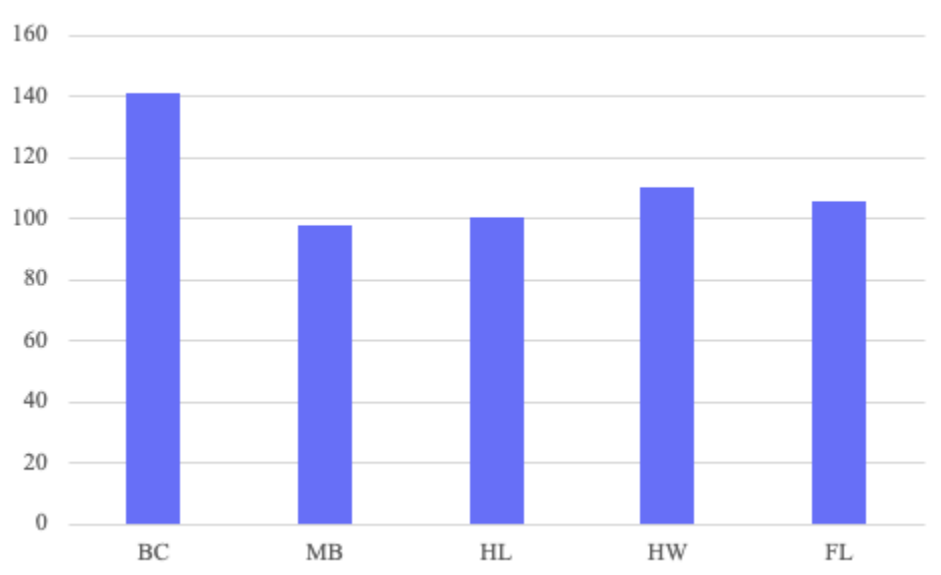


Figure 28. Sediment rates from five sites (BC, MB, HL, HW, and FL) following sample collection on 12/19/25. Sediment tubes were deployed for 101 days for BC, MB, HL, HW, and FL: 09/09/25 - 12/19/25.

During the third deployment period (12/19/25–04/07/26), sedimentation rates declined across all sites relative to the previous interval, indicating a reduction in overall sediment input or transport during this timeframe. MB recorded the highest sedimentation rate (110.28 g/day), distinguishing it as the primary site of accumulation during this period. In contrast, HL exhibited the lowest rate (72.66 g/day), suggesting comparatively limited sediment deposition (Table 16 and Figure 29).

The remaining sites, HW (89.17 g/day), BC (87.34 g/day), and FL (79.08 g/day), clustered within a moderate range, reflecting less pronounced spatial variability than observed in the prior sampling period. Because all sediment tubes were deployed for an equal duration (109 days), differences among sites are directly comparable and reflect true spatial patterns rather than methodological variation.

Table 16. Sediment weights (g) and rates (g/day) from five coastal sites (BC, MB, HL, HW, and FL) following sample collection on 04/07/26. Sediment tubes were deployed for 109 days for all sites: 12/19/25 - 04/07/26.

Date	Site	Sediment weight	Sediment rate
04/07/26	BC	9,520	87.3
	MB	12,020	110
	HL	7,920	72.7
	HW	9,720	89.2
	FL	8,620	79.1

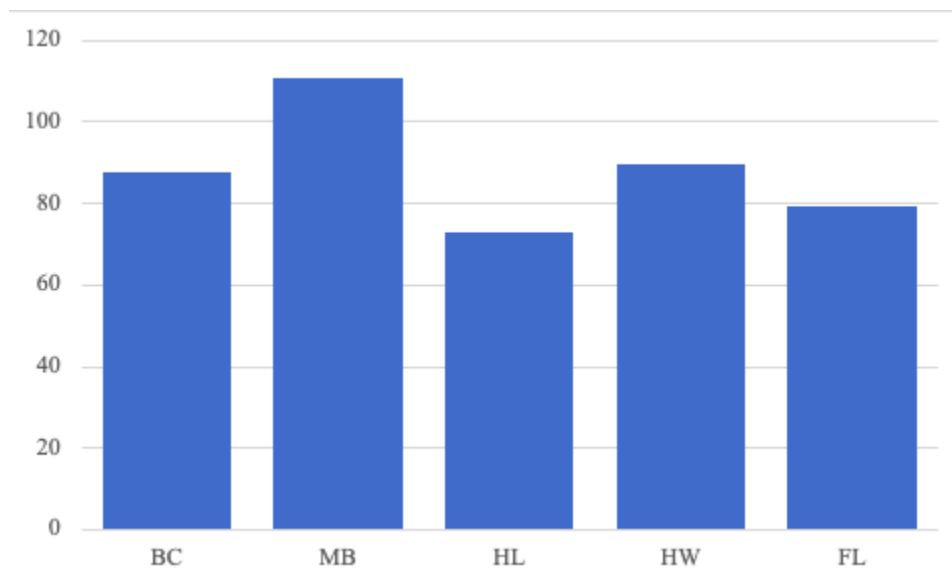


Figure 29. Sediment rates from five sites (BC, MB, HL, HW, and FL) following sample collection on 04/07/26. Sediment tubes were deployed for 109 days for all sites: 12/19/25 - 04/07/26.

Across all three deployment periods, sedimentation patterns reveal a clear temporal trend characterized by a pronounced peak in the fall (09/09/25–12/19/25), followed by a decline in the winter–spring interval (12/19/25–04/07/26), and comparatively low rates during the initial spring–summer period (04/08/25–09/09/25). Sedimentation rates increased dramatically at all sites between the first and second deployments, with values rising from <3 g/day to approximately 98–141 g/day, indicating a system-wide intensification of sediment input. This peak was most pronounced at BC, which consistently exhibited the highest accumulation during the fall period (Table 17 and Figure 30).

In the subsequent deployment, sedimentation rates decreased across all sites but remained substantially higher than those observed during the initial period. During this phase, MB emerged as the site with the highest sedimentation rate, while HL consistently exhibited the lowest rates across both later deployments. The remaining sites (BC, HW, and FL) showed moderate and relatively similar values, suggesting a convergence in sedimentation dynamics following the fall peak.

Spatial variability persisted throughout all sampling periods, though it was most pronounced during the fall when sediment inputs were highest. The shift in dominant sites—from BC during peak conditions to MB during the declining phase—highlights the dynamic and site-specific nature of sediment transport processes. Overall, these patterns suggest strong seasonal control on sedimentation, likely driven by variations in hydrodynamic energy, storm frequency, and terrestrial runoff, with episodic events during the fall contributing disproportionately to total sediment accumulation.

Table 17. Sediment weights (g) and rates (g/day) from five coastal sites (BC, MB, HL, HW, and FL) following sample collection on 9/09/25, 12/19/25, and 04/07/26. Sediment tubes were deployed for 154 days for BC, MB, HL, and HW: 4/08/25 - 9/09/25, 101 days for all sites: 09/09/25 - 12/19/25, and 109 days for all sites: 12/19/25 - 04/07/26.

Date	Site	Sediment weight	Sediment rate
9/09/25	BC	321	2.09
	MB	388	2.52
	HL	252	1.64
	HW	116	0.750
	FL	71.80	0.650
12/19/25	BC	14,222	141
	MB	9,862	97.6
	HL	10,142	100
	HW	11,142	110
	FL	10,642	105
04/07/26	BC	9,520	87.3
	MB	12,020	110
	HL	7,920	72.7
	HW	9,720	89.2
	FL	8,620	79.1

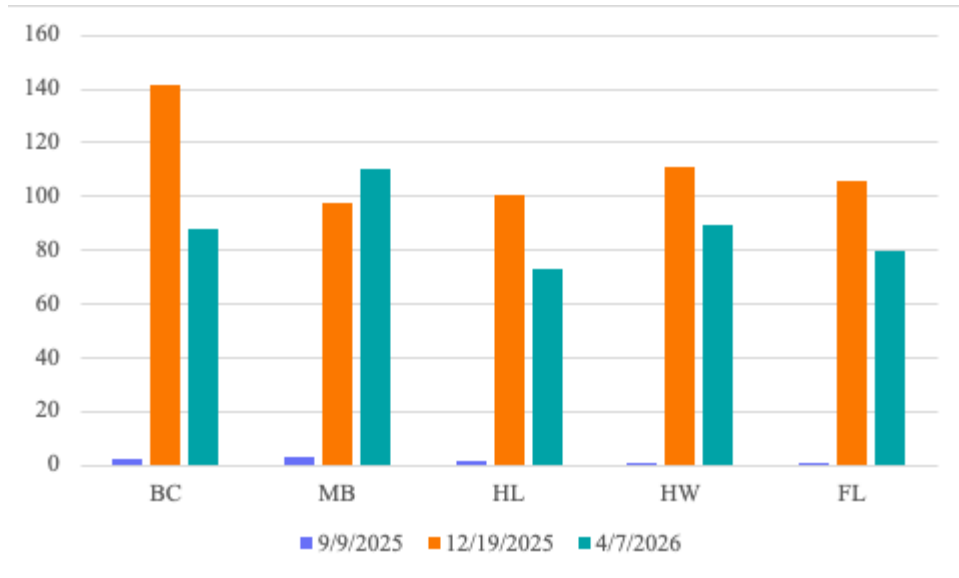


Figure 30. Sediment rates from five sites (BC, MB, HL, HW, and FL) calculated after collection on 09/09/25, 12/19/25, and 04/07/26. Sediment tubes were deployed for 154 days for BC, MB, HL, and HW: 4/08/25 - 9/09/25, 101 days for all sites: 09/09/25 - 12/19/25, and 109 days for all sites: 12/19/25 - 04/07/26.

3.6. Abiotic Data at Coral Reef (1N, 2N, 3N, 1S, 2S, and 3S)

Continuous water quality monitoring at coral sites 1N, 1S, 2N, 2S, 3N, and 3S from July 1, 2025, through May 6, 2026, revealed temporal variability across all measured physicochemical parameters, including temperature, pH, dissolved oxygen, turbidity, salinity, and pressure. Seasonal trends were observed in temperature and salinity, while pH and pressure remained comparatively stable throughout the monitoring period. Dissolved oxygen and turbidity exhibited greater short-term fluctuations, likely associated with changing environmental conditions such as rainfall, runoff, tidal influence, and biological activity. The average daily, weekly, and monthly data are provided in Tables 18-41. Overall, the dataset indicates dynamic but generally stable water quality conditions at Site 1N over the study period.

Table 18. Daily averages data logged from site 1N over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.4	36.43	8.96	5.75	8.30	32.7
7/2/25	29.4	35.9	8.94	5.68	8.32	11.8
7/3/25	29.4	36.6	8.91	5.48	8.30	13.2
7/4/25	29.3	36.6	8.88	5.61	8.31	12.7
7/5/25	29.1	37.5	8.8	5.76	8.32	16.0
7/6/25	28.1	37.8	8.76	6.23	8.35	12.9
7/7/25	27.3	37.7	9.17	6.29	8.35	19.6
7/8/25	28.4	36.7	9.41	6.22	8.34	43.8
7/9/25	29.2	37.1	9.41	6.38	8.35	13.7
7/10/25	28.9	37.8	9.4	6.13	8.34	8.00
7/11/25	29.4	37.1	9.41	6.11	8.34	6.48
7/12/25	29.7	36.6	9.47	5.73	8.33	27.5
7/13/25	29.7	37.9	9.45	5.90	8.34	9.82
7/14/25	29.1	37.4	9.48	5.64	8.32	32.4
7/15/25	29.4	36.7	9.49	5.76	8.34	2.45
7/16/25	29.7	36.5	9.48	5.95	8.36	11.4
7/17/25	29.8	33.3	9.51	5.85	8.35	36.7
7/18/25	30.0	18.5	9.54	NA	8.27	299
7/19/25	30.2	14.1	9.59	NA	8.07	446
7/20/25	30.2	14.1	9.63	NA	7.93	341
7/21/25	30.3	14.0	9.64	NA	7.96	284
7/22/25	30.6	13.8	9.62	NA	8.18	227
7/23/25	30.5	13.6	9.61	NA	8.13	136
7/24/25	30.4	21.7	9.59	NA	8.24	92.9
7/25/25	30.1	25.4	9.57	NA	8.30	165
7/26/25	30.2	14.0	9.55	NA	8.18	168
7/27/25	30.4	13.5	9.56	NA	8.21	158
7/28/25	30.4	13.3	9.58	NA	8.15	73.8
7/29/25	30.7	13.3	9.57	NA	8.19	110
7/30/25	30.6	13.2	9.59	NA	8.10	274
7/31/25	30.8	13.1	9.59	NA	8.06	274
8/1/25	31.0	13.1	9.57	NA	8.14	92.8
8/2/25	31.2	12.9	9.53	NA	8.16	150
8/3/25	31.2	13.0	9.55	NA	8.28	90.5
8/4/25	31.3	13.0	9.61	NA	8.27	44.0
8/5/25	31.4	13.0	9.62	NA	8.29	66.2
8/6/25	31.4	12.9	9.68	NA	8.33	166
8/7/25	31.6	12.9	9.68	NA	8.32	430
8/8/25	31.4	12.9	9.60	5.80	8.30	6.72

8/9/25	31.0	37.8	9.03	5.24	8.25	4.18
8/10/25	30.6	37.7	9.07	5.38	8.27	0.978
8/11/25	30.7	37.7	9.05	5.84	8.29	301
8/12/25	30.8	37.3	8.96	5.72	8.26	563
8/13/25	30.9	37.7	9.35	5.21	8.26	153
8/14/25 - 9/30/25	NA	NA	NA	NA	NA	NA
10/1/25	29.9	42.3	8.86	5.60	8.18	NA
10/2/25	29.9	42.5	8.93	5.89	8.21	NA
10/3/25	29.3	41.8	8.98	5.89	8.17	NA
10/4/25	29.0	41.5	9.10	6.08	8.19	NA
10/5/25	29.0	41.9	8.99	6.03	8.19	NA
10/6/25	29.1	42.5	8.97	6.10	8.19	NA
10/7/25	29.1	41.9	8.88	5.92	8.18	NA
10/8/25	28.9	41.5	8.84	5.85	8.17	NA
10/9/25	28.9	41.6	8.80	5.55	8.16	NA
10/10/25	28.9	41.7	8.79	5.40	8.16	NA
10/11/25	29.2	42.5	8.84	5.52	8.19	NA
10/12/25	28.9	42.0	8.94	5.55	8.17	NA
10/13/25	28.9	41.9	8.91	6.18	8.20	NA
10/14/25	28.8	41.8	9.04	5.63	8.17	NA
10/15/25 - 10/27/25	NA	NA	NA	NA	NA	NA
10/28/25	28.6	43.2	8.59	6.65	8.27	0.00
10/29/25	28.4	42.6	8.58	6.21	8.26	NA
10/30/25	28.2	43.0	8.61	6.15	8.26	NA
10/31/25	27.6	43.0	8.56	6.35	8.26	NA
11/1/25	27.0	42.5	8.53	6.47	8.26	0.0246
11/2/25	27.4	42.8	8.53	6.35	8.26	0.00
11/3/25	27.3	42.8	8.46	6.28	8.25	0.0358
11/4/25	26.8	42.2	8.46	6.39	8.24	1.20
11/5/25	26.6	42.1	8.48	6.61	8.25	2.21
11/6/25	27.2	42.7	8.40	6.35	8.26	NA
11/7/25	27.4	42.8	8.34	6.30	8.26	NA
11/8/25	27.7	43.1	8.32	6.43	8.26	NA
11/9/25	27.9	42.2	8.29	6.39	8.26	NA
11/10/25	27.8	43.3	8.23	6.35	8.27	NA
11/11/25	26.0	43.2	8.26	6.68	8.28	NA
11/12/25	25.2	43.2	8.37	6.84	8.29	NA
11/13/25	25.7	43.4	8.36	6.65	8.29	NA
11/14/25	25.9	43.2	8.33	6.89	8.31	NA

11/15/25	25.6	43.4	8.30	7.28	8.32	NA
11/16/25	26.2	43.3	8.30	6.89	8.30	NA
11/17/25	26.3	43.1	8.44	6.94	8.31	NA
11/18/25	26.5	43.4	8.53	6.74	8.31	NA
11/19/25	26.5	43.3	8.50	6.79	8.31	NA
11/20/25	26.4	43.3	8.46	6.80	8.31	NA
11/21/25	26.5	43.3	8.50	6.73	8.31	NA
11/22/25	26.5	43.3	8.47	6.69	8.31	NA
11/23/25	26.5	43.3	8.52	6.85	8.31	NA
11/24/25	26.4	43.3	8.57	6.82	8.31	0.00
11/25/25	26.3	43.0	8.62	6.74	8.29	0.00
11/26/25	26.6	43.4	8.58	6.74	8.31	0.143
11/27/25	26.6	43.4	8.57	6.62	8.31	0.00
11/28/25	25.7	43.1	8.59	6.64	8.30	0.562
11/29/25	24.6	43.0	8.67	6.57	8.28	14.2
11/30/25	24.5	42.7	8.75	6.55	8.28	17.1
12/01/25	25.2	42.9	8.66	6.56	8.30	0.749
12/02/25	25.7	42.8	8.58	6.52	8.30	2.13
12/03/25	25.8	43.1	8.59	6.66	8.31	0.00
12/04/25	26.0	43.0	8.52	6.81	8.32	0.00
12/05/25	26.3	42.9	8.49	6.72	8.32	0.00
12/06/25	26.3	42.9	8.42	6.62	8.31	3.05
12/07/25	26.4	43.1	8.44	6.66	8.32	1.03
12/08/25	26.4	43.1	8.38	6.67	8.33	1.27
12/09/25	25.9	43.1	8.48	6.34	8.31	4.54
12/10/25	25.4	42.4	8.54	6.23	8.27	0.653
12/11/25	25.2	42.5	8.57	6.56	8.29	1.08
12/12/25	25.4	42.5	8.54	6.74	8.33	1.12
12/13/25	25.1	42.3	8.56	6.65	8.32	0.252
12/14/25	25.7	42.4	8.50	6.73	8.33	1.25
12/15/25	25.2	42.1	8.61	6.60	8.32	21.5
12/16/25	24.0	42.8	8.58	6.76	8.32	9.70
12/17/25	24.1	42.7	8.57	6.91	8.34	47.3
12/18/25	24.7	42.4	8.58	6.80	8.33	8.43
12/19/25	25.5	42.7	8.50	6.81	8.34	4.31
12/20/25	25.5	42.6	8.46	6.97	8.34	0.314
12/21/25	26.0	42.8	8.51	6.61	8.34	1.39
12/22/25	25.3	42.7	8.51	6.82	8.33	4.62
12/23/25	24.4	42.2	8.48	6.89	8.32	28.2
12/24/25	24.1	42.2	8.49	6.96	8.32	14.9
12/25/25	24.3	42.4	8.56	7.19	8.34	16.5
12/26/25	24.9	42.7	8.53	7.12	8.37	86.3
12/27/25	25.2	42.7	8.55	6.93	8.36	13.5

12/28/25	25.3	42.5	8.56	6.84	8.35	16.0
12/29/25	25.4	42.5	8.58	7.01	8.36	16.0
12/30/25	24.9	42.5	8.61	6.99	8.36	14.5
12/31/25	23.4	42.3	8.62	7.24	8.38	23.7
01/01/26	22.9	42.5	8.62	7.14	8.38	30.5
01/02/26	23.7	42.5	8.57	6.98	8.37	33.9
01/03/26	23.7	42.3	8.53	6.95	8.36	53.2
01/04/26	24.0	42.3	8.53	6.89	8.37	54.3
01/05/26	23.4	42.1	8.55	7.17	8.37	64.6
01/06/26	24.3	42.0	8.46	7.02	8.34	35.7
01/07/26	24.6	42.2	8.45	6.91	8.33	93.6
01/08/26	24.7	42.3	8.43	6.90	8.33	228
01/09/26	24.8	41.4	8.41	6.95	8.32	40.3
01/10/26	24.6	42.0	8.36	6.87	8.31	160
01/11/26	24.7	42.2	8.32	7.02	8.32	8.11
01/12/26	24.6	42.3	8.38	6.80	8.31	3.71
01/13/26	24.1	41.8	8.38	6.59	8.29	28.6
01/14/26	24.1	41.2	8.42	6.75	8.30	15.2
01/15/26	23.7	42.1	8.35	6.90	8.32	10.2
01/16/26	22.6	41.9	8.47	7.21	8.35	432
01/17/26	22.6	41.8	8.44	7.22	8.35	450
01/18/26	23.2	42.0	8.45	6.97	8.35	1284
01/19/26	22.6	41.9	8.42	7.24	8.36	435
01/20/26	21.8	41.1	8.53	7.43	8.37	222
01/21/26	21.4	40.9	8.56	7.21	8.35	332
01/22/26	22.3	41.3	8.50	7.14	8.35	3.26
01/23/26	24.0	42.2	8.47	7.23	8.37	4.88
01/24/26	24.4	42.0	8.45	7.04	8.36	47.1
01/25/26	24.7	41.1	8.38	7.06	8.35	20.2
01/26/26	24.6	41.9	8.36	6.92	8.36	14.2
01/27/26	23.5	40.9	8.44	6.92	8.36	52.9
01/28/26	22.7	41.3	8.46	7.09	8.37	60.4
01/29/26	22.6	42.0	8.50	7.19	8.39	299
01/31/26	23.2	41.8	8.48	7.20	8.39	48.1
02/01/26	23.4	42.1	8.43	6.98	8.39	172
02/02/26	21.8	42.0	8.49	7.16	8.40	151
02/03/26	21.0	41.4	8.51	7.41	8.41	244
02/04/26	20.9	42.0	8.61	7.52	8.41	15.3
02/05/26	21.6	42.0	8.59	7.47	8.40	120
02/06/26	22.1	41.6	8.50	7.21	8.40	1193
02/07/26	21.1	42.0	8.56	7.37	8.41	49.5
02/08/26	21.5	41.9	8.50	7.39	8.40	19.4
02/10/26	21.4	42.1	8.57	7.63	8.41	23.1

02/11/26	21.8	42.1	8.60	7.67	8.41	34.8
02/12/26	22.0	42.1	8.58	7.36	8.39	52.6
02/13/26	22.4	42.2	8.58	7.22	8.38	57.0
02/14/26	22.4	42.1	8.60	7.32	8.39	75.0
02/15/26	22.9	42.0	8.60	7.19	8.38	78.6
02/16/26	23.1	42.1	8.53	7.21	8.38	42.6
02/17/26	23.2	41.8	8.51	7.19	8.37	44.8
02/18/26	23.2	41.4	8.51	7.27	8.39	22.9
02/19/26	23.2	41.5	8.56	7.18	8.38	15.0
02/20/26	23.3	42.3	8.42	7.14	8.28	9.44
02/21/26	23.5	43.1	8.35	7.06	8.18	56.9
02/22/26	23.5	43.0	8.41	7.03	8.18	9.96
02/23/26	23.9	43.0	8.44	7.30	8.18	34.4
02/24/26	24.3	43.1	8.37	7.21	8.18	217
02/25/26	23.3	42.9	8.40	7.23	8.20	199
02/26/26	22.2	42.4	8.55	7.31	8.22	63.1
02/27/26	21.9	43.0	8.55	7.47	8.22	14.9
02/28/26	23.0	42.9	8.58	7.12	8.20	7.38
03/01/26	23.4	43.0	8.56	7.18	8.19	16.2
03/02/26	23.7	43.0	8.56	7.00	8.19	16.6
03/03/26	23.9	43.0	8.53	7.05	8.20	6.54
03/04/26	24.0	42.9	8.55	7.01	8.19	193
03/05/26	24.2	42.9	8.58	6.96	8.18	60.5
03/06/26	24.3	42.7	8.49	6.91	8.17	65.0
03/07/26	24.8	42.3	8.53	6.96	8.15	72.0
03/08/26	25.1	42.5	8.46	6.99	8.16	54.5
03/09/26	25.2	42.6	8.50	6.95	8.16	74.9
03/10/26	25.4	42.6	8.58	6.94	8.17	110
03/11/26	25.8	42.4	8.55	6.87	8.17	3.27
03/12/26	26.0	42.5	8.57	6.84	8.19	11.7
03/13/26	26.2	42.5	8.55	6.92	8.18	23.0
03/14/26	26.3	42.5	8.52	6.80	8.17	9.29
03/15/26	26.1	42.4	8.56	6.54	8.17	12.9
03/16/26	25.9	42.2	8.56	6.52	8.18	1.86
03/17/26	26.0	41.9	8.51	6.40	8.16	8.57
03/18/26	25.7	41.7	8.48	6.57	8.16	4.94
03/19/26	24.7	41.8	8.48	6.51	8.19	16.1
03/20/26	23.9	41.5	8.55	6.64	8.19	107
03/21/26	23.2	41.2	8.59	6.99	8.20	1323
03/22/26	23.4	41.2	8.60	7.20	8.24	41.9
03/23/26	23.6	40.9	8.68	7.35	8.25	4.77
03/24/26	24.5	40.8	8.66	7.61	8.26	5.76
03/25/26	24.8	40.5	8.66	7.53	8.24	21.3

03/26/26	25.4	40.5	8.64	7.15	8.23	120
03/27/26	25.5	40.3	8.67	6.97	8.21	37.1
03/28/26	25.5	40.0	8.69	6.95	8.22	14.0
03/29/26	25.8	39.4	8.64	7.08	8.22	31.0
03/30/26	25.8	39.1	8.69	6.95	8.24	78.9
03/31/26	25.7	38.5	9.00	6.65	8.21	47.5
04/01/26	25.1	37.0	9.19	6.33	8.19	187
04/02/26	24.9	22.7	9.09	4.89	8.13	352
04/03/26	25.0	13.1	9.06	6.09	8.15	367
04/04/26	25.0	16.9	9.04	7.09	8.18	209
04/05/26	25.2	14.2	8.97	6.80	8.17	452
04/06/26	25.4	18.9	8.94	4.22	8.16	374
04/07/26	25.6	37.0	8.93	6.72	8.18	293
04/08/26	25.8	38.0	8.57	6.96	8.21	260
04/09/26	25.8	37.9	8.40	6.71	8.19	1324
04/10/26	25.6	37.4	8.51	6.61	8.19	133
04/11/26	25.3	35.7	8.74	7.02	8.23	813
04/12/26	24.8	36.1	8.77	7.05	8.22	839
04/13/26	24.5	35.6	8.79	7.12	8.22	272
04/14/26	24.4	35.6	8.82	7.09	8.24	741
04/15/26	24.3	35.9	8.74	6.89	8.22	1149
04/16/26	24.5	36.1	8.75	6.78	8.22	1002
04/17/26	24.5	36.1	8.69	6.96	8.23	713
04/18/26	25.1	37.4	8.66	6.58	8.23	754
04/19/26	25.6	37.5	8.54	6.72	8.24	388
04/20/26	26.2	38.3	8.52	6.76	8.24	213
04/21/26	26.4	38.9	8.45	6.68	8.24	351
04/22/26	26.6	39.1	8.51	6.71	8.24	185
04/23/26	26.0	38.1	8.53	6.61	8.23	304
04/24/26	25.0	38.7	8.61	6.73	8.24	503
04/25/26	25.1	37.3	8.53	6.38	8.22	1312
04/26/26	25.1	38.4	8.58	6.51	8.25	1053
04/27/26	25.4	39.6	8.61	6.70	8.26	86.4
04/28/26	25.9	39.7	8.58	6.70	8.25	76.5
04/29/26	26.3	39.4	8.63	6.49	8.25	64.1
04/30/26	26.5	39.0	8.61	6.48	8.24	156
05/01/26	26.7	40.8	8.60	6.46	8.24	144
05/02/26	26.7	44.9	8.62	6.14	8.25	403
05/03/26	27.0	46.9	8.58	6.11	8.25	528
05/04/26	26.9	47.2	8.52	6.08	8.25	230
05/05/26	26.3	46.4	8.51	5.96	8.23	293
05/06/26	26.2	42.9	8.61	6.15	8.22	566

Table 19. Weekly averages data logged from site 1N over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-7/6/25	29.2	36.8	8.90	5.77	8.31	20.2
7/7/25-7/13/25	29.0	37.3	9.40	6.11	8.34	18.4
7/14/25-7/20/25	29.8	27.2	9.50	NA	8.24	167
7/21/25-7/27/25	30.4	16.6	9.60	NA	8.17	176
7/28/25-8/3/25	30.8	13.1	9.57	NA	8.15	152
8/4/25-8/10/25	31.4	13.0	9.64	NA	8.30	143
8/11/25-8/18/25	30.8	37.5	9.02	5.75	8.28	417
8/19/25-9/30/25	NA	NA	NA	NA	NA	NA
10/1/25-10/7/25	29.3	42.04	8.97	5.95	8.19	NA
10/8/25-10/14/25	28.9	41.85	8.87	5.67	8.18	NA
10/15/25-10/28/25	NA	NA	NA	NA	NA	NA
10/29/25-11/4/25	27.5	42.7	8.53	6.31	8.26	0.315
11/5/25-11/11/25	27.2	42.8	8.33	6.45	8.26	2.21
11/12/25-11/18/25	25.9	43.3	8.35	6.92	8.30	NA
11/19/25 - 11/25/25	26.5	43.3	8.52	6.77	8.31	0.00
11/26/25 - 12/2/25	25.6	43.0	8.63	6.60	8.30	4.98
12/3/25 - 12/9/25	26.2	43.0	8.47	6.64	8.32	1.41
12/10/25 - 12/16/25	25.1	42.4	8.56	6.61	8.31	5.07
12/17/25 - 12/23/25	25.1	42.6	8.52	6.83	8.33	13.5
12/24/25 - 12/30/25	24.9	42.5	8.55	7.01	8.35	25.4
12/31/25 - 1/6/26	23.6	42.3	8.56	7.06	8.37	42.3
1/7/26-1/13/26	24.6	42.0	8.39	6.86	8.32	80.3
1/14/26-1/20/26	22.9	41.7	8.44	7.10	8.34	407
1/21/26-1/27/26	23.5	41.5	8.45	7.07	8.36	67.7
1/28/26-2/3/26	22.2	41.8	8.50	7.22	8.39	141
2/4/26-2/10/26	21.6	42.0	8.55	7.44	8.40	213
2/11/26-2/17/26	22.9	41.9	8.56	7.23	8.38	48.0
2/18/26-2/24/26	23.4	42.8	8.42	7.18	8.20	84.3
2/25/26-3/3/26	23.4	42.97	8.56	7.12	8.20	45.0
3/4/26-3/10/26	25.2	42.52	8.52	6.92	8.17	55.9
3/11/26-3/17/26	25.8	42.13	8.52	6.61	8.17	11.0
3/18/26-3/24/26	24.1	41.0	8.62	7.21	8.23	232
3/25/26-3/31/26	25.5	36.7	8.85	6.55	8.20	107
4/1/26-4/7/26	25.4	25.1	8.84	6.37	8.18	468
4/8/26-4/14/26	24.8	36.0	8.73	6.94	8.22	707
4/15/26-4/21/26	25.8	37.9	8.56	6.72	8.24	415
4/22/26-4/28/26	25.6	38.9	8.59	6.57	8.25	464
4/29/26-5/5/26	26.6	43.5	8.59	6.19	8.24	473

Table 20. Monthly averages data logged from site 1N over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.7	27.1	9.39	5.91	8.25	108
Aug-25	31.3	13.0	9.60	5.53	8.26	131
Sep-25	NA	NA	NA	NA	NA	NA
Oct-25	28.9	42.2	8.85	5.92	8.20	0.00
Nov-25	26.7	42.9	8.37	6.57	8.27	0.692
Dec-25	26.4	43.0	8.46	6.65	8.29	3.56
Jan-26	23.6	41.9	8.45	7.03	8.35	153
Feb-26	22.5	42.3	8.52	7.28	8.32	103
Mar-26	25.0	40.8	8.62	6.84	8.19	100
Apr-26	25.5	35.1	8.68	6.62	8.22	498
May-26	26.5	40.9	8.59	6.21	8.23	482

Table 21. Quarterly averages data logged from site 1N over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25 - 09/11/25	29.9	29.5	9.28	4.28	8.23	123
09/12/25 - 01/06/26	26.3	42.7	8.57	6.56	8.29	13.9
01/07/26 - 04/06/26	23.9	40.3	8.56	6.99	8.27	138

Table 22. Daily averages data logged from site 1S over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.7	37.6	6.87	6.39	8.19	0.0141
7/2/25	29.5	37.7	6.84	6.39	8.18	0.213
7/3/25	29.4	25.1	6.82	6.47	8.15	80.8
7/4/25	29.4	36.8	6.78	5.99	8.18	0.00
7/5/25	29.3	37.7	6.72	6.27	8.20	0.00
7/6/25	28.7	37.8	6.68	6.32	8.21	0.00644
7/7/25	27.9	37.8	6.71	6.84	8.23	0.0125
7/8/25	28.3	37.8	6.73	7.14	8.24	0.147
7/9/25	29.3	37.8	6.73	7.02	8.22	0.00
7/10/25	29.7	37.9	6.71	6.63	8.22	7.53
7/11/25	30.0	37.9	6.72	6.84	8.23	0.00
7/12/25	30.0	37.8	6.76	6.67	8.23	0.00
7/13/25	30.0	38.0	6.75	6.29	8.21	0.0302

7/14/25	29.5	38.0	6.79	6.01	8.21	0.0926
7/15/25	29.7	38.0	6.81	6.47	8.24	0.00
7/16/25	30.0	37.9	6.78	6.49	8.24	0.299
7/17/25	30.2	37.9	6.79	6.20	8.23	0.0801
7/18/25	30.4	37.4	6.86	6.01	8.20	0.431
7/19/25	30.6	37.6	6.88	6.12	8.20	0.0284
7/20/25	30.5	37.8	6.91	6.17	8.22	0.779
7/21/25	30.6	38.0	6.92	6.07	8.22	0.00
7/22/25	30.6	37.9	6.9	5.99	8.23	11.3
7/23/25	30.7	38.0	6.89	5.78	8.22	13.5
7/24/25	30.2	36.0	6.79	5.92	8.15	32.1
7/25/25 - 8/7/25	NA	NA	NA	NA	NA	NA
8/8/25	32.2	35.2	7.09	6.98	8.25	0.00
8/9/25	31.4	35.1	7.06	5.77	8.22	0.127
8/10/25	30.7	35.2	7.10	5.61	8.20	0.00
8/11/25	30.8	34.9	7.10	6.16	8.21	0.00
8/12/25	32.1	33.8	7.03	5.41	8.17	0.00
8/13/25	34.9	29.8	7.03	5.56	8.18	0.00
8/14/25	35.4	27.1	7.02	5.73	8.22	0.00
8/15/25	35.4	27.8	6.95	5.41	8.21	0.00
8/16/25 - 9/30/25	NA	NA	NA	NA	NA	NA
10/1/25	29.9	37.5	7.29	5.56	8.23	5.76
10/2/25	29.9	37.6	7.41	5.47	8.23	4.53
10/3/25	29.3	37.3	7.41	5.54	8.22	19.9
10/4/25	29.1	36.9	7.52	5.72	8.21	8.25
10/5/25	29.1	37.1	7.43	5.42	8.21	2.92
10/6/25	29.3	37.6	7.40	5.15	8.19	0.513
10/7/25	29.3	37.0	7.32	5.43	8.19	4.71
10/8/25	28.9	36.8	7.24	5.44	8.18	7.84
10/9/25	29.0	36.8	7.25	4.75	8.15	1.66
10/10/25	29.0	36.9	7.20	4.93	8.16	4.22
10/11/25	29.2	37.5	7.25	5.10	8.20	1.31
10/12/25	29.0	37.3	7.33	5.31	8.19	1.05
10/13/25	29.0	37.0	7.34	5.61	8.20	0.718
10/14/25	28.5	36.7	7.41	5.43	8.19	1.14
10/15/25- 10/27/25	NA	NA	NA	NA	NA	NA

10/28/25	28.3	36.2	7.27	5.94	8.34	NA
10/29/25	28.4	36.4	7.23	5.19	8.32	NA
10/30/25	28.1	36.5	7.27	5.28	8.32	NA
10/31/25	27.5	36.5	7.26	5.80	8.33	NA
11/1/25	27.4	36.6	7.22	6.05	8.32	NA
11/2/25	27.1	36.6	7.19	5.97	8.30	NA
11/3/25	27.2	36.6	7.12	5.90	8.30	NA
11/4/25	27.0	36.2	7.12	5.92	8.28	NA
11/5/25	26.5	35.6	7.15	5.93	8.25	NA
11/6/25	26.9	36.1	7.06	5.98	8.28	NA
11/7/25	27.0	36.5	7.02	6.03	8.29	NA
11/8/25	27.4	36.7	7.00	6.09	8.30	NA
11/9/25	27.6	36.8	6.96	5.96	8.29	NA
11/10/25	27.7	37.1	6.90	5.85	8.31	NA
11/11/25	26.2	37.0	6.92	6.07	8.33	NA
11/12/25	25.6	37.0	7.04	5.96	8.34	NA
11/13/25	26.0	37.1	7.03	6.10	8.35	NA
11/14/25	25.8	37.1	7.01	6.11	8.35	NA
11/15/25	26.0	37.2	6.98	6.22	8.36	NA
11/16/25	25.9	37.2	6.97	6.42	8.37	NA
11/17/25	25.8	37.3	7.02	6.55	8.39	NA
11/18/25	26.1	37.3	7.01	6.46	8.40	NA
11/19/25	26.2	37.2	6.98	6.26	8.39	NA
11/20/25	26.4	37.2	6.94	6.13	8.39	NA
11/21/25	26.1	37.2	6.97	6.16	8.39	NA
11/22/25	26.2	37.4	6.93	6.33	8.41	NA
11/23/25	26.3	37.4	6.98	6.25	8.40	NA
11/24/25	26.4	37.0	6.96	6.15	8.36	0.277
11/25/25	26.3	37.4	6.91	6.29	8.34	0.267
11/26/25	26.1	37.4	6.88	6.28	8.32	0.492
11/27/25	26.3	37.6	6.85	5.99	8.32	0.225
11/28/25	25.7	37.4	6.89	5.98	8.32	0.598
11/29/25	25.1	37.2	6.96	5.95	8.32	7.55
11/30/25	24.8	37.0	6.97	5.66	8.31	12.2
12/1/25	25.3	36.9	6.97	5.79	8.31	1.60
12/2/25	25.3	36.9	6.87	6.17	8.31	3.93
12/3/25	25.9	37.5	6.89	6.25	8.35	0.982
12/4/25	26.0	37.2	6.83	6.37	8.35	8.43
12/5/25	25.8	37.1	6.79	6.42	8.35	3.25

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12/6/25	26.1	37.3	6.72	6.25	8.35	14.2
12/7/25	26.3	37.4	6.72	6.30	8.36	29.3
12/8/25	26.4	37.5	6.66	6.18	8.35	18.7
12/9/25	25.9	37.1	6.78	5.65	8.32	21.2
12/10/25	25.6	37.3	6.86	5.96	8.34	25.4
12/11/25	25.5	37.1	6.90	6.30	8.36	62.9
12/12/25	25.4	37.0	6.89	6.34	8.35	46.5
12/13/25	25.0	36.6	6.90	6.02	8.32	51.1
12/14/25	24.9	37.0	6.85	6.40	8.35	52.5
12/15/25	25.1	37.0	6.86	6.11	8.34	64.2
12/16/25	24.4	36.9	6.87	6.28	8.34	50.6
12/17/25	24.6	36.9	6.85	6.23	8.36	56.9
12/18/25	24.2	36.7	6.87	6.31	8.34	94.9
12/19/25	24.5	36.9	6.81	6.44	8.34	101
12/20/25	25.1	37.0	6.76	6.59	8.36	83.0
12/21/25	25.4	37.0	6.82	6.36	8.36	52.0
12/22/25	25.3	36.9	6.84	6.15	8.35	15.1
12/23/25	24.7	36.9	6.80	6.26	8.34	12.2
12/24/25	24.6	36.8	6.81	6.31	8.35	2.77
12/25/25	25.1	37.1	6.87	6.24	8.37	9.23
12/26/25	25.4	37.4	6.84	6.40	8.39	1.25
12/27/25	25.0	37.2	6.86	6.80	8.40	2.61
12/28/25	24.8	37.2	6.87	6.92	8.40	4.67
12/29/25	25.0	37.2	6.87	6.50	8.38	5.33
12/30/25	24.9	37.3	6.90	6.42	8.39	10.4
12/31/25	24.0	37.3	6.91	6.40	8.39	14.1
1/1/26	23.0	37.3	6.94	6.39	8.39	1.96
1/2/26	23.3	37.2	6.88	6.69	8.41	25.5
1/3/26	23.5	37.3	6.86	6.60	8.41	2.98
1/4/26	23.9	37.5	6.85	6.44	8.41	4.93
1/5/26	24.0	37.4	6.88	6.45	8.40	7.87
1/6/26	24.0	37.4	6.79	6.64	8.35	5.14
1/7/26	24.4	37.6	6.76	6.36	8.32	19.9
1/8/26	24.5	37.6	6.75	6.50	8.33	0.981
1/9/26	24.5	37.4	6.74	6.49	8.32	0.984
1/10/26	24.3	37.6	6.67	6.36	8.30	15.3
1/11/26	24.4	37.6	6.62	6.40	8.30	4.46
1/12/26	24.6	37.2	6.72	6.11	8.29	1.60
1/13/26	24.4	37.1	6.69	6.01	8.29	1.72

1/14/26	24.6	37.4	6.72	5.96	8.31	1.70
1/15/26	24.2	37.4	6.68	6.22	8.33	0.554
1/16/26	22.8	37.3	6.76	6.52	8.34	0.647
1/17/26	22.7	37.3	6.75	6.91	8.35	1.70
1/18/26	23.4	37.3	6.76	6.46	8.33	0.536
1/19/26	22.9	37.3	6.74	6.48	8.34	97.7
1/20/26	22.3	37.1	6.78	6.63	8.35	1.68
1/21/26	22.0	24.6	7.24	6.97	8.33	359
1/22/26	23.4	33.2	7.38	6.39	8.34	176
1/23/26	24.0	36.6	7.39	5.98	8.33	131
1/24/26	24.4	36.9	7.37	6.54	8.36	126
1/25/26	24.8	36.2	7.30	6.67	8.36	174
1/26/26	25.0	14.0	7.27	7.24	8.33	422
1/27/26	23.5	22.9	7.30	6.92	8.34	316
1/28/26	23.0	15.2	7.39	5.93	8.27	275
1/29/26	22.9	13.0	7.45	5.92	8.26	254
1/30/26	23.1	12.5	7.42	6.65	8.32	252
1/31/26	22.7	12.3	7.37	4.21	8.25	250
2/1/26	21.5	26.0	7.41	6.76	8.36	127
2/2/26	20.9	36.6	7.45	6.80	8.38	56.6
2/3/26	21.4	36.5	7.55	6.79	8.39	967
2/4/26	21.3	37.0	7.51	7.13	8.40	1504
2/5/26	21.8	37.2	7.42	6.65	8.33	1056
2/6/26	20.9	37.1	7.48	6.72	8.39	360
2/7/26	20.8	37.1	7.47	6.94	8.40	219
2/8/26	21.6	37.1	7.47	6.62	8.38	6.37
2/9/26	22.2	37.5	7.48	6.87	8.40	2.30
2/10/26	22.2	37.3	7.48	7.01	8.40	3.64
2/11/26	22.4	37.4	7.50	6.90	8.38	29.4
2/12/26	22.6	37.4	7.51	6.79	8.38	7.44
2/13/26	22.8	37.5	7.52	6.75	8.38	2.32
2/14/26	23.1	37.5	7.44	6.59	8.37	9.82
2/15/26	23.1	37.6	7.43	6.56	8.37	4.27
2/16/26	23.1	37.6	7.42	6.46	8.36	15.6
2/17/26	23.1	37.5	7.47	6.52	8.37	19.4
2/18/26	23.3	40.1	7.91	6.83	8.28	14.7
2/19/26	23.5	43.1	8.35	7.06	8.18	56.9
2/20/26	23.5	43.0	8.41	7.03	8.18	10.0
2/21/26	23.9	43.0	8.44	7.30	8.18	34.4

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2/22/26	24.3	43.1	8.37	7.21	8.18	217
2/23/26	23.3	42.9	8.40	7.23	8.20	199
2/24/26	22.2	42.4	8.55	7.31	8.22	63.1
2/25/26	21.9	43.0	8.55	7.47	8.22	14.9
2/26/26	23.0	42.9	8.58	7.12	8.20	7.38
2/27/26	23.4	43.0	8.56	7.18	8.19	16.2
2/28/26	23.7	43.0	8.56	7.00	8.19	16.6
3/1/26	23.9	43.0	8.53	7.05	8.20	6.54
3/2/26	24.0	42.9	8.55	7.01	8.19	193
3/3/26	24.2	42.9	8.58	6.96	8.18	60.5
3/4/26	24.3	42.7	8.49	6.91	8.17	65.0
3/5/26	24.8	42.3	8.53	6.96	8.15	72.0
3/6/26	25.1	42.5	8.46	6.99	8.16	54.5
3/7/26	25.2	42.6	8.50	6.95	8.16	74.9
3/8/26	25.4	42.6	8.58	6.94	8.17	110
3/9/26	25.8	42.4	8.55	6.87	8.17	3.27
3/10/26	26.0	42.5	8.57	6.84	8.19	11.7
3/11/26	26.2	42.5	8.55	6.92	8.18	23.0
3/12/26	26.3	42.5	8.52	6.80	8.17	9.29
3/13/26	26.1	42.4	8.56	6.54	8.17	12.9
3/14/26	25.9	42.2	8.56	6.52	8.18	1.86
3/15/26	26.0	41.9	8.51	6.40	8.16	8.57
3/16/26	25.7	41.7	8.48	6.57	8.16	4.94
3/17/26	24.7	41.8	8.48	6.51	8.19	16.1
3/18/26	23.9	41.5	8.55	6.64	8.19	107
3/19/26	23.2	41.2	8.59	6.99	8.20	1323
3/20/26	23.4	41.2	8.60	7.20	8.24	41.9
3/21/26	23.6	40.9	8.68	7.35	8.25	4.77
3/22/26	24.5	40.8	8.66	7.61	8.26	5.76
3/23/26	24.8	40.5	8.66	7.53	8.24	21.3
3/24/26	25.4	40.5	8.64	7.15	8.23	120
3/25/26	25.5	40.3	8.67	6.97	8.21	37.1
3/26/26	25.5	40.0	8.69	6.95	8.22	14.0
3/27/26	25.8	39.4	8.64	7.08	8.22	31.0
3/28/26	25.8	39.1	8.69	6.95	8.24	78.9
3/29/26	25.7	38.5	9.00	6.65	8.21	47.5
3/30/26	25.1	37.0	9.19	6.33	8.19	187
3/31/26	24.9	22.7	9.09	4.89	8.13	352
4/1/26	25.0	13.1	9.06	6.09	8.15	367

4/2/26	25.0	16.9	9.04	7.09	8.18	209
4/3/26	25.2	14.2	8.97	6.80	8.17	452
4/4/26	25.4	18.9	8.94	4.22	8.16	374
4/5/26	25.6	37.0	8.93	6.72	8.18	293
4/6/26	25.9	37.5	8.87	6.63	8.23	290
4/7/26	25.9	37.5	9.11	6.21	8.26	22.4
4/8/26	25.6	37.0	9.20	5.97	8.26	102
4/9/26	25.3	36.6	9.37	6.14	8.25	132
4/10/26	25.0	36.4	9.39	6.23	8.27	74.6
4/11/26	24.7	36.1	9.44	6.40	8.29	12.7
4/12/26	24.5	36.3	9.44	6.42	8.31	12.5
4/13/26	24.4	36.0	9.37	6.14	8.26	23.2
4/14/26	25.0	36.7	9.42	6.20	8.29	20.8
4/15/26	24.7	36.7	9.32	6.14	8.29	22.5
4/16/26	24.9	36.7	9.31	6.37	8.29	23.7
4/17/26	25.7	37.1	9.18	6.45	8.31	23.5
4/18/26	26.3	37.0	9.17	6.50	8.31	13.1
4/19/26	26.5	37.3	9.09	6.40	8.32	12.7
4/20/26	26.8	37.2	9.18	6.20	8.31	37.8
4/21/26	26.1	37.2	9.23	6.09	8.30	217
4/22/26	25.2	37.4	9.22	6.50	8.33	333
4/23/26	24.7	37.3	9.25	6.20	8.30	368
4/24/26	24.5	37.4	9.21	6.37	8.31	399
4/25/26	24.8	37.4	9.25	7.12	8.35	313
4/26/26	25.8	37.3	9.22	6.62	8.33	268
4/27/26	26.3	37.4	9.27	6.44	8.32	245
4/28/26	26.5	37.5	9.25	6.39	8.33	296
4/29/26	26.9	37.6	9.25	6.32	8.33	282
4/30/26	27.0	36.8	9.25	6.12	8.34	148
5/1/26	27.0	37.2	9.21	6.10	8.35	351
5/2/26	27.3	37.9	9.18	6.04	8.34	58.1
5/3/26	26.2	36.9	9.15	5.86	8.34	74.2
5/4/26	26.1	37.4	9.25	5.88	8.33	105
5/5/26	26.3	37.4	9.28	6.45	8.34	115
5/6/26	26.5	37.5	9.26	5.50	8.31	57.8

Table 23. Weekly averages data logged from site 1S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25- 7/6/25	29.5	35.7	6.80	6.33	8.18	11.6
7/7/25- 7/13/25	29.1	37.8	6.73	6.78	8.23	1.10
7/14/25- 7/20/25	30.0	37.8	6.83	6.23	8.22	0.137
7/21/25- 7/27/25	30.5	37.6	6.88	5.99	8.21	11.5
7/28/25- 8/3/25	NA	NA	NA	NA	NA	NA
8/4/25- 8/10/25	31.1	35.2	7.08	5.81	8.21	0.0576
8/11/25- 8/18/25	33.6	30.9	7.03	5.67	8.20	0.00
8/19/25- 9/30/25	NA	NA	NA	NA	NA	NA
10/01/25- 10/07/25	29.4	37.3	7.40	5.46	8.21	6.72
10/08/25- 10/14/25	29.0	37.0	7.28	5.21	8.18	2.69

10/15/25- 10/21/25	NA	NA	NA	NA	NA	NA
10/22/25- 10/28/25	28.3	36.2	7.3	5.94	8.34	NA
10/29/25- 11/04/25	27.5	36.5	7.20	5.73	8.31	NA
11/05/25- 11/11/25	27.0	36.6	7.00	5.99	8.29	NA
11/12/25- 11/18/25	25.9	37.2	7.01	6.26	8.37	NA
11/19/25 - 11/25/25	26.26	37.26	6.95	6.22	8.38	0.272
11/26/25 - 12/2/25	25.52	37.23	6.91	5.97	8.32	3.80
12/3/25 - 12/9/25	26.07	37.31	6.77	6.20	8.35	13.7
12/10/25 - 12/16/25	25.13	36.97	6.88	6.20	8.34	50.5
12/17/25 - 12/23/25	24.82	36.90	6.82	6.33	8.35	59.2
12/24/25 - 12/30/25	24.98	37.17	6.86	6.51	8.38	5.18
12/31/25 - 1/6/26	23.7	37.3	6.87	6.52	8.39	8.93
1/7/26- 1/13/26	24.4	37.4	6.71	6.32	8.31	6.42
1/14/26- 1/20/26	23.3	37.3	6.74	6.45	8.34	14.9
1/21/26- 1/27/26	23.9	29.2	7.32	6.67	8.34	243
1/28/26- 2/3/26	22.2	21.7	7.43	6.15	8.32	312
2/4/26- 2/10/26	21.5	37.2	7.47	6.85	8.38	450
2/11/26- 2/17/26	22.9	37.5	7.47	6.65	8.37	12.6
2/18/26- 2/24/26	23.2	37.3	7.43	6.34	8.35	27.6

2/25/26- 3/3/26	23.4	43.0	8.56	7.12	8.20	45.0
3/4/26- 3/10/26	25.2	42.5	8.52	6.92	8.17	55.9
3/11/26- 3/17/26	25.8	42.1	8.52	6.61	8.17	11.0
3/18/26- 3/24/26	24.1	41.0	8.62	7.21	8.23	232
3/25/26- 3/31/26	25.5	36.7	8.85	6.55	8.20	107
4/1/26- 4/7/26	25.4	25.0	9.0	6.25	8.19	287
4/8/26- 4/14/26	24.9	36.4	9.4	6.21	8.28	53.9
4/15/26- 4/21/26	25.9	37.0	9.2	6.31	8.31	50.0
4/22/26- 4/28/26	25.4	37.4	9.2	6.52	8.32	317
4/29/26- 5/5/26	26.7	37.3	9.2	6.11	8.34	162

Table 24. Monthly averages data logged from site 1S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.8	37.2	6.80	6.35	8.21	6.14
Aug-25	32.8	32.3	7.05	5.72	8.20	0.0186
Sept-25	NA	NA	NA	NA	NA	NA
Oct-25	28.9	37.0	7.32	5.37	8.22	4.74
Nov-25	26.4	37.0	7.00	6.10	8.34	3.09
Dec-25	25.2	37.1	6.84	6.29	8.35	29.7
Jan-26	23.7	32.4	6.98	6.39	8.33	94.6
Feb-26	22.5	39.0	7.85	6.91	8.31	180
Mar-26	25.0	40.8	8.62	6.84	8.19	100
Apr-26	25.5	34.2	9.21	6.32	8.28	180
May-26	26.6	37.4	9.22	5.97	8.34	127

Table 25. Quarterly averages data logged from site 1S over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25 -09/11/25	30.4	36.1	6.85	6.21	8.21	4.03
9/11/25 - 01/06/26	26.3	37.1	7.01	6.05	8.32	18.3
01/07/26 – 04/06/26	23.9	36.4	7.95	6.69	8.26	145

Table 26. Daily averages data logged from site 2N over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.4	36.7	10.5	6.28	8.25	111
7/2/25	29.4	36.8	10.5	6.34	8.25	0.00
7/3/25	29.4	36.8	10.4	6.08	8.23	0.00
7/4/25	29.3	36.9	10.4	6.36	8.26	0.00671
7/5/25	29.0	36.9	10.3	6.35	8.25	0.0675
7/6/25	27.6	37.0	10.3	6.88	8.27	0.00
7/7/25	26.9	37.0	10.3	7.31	8.28	0.00
7/8/25	28.1	37.0	10.4	7.23	8.27	0.00
7/9/25	28.8	37.0	10.3	7.29	8.29	0.0833
7/10/25	28.5	37.0	10.3	6.77	8.27	0.283
7/11/25	29.2	37.0	10.3	6.90	8.27	0.00

7/12/25	29.7	37.1	10.4	6.36	8.26	17.3
7/13/25	29.6	37.1	10.4	6.45	8.27	271
7/14/25	28.9	37.2	10.4	6.16	8.26	0.00516
7/15/25	29.3	37.1	10.4	6.39	8.28	0.0291
7/16/25	29.5	37.1	10.4	6.50	8.29	5.08
7/17/25	29.7	37.1	10.4	6.35	8.28	0.00917
7/18/25	30.0	37.0	10.5	6.20	8.27	0.106
7/19/25	30.0	37.1	10.5	6.48	8.29	1.66
7/20/25	30.0	37.2	10.5	6.43	8.29	5.59
7/21/25	30.1	37.2	10.5	6.37	8.29	13.8
7/22/25	30.5	37.2	10.5	6.30	8.29	2.99
7/23/25	30.4	37.2	10.5	6.02	8.29	7.81
7/24/25	30.3	37.2	10.5	6.30	8.30	13.3
7/25/25	29.9	37.2	10.5	6.28	8.30	7.45
7/26/25	30.1	37.2	10.5	6.40	8.30	119
7/27/25	30.3	37.2	10.4	6.13	8.29	18.7
7/28/25	30.2	37.2	10.5	6.37	8.30	8.68
7/29/25	30.5	37.2	10.5	6.18	8.30	17.7
7/30/25	30.4	37.1	10.5	6.14	8.31	2.08
7/31/25	30.6	37.2	10.5	6.18	8.31	3.77
8/1/25	30.9	37.0	10.5	6.30	8.32	24.3
8/2/25	31.1	37.2	10.4	6.35	8.32	1.44
8/3/25	31.1	37.2	10.4	6.19	8.31	8.45
8/4/25	31.2	37.2	10.5	6.06	8.31	6.10
8/5/25	31.3	37.1	10.5	6.11	8.32	87.7
8/6/25	31.2	37.1	10.6	6.26	8.33	1.94
8/7/25	31.3	37.1	10.6	6.12	8.33	1.38
8/8/25	31.2	36.8	10.5	5.88	8.31	0.476
8/9/25	31.0	37.1	10.5	5.82	8.27	0.586
8/10/25	30.6	37.0	10.6	5.87	8.29	0.251
8/11/25	30.6	37.0	10.6	6.38	8.32	0.00
8/12/25	30.8	36.7	10.5	6.22	8.30	7.60
8/13/25	30.8	37.0	10.5	6.44	8.33	0.756
8/14/25	30.8	37.0	10.5	6.42	8.33	25.5
8/15/25	31.1	36.8	10.5	6.25	8.31	0.0108
8/16/25	31.2	36.8	10.4	6.32	8.32	0.0202
8/17/25	31.2	36.7	10.4	6.40	8.32	0.0276
8/18/25	31.0	36.8	10.5	6.28	8.32	0.00
8/19/25	31.1	36.7	10.5	6.20	8.32	1.25

8/20/25	31.0	36.7	10.6	6.20	8.33	0.687
8/21/25	31.0	36.7	10.6	6.17	8.34	1.65
8/22/25	31.1	36.9	10.6	6.09	8.34	3.95
8/23/25	30.9	36.9	10.6	5.72	8.32	6.19
8/24/25	30.8	37.0	10.6	5.82	8.33	5.86
8/25/25	30.8	37.0	10.6	5.79	8.32	7.98
8/26/25	31.0	35.9	10.6	6.17	8.32	8.24
8/27/25	31.2	37.0	10.6	6.03	8.32	6.18
8/28/25	31.2	37.0	10.6	6.06	8.33	11.0
8/29/25	31.2	37.1	10.5	6.02	8.33	9.46
8/30/25	31.3	36.9	10.5	6.05	8.32	10.2
8/31/25	31.1	36.8	10.5	6.12	8.34	8.12
9/1/25	31.0	36.9	10.5	5.76	8.33	6.98
9/2/25	31.0	36.8	10.5	6.06	8.33	41.2
9/3/25	31.1	36.7	10.7	5.84	8.32	19.9
9/4/25	31.1	36.7	10.7	6.09	8.35	22.7
9/5/25	31.1	36.6	10.7	6.15	8.37	18.2
9/6/25	30.8	36.8	10.6	5.72	8.35	12.0
9/7/25	30.7	36.8	10.6	5.81	8.35	14.3
9/8/25	30.6	36.7	10.6	5.64	8.34	15.4
9/9/25	30.3	36.5	10.6	5.54	8.34	19.6
9/10/25	30.2	36.3	10.6	5.39	8.33	20.2
9/11/25	30.2	36.3	10.7	5.83	8.36	22.6
9/12/25	30.3	36.0	10.8	6.03	8.37	28.6
9/13/25	30.4	36.1	10.8	5.85	8.38	19.9
9/14/25	30.6	36.2	10.7	6.32	8.40	15.3
9/15/25	30.7	36.1	10.7	5.97	8.39	17.0
9/16/25	30.7	36.6	10.7	6.25	8.41	20.7
9/17/25	30.5	36.4	10.7	6.06	8.40	21.1
9/18/25	30.3	36.3	10.7	5.96	8.38	22.3
9/19/25	30.3	36.2	10.7	5.79	8.38	21.0
9/20/25	30.3	35.7	10.7	6.17	8.39	25.5
9/21/25	29.9	35.7	10.7	6.04	8.39	34.9
9/22/25	30.2	36.7	10.6	5.98	8.40	44.0
9/23/25	30.2	36.6	10.6	5.21	8.37	50.0
9/24/25	30.1	36.5	10.6	5.44	8.38	52.6
9/25/25	30.1	36.6	10.4	4.79	8.36	44.4
9/26/25-9/28/25	NA	NA	NA	NA	NA	NA

9/29/25	30.1	35.9	10.6	6.39	8.29	2.35
9/30/25	30.0	36.4	10.6	6.07	8.30	2.73
10/1/25	29.9	36.6	10.8	5.85	8.29	1.47
10/2/25	29.9	36.8	10.9	6.20	8.31	2.08
10/3/25	29.4	36.3	10.9	5.97	8.27	14.8
10/4/25	29.1	36.3	11.1	5.96	8.28	2.82
10/5/25	29.1	36.6	11.0	5.89	8.28	2.36
10/6/25	29.1	36.7	10.9	6.07	8.28	3.17
10/7/25	29.1	36.3	10.9	6.03	8.27	3.33
10/8/25	28.9	36.1	10.8	5.95	8.26	15.4
10/9/25	29.0	36.4	10.8	5.54	8.26	15.7
10/10/25	29.0	36.2	10.7	5.47	8.26	44.3
10/11/25	29.3	36.7	10.8	5.65	8.28	4.09
10/12/25	28.9	36.2	10.9	5.87	8.27	9.59
10/13/25	28.9	36.2	10.8	6.26	8.29	5.75
10/14/25	28.8	36.2	11.0	5.91	8.27	7.81
10/15/25-10/27/25	NA	NA	NA	NA	NA	NA
10/28/25	28.5	37.0	10.8	6.18	8.28	0.0469
10/29/25	28.3	36.6	10.8	5.74	8.24	94.7
10/30/25	28.3	37.0	10.8	5.83	8.24	0.435
10/31/25	27.8	37.0	10.8	5.81	8.23	0.278
11/1/25	27.1	36.5	10.8	5.96	8.22	1.82
11/2/25	27.4	35.8	10.7	5.88	8.22	2.70
11/3/25	27.5	36.6	10.7	5.85	8.22	0.00
11/4/25	27.0	36.4	10.7	5.92	8.21	2.41
11/5/25	26.8	36.4	10.7	5.96	8.21	1.68
11/6/25	27.3	36.8	10.6	5.90	8.22	0.147
11/7/25	27.4	35.9	10.6	5.85	8.22	7.24
11/8/25	27.8	37.0	10.6	5.85	8.23	0.00
11/9/25	28.0	37.3	10.5	5.77	8.22	2.09
11/10/25	27.7	36.4	10.4	5.85	8.23	0.722
11/11/25	26.2	36.6	10.5	6.19	8.25	0.114
11/12/25	25.2	37.4	10.6	6.19	8.25	1.50
11/13/25	25.8	37.0	10.6	6.03	8.25	2.47
11/14/25	26.0	36.5	10.5	6.24	8.26	0.0252
11/15/25	25.7	37.4	10.5	6.44	8.28	0.00688
11/16/25	26.4	37.6	10.5	6.15	8.26	2.04
11/17/25	26.5	37.6	10.6	6.11	8.31	13.8

11/18/25	26.6	37.6	10.6	6.19	8.40	0.00642
11/19/25	26.7	37.3	10.5	6.19	8.41	0.0980
11/20/25	26.4	37.1	10.5	5.81	8.41	0.00
11/21/25	26.6	36.7	10.6	5.99	8.41	0.0302
11/22/25	26.5	37.4	10.5	6.05	8.40	0.00
11/23/25	26.6	37.6	10.6	6.13	8.40	2.76
11/24/25	26.5	36.9	10.6	6.12	8.41	9.44
11/25/25	26.4	37.5	10.5	6.07	8.40	7.32
11/26/25	26.6	37.7	10.5	6.07	8.41	0.160
11/27/25	26.5	37.4	10.5	5.73	8.41	12.5
11/28/25	25.9	37.5	10.5	5.99	8.40	0.0710
11/29/25	24.9	37.4	10.6	6.01	8.40	8.57
11/30/25	25.0	37.2	10.6	5.91	8.40	64.0
12/1/25	25.4	37.1	10.6	5.76	8.40	4.91
12/2/25	25.8	36.9	10.5	5.73	8.41	3.48
12/3/25	25.9	36.9	10.5	5.57	8.42	1.23
12/4/25	26.1	36.5	10.5	5.13	8.43	1.12
12/5/25	26.3	36.7	10.4	5.87	8.43	2.00
12/6/25	26.3	36.5	10.3	5.80	8.42	0.608
12/7/25	26.4	36.4	10.4	5.86	8.43	22.6
12/8/25	26.3	36.1	10.3	5.76	8.43	3.61
12/9/25	25.9	35.7	10.4	5.48	8.42	30.3
12/10/25	25.6	29.8	10.5	5.50	8.40	4.03
12/11/25	25.6	34.5	10.5	5.58	8.42	33.9
12/12/25	25.4	29.4	10.5	5.91	8.44	1.13
12/13/25	25.3	35.0	10.5	5.75	8.45	1.00
12/14/25	25.9	34.8	10.5	5.79	8.44	29.8
12/15/25	25.4	34.7	10.5	5.91	8.44	6.22
12/16/25	24.5	34.6	10.5	6.14	8.44	11.9
12/17/25	24.7	34.5	10.5	6.12	8.45	16.0
12/18/25	25.1	34.4	10.5	6.07	8.45	71.3
12/19/25	25.6	33.9	10.4	6.08	8.46	14.7
12/20/25	25.6	33.5	10.4	6.13	8.46	6.53
12/21/25	26.0	33.4	10.4	5.99	8.46	10.2
12/22/25	25.3	33.5	10.5	6.18	8.46	20.5
12/23/25	24.8	33.5	10.5	6.40	8.47	233
12/24/25	24.6	33.8	10.5	6.21	8.46	290
12/25/25	24.7	34.3	10.5	6.08	8.46	71.3
12/26/25	25.1	34.2	10.5	6.26	8.49	54.8

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12/27/25	25.2	35.0	10.5	5.99	8.49	31.2
12/28/25	25.3	35.5	10.5	6.10	8.48	21.3
12/29/25	25.4	36.0	10.5	6.14	8.49	47.0
12/30/25	25.0	28.5	10.5	6.54	8.49	76.8
12/31/25	23.6	33.9	10.6	6.50	8.51	202
1/1/26	23.4	19.8	10.6	7.05	8.51	336
1/2/26	23.8	24.8	10.5	6.72	8.51	480
1/3/26	23.9	20.4	10.5	6.78	8.50	190
1/4/26	24.1	35.8	10.5	6.23	8.51	107
1/5/26	23.6	35.1	10.5	6.39	8.51	11.8
1/6/26	24.2	35.3	10.4	6.36	8.4	152
1/7/26	24.6	36.5	10.4	6.29	8.36	1.18
1/8/26	24.8	36.5	10.3	6.35	8.37	1.20
1/9/26	24.8	36.4	10.3	6.29	8.36	1.61
1/10/26	24.6	36.2	10.3	6.27	8.35	3.20
1/11/26	24.7	36.3	10.2	6.42	8.37	1.69
1/12/26	24.5	36.2	10.3	6.29	8.37	2.69
1/13/26	24.1	36.3	10.3	6.11	8.36	23.7
1/14/26	24.2	36.3	10.3	6.11	8.36	14.8
1/15/26	23.9	36.2	10.2	6.24	8.37	1.21
1/16/26	22.9	36.1	10.3	6.54	8.40	7.83
1/17/26	22.9	36.2	10.3	6.35	8.39	1.23
1/18/26	23.2	36.3	10.3	6.19	8.39	1.15
1/19/26	22.9	36.4	10.3	6.51	8.41	7.08
1/20/26	22.1	36.2	10.4	6.60	8.41	1.93
1/21/26	22.3	36.1	10.4	6.52	8.41	18.0
1/22/26	22.3	36.1	10.4	6.43	8.39	7.00
1/23/26	23.6	36.3	10.4	6.59	8.42	1.24
1/24/26	24.4	36.2	10.3	6.36	8.41	3.13
1/25/26	24.7	36.0	10.3	6.38	8.41	2.08
1/26/26	24.4	36.2	10.2	6.20	8.41	2.51
1/27/26	23.5	35.9	10.3	6.35	8.41	4.96
1/28/26	22.8	35.8	10.4	6.47	8.42	4.18
1/29/26	22.9	35.8	10.4	6.51	8.44	3.05
1/30/26	23.3	36.0	10.4	6.50	8.44	3.42
1/31/26	23.5	36.2	10.3	6.26	8.44	2.60
2/1/26	22.0	36.1	10.4	6.50	8.45	14.8
2/2/26	21.2	36.0	10.5	6.41	8.45	35.4
2/3/26	21.2	36.1	10.5	6.63	8.46	46.4

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2/4/26	22.0	35.7	10.5	6.04	8.46	14.1
2/5/26	22.2	36.2	10.4	6.41	8.45	2.57
2/6/26	21.4	35.8	10.4	6.57	8.46	5.39
2/7/26	21.9	35.9	10.4	6.68	8.46	5.91
2/8/26	21.4	35.7	10.5	6.59	8.47	6.61
2/9/26	21.8	35.7	10.5	6.75	8.46	40.4
2/10/26	22.2	36.1	10.5	6.60	8.45	20.8
2/11/26	22.4	36.1	10.5	6.44	8.45	6.61
2/12/26	22.4	36.1	10.5	6.72	8.46	8.10
2/13/26	22.9	36.1	10.5	6.56	8.46	7.99
2/14/26	23.1	35.9	10.4	6.67	8.46	10.7
2/15/26	23.1	35.4	10.4	6.58	8.45	4.95
2/16/26	23.0	36.1	10.4	6.65	8.47	7.76
2/17/26	23.0	36.1	10.4	6.54	8.46	13.6
2/18/26	23.1	34.7	10.2	6.58	8.32	7.69
2/19/26	23.3	33.8	10.1	6.54	8.23	2.00
2/20/26	23.4	33.8	10.1	6.61	8.23	2.04
2/21/26	23.9	33.7	10.1	6.62	8.22	28.7
2/22/26	24.3	33.3	10.1	6.63	8.21	94.3
2/23/26	23.4	33.6	10.1	6.70	8.25	1.83
2/24/26	22.3	33.5	10.1	6.62	8.25	3.29
2/25/26	22.0	33.8	10.2	6.71	8.26	4.99
2/26/26	23.1	34.1	10.2	6.54	8.24	9.55
2/27/26	23.2	34.7	10.2	6.67	8.25	15.4
2/28/26	23.5	35.6	10.2	6.40	8.25	3.60
3/1/26	23.8	36.6	10.1	6.33	8.24	3.73
3/2/26	23.9	37.4	10.2	6.37	8.24	6.22
3/3/26	24.1	38.5	10.2	6.38	8.24	4.59
3/4/26	24.2	38.8	10.1	6.27	8.23	6.18
3/5/26	24.6	38.8	10.1	6.24	8.23	8.94
3/6/26	24.8	38.7	10.1	6.25	8.24	14.8
3/7/26	25.0	39.0	10.1	6.24	8.24	41.5
3/8/26	25.3	39.0	10.2	6.20	8.24	11.7
3/9/26	25.7	39.1	10.2	6.25	8.24	12.8
3/10/26	25.9	39.3	10.2	6.07	8.24	9.80
3/11/26	26.1	39.5	10.2	6.15	8.24	13.3
3/12/26	26.1	40.4	10.1	5.93	8.23	18.2
3/13/26	25.9	41.2	10.2	5.66	8.23	22.6
3/14/26	25.8	41.8	10.2	5.58	8.23	22.4

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3/15/26	25.8	42.0	10.1	5.49	8.21	80.9
3/16/26	25.3	42.0	10.1	5.68	8.22	39.5
3/17/26	24.5	41.7	10.1	5.65	8.24	8.04
3/18/26	23.8	41.4	10.2	5.87	8.24	7.17
3/19/26	23.4	41.3	10.2	6.13	8.26	135
3/20/26	23.7	41.2	10.2	6.39	8.29	64.1
3/21/26	24.4	41.6	10.3	6.32	8.30	7.53
3/22/26	24.6	41.7	10.3	6.41	8.29	102
3/23/26	24.9	41.4	10.3	6.37	8.29	45.6
3/24/26	25.3	40.6	10.2	6.19	8.28	7.72
3/25/26	25.4	39.7	10.3	6.25	8.28	109
3/26/26	25.5	39.4	10.3	6.24	8.27	117
3/27/26	25.6	39.3	10.2	6.22	8.27	193
3/28/26	25.6	39.5	10.3	6.11	8.29	11.9
3/29/26	25.7	39.2	10.4	5.96	8.27	56.7
3/30/26	25.1	38.9	10.4	6.02	8.25	38.2
3/31/26	24.9	36.8	10.4	6.06	8.23	57.2
4/1/26	25.0	35.2	10.4	6.09	8.24	58.7
4/2/26	25.0	34.8	10.4	6.17	8.24	122
4/3/26	25.1	34.3	10.3	6.06	8.22	55.8
4/4/26	25.3	34.2	10.3	5.89	8.24	26.7
4/5/26	25.4	34.1	10.3	6.15	8.25	173
4/6/26	25.6	34.2	10.2	6.23	8.27	24.6
4/7/26	25.6	33.8	10.4	6.02	8.24	410
4/8/26	25.5	33.4	10.5	5.97	8.23	251
4/9/26	25.4	33.4	10.6	6.28	8.29	183
4/10/26	24.9	32.2	10.6	6.37	8.27	247
4/11/26	24.7	30.9	10.8	6.27	8.27	307
4/12/26	24.5	31.5	10.8	6.42	8.28	343
4/13/26	24.7	32.1	10.7	6.15	8.29	315
4/14/26	24.7	32.2	10.7	6.13	8.28	459
4/15/26	24.6	30.1	10.6	6.24	8.28	375
4/16/26	25.5	31.3	10.6	6.05	8.28	296
4/17/26	25.5	30.9	10.5	6.05	8.27	254
4/18/26	26.1	31.2	10.4	6.13	8.28	316
4/19/26	26.3	31.2	10.4	6.16	8.28	398
4/20/26	26.5	31.4	10.4	6.10	8.27	567
4/21/26	25.9	30.7	10.5	6.20	8.28	308
4/22/26	25.2	31.3	10.5	6.25	8.28	282

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4/23/26	25.2	31.5	10.5	5.97	8.27	286
4/24/26	25.2	31.3	10.5	6.12	8.30	823
4/25/26	25.4	31.2	10.5	6.23	8.29	404
4/26/26	25.8	31.1	10.5	5.93	8.28	269
4/27/26	26.2	31.1	10.5	5.76	8.30	184
4/28/26	26.4	31.6	10.5	5.97	8.27	351
4/29/26	26.5	31.4	10.5	5.97	8.28	203
4/30/26	26.5	31.3	10.5	5.90	8.27	301
5/1/26	26.7	31.3	10.5	6.12	8.29	313
5/2/26	26.6	29.9	10.4	6.13	8.27	372
5/3/26	26.0	32.2	10.4	5.73	8.29	144
5/4/26	26.1	31.4	10.5	5.62	8.31	50.7
5/5/26	26.2	30.8	10.5	5.88	8.30	62.3
5/6/26	26.5	31.6	10.5	5.81	8.31	22.4

Table 27. Weekly averages data logged from site 2N over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-7/6/25	29.3	36.8	10.5	6.34	8.25	30.4
7/7/25-7/13/25	28.4	37.0	10.3	6.96	8.27	2.52
7/14/25-7/20/25	29.6	37.1	10.4	6.36	8.28	39.7
7/21/25-7/27/25	30.2	37.2	10.5	6.30	8.29	24.3
7/28/25-8/3/25	30.6	37.2	10.5	6.24	8.31	11.0
8/4/25-8/10/25	31.2	37.1	10.5	6.10	8.32	17.7
8/11/25-8/18/25	31.0	36.8	10.5	6.34	8.32	4.24
8/19/25-8/26/25	31.0	36.7	10.6	6.02	8.33	4.48
8/27/25-9/02/25	31.1	36.9	10.5	6.02	8.33	13.3
9/03/25-9/09/25	30.8	36.7	10.7	5.83	8.35	17.5
9/10/25-9/16/25	30.5	36.2	10.7	5.95	8.38	20.6
9/17/25-9/23/25	30.2	36.2	10.7	5.89	8.39	31.2
9/24/25-9/30/25	30.1	36.4	10.6	5.75	8.33	25.3
10/01/25-10/07/25	29.4	36.5	10.9	6.00	8.28	4.29
10/08/25-10/14/25	29.0	36.3	10.8	5.80	8.27	15.4
10/15/25-10/21/25	NA	NA	NA	NA	NA	NA

10/22/25-10/28/25	28.5	37.0	10.8	6.18	8.28	0.0469
10/29/25-11/04/25	27.6	36.6	10.7	5.85	8.23	14.6
11/05/25-11/11/25	27.3	36.6	10.6	5.91	8.23	1.71
11/12/25-11/18/25	26.0	40.4	19.2	6.05	8.54	3.90
11/19/25 - 11/25/25	26.5	37.2	10.5	6.05	8.40	2.81
11/26/25 - 12/2/25	25.7	37.3	10.5	5.89	8.40	13.4
12/3/25 - 12/9/25	26.2	36.4	10.4	5.64	8.42	8.78
12/10/25 - 12/16/25	25.4	33.3	10.5	5.80	8.43	12.6
12/17/25 - 12/23/25	25.3	33.8	10.5	6.14	8.46	53.2
12/24/25 - 12/30/25	25.1	33.9	10.5	6.19	8.48	84.6
12/31/25 - 1/6/26	23.8	29.3	10.5	6.57	8.49	211
1/7/26-1/13/26	24.6	36.3	10.3	6.29	8.36	5.03
1/14/26-1/20/26	23.2	36.3	10.3	6.36	8.39	5.03
1/21/26-1/27/26	23.6	36.1	10.3	6.40	8.41	5.56
1/28/26-2/3/26	22.4	36.0	10.4	6.47	8.44	15.7
2/4/26-2/10/26	21.8	35.9	10.4	6.52	8.46	13.7
2/11/26-2/17/26	22.9	36.0	10.4	6.59	8.46	8.53
2/18/26-2/24/26	23.4	33.8	10.1	6.61	8.24	20.0
2/25/26-3/3/26	23.4	35.8	10.2	6.49	8.25	6.87
3/4/26-3/10/26	25.1	38.9	10.1	6.22	8.24	15.1
3/11/26-3/17/26	25.6	41.2	10.1	5.73	8.23	29.3
3/18/26-3/24/26	24.3	41.3	10.2	6.24	8.28	52.8
3/25/26-3/31/26	25.4	39.0	10.3	6.12	8.26	83.3
4/1/26-4/7/26	25.3	34.4	10.3	6.09	8.24	124
4/8/26-4/14/26	24.9	32.3	10.7	6.23	8.27	300
4/15/26-4/21/26	25.8	31.0	10.5	6.13	8.28	359
4/22/26-4/28/26	25.6	31.3	10.5	6.04	8.29	371
4/29/26-5/5/26	26.4	31.2	10.5	5.91	8.29	207

Table 28. Monthly averages data logged from site 2N over the period June 2025 – March 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.5	37.1	10.4	6.44	8.28	20.2
Aug-25	31.0	36.9	10.5	6.13	8.32	7.98
Sep-25	30.5	36.4	10.7	5.86	8.36	23.5
Oct-25	29.0	36.5	10.9	5.89	8.27	13.2
Nov-25	26.6	37.0	10.6	6.01	8.31	4.78
Dec-25	25.4	34.5	10.5	5.95	8.45	42.7
Jan-26	23.7	34.7	10.4	6.41	8.41	45.2
Feb-26	22.6	35.2	10.3	6.57	8.37	15.2
Mar-26	25.0	39.9	10.2	6.11	8.25	41.2
Apr-26	25.5	32.2	10.5	6.11	8.27	286
May-26	26.4	31.2	10.5	5.88	8.29	161

Table 29. Quarterly averages data logged from site 2N over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25 - 09/11/25	30.4	36.9	10.5	6.22	8.31	14.9
09/12/25 - 01/06/26	27.1	35.5	10.6	5.99	8.37	35.9
01/07/26 - 04/06/26	23.9	37.0	10.3	6.32	8.33	25.4

Table 30. Daily averages data logged from site 2S over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.7	37.1	13.4	6.11	8.37	10.5
7/2/25	29.7	37.2	13.3	5.88	8.35	10.5
7/3/25	29.8	37.2	13.3	5.97	8.37	10.4
7/4/25	29.7	37.2	13.3	6.04	8.38	13.0
7/5/25	29.2	37.1	13.2	6.11	8.38	10.2
7/6/25	27.7	37.1	13.2	6.56	8.39	21.5
7/7/25	26.9	36.3	13.2	6.95	8.39	9.30
7/8/25	28.0	37.1	13.3	6.90	8.40	49.8
7/9/25	28.4	37.1	13.2	6.83	8.40	12.5
7/10/25	28.9	37.0	13.2	6.57	8.38	12.3
7/11/25	29.7	37.1	13.2	6.40	8.38	12.7
7/12/25	30.0	37.0	13.3	6.17	8.38	13.0

7/13/25	29.9	37.2	13.3	6.39	8.38	11.9
7/14/25	29.3	37.1	13.3	6.09	8.38	12.1
7/15/25	29.7	37.2	13.3	6.20	8.39	13.9
7/16/25	29.9	37.2	13.3	6.28	8.40	15.9
7/17/25	30.1	37.0	13.3	6.09	8.39	17.8
7/18/25	30.3	37.1	13.3	5.87	8.38	53.6
7/19/25	30.3	37.1	13.4	5.98	8.38	20.0
7/20/25	30.2	36.7	13.4	6.11	8.40	14.4
7/21/25	30.3	37.0	13.4	5.91	8.39	14.2
7/22/25	30.5	37.2	13.4	6.05	8.41	14.6
7/23/25	30.1	36.9	13.4	7.14	8.40	15.3
7/24/25	29.9	NA	13.4	7.32	8.39	51.8
7/25/25	29.6	NA	13.4	7.39	8.40	15.1
7/26/25	29.7	NA	13.4	7.55	8.40	14.9
7/27/25	29.8	NA	13.4	7.69	8.41	15.3
7/28/25	29.9	NA	13.4	7.52	8.41	16.1
7/29/25	30.1	NA	13.4	7.52	8.41	16.5
7/30/25	30.3	NA	13.4	7.53	8.41	18.2
7/31/25	30.4	37.1	13.4	7.22	8.43	22.3
8/1/25	31.0	37.1	13.4	6.02	8.45	18.5
8/2/25	31.3	37.1	13.3	6.03	8.46	16.5
8/3/25	31.3	37.1	13.3	5.86	8.46	17.9
8/4/25	31.4	37.1	13.4	5.83	8.47	18.9
8/5/25	31.4	37.0	13.4	5.84	8.48	19.0
8/6/25	31.5	36.9	13.5	5.92	8.48	19.5
8/7/25	31.3	36.9	13.5	5.86	8.49	16.6
8/8/25	31.2	39.9	13.8	5.98	8.35	16.9
8/9/25	30.8	43.7	14.0	6.06	8.16	3.01
8/10/25	30.5	43.7	14.1	6.10	8.16	3.01
8/11/25	30.5	43.7	14.0	6.21	8.16	5.62
8/12/25	30.8	43.6	14.0	6.61	8.15	3.06
8/13/25	30.6	43.6	14.0	6.52	8.16	3.06
8/14/25	30.7	43.6	14.0	6.48	8.16	3.08
8/15/25	31.0	43.5	14.0	6.49	8.15	3.11
8/16/25	31.0	43.5	13.9	6.23	8.14	3.22
8/17/25	31.0	43.4	13.9	6.37	8.15	7.32
8/18/25	31.0	43.3	14.0	6.32	8.14	3.13
8/19/25	31.1	43.3	14.0	6.22	8.14	3.24
8/20/25	31.0	43.2	14.1	6.18	8.15	3.18
8/21/25	31.0	43.4	14.1	6.34	8.16	3.93
8/22/25	30.9	43.5	14.1	6.07	8.15	3.05
8/23/25	30.8	43.3	14.1	5.99	8.14	NA
8/24/25	30.6	43.4	14.1	5.98	8.14	NA

8/25/25	30.7	43.6	14.1	6.02	8.14	NA
8/26/25	30.8	43.5	14.1	6.35	8.15	3.41
8/27/25	31.2	43.5	14.1	6.25	8.15	NA
8/28/25	31.1	43.4	14.0	6.23	8.15	NA
8/29/25	31.0	43.6	14.0	6.28	8.14	NA
8/30/25	31.2	43.2	14.0	6.18	8.14	NA
8/31/25	31.0	43.2	14.0	6.07	8.13	NA
9/1/25	30.8	43.1	14.0	5.87	8.12	NA
9/2/25	31.1	42.9	14.0	6.18	8.15	NA
9/3/25	31.0	42.9	14.1	6.06	8.15	NA
9/4/25	31.0	42.9	14.2	5.99	8.15	NA
9/5/25	31.0	43.0	14.2	6.09	8.16	NA
9/6/25	30.7	43.1	14.1	5.71	8.13	NA
9/7/25	30.6	42.9	14.1	5.89	8.14	NA
9/8/25	30.5	42.8	14.0	5.55	8.12	NA
9/9/25	30.2	42.7	14.1	5.76	8.13	NA
9/10/25	30.2	42.6	14.1	5.94	8.14	NA
9/11/25	30.3	42.4	14.2	6.10	8.16	NA
9/12/25	30.4	42.3	14.2	5.98	8.16	NA
9/13/25	30.5	42.5	14.3	6.08	8.17	NA
9/14/25	30.6	42.6	14.2	6.25	8.17	NA
9/15/25	30.7	42.7	14.2	6.24	8.18	NA
9/16/25	30.7	42.6	14.2	6.23	8.18	NA
9/17/25	30.4	42.7	14.2	5.94	8.17	NA
9/18/25	30.0	42.5	14.2	5.95	8.17	NA
9/19/25	30.0	42.5	14.2	5.87	8.17	NA
9/20/25	30.3	42.5	14.2	6.24	8.19	NA
9/21/25	30.0	42.5	14.2	6.05	8.19	NA
9/22/25	30.2	43.0	14.1	5.93	8.19	NA
9/23/25	30.1	43.2	14.1	5.49	8.17	NA
9/24/25	30.1	43.0	14.1	5.39	8.16	NA
9/25/25	29.9	42.8	13.9	5.26	8.16	NA
9/26/25-9/28/25	NA	NA	NA	NA	NA	NA
9/29/25	30.1	38.1	13.6	6.13	8.33	19.6
9/30/25	29.9	38.1	13.7	5.84	8.31	17.9
10/1/25	29.8	38.3	13.8	5.76	8.30	16.7
10/2/25	29.7	38.3	13.9	5.81	8.30	70.8
10/3/25	29.2	38.2	13.9	5.65	8.28	22.5
10/4/25	29.1	38.1	14.0	5.72	8.28	18.5
10/5/25	29.0	38.1	14.0	5.80	8.27	16.4
10/6/25	29.0	38.1	13.9	5.82	8.27	16.2
10/7/25	29.0	37.9	13.9	5.73	8.26	17.0

10/8/25	28.8	37.8	13.7	5.62	8.25	19.1
10/9/25	28.9	37.6	13.8	5.50	8.25	17.5
10/10/25	29.0	37.6	13.7	5.43	8.25	20.3
10/11/25	29.1	38.0	13.8	5.33	8.26	20.3
10/12/25	28.9	37.7	13.8	5.61	8.26	38.5
10/13/25	28.7	37.5	13.9	5.99	8.28	24.1
10/14/25	28.5	37.3	13.9	5.71	8.27	20.5
10/15/25-10/27/25	NA	NA	NA	NA	NA	NA
10/28/25	28.2	38.7	13.7	6.13	8.33	27.5
10/29/25	28.4	38.6	13.7	6.00	8.33	27.3
10/30/25	28.4	38.7	13.7	5.90	8.33	27.7
10/31/25	28.1	38.7	13.7	6.03	8.34	28.2
11/1/25	27.7	38.6	13.7	6.13	8.34	25.5
11/2/25	27.4	38.6	13.7	6.11	8.33	25.6
11/3/25	27.7	38.7	13.6	6.19	8.34	23.2
11/4/25	27.3	38.3	13.6	6.06	8.32	100
11/5/25	27.4	38.6	13.6	6.16	8.33	22.7
11/6/25	27.4	38.6	13.5	6.13	8.33	22.0
11/7/25	27.3	38.6	13.5	6.23	8.33	21.8
11/8/25	27.7	38.8	13.5	6.12	8.33	22.1
11/9/25	27.9	38.9	13.4	6.02	8.34	22.3
11/10/25	27.8	38.9	13.4	6.04	8.34	22.3
11/11/25	26.8	38.8	13.4	6.18	8.34	22.0
11/12/25	26.7	39.0	13.5	6.18	8.35	22.4
11/13/25	26.8	39.1	13.5	6.22	8.36	23.3
11/14/25	26.6	39.1	13.5	6.31	8.36	23.8
11/15/25	26.6	39.0	13.5	6.31	8.36	24.9
11/16/25	26.2	39.0	13.5	6.38	8.36	25.2
11/17/25	26.4	39.1	13.5	6.67	8.37	26.5
11/18/25	26.3	39.1	13.5	6.53	8.37	26.3
11/19/25	26.6	39.1	13.4	6.41	8.37	26.2
11/20/25	26.8	39.1	13.4	6.35	8.37	26.6
11/21/25	26.7	39.2	13.4	6.35	8.37	27.6
11/22/25	26.7	39.1	13.4	6.46	8.37	28.8
11/23/25	26.6	39.1	13.4	6.37	8.37	29.2
11/24/25	26.6	39.1	13.4	6.32	8.37	29.5
11/25/25	26.5	39.2	13.4	6.38	8.37	30.1
11/26/25	26.4	39.2	13.4	6.37	8.37	30.7
11/27/25	26.4	39.2	13.4	6.28	8.36	31.4
11/28/25	26.1	39.1	13.4	6.30	8.37	31.0
11/29/25	26.0	39.2	13.5	6.32	8.38	34.5
11/30/25	25.5	38.7	13.5	6.29	8.37	41.1

12/1/25	25.8	38.7	13.5	6.24	8.38	33.1
12/2/25	26.0	38.8	13.4	6.30	8.38	33.6
12/3/25	26.1	38.8	13.4	6.32	8.38	34.7
12/4/25	26.4	39.0	13.3	6.28	8.38	35.2
12/5/25	26.4	39.0	13.3	6.30	8.39	34.8
12/6/25	26.3	39.1	13.2	6.41	8.39	34.2
12/7/25	26.3	39.1	13.2	6.38	8.39	34.3
12/8/25	26.3	39.1	13.2	6.18	8.38	35.7
12/9/25	26.0	39.0	13.3	6.13	8.38	35.1
12/10/25	25.8	38.9	13.4	6.09	8.37	36.9
12/11/25	26.1	38.8	13.4	6.32	8.39	34.9
12/12/25	26.0	38.7	13.4	6.35	8.40	34.6
12/13/25	25.9	38.7	13.4	6.40	8.40	35.1
12/14/25	25.6	38.6	13.4	6.46	8.40	37.5
12/15/25	25.6	38.6	13.4	6.27	8.39	46.5
12/16/25	25.3	38.5	13.4	6.38	8.40	45.0
12/17/25	25.3	38.2	13.4	6.43	8.41	56.9
12/18/25	25.4	38.7	13.4	6.38	8.41	66.0
12/19/25	25.5	38.6	13.3	6.32	8.40	58.8
12/20/25	25.8	38.7	13.3	6.39	8.41	49.9
12/21/25	25.9	38.7	13.3	6.31	8.41	43.7
12/22/25	25.6	38.3	13.3	6.37	8.41	48.4
12/23/25	25.0	37.8	13.3	6.46	8.40	87.6
12/24/25	25.3	38.7	13.3	6.35	8.42	74.2
12/25/25	25.5	38.6	13.4	6.36	8.42	68.6
12/26/25	25.7	38.7	13.4	6.37	8.42	76.1
12/27/25	25.4	38.6	13.4	6.45	8.42	60.5
12/28/25	25.2	38.6	13.4	6.50	8.42	66.9
12/29/25	25.4	38.4	13.4	6.44	8.42	83.7
12/30/25	25.2	38.7	13.4	6.43	8.43	79.8
12/31/25	24.6	38.1	13.4	6.45	8.43	81.2
1/1/26	24.3	38.1	13.5	6.54	8.44	74.7
1/2/26	24.1	38.1	13.4	6.47	8.44	62.1
1/3/26	24.0	38.1	13.4	6.74	8.45	66.2
1/4/26	24.3	38.2	13.4	6.51	8.45	146
1/5/26	24.3	38.1	13.4	6.54	8.44	73.2
1/6/26	24.7	38.5	13.3	6.56	8.39	60.7
1/7/26	24.7	38.9	13.3	6.57	8.35	38.4
1/8/26	24.7	38.9	13.3	6.63	8.36	37.6
1/9/26	24.7	38.9	13.2	6.62	8.36	37.4
1/10/26	24.6	38.9	13.2	6.63	8.36	36.7
1/11/26	24.6	39.0	13.1	6.64	8.37	36.5
1/12/26	24.5	38.9	13.2	6.43	8.36	37.1

1/13/26	24.7	38.8	13.2	6.40	8.37	37.0
1/14/26	24.7	38.8	13.2	6.33	8.37	36.6
1/15/26	24.4	38.8	13.2	6.36	8.36	37.8
1/16/26	23.5	38.8	13.3	6.61	8.38	36.2
1/17/26	23.7	38.8	13.3	6.63	8.38	39.1
1/18/26	23.9	38.9	13.3	6.49	8.38	42.4
1/19/26	23.3	38.8	13.2	6.63	8.38	41.7
1/20/26	23.0	38.9	13.3	6.65	8.38	41.2
1/21/26	22.8	38.9	13.4	6.70	8.39	45.7
1/22/26	23.9	38.9	13.3	6.42	8.39	48.2
1/23/26	24.1	38.9	13.3	6.46	8.39	48.8
1/24/26	24.5	38.8	13.3	6.71	8.40	51.4
1/25/26	24.6	38.7	13.2	6.71	8.40	52.3
1/26/26	24.4	38.7	13.1	6.45	8.39	55.4
1/27/26	23.7	38.7	13.3	6.58	8.39	59.5
1/28/26	23.6	38.7	13.3	6.61	8.40	50.5
1/29/26	23.6	38.7	13.3	6.64	8.41	73.1
1/30/26	23.8	38.7	13.3	6.55	8.40	50.1
1/31/26	23.1	38.8	13.3	6.57	8.41	48.0
2/1/26	22.6	38.7	13.3	6.67	8.41	49.2
2/2/26	22.5	38.9	13.3	6.71	8.42	48.1
2/3/26	22.0	38.9	13.4	6.81	8.43	50.0
2/4/26	21.5	38.8	13.4	7.04	8.43	57.4
2/5/26	22.3	38.9	13.3	6.72	8.42	48.5
2/6/26	21.6	38.9	13.4	6.89	8.43	47.5
2/7/26	21.4	39.0	13.4	7.06	8.44	46.6
2/8/26	21.8	38.7	13.4	6.90	8.43	47.5
2/9/26	22.5	38.5	13.4	6.84	8.44	45.2
2/10/26	22.6	NA	13.4	NA	NA	NA
2/11/26	22.8	NA	13.4	NA	NA	NA
2/12/26	22.8	NA	13.4	NA	NA	NA
2/13/26	23.0	NA	13.4	NA	NA	NA
2/14/26	23.3	NA	13.3	NA	NA	NA
2/15/26	23.2	NA	13.3	NA	NA	NA
2/16/26	22.9	NA	13.3	NA	NA	NA
2/17/26	23.1	38.6	13.4	6.71	8.43	54.3
2/18/26	23.2	38.6	13.5	6.83	8.45	56.4
2/19/26	23.4	38.7	13.8	6.94	8.47	NA
2/20/26	23.6	38.7	13.9	7.01	8.46	NA
2/21/26	24.1	38.7	13.9	6.97	8.46	NA
2/22/26	24.5	38.6	13.8	6.85	8.45	NA
2/23/26	23.6	38.6	13.8	6.84	8.45	NA
2/24/26	23.0	38.5	13.9	6.84	8.46	NA

2/25/26	22.9	38.5	13.9	7.02	8.46	NA
2/26/26	23.2	38.6	13.9	6.85	8.45	NA
2/27/26	23.3	38.6	13.9	6.93	8.46	NA
2/28/26	23.6	38.6	13.9	6.87	8.45	NA
3/1/26	23.6	38.6	13.9	6.78	8.44	NA
3/2/26	23.9	38.5	13.9	6.81	8.44	NA
3/3/26	24.1	38.5	13.9	6.75	8.44	NA
3/4/26	24.4	38.5	13.8	6.73	8.43	NA
3/5/26	24.6	38.5	13.8	6.82	8.43	NA
3/6/26	24.8	38.5	13.8	6.87	8.43	NA
3/7/26	25.0	38.5	13.8	6.81	8.43	NA
3/8/26	25.4	38.4	13.9	6.69	8.43	NA
3/9/26	25.7	38.4	13.9	6.65	8.43	NA
3/10/26	26.0	38.5	13.9	6.70	8.42	NA
3/11/26	26.0	38.5	13.9	6.61	8.42	NA
3/12/26	26.1	38.5	13.8	6.61	8.42	NA
3/13/26	25.6	38.4	13.9	6.46	8.42	NA
3/14/26	25.7	38.4	13.9	6.48	8.43	NA
3/15/26	25.8	38.3	13.9	6.28	8.41	NA
3/16/26	25.2	38.4	13.8	6.26	8.41	NA
3/17/26	24.3	38.4	13.8	6.32	8.42	NA
3/18/26	24.2	38.3	13.9	6.48	8.42	NA
3/19/26	24.1	38.2	13.9	6.66	8.43	NA
3/20/26	24.4	38.2	14.0	6.70	8.45	NA
3/21/26	24.6	38.3	14.0	6.80	8.46	NA
3/22/26	24.6	38.3	14.0	6.96	8.46	NA
3/23/26	25.1	38.3	14.0	6.99	8.46	NA
3/24/26	25.4	38.3	14.0	6.90	8.46	NA
3/25/26	25.5	38.3	14.0	6.87	8.46	NA
3/26/26	25.6	38.2	14.0	6.73	8.45	NA
3/27/26	25.7	38.3	14.0	6.61	8.44	NA
3/28/26	25.6	38.4	14.0	6.69	8.45	NA
3/29/26	25.6	38.4	14.1	6.64	8.45	NA
3/30/26	25.1	38.3	14.1	6.46	8.44	NA
3/31/26	25.2	38.3	14.0	6.58	8.44	NA
4/1/26	25.4	38.3	14.0	6.52	8.44	NA
4/2/26	25.3	38.3	14.0	6.59	8.45	NA
4/3/26	25.3	38.2	13.9	6.52	8.43	NA
4/4/26	25.3	38.2	13.9	6.80	8.44	NA
4/5/26	25.5	38.3	13.9	6.87	8.46	NA
4/6/26	25.6	38.2	13.8	6.58	8.37	6.19
4/7/26	25.6	38.0	13.9	NA	8.26	7.80
4/8/26	25.6	37.7	14.0	NA	8.28	7.34

4/9/26	25.4	18.0	14.8	NA	8.26	160
4/10/26	25.4	32.6	14.8	NA	8.28	193
4/11/26	25.1	36.5	14.9	NA	8.29	96.9
4/12/26	25.2	36.8	14.8	NA	8.30	166
4/13/26	25.4	35.2	14.8	NA	8.30	538
4/14/26	25.8	35.5	14.9	NA	8.31	500
4/15/26	25.5	37.2	14.8	NA	8.29	47.3
4/16/26	25.8	37.7	14.7	NA	8.29	5.11
4/17/26	25.9	37.9	14.6	NA	8.30	5.61
4/18/26	26.2	37.8	14.6	NA	8.29	11.8
4/19/26	26.2	38.0	14.5	NA	8.30	4.49
4/20/26	26.5	37.9	14.6	NA	8.29	8.68
4/21/26	26.1	26.9	14.6	NA	8.29	464
4/22/26	25.6	14.2	14.6	NA	8.28	775
4/23/26	25.3	12.6	14.6	NA	8.27	723
4/24/26	25.2	12.5	14.6	NA	8.25	572
4/25/26	25.3	12.5	14.7	NA	8.12	405
4/26/26	26.0	12.5	14.6	NA	8.12	328
4/27/26	26.2	12.6	14.7	NA	8.11	199
4/28/26	26.5	12.4	14.7	NA	8.20	167
4/29/26	26.6	12.4	14.7	NA	8.18	179
4/30/26	26.7	12.4	14.7	NA	8.15	184
5/1/26	26.7	12.3	14.6	NA	8.16	205
5/2/26	26.6	12.3	14.6	NA	8.20	187
5/3/26	25.9	12.4	14.6	NA	8.22	189
5/4/26	26.3	13.3	14.7	NA	8.28	290
5/5/26	26.5	16.4	14.7	NA	8.31	415
5/6/26	26.7	20.1	14.5	NA	8.31	218

Table 31. Weekly averages data logged from site 2S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.6	37.1	13.3	6.07	8.37	10.7
07/07/25-07/13/25	28.5	37.0	13.2	6.63	8.39	18.7
07/14/25-07/20/25	29.9	37.1	13.3	6.13	8.39	20.7
07/21/25-07/27/25	30.1	36.9	13.4	6.78	8.40	20.1
07/28/25-08/03/25	30.4	37.1	13.4	7.08	8.43	17.6
08/04/25-08/10/25	31.3	37.0	13.4	5.80	8.48	19.9
08/11/25-08/18/25	30.8	43.5	14.0	6.41	8.15	3.95
08/19/25-08/26/25	30.9	43.4	14.1	6.14	8.15	3.42
08/27/25-09/02/25	31.1	43.3	14.0	6.15	8.14	NA
09/03/25-09/09/25	30.7	42.9	14.1	5.86	8.14	NA
09/10/25-09/16/25	30.5	42.5	14.2	6.12	8.17	NA
09/17/25-09/23/25	30.1	42.7	14.2	5.92	8.18	NA
09/24/25-09/30/25	30.0	40.4	13.8	5.66	8.24	18.4
10/01/25 - 10/07/25	29.3	38.1	13.9	5.76	8.28	25.4
10/08/25 - 10/14/25	28.9	37.7	13.8	5.59	8.26	23.1
10/15/25 - 10/21/25	NA	NA	NA	NA	NA	NA
10/22/25-10/28/25	28.2	38.7	13.7	6.13	8.33	27.5
10/29/25-11/04/25	27.9	38.6	13.7	6.06	8.33	36.8
11/05/25-11/11/25	27.5	38.7	13.5	6.13	8.33	22.2
11/12/25-11/18/25	26.5	39.1	13.5	6.37	8.36	24.6
10/22/25-10/28/25	26.6	39.1	13.4	6.38	8.37	28.3
10/29/25-11/04/25	26.0	39.0	13.4	6.30	8.37	33.6
11/05/25-11/11/25	26.3	39.0	13.3	6.28	8.38	34.9
11/12/25-11/18/25	25.8	38.7	13.4	6.32	8.39	38.6
11/19/25 - 11/25/25	25.5	38.4	13.3	6.38	8.40	58.8
11/26/25 - 12/2/25	25.4	38.6	13.4	6.41	8.42	72.8
12/3/25 - 12/9/25	24.3	38.2	13.4	6.54	8.43	80.5
12/10/25 - 12/16/25	24.6	38.9	13.2	6.56	8.36	37.2
12/17/25 - 12/23/25	23.8	38.8	13.3	6.53	8.38	39.3
12/24/25 - 12/30/25	24.0	38.8	13.3	6.58	8.39	51.6

12/31/25 - 1/6/26	23.0	38.8	13.3	6.65	8.41	52.7
1/7/26-1/13/26	22.0	38.8	13.4	6.91	8.43	48.8
1/14/26-1/20/26	22.9	38.6	13.3	6.71	8.43	54.3
1/21/26-1/27/26	23.6	38.6	13.8	6.90	8.46	56.4
1/28/26-2/3/26	23.5	38.5	13.9	6.86	8.45	NA
2/4/26-2/10/26	25.1	38.5	13.9	6.75	8.43	NA
2/11/26-2/17/26	25.5	38.4	13.9	6.43	8.42	NA
2/18/26-2/24/26	24.6	38.3	14.0	6.78	8.45	NA
2/25/26-3/3/26	25.5	38.3	14.0	6.65	8.45	NA
3/4/26-3/10/26	25.4	38.2	13.9	6.14	8.41	6.99
3/11/26-3/17/26	25.4	33.2	14.7	NA	8.29	237
3/18/26-3/24/26	26.0	36.2	14.6	NA	8.29	78
3/25/26-3/31/26	25.7	12.8	14.7	NA	8.19	453
4/1/26-4/7/26	26.5	13.1	14.6	NA	8.21	235
4/8/26-4/14/26	29.6	37.1	13.3	6.07	8.37	10.7
4/14/26-4/21/26	28.5	37.0	13.2	6.63	8.39	18.7
4/22/26-4/28/26	29.9	37.1	13.3	6.13	8.39	20.7
4/29/26-5/6/26	30.1	36.9	13.4	6.78	8.40	20.1

Table 32. Monthly averages data logged from site 2S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.6	37.0	13.3	6.59	8.39	18.1
Aug-25	31.3	37.0	13.4	5.86	8.47	19.3
Sept-25	30.4	42.5	14.1	5.94	8.17	18.4
Oct-25	28.9	38.1	13.8	5.74	8.28	25.0
Nov-25	26.8	38.9	13.5	6.27	8.35	29.0
Dec-25	25.7	38.7	13.4	6.35	8.40	51.1
Jan-26	24.1	38.7	13.3	6.56	8.39	51.6
Feb-26	22.9	38.7	13.6	6.88	8.44	49.4
Mar-26	25.1	38.4	13.9	6.67	8.44	NA
Apr-26	25.7	28.9	14.5	6.14	8.29	230
May-26	26.5	14.5	14.6	NA	8.25	251

Table 33. Quarterly averages data logged from site 2S over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/01/25- 9/11/25	30.4	40.4	13.7	6.31	8.28	14.3
9/11/25- 1/06/26	27.3	39.2	13.6	6.16	8.33	39.6
1/07/26- 4/06/26	24.1	38.6	13.6	6.69	8.42	45.3

Table 34. Daily averages data logged from site 3N over the period 07/01/25 – 05/06/2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.2	40.2	19.7	5.96	8.45	3.14
7/2/25	29.3	40.2	19.3	5.94	8.45	1.82
7/3/25	29.1	40.1	19.1	5.82	8.44	2.15
7/4/25	28.8	40.1	19.5	5.81	8.44	2.12
7/5/25	27.6	40.1	19.5	6.28	8.46	1.92
7/6/25	25.8	40.2	19.5	6.65	8.47	1.66

7/7/25	25.8	40.2	19.5	6.77	8.47	2.36
7/8/25	27.7	40.1	19.5	6.48	8.46	1.76
7/9/25	27.1	40.1	19.5	6.67	8.47	2.21
7/10/25	28.0	40.1	19.5	6.23	8.45	1.68
7/11/25	29.0	40.2	19.5	6.19	8.46	1.98
7/12/25	29.1	40.2	19.6	6.08	8.46	8.33
7/13/25	29.1	40.1	19.6	5.94	8.45	44.8
7/14/25	28.0	40.2	19.6	6.05	8.46	6.30
7/15/25	29.0	40.2	19.6	6.13	8.48	7.85
7/16/25	29.1	40.1	19.6	6.03	8.47	106
7/17/25	29.3	40.1	19.6	5.90	8.47	26.6
7/18/25	29.6	40.1	19.6	5.85	8.47	26.8
7/19/25	29.6	40.1	19.7	6.10	8.49	278
7/20/25	29.5	39.8	19.7	5.95	8.48	263
7/21/25	29.8	39.9	19.7	5.95	8.49	38.8
7/22/25	30.1	39.8	19.7	5.91	8.49	52.1
7/23/25	30.0	40.0	19.7	5.69	8.48	22.9
7/24/25	29.5	40.0	19.7	6.00	8.49	18.1
7/25/25	29.4	40.1	19.7	5.93	8.49	9.66
7/26/25	29.4	40.1	19.6	5.94	8.49	3.08
7/27/25	29.6	40.1	19.6	5.96	8.50	2.20
7/28/25	29.5	40.1	19.7	5.92	8.50	61.2
7/29/25	30.0	39.9	19.7	5.89	8.51	3.56
7/30/25	29.9	39.9	19.7	5.86	8.50	2.41
7/31/25	29.9	39.7	19.7	5.70	8.50	2.52
8/1/25	30.0	40.1	19.7	5.80	8.51	2.20
8/2/25	30.5	40.0	19.6	5.86	8.51	2.17
8/3/25	30.5	39.9	19.6	5.80	8.51	2.09
8/4/25	30.6	39.9	19.7	5.78	8.51	2.45
8/5/25	30.7	39.9	19.7	5.78	8.52	2.19
8/6/25	30.6	39.7	19.8	5.76	8.52	2.27
8/7/25	30.9	39.8	19.8	5.64	8.52	30.9
8/8/25	30.9	39.7	19.7	5.57	8.51	102
8/9/25	30.7	39.6	19.3	5.66	8.20	24.5
8/10/25	30.4	39.6	19.5	5.77	8.21	129
8/11/25	30.4	39.8	19.4	5.89	8.22	88.9
8/12/25	30.6	39.7	19.4	5.88	8.23	2.09
8/13/25	30.5	39.9	19.4	5.94	8.24	2.09
8/14/25	30.5	39.9	19.4	5.83	8.24	2.51
8/15/25	30.7	39.8	19.4	5.99	8.26	3.66
8/16/25	30.6	39.7	19.3	5.78	8.25	2.50
8/17/25	30.5	39.6	19.3	5.91	8.27	2.11
8/18/25	30.7	39.6	19.4	5.77	8.26	2.13

8/19/25	30.9	39.5	19.4	5.74	8.27	2.19
8/20/25	30.8	39.5	19.5	5.82	8.29	2.21
8/21/25	31.0	39.7	19.5	5.81	8.29	22.1
8/22/25	30.7	39.9	19.5	5.85	8.30	2.98
8/23/25	30.7	39.9	19.6	5.53	8.29	2.19
8/24/25	30.6	40.0	19.5	5.64	8.29	4.29
8/25/25	30.5	40.0	19.5	5.42	8.29	2.56
8/26/25	30.8	39.8	19.5	5.69	8.30	2.80
8/27/25	31.1	39.9	19.5	5.72	8.31	3.22
8/28/25	30.9	39.9	19.5	5.62	8.31	3.39
8/29/25	30.9	39.9	19.4	5.79	8.32	3.95
8/30/25	31.0	39.8	19.4	5.55	8.31	3.41
8/31/25	30.8	39.8	19.4	5.60	8.32	3.28
9/1/25	30.6	39.9	19.4	5.49	8.31	2.79
9/2/25	30.9	39.6	19.4	5.39	8.31	4.08
9/3/25	31.1	39.5	19.6	5.46	8.33	3.61
9/4/25	31.0	39.6	19.6	5.68	8.35	3.41
9/5/25	31.0	39.5	19.6	5.66	8.36	3.58
9/6/25	30.6	39.6	19.5	5.53	8.35	7.50
9/7/25	30.6	39.6	19.5	5.50	8.35	13.1
9/8/25	30.3	39.8	19.5	5.19	8.33	4.55
9/9/25	30.2	39.4	19.5	5.36	8.34	4.80
9/10/25	30.3	39.2	19.5	5.45	8.36	3.97
9/11/25	30.3	39.1	19.4	5.55	8.37	4.22
9/12/25	30.5	39.0	19.3	5.68	8.39	5.47
9/13/25	30.4	39.1	19.4	5.71	8.39	6.61
9/14/25	30.5	39.2	19.3	5.87	8.40	6.56
9/15/25	30.6	39.2	19.4	5.79	8.40	8.19
9/16/25	30.6	39.3	19.4	5.74	8.40	8.14
9/17/25	30.5	39.3	19.3	5.75	8.41	8.11
9/18/25	30.2	39.2	19.3	5.49	8.39	9.46
9/19/25	30.3	39.3	19.4	5.71	8.42	9.79
9/20/25	30.3	39.3	19.4	5.81	8.42	10.4
9/21/25	30.1	39.3	19.3	5.77	8.42	11.3
9/22/25	30.0	39.9	19.3	5.70	8.42	11.1
9/23/25	30.0	39.9	19.3	5.41	8.41	8.35
9/24/25	30.0	39.7	19.3	5.60	8.43	10.1
9/25/25	30.0	39.7	19.0	4.92	8.39	8.95
9/26/25-9/28/25	NA	NA	NA	NA	NA	NA
9/29/25	30.1	39.4	19.2	5.85	8.16	2.36
9/30/25	30.0	39.3	19.3	5.63	8.16	2.54
10/1/25	29.9	39.5	19.5	5.59	8.16	2.29

10/2/25	29.6	39.6	19.6	5.73	8.17	2.30
10/3/25	29.4	39.6	19.6	5.58	8.17	2.92
10/4/25	29.1	39.5	19.7	5.74	8.17	2.32
10/5/25	28.8	39.4	19.6	5.73	8.16	2.46
10/6/25	28.9	39.4	19.6	5.61	8.15	2.96
10/7/25	28.9	39.3	19.5	5.61	8.16	2.55
10/8/25	28.9	39.2	19.4	5.55	8.16	2.43
10/9/25	29.0	39.2	19.4	5.50	8.16	2.30
10/10/25	29.1	39.3	19.4	5.34	8.16	2.44
10/11/25	29.2	39.6	19.4	5.16	8.17	2.43
10/12/25	28.9	39.0	19.5	5.59	8.17	14.7
10/13/25	28.6	38.8	19.5	5.72	8.18	15.8
10/14/25	28.6	38.9	19.7	5.64	8.18	260
10/15/25-10/27/25	NA	NA	NA	NA	NA	NA
10/28/25	28.5	40.2	19.5	5.83	8.59	2.29
10/29/25	28.5	40.1	19.4	5.57	8.58	2.32
10/30/25	28.5	40.1	19.5	5.71	8.59	5.82
10/31/25	28.2	40.1	19.5	5.78	8.59	2.42
11/1/25	27.9	40.1	19.4	5.91	8.60	2.25
11/2/25	27.8	40.0	19.4	5.88	8.59	2.25
11/3/25	27.9	40.0	19.3	5.83	8.58	2.28
11/4/25	27.6	39.9	19.4	5.91	8.58	2.27
11/5/25	27.6	40.1	19.4	5.88	8.59	2.24
11/6/25	27.7	40.1	19.3	5.90	8.59	2.26
11/7/25	27.9	40.3	19.2	5.88	8.59	2.46
11/8/25	27.9	40.3	19.2	5.86	8.59	36.4
11/9/25	28.0	40.3	19.2	5.82	8.60	3.77
11/10/25	27.9	40.4	19.1	5.81	8.59	3.03
11/11/25	26.7	40.4	19.1	6.02	8.61	11.3
11/12/25	26.5	40.4	19.3	6.04	8.61	11.9
11/13/25	26.8	40.4	19.3	5.97	8.62	2.30
11/14/25	26.5	40.3	19.2	6.05	8.62	2.26
11/15/25	26.4	40.3	19.2	5.95	8.62	2.42
11/16/25	26.7	40.4	19.2	6.06	8.63	2.54
11/17/25	26.7	40.4	19.3	6.11	8.44	3.66
11/18/25	26.7	40.5	19.2	6.18	8.22	2.23
11/19/25	26.7	40.5	19.2	6.14	8.21	2.25
11/20/25	26.8	40.5	19.2	5.96	8.21	2.25
11/21/25	26.8	40.5	19.2	6.07	8.23	2.36
11/22/25	26.8	40.5	19.2	6.11	8.23	2.23
11/23/25	26.7	40.5	19.2	6.12	8.24	2.57
11/24/25	26.6	40.5	19.2	6.07	8.25	2.30

11/25/25	26.6	40.5	19.2	6.10	8.25	2.67
11/26/25	26.6	40.5	19.2	6.07	8.26	4.44
11/27/25	26.6	40.5	19.1	6.01	8.26	2.83
11/28/25	26.2	40.5	19.2	6.03	8.27	3.11
11/29/25	25.5	40.5	19.3	6.02	8.26	11.2
11/30/25	25.8	40.3	19.3	5.99	8.28	21.6
12/1/22	25.9	40.3	19.2	6.08	8.28	3.06
12/2/25	26.2	40.4	19.2	6.05	8.29	2.62
12/3/25	26.1	40.4	19.2	6.03	8.29	2.78
12/4/25	26.3	40.3	19.1	6.01	8.29	3.31
12/5/25	26.4	40.4	19.1	5.98	8.30	5.27
12/6/25	26.4	40.4	19.0	6.04	8.31	8.36
12/7/25	26.4	40.4	19.0	6.06	8.31	9.23
12/8/25	26.2	40.4	18.9	5.98	8.32	8.38
12/9/25	26.0	40.3	19.1	5.85	8.30	12.6
12/10/25	26.1	40.2	19.2	5.90	8.31	16.6
12/11/25	26.2	40.1	19.2	5.97	8.32	8.71
12/12/25	25.8	40.0	19.2	6.16	8.33	7.29
12/13/25	25.9	40.1	19.2	6.04	8.34	6.82
12/14/25	26.1	40.1	19.1	6.07	8.34	8.42
12/15/25	25.8	40.1	19.2	6.03	8.34	18.0
12/16/25	25.5	40.2	19.2	6.09	8.35	24.0
12/17/25	25.5	40.2	19.1	6.08	8.36	18.5
12/18/25	25.8	40.2	19.2	6.05	8.36	13.0
12/19/25	25.9	40.1	19.1	6.07	8.36	16.4
12/20/25	25.9	40.1	19.0	6.05	8.36	17.4
12/21/25	26.0	40.2	19.1	5.99	8.36	14.3
12/22/25	25.8	40.1	19.1	6.12	8.37	13.5
12/23/25	25.4	40.2	19.1	6.17	8.37	24.0
12/24/25	25.4	40.2	19.1	6.18	8.38	21.4
12/25/25	25.3	40.2	19.2	6.21	8.38	22.7
12/26/25	25.7	40.2	19.1	6.05	8.39	74.8
12/27/25	25.4	40.2	19.1	6.13	8.39	29.8
12/28/25	25.5	40.2	19.2	6.09	8.39	25.9
12/29/25	25.5	40.2	19.2	6.09	8.40	35.8
12/30/25	25.2	40.1	19.2	6.08	8.40	52.0
12/31/25	24.5	40.1	19.2	6.19	8.41	40.1
1/1/26	24.3	40.2	19.2	6.23	8.42	24.7
1/2/26	24.5	40.1	19.2	6.24	8.42	24.2
1/3/26	24.3	40.1	19.2	6.23	8.42	32.5
1/4/26	24.4	40.2	19.2	6.23	8.43	24.9
1/5/26	24.2	40.1	19.2	6.33	8.43	8.29
1/6/26	24.7	40.4	19.1	6.28	8.32	6.29

1/7/26	24.7	40.6	19.1	6.26	8.24	6.26
1/8/26	24.7	40.6	19.1	6.12	8.23	6.12
1/9/26	24.7	40.6	19.0	6.26	8.22	6.26
1/10/26	24.6	40.6	19.0	6.29	8.22	6.29
1/11/26	24.6	40.6	18.9	6.28	8.23	6.28
1/12/26	24.5	40.6	19.0	6.21	8.22	6.21
1/13/26	24.5	40.5	19.0	6.09	8.21	6.09
1/14/26	24.7	40.4	19.0	6.00	8.21	6.00
1/15/26	24.4	40.4	19.0	6.12	8.22	6.12
1/16/26	23.6	40.4	19.1	6.23	8.23	6.23
1/17/26	23.8	40.4	19.1	6.26	8.23	6.26
1/18/26	24.1	40.5	19.1	6.18	8.23	6.18
1/19/26	23.6	40.6	19.0	6.34	8.25	6.34
1/20/26	23.2	40.5	19.1	6.42	8.25	6.42
1/21/26	23.3	40.6	19.2	6.26	8.24	6.26
1/22/26	23.6	40.5	19.1	6.48	8.24	6.48
1/23/26	23.9	40.4	19.1	6.21	8.23	6.21
1/24/26	24.4	40.3	19.0	6.26	8.23	6.26
1/25/26	24.4	40.2	19.0	6.29	8.24	6.29
1/26/26	24.0	40.4	18.9	6.06	8.23	6.06
1/27/26	23.6	40.4	19.0	6.21	8.24	6.21
1/28/26	23.8	40.4	19.1	6.33	8.25	6.33
1/29/26	24.1	40.3	19.1	6.31	8.25	6.31
1/30/26	24.2	40.3	19.1	6.24	8.25	6.24
1/31/26	23.7	40.3	19.1	6.22	8.25	6.22
2/1/26	22.5	40.3	19.1	6.39	8.26	6.39
2/2/26	22.2	40.4	19.2	6.39	8.26	6.39
2/3/26	22.4	40.5	19.2	6.45	8.27	6.45
2/4/26	22.3	40.4	19.2	6.49	8.26	6.49
2/5/26	22.1	40.4	19.1	6.55	8.26	6.55
2/6/26	21.6	40.4	19.1	6.61	8.27	6.61
2/7/26	22.3	40.5	19.1	6.45	8.26	6.45
2/8/26	22.2	40.5	19.2	6.52	8.26	6.52
2/9/26	22.5	40.6	19.2	6.53	8.27	6.53
2/10/26	22.5	40.6	19.2	6.55	8.26	6.55
2/11/26	22.7	40.6	19.2	6.43	8.26	6.43
2/12/26	22.6	40.6	19.2	6.49	8.26	6.49
2/13/26	22.9	40.6	19.2	6.49	8.26	6.49
2/14/26	23.1	40.6	19.1	6.44	8.26	6.44
2/15/26	23.1	40.6	19.1	6.50	8.26	6.50
2/16/26	22.6	40.6	19.1	6.45	8.26	6.45
2/17/26	23.0	40.6	19.2	6.49	8.26	6.49
2/18/26	23.2	40.8	19.1	6.44	8.24	4.00

2/19/26	23.1	40.9	19.0	6.39	8.22	2.30
2/20/26	23.4	40.8	19.1	6.52	8.21	2.49
2/21/26	24.0	40.7	19.1	6.49	8.21	2.55
2/22/26	24.2	40.7	19.0	6.32	8.21	2.62
2/23/26	23.7	40.7	19.1	6.37	8.22	2.53
2/24/26	22.9	40.7	19.1	6.43	8.22	3.26
2/25/26	23.0	40.7	19.1	6.42	8.22	2.72
2/26/26	23.3	40.7	19.1	6.40	8.22	2.74
2/27/26	23.2	40.7	19.1	6.41	8.22	2.81
2/28/26	23.2	40.7	19.1	6.30	8.22	2.77
3/1/26	23.4	40.7	19.1	6.33	8.22	3.08
3/2/26	23.8	40.6	19.1	6.39	8.22	2.74
3/3/26	24.1	40.6	19.1	6.40	8.22	2.75
3/4/26	24.3	40.6	19.0	6.35	8.21	2.87
3/5/26	24.5	40.5	19.1	6.42	8.21	3.13
3/6/26	24.7	40.5	19.0	6.42	8.22	3.14
3/7/26	25.0	40.5	19.0	6.36	8.22	3.41
3/8/26	25.4	40.3	19.1	6.27	8.22	5.83
3/9/26	25.7	40.3	19.1	6.29	8.22	3.77
3/10/26	25.8	40.3	19.1	6.24	8.21	3.56
3/11/26	25.8	40.3	19.1	6.17	8.21	3.49
3/12/26	25.6	40.3	19.1	6.16	8.22	3.55
3/13/26	25.4	40.2	19.1	6.14	8.22	3.40
3/14/26	25.6	40.2	19.1	6.17	8.22	3.48
3/15/26	25.3	40.2	19.1	5.96	8.21	3.53
3/16/26	24.4	40.3	19.0	6.06	8.22	3.57
3/17/26	24.0	40.3	19.0	5.94	8.22	3.67
3/18/26	24.0	40.1	19.1	6.09	8.22	3.74
3/19/26	24.2	40.1	19.1	6.26	8.24	4.06
3/20/26	24.3	40.0	19.1	6.27	8.25	3.91
3/21/26	24.7	40.0	19.2	6.24	8.24	3.96
3/22/26	24.8	40.0	19.2	6.39	8.25	3.89
3/23/26	25.3	40.0	19.2	6.39	8.25	3.97
3/24/26	25.5	40.0	19.2	6.31	8.25	4.10
3/25/26	25.5	40.0	19.2	6.36	8.25	4.85
3/26/26	25.5	39.9	19.2	6.30	8.24	4.62
3/27/26	25.5	39.9	19.2	6.27	8.24	4.48
3/28/26	25.4	40.0	19.2	6.22	8.25	6.05
3/29/26	25.5	40.0	19.3	6.26	8.25	6.20
3/30/26	25.2	39.9	19.3	6.07	8.23	15.6
3/31/26	25.3	40.0	19.2	6.17	8.25	7.18
4/1/26	25.4	40.0	19.2	6.22	8.25	5.13
4/2/26	25.3	39.9	19.2	6.23	8.26	6.26

4/3/26	25.4	39.9	19.1	6.21	8.26	6.04
4/4/26	25.3	39.9	19.1	6.33	8.26	5.75
4/5/26	25.4	39.8	19.1	6.44	8.26	7.00
4/6/26	25.4	39.8	19.0	6.36	8.27	5.65
4/7/26	25.4	39.8	19.1	5.99	8.24	5.94
4/8/26	25.5	39.5	19.3	6.11	8.24	8.98
4/9/26	25.4	39.4	19.3	6.21	8.27	12.3
4/10/26	25.2	39.3	19.4	6.13	8.26	11.2
4/11/26	25.3	39.2	19.5	6.22	8.27	8.16
4/12/26	25.5	39.5	19.5	6.23	8.27	7.63
4/13/26	25.5	39.5	19.4	6.15	8.27	6.67
4/14/26	25.7	39.5	19.5	6.21	8.27	6.47
4/15/26	25.6	39.4	19.4	6.13	8.26	6.38
4/16/26	25.6	39.4	19.3	6.20	8.26	6.27
4/17/26	25.8	39.4	19.2	6.27	8.26	6.03
4/18/26	26.0	39.5	19.2	6.11	8.26	6.31
4/19/26	26.0	39.4	19.1	6.16	8.26	6.13
4/20/26	26.1	39.5	19.2	6.27	8.26	6.33
4/21/26	26.0	39.4	19.2	6.17	8.26	7.68
4/22/26	25.5	39.5	19.3	6.27	8.26	7.22
4/23/26	25.5	39.5	19.3	6.15	8.26	6.90
4/24/26	25.4	39.5	19.3	6.25	8.27	6.83
4/25/26	25.5	39.3	19.3	6.32	8.27	7.72
4/26/26	25.9	39.4	19.3	6.26	8.27	6.27
4/27/26	25.9	39.5	19.3	6.11	8.27	5.97
4/28/26	26.2	39.5	19.3	6.09	8.26	6.09
4/29/26	26.3	39.5	19.3	6.10	8.26	6.06
4/30/26	26.2	39.4	19.3	6.12	8.27	8.71
5/1/26	26.4	39.5	19.3	6.13	8.27	8.51
5/2/26	26.1	39.5	19.2	6.16	8.27	6.04
5/3/26	25.7	39.5	19.2	6.15	8.27	20.2
5/4/26	26.2	39.4	19.4	6.11	8.27	6.31
5/5/26	26.3	39.4	19.4	6.11	8.27	30.8
5/6/26	26.5	37.8	18.6	6.13	8.26	6.06

Table 35. Weekly averages data logged from site 3N over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	28.9	40.1	19.5	5.98	8.45	2.12
07/07/25-07/13/25	27.5	40.2	19.5	6.44	8.46	2.85
07/14/25-07/20/25	29.1	40.1	19.6	6.00	8.47	71.0
07/21/25-07/27/25	29.7	40.0	19.7	5.91	8.49	58.2
07/28/25-08/03/25	29.9	40.0	19.7	5.86	8.50	10.9
08/04/25-08/10/25	30.7	39.8	19.7	5.72	8.52	23.6
08/11/25-08/18/25	30.6	39.7	19.4	5.87	8.25	13.2
08/19/25-08/26/25	30.7	39.8	19.5	5.69	8.29	5.17
08/27/25-09/02/25	30.9	39.8	19.4	5.60	8.31	3.44
09/03/25-09/09/25	30.7	39.6	19.5	5.48	8.34	5.79
09/10/25-09/16/25	30.4	39.2	19.4	5.68	8.39	6.17
09/17/25-09/23/25	30.2	39.4	19.3	5.66	8.41	9.79
09/24/25-09/30/25	30.0	39.5	19.3	5.57	8.28	5.97
10/01/25 - 10/07/25	29.2	39.5	19.6	5.66	8.16	2.54
10/08/25 - 10/14/25	28.9	39.2	19.5	5.49	8.17	20.4
10/15/25 - 10/21/25	NA	NA	NA	NA	NA	NA
10/22/25-10/28/25	28.5	40.2	19.5	5.83	8.59	2.29
10/29/25-11/04/25	28.1	40.1	19.4	5.80	8.59	2.80
11/05/25-11/11/25	27.7	40.3	19.2	5.88	8.59	8.78
11/12/25-11/18/25	26.6	40.4	19.2	6.05	8.54	3.90
11/19/25 - 11/25/25	26.7	40.5	19.2	6.08	8.23	2.38
11/26/25 - 12/2/25	26.1	40.4	19.2	6.04	8.27	6.99

12/3/25 - 12/9/25	26.3	40.4	19.1	5.99	8.30	7.14
12/10/25 - 12/16/25	25.9	40.1	19.2	6.04	8.33	12.8
12/17/25 - 12/23/25	25.8	40.1	19.1	6.08	8.36	16.7
12/24/25 - 12/30/25	25.4	40.2	19.1	6.12	8.39	37.5
12/31/25 - 1/6/26	24.4	40.2	19.2	6.25	8.41	23.0
1/7/26-1/13/26	24.6	40.6	19.0	6.22	8.23	6.22
1/14/26-1/20/26	23.9	40.5	19.0	6.22	8.23	6.22
1/21/26-1/27/26	23.9	40.4	19.0	6.25	8.24	6.25
1/28/26-2/3/26	23.3	40.4	19.1	6.33	8.26	6.33
2/4/26-2/10/26	22.2	40.5	19.2	6.53	8.26	6.53
2/11/26-2/17/26	22.9	40.6	19.2	6.47	8.26	6.47
2/18/26-2/24/26	23.5	40.8	19.1	6.42	8.22	2.82
2/25/26-3/3/26	23.4	40.7	19.1	6.38	8.22	2.80
3/4/26-3/10/26	25.0	40.4	19.1	6.34	8.22	3.67
3/11/26-3/17/26	25.1	40.2	19.1	6.09	8.22	3.53
3/18/26-3/24/26	24.7	40.0	19.2	6.28	8.24	3.95
3/25/26-3/31/26	25.4	40.0	19.2	6.24	8.24	6.99
4/1/26-4/7/26	25.4	39.9	19.1	6.25	8.26	5.97
4/8/26-4/14/26	25.5	39.4	19.4	6.18	8.26	8.78
4/15/26-4/21/26	25.9	39.4	19.2	6.19	8.26	6.45
4/22/26-4/28/26	25.7	39.4	19.3	6.21	8.26	6.71
4/29/26-5/5/26	26.2	39.5	19.3	6.13	8.27	12.4

Table 36. Monthly averages data logged from site 3N over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	28.9	40.1	19.6	6.05	8.47	32.5
Aug-25	30.6	39.9	19.7	5.75	8.51	18.3
Sep-25	30.4	39.4	19.4	5.59	8.37	6.81
Oct-25	29.0	39.5	19.5	5.60	8.25	9.44
Nov-25	27.0	40.3	19.2	5.99	8.44	5.26
Dec-25	25.8	40.2	19.1	6.06	8.35	18.2
Jan-26	24.2	40.4	19.1	6.24	8.27	8.93
Feb-26	24.2	40.4	19.1	6.24	8.27	9.22
Mar-26	23.0	40.6	19.1	6.43	8.25	5.15
Apr-26	25.6	39.5	19.3	6.20	8.26	7.00
May-26	26.2	39.2	19.2	6.13	8.27	13.0

Table 37. Quarterly averages data logged from site 3N over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25- 09/11/25	29.9	39.9	19.5	5.84	8.39	20.4
09/12/25- 01/06/26	27.3	40.1	19.3	5.91	8.37	12.9
01/07/26- 04/06/26	24.1	40.4	19.1	6.31	8.24	5.20

Table 38. Daily averages data logged from site 3S over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.2	37.0	17.4	6.62	8.48	1.90
7/2/25	29.2	36.6	17.1	6.47	8.47	1.78
7/3/25	29.2	36.7	17.2	6.50	8.48	1.71
7/4/25	29.0	36.8	17.3	6.61	8.49	1.62
7/5/25	28.2	36.9	17.3	6.72	8.49	2.43
7/6/25	26.5	37.1	17.2	7.10	8.50	1.33
7/7/25	25.7	36.9	17.3	7.43	8.50	1.26
7/8/25	27.6	36.9	17.3	7.34	8.50	1.49
7/9/25	27.3	36.9	17.3	7.34	8.50	1.48
7/10/25	28.0	36.9	17.3	6.89	8.49	51.0
7/11/25	29.1	36.9	17.3	6.82	8.49	144
7/12/25	29.3	37.2	17.3	6.69	8.49	148

7/13/25	29.3	37.0	17.3	6.65	8.49	150
7/14/25	28.5	37.1	17.3	6.54	8.49	152
7/15/25	29.2	37.2	17.3	6.69	8.50	165
7/16/25	29.2	37.0	17.3	6.70	8.50	165
7/17/25	29.4	37.0	17.3	6.46	8.49	167
7/18/25	29.7	37.1	17.4	6.41	8.49	182
7/19/25	29.6	37.1	17.4	6.43	8.49	202
7/20/25	29.6	37.0	17.5	6.54	8.50	187
7/21/25	29.8	36.9	17.5	6.45	8.50	172
7/22/25	30.1	36.9	17.4	6.61	8.51	164
7/23/25	30.0	37.0	17.4	6.38	8.50	161
7/24/25	29.7	37.0	17.4	6.52	8.50	160
7/25/25	29.4	37.1	17.4	6.54	8.50	172
7/26/25	29.5	37.0	17.4	6.59	8.51	182
7/27/25	29.7	37.0	17.4	6.63	8.51	186
7/28/25	29.7	37.0	17.4	6.52	8.51	189
7/29/25	30.0	36.6	17.4	6.63	8.52	191
7/30/25	30.2	36.5	17.4	6.59	8.52	194
7/31/25	30.1	36.7	17.4	6.52	8.52	197
8/1/25	30.2	36.7	17.4	6.55	8.52	203
8/2/25	30.5	36.6	17.4	6.52	8.52	232
8/3/25	30.6	36.6	17.4	6.43	8.52	209
8/4/25	30.8	36.6	17.4	6.44	8.53	186
8/5/25	30.7	36.6	17.4	6.37	8.53	182
8/6/25	30.8	36.6	17.5	6.42	8.53	182
8/7/25	30.8	36.6	17.5	6.38	8.54	178
8/8/25	30.8	36.6	17.6	6.05	8.53	184
8/9/25	30.8	36.4	17.5	6.32	8.36	199
8/10/25	30.4	36.4	17.5	6.33	8.36	191
8/11/25	30.3	36.4	17.6	6.41	8.37	186
8/12/25	30.6	36.3	17.5	6.69	8.37	186
8/13/25	30.5	36.4	17.5	6.47	8.37	183
8/14/25	30.5	36.5	17.5	6.55	8.38	185
8/15/25	30.8	36.5	17.5	6.63	8.38	189
8/16/25	30.7	36.4	17.4	6.35	8.37	191
8/17/25	30.8	36.3	17.4	6.54	8.39	192
8/18/25	30.7	36.3	17.5	6.40	8.38	193
8/19/25	30.9	36.3	17.5	6.37	8.38	199
8/20/25	30.8	36.1	17.6	6.40	8.39	203
8/21/25	30.9	36.4	17.6	6.39	8.39	209
8/22/25	30.8	36.5	17.6	6.28	8.38	213
8/23/25	30.8	36.4	17.7	6.12	8.37	217
8/24/25	30.6	36.6	17.7	6.18	8.37	220

8/25/25	30.5	36.6	17.6	6.11	8.37	229
8/26/25	30.7	36.4	17.6	6.37	8.38	252
8/27/25	31.0	36.6	17.6	6.37	8.38	296
8/28/25	31.0	36.5	17.6	6.40	8.38	286
8/29/25	30.8	36.5	17.6	6.32	8.38	288
8/30/25	31.0	36.4	17.5	6.22	8.37	293
8/31/25	30.9	36.3	17.5	6.31	8.38	287
9/1/25	30.7	36.3	17.5	6.08	8.37	284
9/2/25	31.0	36.3	17.5	6.18	8.38	278
9/3/25	31.0	36.1	17.7	6.21	8.39	278
9/4/25	31.0	36.0	17.7	6.14	8.39	280
9/5/25	31.0	36.0	17.7	6.36	8.40	259
9/6/25	30.7	36.2	17.7	6.14	8.39	241
9/7/25	30.6	36.2	17.6	6.10	8.39	260
9/8/25	30.5	36.4	17.6	5.81	8.38	296
9/9/25	30.2	36.2	17.6	5.93	8.38	295
9/10/25	30.2	35.9	17.6	6.17	8.40	297
9/11/25	30.3	35.8	17.7	6.29	8.41	297
9/12/25	30.4	35.7	17.8	6.23	8.41	296
9/13/25	30.5	35.9	17.8	6.06	8.41	294
9/14/25	30.5	36.0	17.7	6.42	8.43	292
9/15/25	30.6	36.1	17.8	6.23	8.43	290
9/16/25	30.6	36.2	17.7	6.31	8.43	285
9/17/25	30.4	36.1	17.7	6.25	8.44	280
9/18/25	30.0	36.0	17.7	6.34	8.44	273
9/19/25	30.1	35.9	17.7	6.14	8.43	260
9/20/25	30.3	35.8	17.7	6.01	8.43	250
9/21/25	30.1	35.7	17.7	6.32	8.46	251
9/22/25	30.1	36.3	17.6	6.17	8.46	251
9/23/25	30.1	36.4	17.7	6.14	8.45	233
9/24/25	30.0	39.1	17.2	6.23	8.29	8.42
9/25/25	30.0	39.1	17.4	6.03	8.28	3.57
9/26/25-9/28/25	NA	NA	NA	NA	NA	NA
9/29/25	30.1	39.2	17.2	6.29	8.29	3.53
9/30/25	30.0	39.1	17.3	6.05	8.28	3.56
10/1/25	29.8	39.2	17.4	6.05	8.27	3.57
10/2/25	29.6	39.2	17.5	6.08	8.27	3.54
10/3/25	29.3	39.2	17.5	5.91	8.25	4.92
10/4/25	29.2	39.2	17.7	5.97	8.25	3.63
10/5/25	28.9	39.1	17.6	6.09	8.24	3.44
10/6/25	29.1	39.1	17.5	6.02	8.23	3.42
10/7/25	29.0	38.9	17.5	6.02	8.23	3.48

10/8/25	28.9	38.9	17.4	5.91	8.22	3.77
10/9/25	28.9	38.8	17.4	5.79	8.22	3.40
10/10/25	29.1	38.9	17.4	5.57	8.22	3.65
10/11/25	29.2	39.2	17.4	5.51	8.23	3.51
10/12/25	29.0	38.8	17.5	5.91	8.23	3.46
10/13/25	28.7	38.4	17.5	6.20	8.25	3.53
10/14/25	28.7	38.4	17.6	5.82	8.23	3.47
10/15/25-10/27/25	NA	NA	NA	NA	NA	NA
10/28/25	28.4	39.6	17.5	6.20	8.28	3.38
10/29/25	28.5	39.5	17.4	6.15	8.29	3.44
10/30/25	28.5	39.6	17.5	6.13	8.29	3.43
10/31/25	28.1	39.5	17.4	6.28	8.30	3.37
11/1/25	28.0	39.5	17.4	6.35	8.30	3.84
11/2/25	27.7	39.4	17.4	6.33	8.30	3.32
11/3/25	27.9	39.5	17.3	6.32	8.30	16.4
11/4/25	27.6	39.2	17.3	6.31	8.29	3.30
11/5/25	27.7	39.5	17.4	6.36	8.30	3.30
11/6/25	27.6	39.5	17.3	6.31	8.30	3.40
11/7/25	27.6	39.5	17.2	6.29	8.30	3.67
11/8/25	27.8	39.7	17.2	6.21	8.30	3.40
11/9/25	27.9	39.7	17.2	6.19	8.30	3.40
11/10/25	27.9	39.7	17.1	6.20	8.30	3.45
11/11/25	27.0	39.6	17.1	6.34	8.31	3.29
11/12/25	26.8	39.7	17.2	6.38	8.32	3.32
11/13/25	26.9	39.7	17.2	6.40	8.32	5.16
11/14/25	26.7	39.7	17.2	6.48	8.33	3.31
11/15/25	26.7	39.7	17.2	6.48	8.33	3.20
11/16/25	26.5	39.7	17.2	6.57	8.33	3.23
11/17/25	26.6	39.7	17.2	6.55	8.30	3.21
11/18/25	26.5	39.8	17.2	6.62	8.28	3.18
11/19/25	26.7	39.8	17.2	6.61	8.28	3.23
11/20/25	26.8	39.8	17.1	6.49	8.27	3.24
11/21/25	26.8	39.8	17.2	6.51	8.27	3.21
11/22/25	26.7	39.8	17.1	6.61	8.27	3.20
11/23/25	26.7	39.8	17.2	6.55	8.28	3.11
11/24/25	26.6	39.8	17.2	6.50	8.28	3.05
11/25/25	26.6	39.8	17.2	6.54	8.28	3.05
11/26/25	26.6	39.8	17.1	6.48	8.27	3.06
11/27/25	26.5	39.8	17.1	6.43	8.27	3.05
11/28/25	26.3	39.7	17.1	6.46	8.28	3.04
11/29/25	26.2	39.7	17.2	6.51	8.29	5.27
11/30/25	25.8	39.6	17.2	6.50	8.28	8.62

12/1/25	26.0	39.6	17.2	6.42	8.28	3.22
12/2/25	26.1	39.7	17.1	6.49	8.28	3.16
12/3/25	26.1	39.7	17.1	6.48	8.28	3.37
12/4/25	26.5	39.7	17.1	6.41	8.28	3.67
12/5/25	26.4	39.7	17.0	6.47	8.28	3.72
12/6/25	26.4	39.7	17.0	6.54	8.29	4.22
12/7/25	26.3	39.7	17.0	6.50	8.28	4.72
12/8/25	26.3	39.7	16.9	6.36	8.28	5.04
12/9/25	26.1	39.6	17.0	6.37	8.28	5.79
12/10/25	26.1	39.3	17.1	6.36	8.28	42.4
12/11/25	26.3	39.4	17.1	6.49	8.29	3.99
12/12/25	26.2	39.5	17.1	6.49	8.30	3.91
12/13/25	26.1	39.5	17.1	6.53	8.30	4.13
12/14/25	25.8	39.4	17.1	6.57	8.30	4.53
12/15/25	25.8	39.3	17.1	6.48	8.30	7.43
12/16/25	25.6	39.4	17.1	6.56	8.31	12.6
12/17/25	25.8	39.4	17.1	6.55	8.32	15.0
12/18/25	25.8	39.4	17.1	6.52	8.31	4.67
12/19/25	25.8	39.4	17.0	6.49	8.31	3.90
12/20/25	25.9	39.5	17.0	6.50	8.31	3.53
12/21/25	25.9	39.5	17.0	6.53	8.31	3.76
12/22/25	25.8	39.5	17.1	6.55	8.32	4.29
12/23/25	25.4	39.5	17.1	6.58	8.31	8.91
12/24/25	25.5	39.5	17.0	6.54	8.32	16.9
12/25/25	25.6	39.5	17.1	6.60	8.32	4.38
12/26/25	25.8	39.6	17.1	6.57	8.33	6.99
12/27/25	25.4	39.4	17.1	6.62	8.32	6.36
12/28/25	25.3	39.4	17.1	6.62	8.32	11.5
12/29/25	25.5	39.5	17.1	6.66	8.33	14.5
12/30/25	25.3	39.5	17.1	6.59	8.33	60.8
12/31/25	24.8	39.5	17.2	6.62	8.34	13.2
1/1/26	24.5	39.5	17.2	6.66	8.35	56.8
1/2/26	24.5	39.5	17.1	6.64	8.35	12.7
1/3/26	24.3	39.5	17.1	6.80	8.36	39.5
1/4/26	24.4	39.5	17.1	6.66	8.35	10.7
1/5/26	24.5	39.4	17.1	6.65	8.35	6.74
1/6/26	24.7	39.7	17.0	6.72	8.36	21.1
1/7/26	24.7	39.7	17.0	6.71	8.37	2.91
1/8/26	24.7	39.7	17.0	6.69	8.37	2.93
1/9/26	24.7	39.7	17.0	6.76	8.37	2.90
1/10/26	24.6	39.7	16.9	6.80	8.37	2.90
1/11/26	24.6	39.8	16.9	6.74	8.37	2.92
1/12/26	24.5	39.7	17.0	6.67	8.37	2.92

1/13/26	24.8	39.6	17.0	6.56	8.37	2.96
1/14/26	24.8	39.5	17.0	6.49	8.37	3.13
1/15/26	24.5	39.5	16.9	6.58	8.37	2.98
1/16/26	23.7	39.5	17.1	6.70	8.38	2.86
1/17/26	23.9	39.5	17.0	6.71	8.38	2.80
1/18/26	24.0	39.6	17.0	6.67	8.38	3.06
1/19/26	23.4	39.5	17.0	6.82	8.39	2.81
1/20/26	23.4	39.6	17.1	6.81	8.39	2.77
1/21/26	23.4	39.5	17.1	6.84	8.39	3.88
1/22/26	24.1	39.6	17.1	6.66	8.39	3.00
1/23/26	24.2	39.5	17.0	6.74	8.39	3.01
1/24/26	24.5	39.4	17.0	6.80	8.39	2.90
1/25/26	24.6	39.3	17.0	6.84	8.39	2.95
1/26/26	24.2	39.4	16.9	6.52	8.38	2.93
1/27/26	23.8	39.4	17.0	6.79	8.39	4.19
1/28/26	23.9	39.3	17.0	6.78	8.40	2.89
1/29/26	24.1	39.4	17.1	6.77	8.41	6.26
1/30/26	24.1	39.3	17.1	6.71	8.40	3.22
1/31/26	23.4	39.4	17.0	6.78	8.41	3.76
2/1/26	22.8	39.4	17.0	6.85	8.41	4.70
2/2/26	22.8	39.4	17.1	6.91	8.42	2.95
2/3/26	22.4	39.4	17.2	6.96	8.42	2.80
2/4/26	22.0	39.4	17.2	7.15	8.43	2.72
2/5/26	22.6	39.5	17.1	6.92	8.42	3.18
2/6/26	22.1	39.5	17.1	6.91	8.42	4.26
2/7/26	22.1	39.5	17.1	6.95	8.42	5.42
2/8/26	22.5	39.6	17.2	6.89	8.42	4.68
2/9/26	22.5	39.6	17.2	6.96	8.42	4.96
2/10/26	22.6	39.6	17.2	6.96	8.42	5.18
2/11/26	22.7	39.7	17.2	6.93	8.42	18.3
2/12/26	22.7	39.7	17.2	6.97	8.42	6.14
2/13/26	22.9	39.7	17.2	6.98	8.42	5.51
2/14/26	23.1	39.7	17.1	6.90	8.42	5.83
2/15/26	23.1	39.7	17.1	7.02	8.42	8.90
2/16/26	22.7	39.7	17.1	6.94	8.42	6.55
2/17/26	22.9	39.7	17.1	6.96	8.42	4.98
2/18/26	23.1	39.7	17.1	6.96	8.41	4.26
2/19/26	23.2	39.8	17.1	6.92	8.37	3.15
2/20/26	23.5	39.8	17.2	7.03	8.36	2.87
2/21/26	24.1	39.8	17.2	6.81	8.35	2.83
2/22/26	24.3	39.7	17.1	6.82	8.36	2.85
2/23/26	23.6	39.7	17.2	6.85	8.37	2.77
2/24/26	23.0	39.7	17.2	6.89	8.37	3.30

2/25/26	23.1	39.7	17.2	6.97	8.37	2.74
2/26/26	23.2	39.7	17.2	6.88	8.37	2.72
2/27/26	23.2	39.7	17.2	6.95	8.37	2.73
2/28/26	23.3	39.7	17.2	6.85	8.37	2.78
3/1/26	23.4	39.7	17.2	6.80	8.37	2.74
3/2/26	23.8	39.7	17.2	6.87	8.37	2.81
3/3/26	24.1	39.7	17.2	6.82	8.37	3.17
3/4/26	24.3	39.7	17.1	6.78	8.36	3.35
3/5/26	24.5	39.6	17.2	6.87	8.36	5.08
3/6/26	24.7	39.7	17.1	6.86	8.37	8.07
3/7/26	24.9	39.7	17.1	6.78	8.36	10.8
3/8/26	25.3	39.6	17.2	6.73	8.37	13.2
3/9/26	25.7	39.6	17.2	6.70	8.37	15.3
3/10/26	25.8	39.6	17.2	6.65	8.36	8.08
3/11/26	25.8	39.6	17.2	6.65	8.36	8.34
3/12/26	25.7	39.6	17.2	6.65	8.37	8.46
3/13/26	25.4	39.5	17.2	6.55	8.37	10.8
3/14/26	25.6	39.5	17.2	6.58	8.37	12.6
3/15/26	25.6	39.5	17.2	6.35	8.35	13.7
3/16/26	24.7	39.5	17.2	6.42	8.36	19.6
3/17/26	24.1	39.5	17.1	6.34	8.36	21.0
3/18/26	24.1	39.4	17.2	6.57	8.37	27.4
3/19/26	24.4	39.4	17.3	6.70	8.38	31.2
3/20/26	24.4	39.3	17.3	6.71	8.39	46.1
3/21/26	24.7	39.4	17.3	6.74	8.39	47.5
3/22/26	24.7	39.4	17.3	6.89	8.40	44.0
3/23/26	25.1	39.4	17.3	6.86	8.40	36.5
3/24/26	25.4	39.4	17.3	6.78	8.40	33.2
3/25/26	25.5	39.4	17.3	6.85	8.40	33.3
3/26/26	25.5	39.4	17.3	6.72	8.40	32.0
3/27/26	25.5	39.4	17.3	6.63	8.39	22.0
3/28/26	25.4	39.5	17.3	6.74	8.40	15.1
3/29/26	25.5	39.4	17.4	6.67	8.40	21.2
3/30/26	25.2	39.2	17.4	6.57	8.39	14.9
3/31/26	25.2	39.4	17.4	6.61	8.39	16.6
4/1/26	25.3	39.4	17.3	6.56	8.40	20.5
4/2/26	25.2	39.4	17.3	6.72	8.41	10.1
4/3/26	25.2	39.2	17.3	6.69	8.39	11.5
4/4/26	25.3	39.2	17.2	6.95	8.41	17.2
4/5/26	25.4	39.2	17.2	6.89	8.41	13.9
4/6/26	25.4	38.1	17.2	6.76	8.33	6.51
4/7/26	25.4	36.8	17.2	6.54	8.24	0.0389
4/8/26	25.5	36.5	17.3	6.69	8.25	0.00

4/9/26	25.2	36.3	17.5	6.72	8.25	11.0
4/10/26	25.5	36.5	17.6	6.66	8.26	5.85
4/11/26	25.3	36.3	17.7	6.79	8.26	0.0499
4/12/26	25.5	36.5	17.7	6.75	8.26	0.0580
4/13/26	25.6	36.6	17.6	6.75	8.26	0.00
4/14/26	25.8	36.7	17.7	6.79	8.27	0.00
4/15/26	25.7	36.6	17.6	6.67	8.25	0.00
4/16/26	25.6	36.6	17.6	6.76	8.26	0.00
4/17/26	25.9	36.7	17.4	6.81	8.26	0.00
4/18/26	26.0	36.7	17.4	6.71	8.25	0.00
4/19/26	26.1	36.7	17.3	6.76	8.26	0.00
4/20/26	26.2	36.7	17.4	6.72	8.25	0.0615
4/21/26	26.0	36.7	17.5	6.72	8.25	7.87
4/22/26	25.6	36.7	17.5	6.79	8.25	9.79
4/23/26	25.3	36.7	17.5	6.70	8.25	1.18
4/24/26	25.3	36.8	17.4	6.84	8.26	0.0764
4/25/26	25.3	36.7	17.5	7.05	8.26	0.00
4/26/26	26.0	36.8	17.4	6.78	8.26	0.715
4/27/26	26.0	36.8	17.5	6.86	8.26	1.55
4/28/26	26.3	36.8	17.5	6.73	8.26	10.8
4/29/26	26.3	36.8	17.5	6.59	8.26	16.8
4/30/26	26.4	36.8	17.5	6.61	8.26	21.9
5/1/26	26.4	36.9	17.5	6.66	8.26	7.80
5/2/26	25.9	36.9	17.4	6.67	8.26	0.623
5/3/26	25.8	36.9	17.4	6.71	8.27	1.32
5/4/26	26.2	36.8	17.6	6.62	8.27	0.476
5/5/26	26.4	36.8	17.5	6.68	8.27	0.949
5/6/26	26.5	36.8	17.4	6.48	8.26	8.63

Table 39. Weekly averages data logged from site 3S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.0	36.8	17.3	6.62	8.48	1.83
07/07/25-07/13/25	27.6	37.0	17.3	7.09	8.50	49.8
07/14/25-07/20/25	29.3	37.1	17.4	6.56	8.49	169

07/21/25- 07/27/25	29.7	37.0	17.4	6.52	8.50	171
07/28/25- 08/03/25	30.1	36.7	17.4	6.57	8.52	199
08/04/25- 08/10/25	30.7	36.6	17.5	6.35	8.53	187
08/11/25- 08/18/25	30.6	36.4	17.5	6.51	8.38	188
08/19/25- 08/26/25	30.8	36.4	17.6	6.28	8.38	218
08/27/25- 09/02/25	30.9	36.4	17.6	6.27	8.38	287
09/03/25- 09/09/25	30.7	36.2	17.6	6.10	8.39	273
09/10/25- 09/16/25	30.5	35.9	17.7	6.24	8.42	293
09/17/25- 09/23/25	30.2	36.0	17.7	6.18	8.44	259
09/24/25- 09/30/25	30.0	39.0	17.3	6.23	8.30	21.1
10/01/25 - 10/07/25	29.3	39.1	17.5	6.02	8.25	3.72
10/08/25 - 10/14/25	28.9	38.8	17.4	5.81	8.23	3.55
10/15/25 - 10/21/25	NA	NA	NA	NA	NA	NA
10/22/25- 10/28/25	28.4	39.6	17.5	6.20	8.28	3.38
10/29/25- 11/04/25	28.1	39.5	17.4	6.27	8.30	5.30
11/05/25- 11/11/25	27.6	39.6	17.2	6.27	8.30	3.42
11/12/25- 11/18/25	26.7	39.7	17.2	6.50	8.31	3.52
11/19/25 - 11/25/25	26.7	39.8	17.1	6.54	8.28	3.16
11/26/25 - 12/2/25	26.2	39.7	17.2	6.47	8.28	4.20
12/3/25 - 12/9/25	26.3	39.7	17.0	6.45	8.28	4.36
12/10/25 - 12/16/25	26.0	39.4	17.1	6.50	8.30	11.3

12/17/25 - 12/23/25	25.8	39.5	17.1	6.53	8.31	6.30
12/24/25 - 12/30/25	25.5	39.5	17.1	6.60	8.32	17.4
12/31/25 - 1/6/26	24.5	39.5	17.1	6.68	8.35	23.0
1/7/26- 1/13/26	24.7	39.7	17.0	6.70	8.37	2.92
1/14/26- 1/20/26	23.9	39.5	17.0	6.68	8.38	2.92
1/21/26- 1/27/26	24.1	39.5	17.0	6.74	8.39	3.26
1/28/26- 2/3/26	23.4	39.4	17.1	6.82	8.41	3.80
2/4/26- 2/10/26	22.3	39.6	17.1	6.96	8.42	4.34
2/11/26- 2/17/26	22.9	39.7	17.1	6.96	8.42	8.03
2/18/26- 2/24/26	23.6	39.7	17.2	6.90	8.37	3.15
2/25/26- 3/3/26	23.4	39.7	17.2	6.88	8.37	2.81
3/4/26- 3/10/26	25.0	39.6	17.2	6.77	8.37	9.11
3/11/26- 3/17/26	25.3	39.5	17.2	6.51	8.36	13.5
3/18/26- 3/24/26	24.7	39.4	17.3	6.75	8.39	38.0
3/25/26- 3/31/26	25.4	39.4	17.4	6.68	8.40	22.1
4/1/26- 4/7/26	25.3	38.8	17.2	6.73	8.37	11.4
4/8/26- 4/14/26	25.5	36.5	17.6	6.74	8.26	2.42
4/15/26- 4/21/26	25.9	36.7	17.5	6.74	8.25	1.13
4/22/26- 4/28/26	25.7	36.8	17.5	6.82	8.26	3.45
4/29/26- 5/5/26	26.2	36.8	17.5	6.65	8.26	7.13

Table 40. Monthly averages data logged from site 3S over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.1	36.9	17.3	6.68	8.50	119
Aug-25	30.7	36.6	17.4	6.39	8.53	195
Sept-25	30.5	36.2	17.7	6.17	8.40	258
Oct-25	29.0	39.1	17.5	5.98	8.25	3.59
Nov-25	27.0	39.7	17.2	6.43	8.29	4.02
Dec-25	25.9	39.5	17.1	6.52	8.30	9.50
Jan-26	24.2	39.5	17.0	6.71	8.38	7.33
Feb-26	22.8	39.6	17.1	6.94	8.41	5.04
Mar-26	25.0	39.5	17.2	6.69	8.38	19.0
Apr-26	25.7	37.2	17.4	6.75	8.28	5.58
May-26	26.2	36.9	17.5	6.64	8.27	3.30

Table 41. Quarterly averages data logged from site 3S over the period 06/27/25 – 04/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25-09/11/25	30.1	36.6	17.5	6.47	8.45	184
9/11/25-01/06/26	27.4	39.1	17.3	6.35	8.31	41.4
01/07/26-04/06/26	24.1	39.5	17.2	6.78	8.39	9.75

Across all six coral monitoring sites (1N, 2N, 3N, 1S, 2S, and 3S), temperatures show a strong seasonal signal characterized by warm, stable conditions in summer 2025, gradual cooling through late fall, a winter minimum in January–February 2026, and a return to warmer conditions by spring 2026. During July–August 2025, temperatures remained consistently high, generally around ~29–31 °C across all sites, with only modest spatial variation between northern and southern stations. A slight cooling trend began in late August and became more pronounced in October–December 2025, when values progressively declined into the mid-to-low 20s °C (Figure 19).

The coldest period occurred in mid-January through February 2026, when temperatures reached annual minima, frequently ranging from ~21–24 °C, with occasional lows near ~20–21 °C at the northern sites. During this period, spatial differences became more apparent, with some northern stations (especially 1N–3N)

showing slightly cooler and more variable temperatures compared to southern sites. From March 2026 onward, temperatures steadily increased, returning to ~25–27 °C by April and early May 2026, with both northern and southern sites converging again toward similar thermal conditions.

Overall, the dataset reflects a clear annual cycle dominated by seasonal forcing, with relatively small but consistent spatial gradients between northern and southern stations and the most pronounced variability occurring during the winter cooling period.

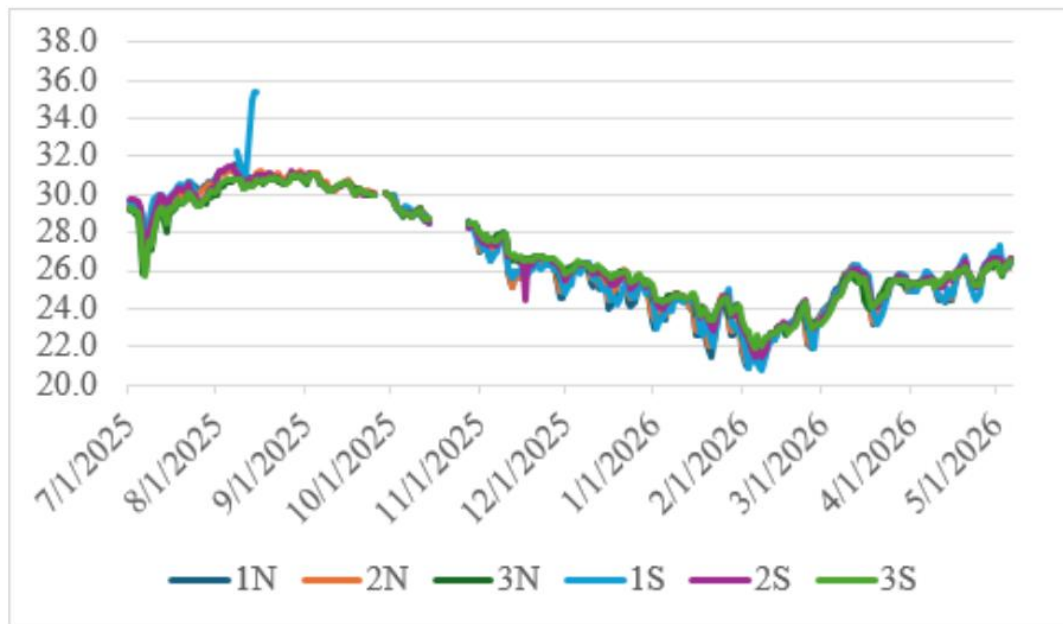


Figure 31. Daily average temperature (°C) at all six coral sites (1N, 2N, 3N, 1S, 2S, and 3S) from 07/01/2025 to 05/06/2026.

Across all coral sites, pH remained consistent (generally ~8.0–8.6), but clear spatial differences and episodic variability were evident. The most consistent and highest pH values were observed at 3N, which remained strongly alkaline and stable throughout the study, often exceeding ~8.4 and reaching the upper range during late fall and winter. Site 2N also showed relatively stable conditions but was slightly lower than 3N on average. In contrast, 1N exhibited the greatest temporal variability, including pronounced short-term decreases in July (down to ~7.9–8.0) associated with freshwater intrusion events, followed by recovery to typical marine values (~8.3–8.4) (Figure 20).

In the southern region, 2S and 3S generally tracked stable, moderately high pH values (~8.3–8.5), but were consistently slightly lower or comparable to northern offshore conditions depending on the period. Site 1S stood out as the most variable southern site, showing short-lived declines during early summer before stabilizing later in the year. Overall, the key spatial pattern was a gradient of higher and more stable pH

offshore (especially at 3N), moderate stability at mid-sites (2N, 2S, 3S), and greater variability at nearshore 1N and 1S, which were most sensitive to freshwater inputs and short-term environmental change.

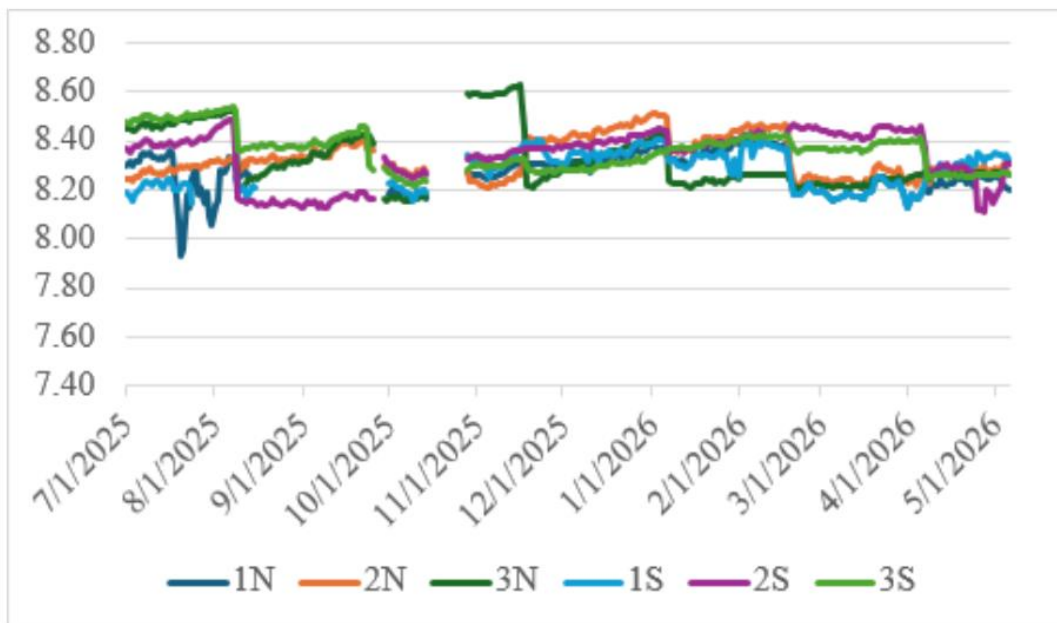


Figure 32. Daily average pH at all six coral sites (1N, 2N, 3N, 1S, 2S, and 3S) from 07/01/2025 to 05/06/2026.

Across all coral sites, relative dissolved oxygen (RDO) exhibited strong temporal variability with clear spatial structure and episodic disturbances. Overall, values ranged broadly from very low oxygen conditions (~ 4 – 5 in extreme events) to highly oxygenated periods (>7), with most measurements clustering around ~ 6.0 – 6.8 during stable conditions (Figure 21).

Spatially, offshore sites (particularly 3N and 3S) generally maintained more stable and consistently higher RDO values compared to nearshore sites. 3S stood out as the most consistently oxygenated and stable southern site, typically remaining in the mid-to-high 6 range with fewer abrupt fluctuations. Similarly, 2N and 3N showed relatively buffered conditions, though both still exhibited short-term variability during transition periods.

In contrast, 1N and 1S were the most variable sites, showing pronounced episodic drops in RDO, including several sharp declines to very low values (e.g., near ~ 4 – 5 in late March–April 2026 at 1N and 1S). These events suggest intermittent hypoxic conditions or strong localized oxygen demand, likely linked to freshwater inputs, organic matter loading, or restricted exchange due to their closer proximity to the coast. Both sites also

showed rapid recoveries following these dips, indicating dynamic and rapidly changing conditions.

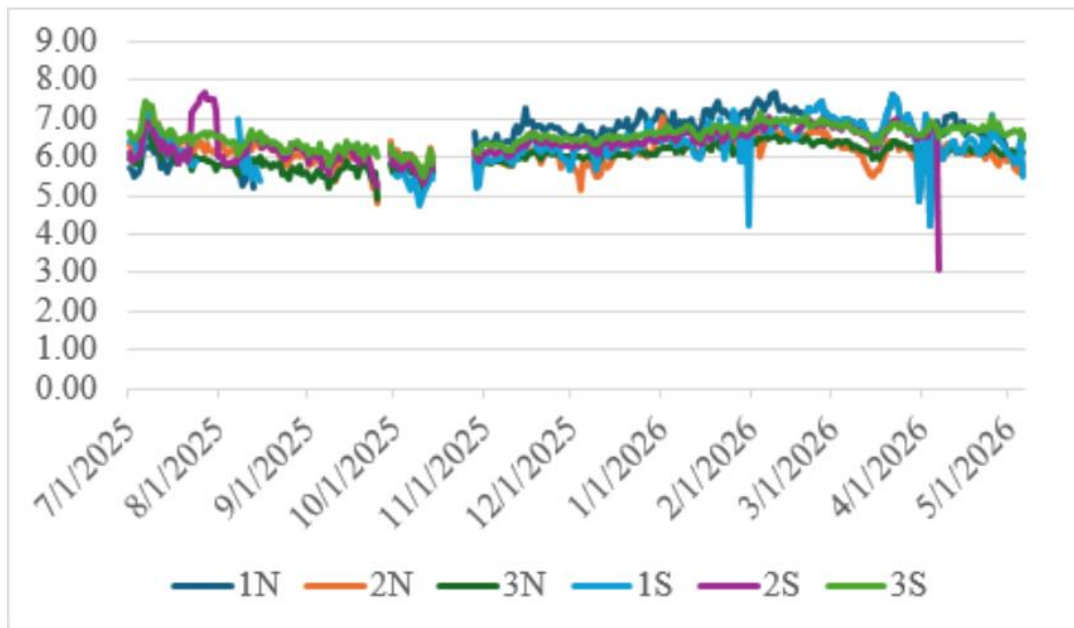


Figure 33. Daily average RDO (rugged dissolved oxygen) (mg/L) at all six coral sites (1N, 2N, 3N, 1S, 2S, and 3S) from 07/01/2025 to 05/06/2026.

Turbidity exhibited strong spatial and temporal heterogeneity across all six coral monitoring sites, with clear contrasts between relatively stable offshore conditions and highly dynamic nearshore sites. Overall, sites 1N and 1S showed the greatest variability and the most extreme turbidity events, followed by 2N and 2S, while 3N remained the most stable with consistently low to moderate values and only intermittent disturbance-related spikes. Site 3S was relatively stable during early summer but became increasingly variable during winter and spring, indicating stronger later-stage exposure to episodic hydrodynamic or runoff-driven inputs.

At site 1N, turbidity was persistently elevated with repeated extreme peaks across the study period, including summer storm events and multiple winter–spring surges exceeding several hundred to >1000 NTU, indicating chronic susceptibility to resuspension or runoff influence. Site 1S displayed the most extreme episodic behavior, including the highest recorded values in the dataset during winter–spring 2026, while 2N and 2S also showed strong storm- and runoff-associated spikes, particularly during winter and spring periods when variability intensified system-wide. In contrast, 3N maintained comparatively low baseline turbidity with only short-lived increases, reinforcing its relative hydrodynamic stability.

Three dominant disturbance windows were evident across the system: (1) mid-summer 2025, characterized by storm-associated spikes and or freshwater input primarily at 1N and adjacent sites; (2) winter 2025–2026, marked by sustained elevated variability and frequent episodic peaks across all sites, especially 1S, 2N, and 2S; and (3) spring 2026, which represented the most intense and spatially widespread turbidity event period, with repeated extreme peaks across nearshore and coastal-influenced sites. Overall, these patterns indicate that turbidity dynamics are primarily driven by episodic storm/runoff events superimposed on strong spatial gradients in exposure and site hydrodynamics (Figure 22).

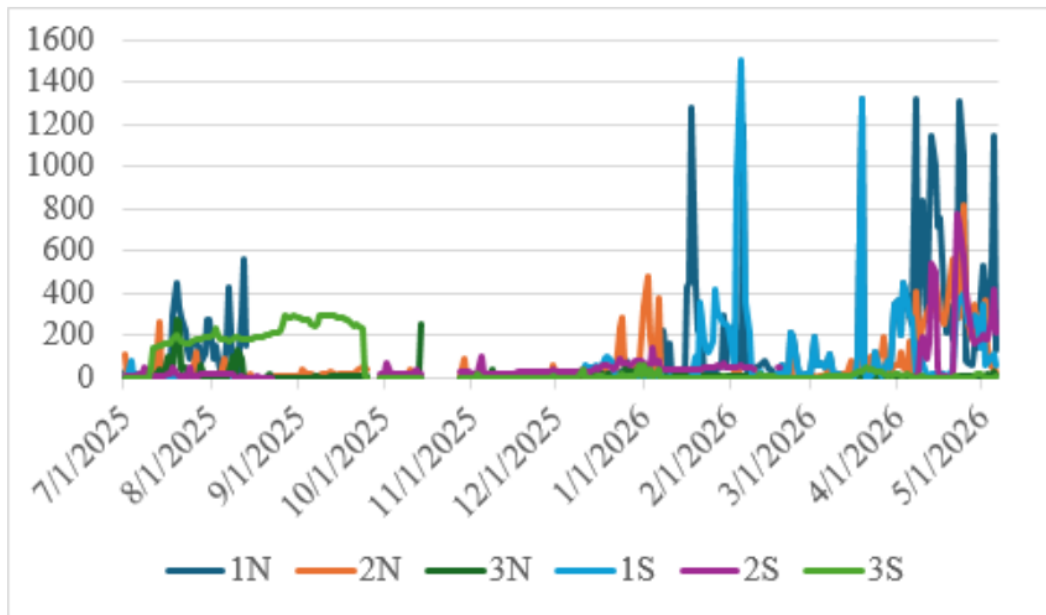


Figure 34. Daily average turbidity (NTU) at all six coral sites (1N, 2N, 3N, 1S, 2S, and 3S) from 07/01/2025 to 05/06/2026.

Salinity showed strong spatial contrast among the six coral sites, with relatively stable marine conditions at offshore sites and pronounced episodic freshening events at select nearshore locations.

Coral site 3N consistently exhibited the highest and most stable salinity (39.5–40.8 PSU) throughout the entire study period, indicating strong marine influence and minimal freshwater impact. Coral sites 2N, 2S, and 3S were highly stable (~36–39 PSU), showing the least variability among all sites and indicating strong oceanic buffering. 1N and 1S showed the greatest variability, reflecting stronger exposure to freshwater inputs and hydrologic disturbance (Figure 23).

Across the study period, clear temporal patterns and episodic freshwater events were observed. In early summer (July 2025), the most pronounced freshwater influence occurred at site 1S, where salinity sharply declined to approximately 25 PSU in July 2025, and at site 1N, which experienced a mid-July drop into the ~13–18 PSU range. These events indicate short-term but strong freshwater intrusion, while other sites remained relatively stable during the same period. During late summer to early fall (August–September 2025), salinity conditions largely stabilized across the system. Sites 3N and 3S maintained near-constant marine salinity, whereas 1N gradually recovered toward ~36–38 PSU, and only minor variability persisted at 2N and 1S. From fall into early winter (October–December 2025), salinity became even more uniform across all sites. Site 3N consistently exhibited the highest values (~40 PSU), while the remaining

stations fluctuated narrowly between ~36–39 PSU, representing the most hydrologically homogeneous period of the study.

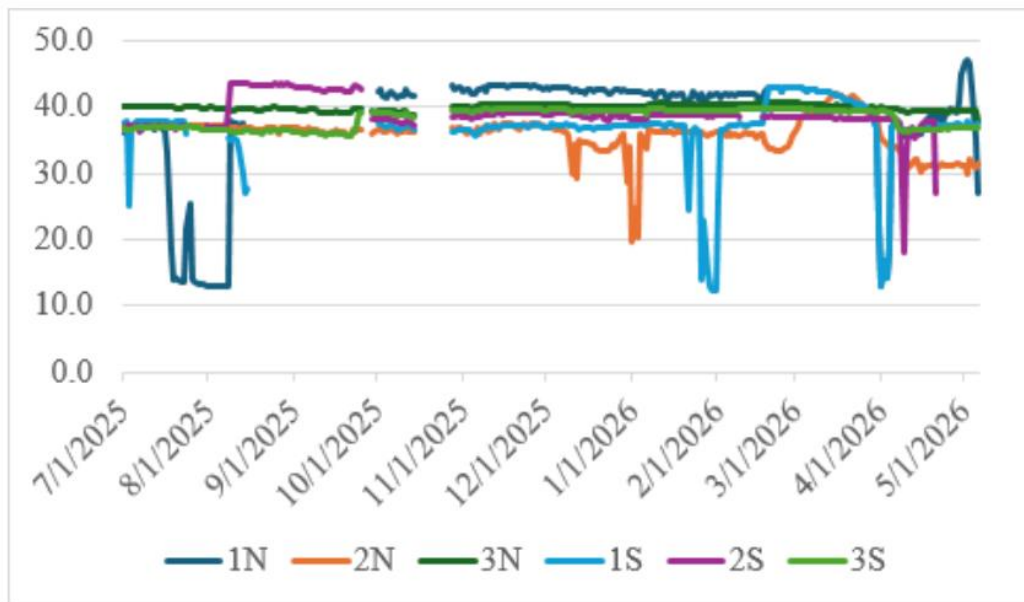


Figure 35. Daily average salinity (PSU) at all six coral sites (1N, 2N, 3N, 1S, 2S, and 3S) from 07/01/2025 to 05/06/2026.

Pressure measurements remained relatively stable across all six coral sites during the monitoring period. The major differences are due to water depth per location and the minor differences among sites reflect tidal conditions, but overall trends were highly consistent spatially and temporally (Figure 24).

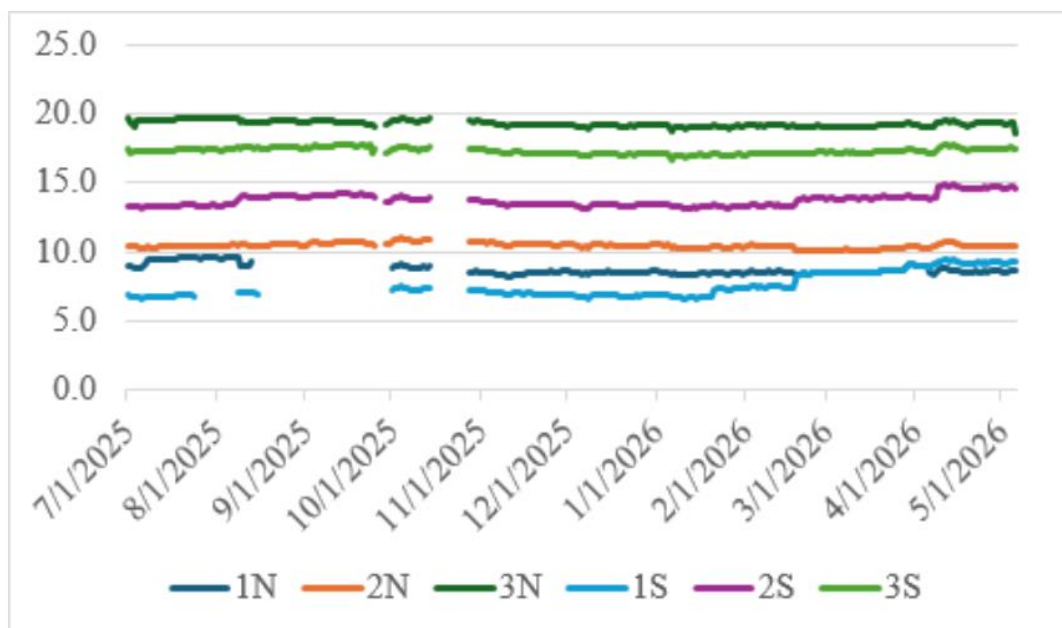


Figure 36. Daily average pressure (psi) at all six coral sites (1N, 2N, 3N, 1S, 2S, and 3S) from 07/01/2025 to 05/06/2026.

3.7. Abiotic Data Coastal Sites (BC, MB, HL, HW, and FL)

Across the five coastal sites (BC, MB, HL, HW, and FL), the six monitored parameters (temperature, pH, RDO, turbidity, salinity, and pressure) collectively show strong seasonal structuring with episodic short-term variability likely driven by weather events and freshwater inputs over the 07/01/2025–05/06/2026 period (Tables 42-61).

Table 42. Daily averages data logged from site Fort Lauderdale (FL) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.3	38.4	14.2	6.09	8.16	29.1
7/2/25	29.2	38.4	14.1	5.84	8.15	55.9
7/3/25- 7/28/25	NA	NA	NA	NA	NA	NA
7/29/25	30.3	38.5	14.1	6.11	8.18	7.21

7/30/25	30.5	38.4	14.2	5.90	8.18	54.4
7/31/25	30.4	38.5	14.2	5.91	8.18	7.95
8/1/25	30.7	38.4	14.1	5.78	8.17	9.67
8/2/25	30.9	38.5	14.1	5.98	8.19	11.4
8/3/25	31.1	38.4	14.1	5.97	8.18	10.7
8/4/25	31.0	38.5	14.2	5.73	8.17	10.1
8/5/25	31.2	38.4	14.2	5.85	8.18	11.1
8/6/25	31.3	38.4	14.3	5.89	8.19	12.5
8/7/25	31.3	38.3	14.3	5.80	8.20	12.6
8/8/25	31.2	38.3	14.2	5.82	8.20	11.4
8/9/25	30.8	38.2	14.3	5.66	8.20	4.64
8/10/25	30.5	38.2	14.4	5.80	8.21	3.86
8/11/25	30.6	38.2	14.4	5.88	8.22	3.72
8/12/25	30.7	38.1	14.3	6.09	8.22	4.03
8/13/25	30.8	38.1	14.3	5.98	8.23	4.48
8/14/25	30.8	38.2	14.3	6.07	8.24	4.59
8/15/25	31.0	38.2	14.3	6.14	8.24	5.34
8/16/25	31.2	38.1	14.2	5.98	8.24	5.34
8/17/25	31.1	38.0	14.2	5.91	8.24	12.4
8/18/25	31.2	38.1	14.3	6.00	8.25	9.76
8/19/25	31.2	37.9	14.3	5.83	8.24	10.1
8/20/25	31.0	38.0	14.4	5.79	8.26	13.5
8/21/25	30.9	38.1	14.4	5.75	8.27	23.9
8/22/25	30.9	38.1	14.4	5.61	8.27	20.4
8/23/25	30.8	38.1	14.4	5.50	8.27	22.9
8/24/25	30.6	38.2	14.4	5.54	8.27	22.6
8/25/25	30.7	38.3	14.4	5.43	8.26	23.7
8/26/25	30.8	38.3	14.4	5.71	8.27	29.4
8/27/25	31.0	38.0	14.4	5.74	8.26	43.1
8/28/25	31.1	38.2	14.4	5.65	8.25	50.9
8/29/25	31.1	38.2	14.3	5.68	8.27	51.2
8/30/25	31.2	38.1	14.3	5.72	8.27	54.5
8/31/25	31.1	38.0	14.3	5.68	8.28	68.3
9/1/25	30.9	38.1	14.3	5.50	8.28	75.2
9/2/25	30.9	38.1	14.3	5.67	8.28	145
9/3/25	31.1	37.9	14.5	5.44	8.27	109
9/4/25	31.1	38.0	14.5	5.72	8.31	91.5
9/5/25	31.0	37.9	14.5	5.71	8.33	65.0
9/6/25	30.7	38.0	14.4	5.36	8.30	53.1
9/7/25	30.6	37.9	14.4	5.37	8.30	54.9
9/8/25	30.5	37.9	14.4	5.38	8.30	50.0
9/9/25	30.3	37.5	14.4	5.23	8.21	82.3
9/10/25	30.1	37.4	14.4	5.35	8.11	4.57

9/11/25	30.1	37.4	14.5	5.41	8.11	3.39
9/12/25	30.4	37.1	14.5	5.70	8.13	3.47
9/13/25	30.4	37.3	14.6	5.44	8.13	3.43
9/14/25	30.5	37.3	14.5	5.76	8.15	7.91
9/15/25	30.6	37.2	14.5	5.94	8.16	3.68
9/16/25	30.7	37.4	14.5	5.69	8.15	4.01
9/17/25	30.5	37.5	14.5	5.28	8.12	4.13
9/18/25	30.2	37.3	14.5	5.25	8.12	3.94
9/19/25	30.3	37.5	14.5	5.52	8.14	19.2
9/20/25	30.2	37.3	14.5	5.83	8.15	4.36
9/21/25	29.9	37.3	14.5	5.71	8.15	3.91
9/22/25	30.0	37.6	14.4	5.60	8.15	3.77
9/23/25	30.1	37.9	14.4	4.95	8.12	3.87
9/24/25	30.0	37.7	14.4	5.59	8.15	3.78
9/25/25	30.1	37.7	14.4	5.49	8.15	3.96
9/26/25	30.1	37.7	14.3	5.24	8.14	3.82
9/27/25	30.2	37.9	14.3	5.91	8.17	3.64
9/28/25	30.3	37.9	14.3	5.34	8.14	4.94
9/29/25	30.4	37.8	14.3	4.12	8.09	51.0
9/30/25	30.2	37.4	14.4	5.10	8.14	33.0
10/1/25	30.0	37.4	14.6	5.37	8.15	16.1
10/2/25	29.8	37.5	14.7	5.74	8.17	14.7
10/3/25	29.5	37.3	14.7	5.30	8.14	83.1
10/4/25	29.1	37.3	14.9	5.66	8.16	47.6
10/5/25	28.8	37.4	14.8	5.69	8.15	28.1
10/6/25	29.0	37.4	14.7	5.64	8.14	29.3
10/7/25	29.0	37.3	14.7	5.64	8.14	58.0
10/8/25	28.8	37.1	14.6	5.42	8.13	93.4
10/9/25	28.9	36.9	14.5	5.22	8.12	44.9
10/10/25	28.9	36.9	14.5	5.02	8.11	75.0
10/11/25	29.1	37.4	14.6	5.17	8.14	41.3
10/12/25	29.0	37.3	14.7	5.51	8.15	54.8
10/13/25	28.8	37.1	14.7	5.67	8.15	26.0
10/14/25	28.3	36.7	14.7	5.81	8.16	32.6
10/15/25	28.4	36.8	14.7	5.87	8.17	32.5
10/16/25	28.5	37.0	14.7	5.77	8.16	38.6
10/17/25	28.0	36.9	14.7	5.88	8.16	65.3
10/18/25	27.4	36.7	14.7	5.91	8.17	78.2
10/19/25	27.2	36.5	14.6	5.81	8.17	84.3
10/20/25	28.9	37.8	14.6	5.24	8.17	79.6
10/21/25	29.1	37.9	14.5	5.11	8.16	42.0
10/22/25	29.2	37.8	14.5	5.27	8.16	44.8
10/23/25	29.1	37.8	14.5	5.71	8.17	51.8

10/24/25	28.4	37.5	14.5	5.91	8.17	138
10/25/25	27.8	37.6	14.5	6.16	8.18	156
10/26/25	27.6	37.6	14.5	6.19	8.20	208
10/27/25	28.0	37.9	14.5	5.68	8.18	203
10/28/25	28.3	37.7	14.5	5.80	8.22	99.4
10/29/25	28.4	37.4	14.5	5.66	8.33	11.0
10/30/25	28.1	37.3	14.5	5.92	8.37	9.56
10/31/25	27.5	37.1	14.5	6.01	8.37	12.1
11/1/25	27.5	37.3	14.5	6.15	8.39	3.43
11/2/25	27.5	37.3	14.4	5.99	8.37	4.50
11/3/25	27.2	37.2	14.3	6.04	8.36	14.8
11/4/25	27.3	37.2	14.4	6.15	8.38	5.86
11/5/25	26.8	37.1	14.4	6.26	8.39	15.8
11/6/25	27.1	37.4	14.3	6.03	8.38	3.27
11/7/25	26.8	37.4	14.2	6.01	8.37	3.21
11/8/25	27.6	37.5	14.2	6.04	8.39	34.8
11/9/25	27.8	37.9	14.2	5.99	8.39	3.41
11/10/25	27.8	37.9	14.1	6.04	8.40	3.23
11/11/25	26.4	38.0	14.2	6.33	8.42	4.26
11/12/25	25.3	38.0	14.3	6.47	8.42	3.66
11/13/25	25.9	38.1	14.3	6.32	8.42	3.04
11/14/25	25.9	38.2	14.2	6.41	8.43	3.07
11/15/25	25.9	38.2	14.2	6.71	8.44	2.98
11/16/25	26.4	38.1	14.2	6.44	8.43	3.64
11/17/25	26.1	38.1	14.3	6.59	8.43	5.01
11/18/25	26.4	38.1	14.2	6.37	8.43	3.74
11/19/25	26.4	38.1	14.2	6.64	8.43	3.74
11/20/25	26.3	38.0	14.2	6.46	8.42	4.75
11/21/25	26.5	38.0	14.2	6.42	8.42	3.63
11/22/25	26.5	38.0	14.2	6.41	8.42	3.50
11/23/25	26.4	38.1	14.2	6.47	8.42	3.53
11/24/25	26.3	38.0	14.2	6.46	8.42	3.71
11/25/25	26.1	38.0	14.2	6.44	8.41	3.95
11/26/25	26.5	38.0	14.2	6.38	8.42	3.58
11/27/25	26.6	38.1	14.1	6.28	8.42	4.62
11/28/25	25.9	38.1	14.2	6.30	8.42	3.58
11/29/25	25.0	38.0	14.3	6.39	8.42	7.92
11/30/25	25.5	38.1	14.3	6.29	8.44	8.01
12/1/25	25.5	38.0	14.3	6.29	8.43	9.33
12/2/25	25.5	38.0	14.2	6.39	8.43	8.37
12/3/25	25.9	38.0	14.2	6.32	8.43	5.65
12/4/25	25.9	37.9	14.1	6.50	8.44	5.27
12/5/25	26.1	37.8	14.1	6.44	8.45	5.77

12/6/25	26.3	37.9	14.0	6.34	8.45	15.4
12/7/25	26.4	38.0	14.0	6.27	8.45	5.13
12/8/25	26.4	38.0	14.0	6.30	8.45	4.56
12/9/25	25.9	38.0	14.1	6.05	8.44	7.26
12/10/25	25.8	37.8	14.2	6.19	8.44	15.5
12/11/25	25.7	37.7	14.2	6.33	8.46	5.03
12/12/25	25.2	37.8	14.2	6.46	8.46	5.33
12/13/25	25.4	37.9	14.2	6.42	8.47	6.26
12/14/25	25.3	37.8	14.1	6.25	8.46	19.9
12/15/25	25.3	37.9	14.2	6.49	8.47	9.96
12/16/25	24.7	37.9	14.1	6.55	8.48	10.8
12/17/25	25.2	37.9	14.2	6.50	8.49	9.47
12/18/25	24.9	37.8	14.2	6.60	8.48	14.1
12/19/25	25.5	37.7	14.2	6.44	8.42	7.47
12/20/25	25.6	37.8	14.1	6.53	8.37	4.04
12/21/25	25.7	37.8	14.2	6.44	8.36	4.79
12/22/25	25.2	37.8	14.2	6.50	8.36	8.58
12/23/25	25.2	38.0	14.2	6.68	8.37	15.9
12/24/25	24.8	38.0	14.2	6.70	8.37	6.64
12/25/25	24.9	38.1	14.2	6.68	8.38	4.90
12/26/25	25.0	37.9	14.2	6.58	8.38	4.33
12/27/25	24.9	38.1	14.2	6.68	8.39	4.29
12/28/25	25.0	38.0	14.3	6.81	8.39	5.54
12/29/25	25.1	38.0	14.3	6.74	8.38	5.70
12/30/25	24.8	38.0	14.3	6.58	8.38	5.03
12/31/25	23.6	38.1	14.3	6.82	8.40	8.37
1/1/26	23.2	38.1	14.3	6.77	8.40	5.12
1/2/26	23.7	38.1	14.3	6.75	8.41	4.54
1/3/26	23.9	38.2	14.2	6.81	8.41	3.71
1/4/26	23.7	38.0	14.2	6.60	8.39	4.76
1/5/26	23.7	38.2	14.3	6.82	8.41	4.30
1/6/26	24.1	38.1	14.2	6.80	8.40	4.71
1/7/26	24.4	38.1	14.2	6.61	8.40	6.68
1/8/26	24.5	38.2	14.1	6.61	8.39	4.16
1/9/26	24.7	38.0	14.1	6.63	8.39	5.47
1/10/26	24.6	38.0	14.1	6.52	8.38	7.95
1/11/26	24.7	38.0	14.0	6.59	8.38	6.99
1/12/26	24.6	38.0	14.1	6.52	8.39	23.0
1/13/26	24.3	38.0	14.1	6.38	8.39	16.7
1/14/26	24.2	37.9	14.1	6.37	8.38	10.3
1/15/26	24.1	37.9	14.1	6.47	8.39	7.01
1/16/26	22.9	37.9	14.2	6.92	8.42	7.72
1/17/26	22.8	38.0	14.1	7.02	8.43	9.30

1/18/26	23.1	38.0	14.1	6.92	8.42	8.36
1/19/26	23.1	38.0	14.1	6.81	8.43	12.3
1/20/26	22.5	38.0	14.2	6.91	8.43	12.3
1/21/26	22.7	38.0	14.2	6.78	8.42	13.1
1/22/26	22.7	37.9	14.2	6.73	8.41	10.8
1/23/26	23.0	37.9	14.2	6.75	8.41	9.60
1/24/26	23.6	37.9	14.1	7.01	8.42	9.87
1/25/26	24.6	37.7	14.1	6.81	8.41	10.3
1/26/26	24.6	37.7	14.0	6.59	8.41	12.1
1/27/26	23.6	37.8	14.1	6.65	8.41	13.7
1/28/26	22.5	37.8	14.2	6.82	8.43	13.6
1/29/26	22.7	37.8	14.2	6.87	8.44	8.11
1/30/26	23.2	37.7	14.2	6.87	8.44	8.24
1/31/26	23.3	37.8	14.1	6.73	8.44	7.62
2/1/26	22.0	37.9	14.2	6.85	8.46	10.9
2/2/26	21.4	37.9	14.2	6.95	8.46	12.9
2/3/26	21.0	37.9	14.3	7.09	8.47	13.3
2/4/26	21.7	37.9	14.3	7.09	8.46	10.6
2/5/26	21.8	37.9	14.2	7.09	8.46	10.3
2/6/26	21.0	37.9	14.2	7.04	8.47	12.2
2/7/26	20.9	37.9	14.2	7.19	8.47	14.7
2/8/26	20.9	38.0	14.3	7.16	8.47	13.6
2/9/26	21.3	38.1	14.3	7.29	8.47	14.9
2/10/26	22.0	38.1	14.3	6.94	8.45	13.4
2/11/26	22.2	38.1	14.3	7.05	8.46	16.5
2/12/26	22.5	38.2	14.3	7.00	8.45	13.0
2/13/26	22.8	38.0	14.3	6.90	8.44	13.6
2/14/26	23.0	38.0	14.2	6.96	8.44	11.7
2/15/26	23.2	37.9	14.2	6.89	8.43	13.6
2/16/26	23.0	38.1	14.2	6.87	8.44	15.8
2/17/26	23.0	37.9	14.3	6.85	8.44	20.9
2/18/26	23.2	38.0	14.2	6.94	8.44	16.5
2/19/26	23.5	38.0	14.2	6.74	8.43	18.7
2/20/26	23.5	38.0	14.2	6.60	8.43	16.5
2/21/26	23.8	38.0	14.2	6.88	8.43	15.0
2/22/26	24.1	37.9	14.2	6.81	8.42	14.5
2/23/26	23.5	37.9	14.2	6.78	8.45	12.3
2/24/26	22.3	37.9	14.3	6.94	8.46	15.2
2/25/26	22.0	37.9	14.2	6.98	8.46	12.2
2/26/26	22.7	37.9	14.3	6.84	8.46	10.2
2/27/26	23.2	37.8	14.3	6.79	8.45	10.3
2/28/26	23.6	37.8	14.2	6.67	8.44	7.87
3/1/26	23.8	37.8	14.2	6.60	8.44	8.09

3/2/26	23.9	37.8	14.2	6.75	8.44	9.18
3/3/26	24.0	37.8	14.3	6.69	8.44	10.7
3/4/26	24.3	37.7	14.2	6.64	8.43	16.0
3/5/26	24.5	37.6	14.2	6.55	8.42	17.0
3/6/26	24.7	37.6	14.2	6.32	8.41	22.7
3/7/26	25.1	37.5	14.2	6.71	8.42	20.7
3/8/26	25.4	37.5	14.3	6.61	8.43	16.6
3/9/26	25.7	37.5	14.2	6.57	8.43	16.3
3/10/26	26.1	37.4	14.3	6.53	8.42	16.3
3/11/26	26.2	38.7	14.1	6.40	8.38	10.1
3/12/26	26.1	40.9	13.9	6.27	8.42	1.17
3/13/26	25.7	40.9	13.9	6.03	8.47	1.00
3/14/26	25.6	40.8	13.9	5.92	8.79	1.07
3/15/26	25.8	40.7	13.9	5.82	NA	1.81
3/16/26	25.4	40.8	13.8	5.94	NA	1.01
3/17/26	24.4	40.9	13.8	5.90	NA	0.895
3/18/26	23.8	40.7	13.9	6.12	NA	1.02
3/19/26	23.5	40.6	14.0	6.45	NA	1.83
3/20/26	23.4	40.5	13.9	6.63	NA	2.26
3/21/26	23.6	40.6	14.0	6.70	NA	2.97
3/22/26	24.2	40.6	14.0	6.82	NA	5.62
3/23/26	24.8	40.7	14.0	6.68	NA	2.74
3/24/26	25.2	40.7	14.0	6.67	NA	1.26
3/25/26	25.4	40.8	14.0	6.35	NA	2.40
3/26/26	25.5	40.8	14.0	6.39	NA	4.12
3/27/26	25.7	40.8	14.0	6.39	NA	5.68
3/28/26	25.6	40.9	14.0	6.21	NA	12.5
3/29/26	25.6	40.8	14.1	6.13	NA	7.25
3/30/26	25.1	40.7	14.1	6.12	NA	10.8
3/31/26	24.8	40.7	14.0	5.94	NA	90.0
4/1/26	24.9	40.7	14.0	6.32	NA	23.8
4/2/26	24.9	40.7	14.0	6.25	NA	17.6
4/3/26	24.8	40.7	13.9	5.90	NA	78.1
4/4/26	25.2	40.8	13.9	5.99	NA	54.8
4/5/26	25.3	40.7	13.9	5.90	NA	73.0
4/6/26	25.6	40.7	13.8	6.19	NA	61.4
4/7/26	25.7	40.8	13.9	6.12	NA	56.1
4/8/26	25.4	40.6	14.1	6.05	8.14	65.2
4/9/26	25.4	40.6	14.1	6.29	8.11	103
4/10/26	24.8	39.7	14.2	6.21	8.18	270
4/11/26	24.9	40.1	14.2	6.13	8.49	276
4/12/26	25.2	40.5	14.2	5.98	8.22	294
4/13/26	24.7	40.2	14.2	6.05	8.23	382

4/14/26	24.7	40.2	14.2	5.88	8.58	27.2
4/15/26	25.3	40.6	14.1	5.91	8.91	103
4/16/26	24.9	40.1	14.1	6.19	8.89	9.55
4/17/26	25.4	40.3	14.0	5.96	8.84	8.45
4/18/26	26.1	40.4	13.9	6.06	8.79	10.2
4/19/26	26.3	40.6	13.9	6.04	8.96	20.3
4/20/26	26.3	40.8	13.9	5.95	8.98	16.9
4/21/26	25.8	40.6	14.1	5.99	8.77	123
4/22/26	24.8	40.5	14.1	5.99	8.72	37.8
4/23/26	24.7	40.3	14.1	5.95	8.48	123
4/24/26	24.9	40.3	13.9	5.83	8.27	44.8
4/25/26	25.4	40.6	14.1	6.01	8.35	52.6
4/26/26	25.8	40.3	14.1	5.94	8.43	16.2
4/27/26	26.2	40.6	14.1	5.71	8.69	48.5
4/28/26	26.3	40.5	14.1	5.71	8.55	146
4/29/26	26.6	40.5	14.1	5.74	8.48	31.1
4/30/26	26.4	40.6	14.1	5.62	8.38	135
5/1/26	26.6	40.6	14.1	5.55	8.60	67.2
5/2/26	26.9	40.5	13.9	5.54	8.81	3.79
5/3/26	25.9	40.5	13.9	5.22	8.86	13.5
5/4/26	26.1	40.4	14.1	5.33	8.81	9.48
5/5/26	26.1	40.3	14.1	5.57	8.93	14.9
5/6/26	26.6	40.4	13.9	5.54	8.91	12.9

Table 43. Weekly averages data logged from site Fort Lauderdale (FL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.2	38.4	14.1	6.04	8.16	30.5
07/07/25-07/27/25	NA	NA	NA	NA	NA	NA
07/28/25-08/03/25	30.7	38.5	14.1	5.94	8.18	16.9
08/04/25-08/10/25	31.2	38.4	14.2	5.77	8.19	12.2
08/11/25-08/18/25	30.9	38.1	14.3	6.01	8.23	6.21
08/19/25-08/26/25	30.9	38.1	14.4	5.65	8.26	20.8
08/27/25-09/02/25	31.1	38.1	14.3	5.66	8.27	69.7

09/03/25-09/09/25	30.8	37.9	14.4	5.47	8.30	69.6
09/10/25-09/16/25	30.4	37.3	14.5	5.61	8.13	4.35
09/17/25-09/23/25	30.2	37.5	14.5	5.45	8.14	6.17
09/24/25-09/30/25	30.2	37.7	14.3	5.26	8.14	14.9
10/01/25 - 10/07/25	29.3	37.4	14.7	5.58	8.15	39.6
10/08/25 - 10/14/25	28.8	37.1	14.6	5.40	8.14	52.6
10/15/25 - 10/21/25	28.2	37.1	14.7	5.66	8.16	60.1
10/22/25 - 10/28/25	28.3	37.7	14.5	5.82	8.18	129
10/29/25 - 11/4/25	27.6	37.3	14.4	5.99	8.37	8.75
11/5/25 - 11/11/25	27.2	37.6	14.2	6.10	8.39	9.70
11/12/25 - 11/18/25	26.0	38.1	14.2	6.47	8.43	3.59
11/19/25 - 11/25/25	26.3	38.1	14.2	6.47	8.42	3.83
11/26/25 - 12/2/25	25.8	38.0	14.2	6.33	8.42	6.49
12/3/25 - 12/9/25	26.1	37.9	14.1	6.32	8.44	7.00
12/10/25 - 12/16/25	25.3	37.8	14.2	6.38	8.46	10.4
12/17/25 - 12/23/25	25.3	37.8	14.2	6.53	8.41	9.19
12/24/25-12/30/25	24.9	38.0	14.2	6.68	8.38	5.20
12/31/25-1/6/26	23.7	38.1	14.3	6.76	8.40	5.07
1/7/26-1/13/26	24.5	38.0	14.1	6.55	8.39	10.1
1/14/26-1/20/26	23.2	38.0	14.1	6.77	8.41	9.63
1/21/26-1/27/26	23.5	37.8	14.1	6.76	8.41	11.4
1/28/26-2/3/26	22.3	37.8	14.2	6.88	8.45	10.7
2/4/26-2/10/26	21.4	38.0	14.3	7.11	8.47	12.8
2/11/26-2/17/26	22.8	38.0	14.2	6.93	8.45	15.0
2/18/26-2/24/26	23.4	38.0	14.2	6.81	8.44	15.5
2/25/26-3/3/26	23.3	37.8	14.2	6.76	8.45	9.80
3/4/26-3/10/26	25.1	37.5	14.2	6.56	8.42	18.0
3/11/26-3/17/26	25.6	40.5	13.9	6.04	8.52	2.43
3/18/26-3/24/26	24.1	40.6	14.0	6.58	NA	2.53
3/25/26-3/31/26	25.4	40.8	14.0	6.22	NA	19.0
4/1/26-4/7/26	25.2	40.7	13.9	6.09	NA	52.1
4/8/26-4/14/26	25.1	40.3	14.2	6.08	8.28	203
4/15/26-4/21/26	25.7	40.5	13.9	6.01	8.88	41.7
4/22/26-4/28/26	25.5	40.4	14.1	5.88	8.49	67.1
4/29/26-5/5/26	26.4	40.5	14.1	5.51	8.71	37.7

Table 44. Monthly averages data logged from site Fort Lauderdale (FL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = not available.

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.9	38.4	14.1	5.97	8.17	30.9
Aug-25	31.0	38.2	14.3	5.81	8.23	18.8
Sep-25	30.4	37.6	14.4	5.45	8.18	30.1
Oct-25	28.6	37.3	14.6	5.64	8.18	64.5
Nov-25	26.5	37.9	14.2	6.31	8.41	5.87
Dec-25	25.4	37.9	14.2	6.48	8.42	8.02
Jan-26	23.7	38.0	14.2	6.72	8.41	9.11
Feb-26	22.5	38.0	14.2	6.94	8.45	13.6
Mar-26	24.9	39.7	14.1	6.38	8.43	10.4
Apr-26	25.2	40.7	13.9	6.09	NA	51.8
May-26	26.3	40.5	13.9	5.45	8.81	21.1

Table 45. Quarterly averages data logged from site Fort Lauderdale (FL) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25-09/11/25	30.8	38.2	14.3	5.76	8.24	31.5
09/12/25 - 12/19/25	27.7	37.6	14.4	5.94	8.29	25.4
12/20/25-04/07/26	24.0	38.6	14.1	6.63	8.43	13.1

Table 46. Daily averages data logged from site Hollywood (HW) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.4	38.3	11.2	5.92	8.35	NA
7/2/25	29.4	38.0	11.0	5.92	8.24	NA
7/3/25	29.4	38.5	11.1	5.82	8.17	NA
7/4/25	29.2	38.5	11.0	5.74	8.16	NA
7/5/25	29.1	38.4	11.0	5.90	8.16	NA
7/6/25	28.4	38.5	10.9	6.27	8.18	NA
7/7/25	27.1	38.5	11.0	6.65	8.18	NA
7/8/25	28.3	38.4	11.0	6.66	8.18	NA
7/9/25	29.0	38.4	11.0	6.44	8.17	NA
7/10/25	29.2	38.3	11.0	6.42	8.16	NA
7/11/25	29.7	38.3	11.0	6.20	8.15	NA
7/12/25	29.9	38.3	11.0	5.99	8.15	NA
7/13/25	29.9	38.3	11.0	6.05	8.15	NA
7/14/25	29.5	38.4	11.1	5.74	8.14	NA
7/15/25	29.5	38.2	11.1	5.92	8.15	NA
7/16/25	29.8	38.1	11.0	6.04	8.16	NA
7/17/25	30.1	37.7	11.1	5.82	8.13	NA
7/18/25	30.3	37.7	11.1	5.72	8.13	NA
7/19/25	30.5	37.7	11.1	5.75	8.12	NA
7/20/25	30.4	38.0	11.2	5.71	8.12	NA
7/21/25	30.2	37.9	11.2	5.74	8.14	NA
7/22/25	30.5	37.9	11.2	5.76	8.14	NA
7/23/25	30.6	37.8	11.2	5.72	8.13	NA
7/24/25	30.4	37.5	11.1	5.82	8.14	NA
7/25/25	30.5	37.4	11.1	6.07	8.16	NA
7/26/25	30.5	37.3	11.1	6.11	8.16	NA
7/27/25	30.4	37.2	11.1	6.05	8.15	NA
7/28/25	30.6	37.2	11.1	5.91	8.14	NA
7/29/25	30.7	37.6	11.1	5.89	8.14	NA
7/30/25	30.9	38.3	11.1	5.66	8.13	NA
7/31/25	30.9	38.4	11.1	5.75	8.15	NA
8/1/25	31.3	38.5	11.1	5.65	8.13	NA
8/2/25	31.4	38.5	11.1	5.70	8.14	NA
8/3/25	31.6	38.5	11.1	5.78	8.14	NA
8/4/25	31.3	38.5	11.1	5.75	8.15	NA
8/5/25	31.5	38.5	11.2	5.74	8.16	NA

8/6/25	31.6	38.4	11.2	5.75	8.16	NA
8/7/25	31.5	38.4	11.2	5.67	8.16	NA
8/8/25	31.3	38.4	11.3	5.60	8.16	1.05
8/9/25	31.1	38.4	11.3	5.44	8.15	1.03
8/10/25	30.6	38.2	11.4	5.50	8.15	0.981
8/11/25	30.6	38.2	11.3	5.54	8.16	0.989
8/12/25	30.7	38.2	11.3	5.93	8.18	1.02
8/13/25	31.0	38.1	11.3	6.25	8.19	1.15
8/14/25	30.9	38.1	11.2	5.66	8.19	1.16
8/15/25	31.3	38.2	11.2	5.85	8.20	1.49
8/16/25	31.5	38.1	11.3	5.88	8.19	4.20
8/17/25	31.4	38.1	11.2	5.71	8.19	5.94
8/18/25	31.5	38.0	11.3	5.71	8.19	9.27
8/19/25	31.5	38.0	11.3	5.69	8.20	5.74
8/20/25	31.3	38.0	11.4	5.47	8.19	8.66
8/21/25	31.0	38.0	11.3	5.60	8.22	8.20
8/22/25	31.1	38.0	11.4	5.57	8.21	8.33
8/23/25	30.8	37.9	11.4	5.17	8.19	15.7
8/24/25	30.6	37.8	11.4	5.15	8.18	26.1
8/25/25	30.8	37.9	11.4	5.92	8.22	34.4
8/26/25	30.8	37.9	11.4	5.61	8.20	43.6
8/27/25	31.2	37.9	11.3	5.39	8.20	61.1
8/28/25	31.3	37.8	11.4	5.74	8.21	63.9
8/29/25	31.2	37.9	11.3	5.66	8.21	72.8
8/30/25	31.3	37.8	11.2	5.55	8.20	88.4
8/31/25	31.2	37.8	11.3	5.61	8.22	91.6
9/1/25	31.0	37.7	11.3	5.32	8.21	94.4
9/2/25	31.0	37.6	11.3	5.50	8.22	87.6
9/3/25	31.1	37.2	11.5	5.45	8.23	88.1
9/4/25	31.0	37.2	11.5	5.44	8.22	91.0
9/5/25	30.9	37.0	11.5	5.17	8.22	84.6
9/6/25	30.6	37.0	11.4	5.36	8.23	87.7
9/7/25	30.5	37.0	11.4	5.02	8.20	82.3
9/8/25	30.4	36.9	11.3	4.99	8.20	77.5
9/9/25	30.2	37.8	11.3	5.01	8.18	2.91
9/10/25	30.1	37.7	11.3	5.11	8.19	2.24
9/11/25	30.3	37.6	11.4	5.43	8.21	1.70
9/12/25	30.2	37.4	11.5	5.25	8.18	1.61
9/13/25	30.5	37.5	11.5	5.47	8.22	1.77
9/14/25	30.6	37.5	11.4	5.62	8.23	1.92
9/15/25	30.8	37.5	11.4	5.53	8.22	2.72
9/16/25	30.7	37.8	11.4	5.63	8.24	3.73
9/17/25	30.4	38.1	11.4	5.51	8.24	3.15

9/18/25	30.0	37.8	11.4	5.27	8.21	4.21
9/19/25	30.0	37.6	11.4	5.69	8.23	4.09
9/20/25	30.2	37.3	11.4	5.78	8.24	5.05
9/21/25	30.0	37.2	11.4	5.31	8.22	4.71
9/22/25	30.1	37.9	11.3	5.04	8.23	2.68
9/23/25	30.2	38.4	11.3	5.04	8.23	2.97
9/24/25	30.3	38.2	11.3	4.45	8.20	9.70
9/25/25	30.3	38.1	11.3	4.07	8.18	4.43
9/26/25	30.2	37.8	11.2	5.49	8.25	6.82
9/27/25	30.3	38.3	11.2	5.43	8.26	14.1
9/28/25	30.5	38.4	11.2	4.99	8.24	3.03
9/29/25	30.2	37.5	11.2	5.39	8.25	6.72
9/30/25	30.0	37.7	11.3	5.39	8.26	4.42
10/1/25	30.0	37.9	11.5	5.37	8.26	3.09
10/2/25	29.9	38.0	11.6	5.42	8.26	3.60
10/3/25	29.4	37.7	11.6	5.44	8.24	7.09
10/4/25	29.2	37.7	11.7	5.16	8.23	7.17
10/5/25	29.1	37.8	11.7	5.43	8.25	9.73
10/6/25	29.3	38.1	11.6	5.11	8.24	20.3
10/7/25	29.2	37.6	11.5	5.35	8.24	41.8
10/8/25	28.9	37.2	11.5	5.31	8.23	52.7
10/9/25	28.9	37.4	11.4	4.99	8.22	32.2
10/10/25	29.0	37.5	11.4	4.71	8.21	36.4
10/11/25	29.1	38.0	11.5	4.88	8.24	37.7
10/12/25	29.0	37.7	11.5	5.32	8.25	23.4
10/13/25	28.8	37.4	11.5	5.50	8.25	17.4
10/14/25	28.6	37.3	11.6	5.60	8.26	16.3
10/15/25	28.3	37.2	11.6	5.66	8.27	13.6
10/16/25	28.4	37.3	11.6	5.46	8.25	15.4
10/17/25	28.1	37.1	11.6	5.51	8.24	23.3
10/18/25	27.6	37.2	11.6	5.47	8.24	19.6
10/19/25	27.4	37.2	11.5	5.65	8.24	14.7
10/20/25	28.5	38.2	11.4	5.29	8.26	15.0
10/21/25	28.8	38.1	11.4	5.59	8.28	14.5
10/22/25	29.2	38.5	11.4	5.39	8.29	11.9
10/23/25	29.2	38.4	11.3	5.22	8.26	11.5
10/24/25	28.4	38.0	11.3	5.70	8.27	18.7
10/25/25	27.9	37.9	11.4	5.59	8.26	23.3
10/26/25	27.7	38.1	11.2	5.50	8.25	24.5
10/27/25	27.8	38.3	11.2	5.34	8.25	25.8
10/28/25	28.2	38.6	11.3	5.61	8.24	8.12
10/29/25	28.4	38.3	11.4	5.56	8.20	2.03
10/30/25	28.3	38.4	11.4	5.68	8.23	2.02

10/31/25	27.7	38.5	11.4	5.80	8.23	1.94
11/1/25	27.7	38.6	11.4	5.66	8.23	1.93
11/2/25-11/17/25	NA	NA	NA	NA	NA	NA
11/17/25	26.2	37.7	11.2	6.97	8.44	2.40
11/18/25	26.4	37.7	11.2	6.73	8.43	2.43
11/19/25	26.6	37.7	11.2	6.72	8.42	2.57
11/20/25	26.6	37.7	11.2	6.78	8.41	2.49
11/21/25	26.5	37.7	11.2	6.79	8.40	4.42
11/22/25	26.4	37.7	11.2	6.75	8.39	2.48
11/23/25	26.5	37.7	11.2	6.85	8.39	2.50
11/24/25	26.5	37.7	11.2	6.79	8.39	2.49
11/25/25	26.3	37.7	11.2	6.80	8.38	2.63
11/26/25	26.3	37.8	11.2	6.85	8.38	2.47
11/27/25	26.4	37.7	11.1	6.71	8.37	2.47
11/28/25	25.9	37.6	11.2	6.56	8.37	2.53
11/29/25	25.3	37.5	11.3	6.56	8.37	10.1
11/30/25	25.4	37.5	11.3	6.53	8.37	17.1
12/1/25	25.2	37.3	11.2	6.58	8.36	7.26
12/2/25	26.1	37.5	11.2	6.75	8.39	2.63
12/3/25	26.0	37.4	11.2	6.71	8.39	2.45
12/4/25	26.2	37.4	11.1	6.90	8.40	2.82
12/5/25	26.3	37.5	11.1	6.92	8.40	9.88
12/6/25	26.3	37.5	11.0	6.85	8.40	22.0
12/7/25	26.3	37.5	11.0	6.78	8.39	17.3
12/8/25	26.4	37.6	11.0	6.67	8.39	23.1
12/9/25	26.0	37.3	11.0	6.35	8.37	17.0
12/10/25	25.8	37.3	11.1	6.25	8.37	5.24
12/11/25	26.0	37.2	11.2	6.55	8.40	3.20
12/12/25	25.3	37.2	11.2	6.80	8.40	13.6
12/13/25	25.4	37.1	11.2	6.86	8.40	3.10
12/14/25	25.4	37.2	11.1	6.82	8.40	18.5
12/15/25	25.5	37.2	11.1	6.60	8.39	10.2
12/16/25	24.7	37.1	11.1	6.68	8.38	14.2
12/17/25	24.5	37.1	11.1	6.72	8.39	8.65
12/18/25	24.8	37.1	11.2	6.82	8.39	8.70
12/19/25	25.2	37.1	11.2	7.01	8.37	9.95
12/20/25	25.3	37.3	11.1	7.18	8.34	15.1
12/21/25	25.5	37.2	11.2	6.96	8.34	2.65
12/22/25	25.6	37.2	11.2	6.75	8.33	3.10
12/23/25	24.9	37.0	11.2	6.72	8.31	15.8
12/24/25	24.7	37.1	11.2	6.76	8.32	2.75
12/25/25	25.3	37.3	11.2	6.83	8.35	2.45

12/26/25	25.4	37.2	11.2	6.89	8.35	2.46
12/27/25	24.9	37.2	11.3	7.06	8.36	2.38
12/28/25	24.6	37.2	11.3	7.30	8.36	2.63
12/29/25	25.1	37.3	11.3	7.16	8.36	18.4
12/30/25	24.8	37.3	11.3	7.03	8.36	2.36
12/31/25	23.8	37.3	11.3	7.02	8.37	2.77
1/1/26	23.1	37.2	11.3	7.07	8.37	2.29
1/2/26	23.6	37.4	11.3	6.93	8.38	2.75
1/3/26	23.4	37.4	11.2	7.00	8.38	2.27
1/4/26	23.9	37.5	11.2	6.99	8.39	3.46
1/5/26	24.0	37.4	11.3	7.07	8.39	15.7
1/6/26	24.4	37.4	11.2	6.93	8.37	2.83
1/7/26	24.4	37.4	11.2	6.77	8.37	10.6
1/8/26	24.6	37.4	11.2	6.86	8.37	18.2
1/9/26	24.6	37.3	11.2	6.88	8.37	42.7
1/10/26	24.5	37.4	11.1	6.91	8.37	61.7
1/11/26	24.5	37.4	11.0	6.88	8.36	109
1/12/26	24.6	37.3	11.1	6.73	8.36	102
1/13/26	24.4	37.2	11.1	6.47	8.35	82.9
1/14/26	24.5	37.1	11.1	6.58	8.37	115
1/15/26	24.2	37.1	11.1	6.57	8.37	82.6
1/16/26	22.8	37.1	11.2	6.93	8.39	38.1
1/17/26	22.8	37.0	11.1	6.97	8.39	62.0
1/18/26	23.5	37.2	11.1	6.84	8.39	116
1/19/26	23.0	37.1	11.1	6.73	8.38	60.0
1/20/26	22.6	37.1	11.2	7.04	8.40	37.1
1/21/26	22.2	37.1	11.2	6.90	8.39	43.4
1/22/26	22.8	37.1	11.2	6.84	8.39	78.4
1/23/26	23.8	37.2	11.2	6.77	8.40	9.61
1/24/26	24.6	37.2	11.1	7.09	8.42	11.3
1/25/26	24.8	37.0	11.1	6.98	8.42	26.0
1/26/26	24.7	37.1	11.1	6.73	8.40	11.3
1/27/26	23.7	37.2	11.1	6.75	8.40	8.87
1/28/26	22.9	37.1	11.2	6.79	8.40	66.0
1/29/26	22.7	37.0	11.2	6.95	8.42	51.4
1/30/26	22.5	37.0	11.2	7.14	8.43	32.6
1/31/26	23.0	37.1	11.1	6.82	8.43	6.96
2/1/26	21.7	37.0	11.2	7.01	8.43	6.05
2/2/26	21.1	37.0	11.2	7.11	8.44	9.35
2/3/26	21.3	37.0	11.3	7.08	8.44	6.35
2/4/26	21.6	37.1	11.3	7.15	8.45	2.36
2/5/26	22.2	37.2	11.2	6.99	8.44	2.58
2/6/26	21.1	37.2	11.2	7.09	8.44	2.85

2/7/26	20.7	37.2	11.2	7.23	8.45	3.15
2/8/26	21.3	37.2	11.3	7.09	8.44	7.94
2/9/26	21.8	37.1	11.3	7.03	8.43	24.7
2/10/26	22.2	37.2	11.3	6.86	8.43	10.7
2/11/26	22.4	37.2	11.3	6.99	8.43	3.22
2/12/26	22.6	37.2	11.3	7.06	8.44	4.92
2/13/26	22.9	37.3	11.3	7.01	8.44	3.15
2/14/26	23.1	37.2	11.2	6.93	8.43	6.47
2/15/26	23.1	37.3	11.2	6.96	8.44	14.6
2/16/26	23.1	37.3	11.2	6.92	8.43	4.88
2/17/26	23.1	37.2	11.2	6.78	8.43	6.55
2/18/26	23.3	37.2	11.2	6.90	8.43	55.2
2/19/26	23.6	37.3	11.2	6.94	8.43	18.0
2/20/26	23.7	37.3	11.2	6.85	8.42	212
2/21/26	23.9	37.3	11.2	6.96	8.42	212
2/22/26	24.4	37.3	11.2	6.65	8.43	380
2/23/26	23.5	37.2	11.2	6.72	8.42	440
2/24/26	22.4	37.1	11.2	6.80	8.43	313
2/25/26	22.2	37.1	11.2	6.85	8.44	502
2/26/26	22.9	37.2	11.3	6.74	8.45	387
2/27/26	22.8	37.2	11.3	7.01	8.45	214
2/28/26	23.5	37.2	11.3	6.94	8.45	93.9
3/1/26	23.9	37.2	11.2	6.82	8.44	144
3/2/26	24.0	36.9	11.2	6.73	8.43	229
3/3/26	24.2	37.0	11.3	6.58	8.42	86.4
3/4/26	24.4	37.0	11.2	6.60	8.42	153
3/5/26	24.6	37.0	11.2	6.59	8.41	119
3/6/26	24.8	37.0	11.2	6.72	8.42	90.8
3/7/26	25.0	37.0	11.1	6.68	8.42	75.7
3/8/26	25.3	36.9	11.2	6.58	8.42	72.7
3/9/26	25.6	37.0	11.2	6.53	8.42	72.3
3/10/26	26.0	36.9	11.2	6.60	8.42	129
3/11/26	26.2	37.1	11.2	6.50	8.41	157
3/12/26	26.2	37.3	11.1	6.35	8.39	98.1
3/13/26	25.9	37.3	11.2	6.14	8.40	111
3/14/26	25.8	37.2	11.1	6.08	8.38	92.6
3/15/26	25.7	NA	11.1	NA	NA	NA
3/16/26	25.4	NA	11.1	NA	NA	NA
3/17/26	24.2	NA	11.1	8.05	NA	NA
3/18/26	23.7	NA	11.2	7.97	NA	NA
3/19/26	23.6	36.9	11.3	7.13	NA	137
3/20/26	23.9	36.7	11.3	6.96	NA	177
3/21/26	23.8	36.5	11.4	7.08	NA	130

3/22/26	24.5	36.5	11.3	6.90	NA	137
3/23/26	25.3	36.3	11.3	6.78	NA	158
3/24/26	25.5	36.0	11.2	6.85	NA	121
3/25/26	25.6	36.1	11.3	6.70	NA	222
3/26/26	25.7	35.7	11.3	6.68	NA	332
3/27/26	25.8	34.8	11.2	6.81	NA	133
3/28/26	25.8	34.6	11.3	6.73	NA	167
3/29/26	25.6	NA	11.4	NA	NA	NA
3/30/26	25.1	35.8	11.7	6.26	NA	290
3/31/26	24.8	NA	12.0	NA	NA	NA
4/1/26	24.9	34.4	12.0	6.77	NA	339
4/2/26	24.9	34.2	11.9	6.79	NA	358
4/3/26	25.1	NA	11.8	NA	NA	NA
4/4/26	24.9	NA	11.8	NA	NA	NA
4/5/26	25.1	NA	11.7	NA	NA	NA
4/6/26	25.3	NA	11.7	NA	NA	NA
4/7/26	25.5	NA	11.6	NA	NA	NA
4/8/26	25.6	37.8	11.2	6.31	8.41	3.88
4/9/26	25.3	37.6	11.4	6.46	8.41	29.5
4/10/26	25.1	37.7	11.5	6.45	8.42	9.96
4/11/26	24.9	37.2	11.5	6.65	8.44	0.627
4/12/26	24.9	37.3	11.5	6.66	8.44	0.307
4/13/26	24.8	37.7	11.5	6.47	8.45	4.49
4/14/26	24.9	37.7	11.5	6.64	8.45	0.574
4/15/26	25.5	38.1	11.4	6.46	8.46	0.00
4/16/26	25.2	37.8	11.4	6.67	8.45	0.0121
4/17/26	25.6	37.7	11.2	6.77	8.45	0.00
4/18/26	26.1	37.7	11.2	6.85	8.45	0.00
4/19/26	26.3	38.1	11.2	6.76	8.46	0.00
4/20/26	26.6	38.1	11.2	6.55	8.45	0.0212
4/21/26	26.2	38.1	11.3	6.37	8.44	3.06
4/22/26	25.4	38.1	11.3	6.51	8.44	2.41
4/23/26	25.1	38.2	11.3	6.47	8.45	0.243
4/24/26	24.8	38.3	11.3	6.64	8.46	0.0272
4/25/26	24.9	38.2	11.3	6.92	8.46	0.00
4/26/26	25.8	38.4	11.3	6.77	8.47	0.0149
4/27/26	26.2	38.3	11.3	6.77	8.46	0.0162
4/28/26	26.4	38.3	11.3	6.63	8.46	0.143
4/29/26	26.7	38.4	11.3	6.59	8.47	0.0571
4/30/26	26.9	38.4	11.3	6.32	8.47	0.0650
5/1/26	27.1	38.5	11.3	6.53	8.48	0.0233
5/2/26	26.9	38.5	11.2	6.31	8.47	0.0550
5/3/26	26.1	38.4	11.2	6.24	8.47	0.266

5/4/26	26.2	38.3	11.3	6.32	8.46	0.499
5/5/26	26.1	38.3	11.3	6.44	8.48	0.272
5/6/26	26.5	38.2	11.3	6.43	8.47	0.286

Table 47. Weekly averages data logged from site Hollywood (HW) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.2	38.4	11.1	5.92	8.23	NA
07/07/25-07/13/25	29.0	38.4	11.0	6.34	8.16	NA
07/14/25-07/20/25	30.0	38.0	11.1	5.82	8.14	NA
07/21/25-07/27/25	30.4	37.6	11.1	5.90	8.14	NA
07/28/25-08/03/25	31.1	38.2	11.1	5.76	8.14	NA
08/04/25-08/10/25	31.4	38.4	11.2	5.65	8.16	NA
08/11/25-08/18/25	31.1	38.1	11.2	5.76	8.18	3.07
08/19/25-08/26/25	31.0	37.9	11.4	5.43	8.20	18.5
08/27/25-09/02/25	31.2	37.8	11.3	5.50	8.21	80.1
09/03/25-09/09/25	30.7	37.1	11.4	5.16	8.21	84.5
09/10/25-09/16/25	30.4	37.6	11.4	5.44	8.21	2.24
09/17/25-09/23/25	30.1	37.7	11.4	5.38	8.23	3.84
09/24/25-09/30/25	30.3	38.0	11.2	5.03	8.24	7.03
10/01/25 - 10/07/25	29.4	37.8	11.6	5.33	8.25	13.3
10/08/25 - 10/14/25	28.9	37.5	11.5	5.19	8.24	30.9
10/15/25 - 10/21/25	28.2	37.5	11.5	5.52	8.25	16.6
10/22/25 - 10/28/25	28.3	38.3	11.3	5.48	8.26	17.7
10/29/25 - 11/4/25	28.0	38.5	11.4	5.68	8.22	1.98
11/5/25 - 11/11/25	NA	NA	NA	NA	NA	NA
11/12/25 - 11/18/25	26.3	37.7	11.2	6.85	8.43	2.41
11/19/25 - 11/25/25	26.5	37.7	11.2	6.78	8.40	2.80
11/26/25 - 12/2/25	25.8	37.6	11.2	6.65	8.38	6.37
12/3/25 - 12/9/25	26.2	37.5	11.0	6.74	8.39	13.5
12/10/25 - 12/16/25	25.4	37.2	11.2	6.65	8.39	9.71
12/17/25 - 12/23/25	25.1	37.1	11.2	6.88	8.35	9.13
12/24/25-12/30/25	25.0	37.2	11.3	7.01	8.35	4.77
12/31/25-1/6/26	23.7	37.4	11.3	7.00	8.38	4.58

1/7/26-1/13/26	24.5	37.3	11.1	6.79	8.36	60.9
1/14/26-1/20/26	23.4	37.1	11.1	6.81	8.38	72.9
1/21/26-1/27/26	23.8	37.1	11.1	6.86	8.40	27.0
1/28/26-2/3/26	22.2	37.0	11.2	6.99	8.43	25.5
2/4/26-2/10/26	21.6	37.2	11.3	7.06	8.44	7.76
2/11/26-2/17/26	22.9	37.3	11.2	6.95	8.43	6.25
2/18/26-2/24/26	23.5	37.2	11.2	6.83	8.43	233
2/25/26-3/3/26	23.4	37.1	11.3	6.81	8.44	237
3/4/26-3/10/26	25.1	37.0	11.2	6.62	8.42	102
3/11/26-3/17/26	25.6	37.2	11.1	6.62	8.40	115
3/18/26-3/24/26	24.3	36.5	11.3	7.10	NA	143
3/25/26-3/31/26	25.5	35.4	11.4	6.64	NA	229
4/1/26-4/7/26	25.1	34.3	11.8	6.78	NA	348
4/8/26-4/14/26	25.1	37.6	11.4	6.52	8.43	7.05
4/15/26-4/21/26	25.9	37.9	11.3	6.63	8.45	0.442
4/22/26-4/28/26	25.5	38.3	11.3	6.67	8.46	0.408
4/29/26-5/5/26	26.6	38.4	11.3	6.39	8.47	0.182

Table 48. Monthly averages data logged from site Hollywood (HW) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.8	38.0	11.1	5.97	8.16	NA
Aug-25	31.1	38.1	11.3	5.60	8.18	23.6
Sep-25	30.4	37.6	11.4	5.26	8.22	27.4
Oct-25	28.7	37.8	11.5	5.41	8.25	17.9
Nov-25	26.3	37.7	11.2	6.70	8.39	4.21
Dec-25	25.4	37.3	11.2	6.81	8.37	8.78
Jan-26	23.7	37.2	11.2	6.87	8.39	42.3
Feb-26	22.6	37.2	11.2	6.95	8.44	105
Mar-26	25.0	36.7	11.3	6.67	8.42	140
Apr-26	25.6	37.9	11.3	6.59	8.45	2.41
May-26	26.5	38.4	11.3	6.38	8.47	0.226

Table 49. Quarterly averages data logged from site Hollywood (HW) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25- 09/11/25	30.8	38.2	14.3	5.76	8.24	31.5
09/12/25 - 12/19/25	27.7	37.6	14.4	5.94	8.29	25.4
12/20/25- 04/07/26	24.0	37.0	11.3	6.87	8.40	88.4

Table 50. Daily averages data logged from site Haulover (HL) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.6	38.2	8.94	6.44	8.28	60.6
7/2/25	29.3	38.3	8.96	6.44	8.25	30.3
7/3/25	29.3	38.4	8.95	6.18	8.23	6.13
7/4/25	29.2	38.3	8.90	6.14	8.24	3.39
7/5/25	28.9	38.4	8.86	6.49	8.26	2.95
7/6/25	28.1	38.5	8.81	6.83	8.28	3.04
7/7/25	27.1	38.5	8.84	7.48	8.30	3.13
7/8/25	28.2	38.4	8.89	7.46	8.29	6.75
7/9/25	28.5	38.3	8.87	7.23	8.28	16.4
7/10/25	29.6	38.3	8.88	6.55	8.25	34.9
7/11/25	29.9	38.5	8.85	6.86	8.28	42.1
7/12/25	29.8	38.5	8.87	6.72	8.28	46.3
7/13/25	29.9	38.4	8.90	6.59	8.27	126
7/14/25	29.7	38.4	8.96	6.37	8.28	112
7/15/25	29.6	38.3	8.95	6.34	8.28	79.1
7/16/25	30.0	38.1	8.92	6.42	8.27	108
7/17/25	30.5	38.0	8.95	6.19	8.26	112
7/18/25	30.7	38.2	8.99	6.14	8.26	117
7/19/25	30.5	38.4	9.01	6.56	8.28	132
7/20/25	30.6	38.2	9.05	6.54	8.28	99.5
7/21/25	30.4	38.4	9.03	6.55	8.29	55.0
7/22/25	30.5	38.4	9.02	6.48	8.29	39.0
7/23/25	30.2	38.4	9.04	6.47	8.30	22.2
7/24/25	30.4	38.3	9.01	6.44	8.29	27.8
7/25/25	30.2	38.3	8.97	6.36	8.29	29.9
7/26/25	30.3	38.2	8.98	6.35	8.29	28.3
7/27/25	30.4	38.2	8.97	6.38	8.29	34.3
7/28/25	30.4	38.2	9.00	6.29	8.29	25.8
7/29/25	30.7	38.3	8.97	6.17	8.28	29.9
7/30/25	30.8	38.2	8.99	6.29	8.29	31.2
7/31/25	30.7	38.3	9.01	6.15	8.30	25.4
8/1/25	31.1	38.3	8.97	6.13	8.29	31.6
8/2/25	31.2	38.2	8.93	6.20	8.30	42.8
8/3/25	31.4	38.3	8.96	6.27	8.30	52.4
8/4/25	31.4	38.3	9.00	6.43	8.31	68.5
8/5/25	31.5	38.2	9.04	6.30	8.31	68.5

8/6/25	31.5	38.2	9.06	6.29	8.31	79.1
8/7/25	31.5	38.1	9.06	6.04	8.30	67.5
8/8/25	31.2	38.1	9.19	6.12	8.31	33.2
8/9/25	30.7	37.9	9.21	5.83	8.31	4.35
8/10/25	30.4	38.0	9.26	6.03	8.33	4.01
8/11/25	30.5	37.7	9.22	6.12	8.32	4.61
8/12/25	30.6	37.7	9.17	6.26	8.32	5.40
8/13/25	30.5	38.0	9.15	6.11	8.33	5.45
8/14/25	30.8	37.9	9.16	6.34	8.34	4.91
8/15/25	31.0	37.8	9.16	6.34	8.34	5.12
8/16/25	31.1	37.8	9.09	6.36	8.34	5.68
8/17/25	31.4	37.7	9.11	6.35	8.33	6.09
8/18/25	31.5	37.7	9.19	6.21	8.33	7.52
8/19/25	31.6	37.8	9.20	6.11	8.33	8.78
8/20/25	31.1	37.7	9.26	6.17	8.36	10.8
8/21/25	31.1	37.7	9.25	5.95	8.35	22.8
8/22/25	31.1	37.7	9.32	5.84	8.34	16.6
8/23/25	30.9	37.8	9.30	5.81	8.35	10.6
8/24/25	30.8	37.9	9.31	5.94	8.35	8.22
8/25/25	30.9	38.0	9.27	6.05	8.36	8.76
8/26/25	31.0	38.0	9.27	6.02	8.35	9.84
8/27/25	31.3	38.0	9.26	6.06	8.35	10.1
8/28/25	31.1	37.9	9.26	6.25	8.36	13.3
8/29/25	31.2	37.9	9.18	5.98	8.35	16.7
8/30/25	31.2	37.7	9.16	6.12	8.36	21.9
8/31/25	31.0	37.7	9.17	6.22	8.36	19.2
9/1/25	31.0	37.7	9.15	5.99	8.35	16.9
9/2/25	31.0	37.8	9.18	5.85	8.35	22.8
9/3/25	30.9	37.8	9.34	5.91	8.36	23.5
9/4/25	31.0	37.7	9.36	6.08	8.38	15.1
9/5/25	30.9	37.6	9.39	5.91	8.37	13.9
9/6/25	30.7	37.7	9.32	5.19	8.34	18.8
9/7/25	30.6	37.8	9.28	5.74	8.37	16.0
9/8/25	30.5	37.8	9.24	5.53	8.36	10.0
9/9/25	30.3	37.5	9.21	5.49	8.28	7.74
9/10/25	30.2	37.4	9.15	5.30	8.25	1.79
9/11/25	30.1	37.4	9.27	5.64	8.28	1.73
9/12/25	30.4	37.6	9.34	6.32	8.33	1.74
9/13/25	30.2	37.5	9.38	6.15	8.32	1.84
9/14/25	30.6	37.4	9.32	6.29	8.33	2.08
9/15/25	30.6	37.2	9.34	6.58	8.34	2.35
9/16/25	30.6	37.3	9.35	6.45	8.33	2.50
9/17/25	30.3	37.1	9.29	6.17	8.32	2.86

9/18/25	30.2	37.1	9.30	6.16	8.33	4.85
9/19/25	30.0	37.1	9.30	6.52	8.35	5.23
9/20/25	29.9	37.0	9.33	6.37	8.32	7.61
9/21/25	29.9	37.0	9.30	6.13	8.33	11.1
9/22/25	30.0	37.2	9.24	6.08	8.34	5.95
9/23/25	30.2	37.4	9.20	5.76	8.33	5.99
9/24/25	30.2	37.2	9.24	6.14	8.35	9.76
9/25/25	30.1	37.2	9.16	5.86	8.34	8.37
9/26/25	30.4	37.2	9.11	5.99	8.34	9.08
9/27/25	30.3	37.9	9.09	6.23	8.36	11.2
9/28/25	30.5	37.4	9.08	5.81	8.33	25.0
9/29/25	30.0	36.8	9.06	6.04	8.34	29.8
9/30/25	30.0	37.4	9.24	6.35	8.37	11.4
10/1/25	29.9	37.7	9.42	6.47	8.38	8.70
10/2/25	29.8	37.7	9.52	6.29	8.37	10.7
10/3/25	29.4	37.6	9.57	6.19	8.36	31.6
10/4/25	29.1	37.3	9.66	6.09	8.34	24.7
10/5/25	29.1	36.9	9.57	5.99	8.33	25.5
10/6/25	29.3	37.3	9.50	5.70	8.33	28.9
10/7/25	29.3	37.3	9.46	6.18	8.35	31.8
10/8/25	29.1	37.0	9.40	5.62	8.32	46.0
10/9/25	29.2	37.3	9.36	5.23	8.31	21.5
10/10/25	29.1	37.0	9.31	5.17	8.30	17.1
10/11/25	29.2	37.5	9.37	5.65	8.34	13.2
10/12/25	29.0	37.3	9.42	5.73	8.33	12.9
10/13/25	28.8	37.1	9.47	6.17	8.35	14.9
10/14/25	28.5	37.0	9.50	6.18	8.35	22.0
10/15/25	28.3	37.0	9.52	6.42	8.36	27.0
10/16/25	28.2	37.1	9.58	6.36	8.37	34.7
10/17/25	27.9	36.8	9.53	6.09	8.34	39.1
10/18/25	27.4	36.8	9.53	5.96	8.34	21.0
10/19/25	27.3	36.7	9.43	6.00	8.33	22.8
10/20/25	28.2	37.3	9.38	6.18	8.37	20.9
10/21/25	28.8	37.5	9.34	6.34	8.38	22.8
10/22/25	29.2	37.8	9.31	6.31	8.39	14.0
10/23/25	28.8	37.6	9.30	6.35	8.38	18.0
10/24/25	28.3	37.4	9.31	6.35	8.37	38.4
10/25/25	27.8	37.4	9.32	6.15	8.35	57.3
10/26/25	27.6	37.4	9.29	5.99	8.33	69.1
10/27/25	27.9	37.4	9.27	5.98	8.35	51.2
10/28/25	28.3	37.9	9.33	6.25	8.26	14.3
10/29/25	28.3	37.9	9.36	6.38	8.17	1.89
10/30/25	27.9	37.6	9.40	6.57	8.17	1.82

10/31/25	27.4	37.5	9.35	6.61	8.18	2.04
11/1/25	27.0	37.6	9.35	6.77	8.19	1.90
11/2/25	27.6	37.9	9.34	6.54	8.19	1.46
11/3/25	27.4	37.7	9.26	6.55	8.19	1.67
11/4/25	27.1	38.0	9.26	6.52	8.20	1.94
11/5/25	26.8	38.2	9.29	6.47	8.20	2.01
11/6/25	26.9	38.1	9.21	6.57	8.21	1.46
11/7/25	26.8	38.0	9.14	6.63	8.21	1.46
11/8/25	27.2	38.0	9.13	6.49	8.19	1.48
11/9/25	27.6	37.9	9.08	6.52	8.19	1.64
11/10/25	27.7	38.2	9.04	6.44	8.20	1.67
11/11/25	26.3	38.2	9.07	6.59	8.21	3.94
11/12/25	26.0	38.3	9.17	6.62	8.23	2.55
11/13/25	25.8	38.3	9.18	6.78	8.24	1.76
11/14/25	25.7	38.4	9.17	6.91	8.25	1.87
11/15/25	25.8	38.5	9.12	6.86	8.25	4.31
11/16/25	26.0	38.4	9.12	6.91	8.25	1.98
11/17/25	26.2	38.5	9.19	6.54	8.23	1.92
11/18/25	26.5	38.6	9.18	6.62	8.24	1.61
11/19/25	26.4	38.7	9.16	6.60	8.24	1.57
11/20/25	26.4	38.7	9.13	6.82	8.24	1.62
11/21/25	26.2	38.6	9.17	6.87	8.24	1.74
11/22/25	26.3	38.6	9.12	6.73	8.24	1.87
11/23/25	26.4	38.6	9.16	6.76	8.24	1.93
11/24/25	26.4	38.7	9.16	6.64	8.24	2.31
11/25/25	26.3	38.7	9.16	6.61	8.24	1.92
11/26/25	26.4	38.7	9.11	6.66	8.24	2.20
11/27/25	26.4	38.5	9.08	6.48	8.23	1.89
11/28/25	25.8	38.6	9.15	6.58	8.24	2.49
11/29/25	24.8	38.7	9.22	6.58	8.23	12.6
11/30/25	25.7	38.7	9.18	6.58	8.26	15.5
12/1/25	25.6	38.6	9.21	6.77	8.26	3.78
12/2/25	25.9	38.5	9.12	6.75	8.25	2.70
12/3/25	25.9	38.6	9.11	6.68	8.25	2.27
12/4/25	25.9	38.5	9.04	6.86	8.25	2.84
12/5/25	25.8	38.4	8.99	6.87	8.24	3.33
12/6/25	26.0	38.4	8.95	6.84	8.25	3.47
12/7/25	26.3	38.4	8.94	6.80	8.25	3.92
12/8/25	26.4	38.5	8.90	6.63	8.25	2.66
12/9/25	26.0	38.5	8.99	6.39	8.24	5.44
12/10/25	25.7	38.4	9.11	6.47	8.24	3.98
12/11/25	25.8	38.3	9.14	6.66	8.26	2.88
12/12/25	25.8	38.4	9.12	6.95	8.28	2.60

12/13/25	25.7	38.4	9.15	6.83	8.28	3.10
12/14/25	25.3	38.2	9.09	6.79	8.27	3.96
12/15/25	25.3	38.3	9.13	6.63	8.27	10.1
12/16/25	24.8	38.4	9.12	6.68	8.27	10.2
12/17/25	24.7	38.4	9.09	6.79	8.28	8.48
12/18/25	24.6	38.3	9.14	6.90	8.27	8.30
12/19/25	25.4	37.9	9.11	7.09	8.32	4.68
12/20/25	25.6	38.1	9.01	7.24	8.38	2.07
12/21/25	25.5	38.2	9.05	7.06	8.38	2.00
12/22/25	25.4	38.3	9.06	6.95	8.39	3.75
12/23/25	24.8	38.3	9.08	6.81	8.38	17.1
12/24/25	24.7	38.4	9.07	6.79	8.38	4.28
12/25/25	24.7	38.2	9.10	7.07	8.40	2.26
12/26/25	24.8	38.3	9.10	7.11	8.41	3.10
12/27/25	24.9	38.3	9.13	7.14	8.41	2.22
12/28/25	25.2	38.4	9.14	7.01	8.42	2.07
12/29/25	25.4	38.4	9.13	6.96	8.42	2.05
12/30/25	25.3	38.5	9.15	7.00	8.44	2.05
12/31/25	24.2	38.6	9.18	7.07	8.46	2.32
1/1/26	23.2	38.5	9.21	7.07	8.45	2.10
1/2/26	23.4	38.6	9.14	7.13	8.47	2.23
1/3/26	23.7	38.3	9.11	7.00	8.46	2.72
1/4/26	23.8	38.6	9.09	6.98	8.46	2.80
1/5/26	23.9	38.7	9.12	7.03	8.47	2.52
1/6/26	24.1	38.6	9.07	6.97	8.45	2.66
1/7/26	24.2	38.6	9.03	7.04	8.46	2.37
1/8/26	24.5	38.6	9.01	7.10	8.47	2.33
1/9/26	24.5	38.5	9.00	7.00	8.45	2.87
1/10/26	24.5	38.6	8.93	6.89	8.45	3.19
1/11/26	24.5	38.6	8.88	6.87	8.44	2.60
1/12/26	24.4	38.3	8.97	6.78	8.44	4.38
1/13/26	24.1	38.3	8.94	6.57	8.42	5.35
1/14/26	24.1	38.1	8.99	6.37	8.42	3.03
1/15/26	23.9	38.2	8.93	6.68	8.45	2.52
1/16/26	23.0	38.3	9.04	7.06	8.48	2.87
1/17/26	22.7	38.4	9.00	7.23	8.48	3.45
1/18/26	23.3	38.4	9.00	6.98	8.48	2.75
1/19/26	22.9	38.4	9.00	7.14	8.50	2.75
1/20/26	22.5	38.5	9.07	7.26	8.51	4.06
1/21/26	22.3	38.5	9.13	7.03	8.50	11.2
1/22/26	23.0	38.3	9.04	7.29	8.51	5.89
1/23/26	24.0	38.3	9.04	7.44	8.53	3.33
1/24/26	24.6	38.2	9.02	7.27	8.52	3.08

1/25/26	24.6	38.0	8.97	7.04	8.50	4.68
1/26/26	24.4	38.2	8.94	6.82	8.51	4.25
1/27/26	23.5	38.3	9.02	6.92	8.51	6.48
1/28/26	22.7	38.4	9.05	7.08	8.52	5.89
1/29/26	22.7	38.4	9.09	7.21	8.53	4.82
1/30/26	22.4	38.3	9.08	7.39	8.54	5.62
1/31/26	22.9	38.3	9.03	7.09	8.54	5.68
2/1/26	21.7	38.5	9.05	7.19	8.56	12.9
2/2/26	21.1	38.5	9.06	7.35	8.56	14.0
2/3/26	20.5	38.4	9.18	7.45	8.56	11.7
2/4/26	20.8	38.4	9.17	7.56	8.57	13.7
2/5/26	21.9	38.4	9.07	7.27	8.55	15.5
2/6/26	21.8	38.5	9.09	7.12	8.56	19.3
2/7/26	20.9	38.6	9.09	7.41	8.57	18.1
2/8/26	21.2	38.6	9.16	7.45	8.57	21.2
2/9/26	21.9	38.7	9.14	7.37	8.57	18.5
2/10/26	22.1	38.7	9.15	7.31	8.56	17.7
2/11/26	22.2	38.7	9.12	7.35	8.56	22.0
2/12/26	22.4	38.6	9.16	7.32	8.56	21.7
2/13/26	22.6	38.6	9.15	7.35	8.56	21.8
2/14/26	23.0	38.7	9.09	7.35	8.56	21.5
2/15/26	22.9	38.6	9.04	7.31	8.55	23.0
2/16/26	23.1	38.6	9.04	7.25	8.55	20.7
2/17/26	23.1	38.6	9.09	7.19	8.55	19.2
2/18/26	23.1	38.6	9.07	7.26	8.56	28.2
2/19/26	23.5	38.5	9.04	7.32	8.55	17.1
2/20/26	23.8	38.5	9.09	7.44	8.56	17.4
2/21/26	24.2	38.4	9.08	7.15	8.56	16.9
2/22/26	24.5	38.4	9.01	6.98	8.56	20.7
2/23/26	23.6	38.5	9.10	7.08	8.58	47.7
2/24/26	22.3	38.6	9.08	7.14	8.58	68.4
2/25/26	22.1	38.6	9.09	7.27	8.59	45.9
2/26/26	22.5	38.5	9.14	7.23	8.59	61.2
2/27/26	22.9	38.5	9.11	7.23	8.58	67.9
2/28/26	23.6	38.5	9.11	7.55	8.60	45.9
3/1/26	23.9	38.4	9.08	7.14	8.58	46.8
3/2/26	24.0	38.4	9.09	7.04	8.58	55.3
3/3/26	24.1	38.4	9.11	7.04	8.58	58.8
3/4/26	24.3	38.3	9.04	7.01	8.58	66.3
3/5/26	24.8	38.3	9.07	6.92	8.56	94.0
3/6/26	25.1	38.3	9.04	6.94	8.56	120
3/7/26	25.3	38.3	9.02	6.88	8.56	75.7
3/8/26	25.5	38.2	9.10	6.85	8.56	95.2

3/9/26	25.8	38.2	9.09	6.84	8.57	81.4
3/10/26	26.1	38.2	9.11	6.80	8.57	46.8
3/11/26	26.4	38.1	9.09	6.95	8.60	30.8
3/12/26	26.5	38.2	9.03	6.72	8.62	13.6
3/13/26	25.8	38.2	9.06	6.61	8.64	8.79
3/14/26	26.0	38.0	9.03	6.69	8.64	7.95
3/15/26	26.2	37.9	9.06	6.58	8.62	8.50
3/16/26	25.6	37.9	8.99	6.32	8.62	7.53
3/17/26	24.5	38.1	8.99	6.41	8.65	5.68
3/18/26	24.1	38.0	9.10	6.62	8.65	8.28
3/19/26	23.7	38.0	9.15	6.84	8.64	8.52
3/20/26	23.9	38.0	9.16	7.01	8.68	7.73
3/21/26	23.7	38.0	9.22	7.47	8.71	8.31
3/22/26	24.2	38.0	9.19	7.45	8.70	7.76
3/23/26	25.1	38.0	9.17	7.32	8.70	7.21
3/24/26	25.6	38.0	9.16	7.09	8.69	3.89
3/25/26	25.6	38.0	9.20	7.31	8.70	4.39
3/26/26	25.7	37.9	9.18	7.09	8.68	4.45
3/27/26	25.9	38.0	9.13	7.00	8.68	4.31
3/28/26	26.1	38.0	9.22	6.94	8.68	4.34
3/29/26	26.1	38.0	9.31	6.81	8.67	9.49
3/30/26	25.5	37.9	9.28	6.58	8.64	51.1
3/31/26	25.2	37.8	9.22	6.71	8.63	12.9
4/1/26	25.3	37.9	9.20	6.77	8.65	8.39
4/2/26	25.2	38.0	9.16	6.81	8.65	11.3
4/3/26	25.2	37.8	9.06	6.79	8.63	11.5
4/4/26	25.3	37.9	9.06	6.83	8.64	11.6
4/5/26	25.6	37.9	9.06	6.84	8.64	12.4
4/6/26	25.9	37.8	8.99	6.85	8.65	9.29
4/7/26	25.9	37.7	9.07	6.76	8.67	8.96
4/8/26	25.9	37.7	9.18	6.45	8.65	22.1
4/9/26	25.8	37.7	9.35	6.74	8.69	18.9
4/10/26	25.7	38.1	9.39	6.77	8.73	11.7
4/11/26	25.2	37.4	9.43	6.84	8.68	9.08
4/12/26	25.1	37.4	9.43	7.11	8.72	7.82
4/13/26	24.7	37.2	9.42	7.19	8.72	9.89
4/14/26	24.9	37.5	9.38	7.28	8.74	7.92
4/15/26	24.8	37.4	9.35	7.34	8.74	6.18
4/16/26	24.9	37.3	9.28	7.23	8.72	5.01
4/17/26	25.4	37.3	9.17	7.34	8.73	3.81
4/18/26	26.2	37.5	9.15	7.17	8.73	4.37
4/19/26	26.6	37.7	9.06	7.09	8.73	3.41
4/20/26	26.8	37.7	9.14	6.95	8.73	3.58

4/21/26	26.3	37.8	9.18	6.71	8.73	6.15
4/22/26	25.8	37.7	9.23	6.73	8.71	6.31
4/23/26	25.3	37.5	9.24	6.84	8.72	6.59
4/24/26	25.3	37.5	9.23	6.84	8.73	6.66
4/25/26	25.8	37.4	9.23	7.03	8.73	7.46
4/26/26	26.5	37.5	9.21	7.16	8.74	8.44
4/27/26	26.6	37.6	9.25	7.11	8.75	10.1
4/28/26	26.8	37.6	9.23	7.19	8.75	12.6
4/29/26	26.9	37.8	9.21	7.33	8.76	18.3
4/30/26	27.1	37.7	9.23	7.13	8.77	24.9
5/1/26	27.1	37.7	9.21	7.09	8.77	28.9
5/2/26	27.4	37.7	9.17	6.54	8.74	NA
5/3/26	26.5	37.8	9.14	6.55	8.76	NA
5/4/26	26.5	37.6	9.44	6.67	8.76	NA
5/5/26	26.7	37.5	9.76	6.85	8.76	NA
5/6/26	26.9	37.5	9.77	6.58	8.75	NA

Table 51. Weekly averages data logged from site Haulover (HL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.1	38.3	8.91	6.45	8.26	23.6
07/07/25-07/13/25	29.0	38.4	8.87	6.98	8.28	39.3
07/14/25-07/20/25	30.2	38.2	8.98	6.37	8.27	108
07/21/25-07/27/25	30.4	38.3	9.00	6.43	8.29	33.8
07/28/25-08/03/25	30.9	38.3	8.97	6.21	8.29	34.1
08/04/25-08/10/25	31.4	38.2	9.07	6.15	8.31	70.1
08/11/25-08/18/25	30.9	37.8	9.15	6.26	8.33	5.60

08/19/25- 08/26/25	31.1	37.8	9.27	5.99	8.35	12.0
08/27/25- 09/02/25	31.1	37.8	9.19	6.07	8.36	17.3
09/03/25- 09/09/25	30.7	37.7	9.31	5.70	8.36	16.1
09/10/25- 09/16/25	30.4	37.4	9.31	6.10	8.31	2.00
09/17/25- 09/23/25	30.1	37.1	9.28	6.17	8.33	6.23
09/24/25- 09/30/25	30.2	37.3	9.14	6.06	8.35	14.9
10/01/25 - 10/07/25	29.4	37.4	9.53	6.13	8.35	23.1
10/08/25 - 10/14/25	29.0	37.2	9.40	5.68	8.33	21.1
10/15/25 - 10/21/25	28.0	37.0	9.47	6.19	8.35	26.9
10/22/25 - 10/28/25	28.3	37.6	9.30	6.20	8.35	37.5
10/29/25 - 11/4/25	27.5	37.7	9.33	6.56	8.18	1.81
11/5/25 - 11/11/25	27.1	38.1	9.14	6.53	8.20	1.95
11/12/25 - 11/18/25	26.0	38.4	9.16	6.75	8.24	2.29
11/19/25 - 11/25/25	26.3	38.6	9.15	6.72	8.24	1.85
11/26/25- 12/02/25	25.8	38.6	9.15	6.63	8.24	5.88
12/03/25- 12/09/25	26.1	38.5	8.99	6.73	8.25	3.42
12/10/25- 12/16/25	25.5	38.3	9.12	6.72	8.27	5.26
12/17/25- 12/23/25	25.1	38.2	9.08	6.98	8.34	6.63
12/24/25- 12/30/25	25.0	38.4	9.12	7.01	8.41	2.58
12/31/25- 1/6/26	23.8	38.5	9.13	7.04	8.46	2.48
1/7/26- 1/13/26	24.4	38.5	8.97	6.89	8.45	3.30

1/14/26- 1/20/26	23.2	38.3	9.00	6.96	8.48	3.06
1/21/26- 1/27/26	23.8	38.3	9.02	7.12	8.51	5.56
1/28/26- 2/3/26	22.0	38.4	9.08	7.25	8.55	8.65
2/4/26- 2/10/26	21.5	38.6	9.13	7.35	8.56	17.7
2/11/26- 2/17/26	22.8	38.6	9.10	7.30	8.56	21.4
2/18/26- 2/24/26	23.6	38.5	9.07	7.20	8.57	30.9
2/25/26- 3/3/26	23.3	38.5	9.11	7.21	8.59	54.5
3/4/26- 3/10/26	25.3	38.3	9.07	6.89	8.57	82.8
3/11/26- 3/17/26	25.8	38.1	9.04	6.61	8.63	11.8
3/18/26- 3/24/26	24.3	38.0	9.16	7.11	8.68	7.38
3/25/26- 3/31/26	25.7	37.9	9.22	6.92	8.67	13.0
4/1/26- 4/7/26	25.5	37.9	9.09	6.81	8.65	10.5
4/8/26- 4/14/26	25.3	37.5	9.37	6.91	8.71	12.5
4/15/26- 4/21/26	25.9	37.5	9.19	7.12	8.73	4.64
4/22/26- 4/28/26	26.1	37.6	9.23	6.98	8.73	8.31
4/29/26- 5/6/26	26.9	37.7	9.33	6.86	8.76	23.9

Table 52. Monthly averages data logged from site Haulover (HL) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.8	38.3	8.95	6.51	8.28	48.1
Aug-25	31.1	37.9	9.16	6.14	8.33	21.7
Sep-25	30.4	37.4	9.25	6.00	8.34	10.2
Oct-25	28.6	37.3	9.42	6.10	8.33	24.7
Nov-25	26.5	38.3	9.17	6.64	8.23	2.81
Dec-25	25.4	38.4	9.09	6.86	8.32	4.32
Jan-26	23.6	38.4	9.03	7.02	8.48	3.89
Feb-26	22.5	38.6	9.10	7.29	8.57	26.8
Mar-26	25.2	38.1	9.12	6.90	8.63	31.2
Apr-26	25.8	37.6	9.22	6.98	8.71	9.78
May-26	26.8	37.6	9.38	6.73	8.76	28.9

Table 53. Quarterly averages data logged from site Haulover (HL) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25-09/11/25	30.5	38.1	9.08	6.26	8.31	32.8
09/12/25-12/19/25	27.7	37.8	9.25	6.41	8.29	11.1
12/2025-04/07/26	24.0	38.3	9.08	7.04	8.55	17.9

Table 54. Daily averages data logged from site Miami Beach (MB) over the period 07/01/25 – 05/06/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.7	42.2	12.5	5.90	8.14	2.61
7/2/25	29.4	42.2	12.1	6.04	8.13	2.55
7/3/25	29.4	42.2	11.7	5.91	8.10	2.57
7/4/25	29.2	42.2	11.7	5.96	8.10	2.58
7/5/25	28.9	42.3	11.7	5.89	8.11	2.55
7/6/25	28.2	42.3	11.7	6.14	8.11	2.42
7/7/25	28.5	42.3	11.8	6.07	8.09	2.48
7/8/25	28.9	42.3	11.8	6.29	8.11	2.56
7/9/25	29.8	42.2	11.9	6.18	8.09	2.75
7/10/25	30.1	42.5	11.9	6.27	8.13	2.80
7/11/25	29.8	42.4	11.8	6.07	8.12	2.76
7/12/25	29.9	42.4	11.8	6.51	8.14	2.76
7/13/25	29.8	42.4	11.8	6.33	8.13	2.98
7/14/25	29.7	42.4	11.9	6.05	8.12	3.09
7/15/25	29.8	42.3	11.9	6.02	8.12	3.34
7/16/25	30.7	42.4	11.9	5.95	8.12	4.82
7/17/25	30.8	42.5	11.9	5.88	8.11	7.73
7/18/25	30.5	42.4	12.0	6.05	8.13	10.1
7/19/25	30.3	42.3	12.0	6.18	8.14	10.3

7/20/25	30.2	42.3	12.0	6.29	8.14	5.87
7/21/25	30.4	42.3	12.0	6.25	8.14	8.40
7/22/25	30.4	42.3	12.0	6.14	8.14	8.90
7/23/25	29.9	42.3	12.0	5.95	8.14	8.72
7/24/25	30.0	42.3	12.0	5.97	8.14	11.9
7/25/25	30.3	42.2	11.9	6.01	8.14	7.21
7/26/25	30.0	42.4	11.9	6.04	8.15	3.61
7/27/25	30.0	42.4	11.9	6.04	8.15	3.14
7/28/25	30.3	42.4	11.9	6.20	8.16	3.22
7/29/25	30.8	42.4	11.9	5.74	8.13	3.32
7/30/25	30.9	42.5	11.9	5.92	8.16	3.36
7/31/25	30.7	42.3	11.9	5.91	8.16	3.31
8/1/25	31.0	42.3	11.9	6.20	8.17	3.45
8/2/25	31.2	42.3	11.9	6.11	8.17	4.06
8/3/25	31.1	42.2	11.9	6.05	8.17	3.86
8/4/25	31.4	42.3	11.9	5.89	8.16	4.14
8/5/25	31.6	42.4	12.0	5.81	8.17	4.64
8/6/25	31.3	42.2	12.0	5.87	8.18	5.08
8/7/25	31.1	42.2	12.0	5.94	8.18	4.96
8/8/25	30.9	42.2	12.1	5.72	8.17	4.01
8/9/25	30.7	42.0	12.1	5.43	8.16	3.51
8/10/25	30.3	41.9	12.1	5.64	8.17	3.41
8/11/25	30.4	41.8	12.1	5.97	8.19	3.60
8/12/25	30.4	41.9	12.1	6.05	8.20	3.51
8/13/25	30.6	42.1	12.0	5.88	8.19	3.52
8/14/25	30.7	42.0	12.0	5.95	8.20	3.68
8/15/25	30.9	41.9	12.0	6.04	8.20	3.64
8/16/25	31.1	41.7	12.0	5.99	8.20	3.66
8/17/25	31.7	42.0	12.0	5.97	8.19	3.80
8/18/25	31.8	42.0	12.1	6.04	8.20	3.95
8/19/25	31.2	41.7	12.1	5.89	8.22	3.75
8/20/25	31.1	41.7	12.1	5.81	8.21	3.70
8/21/25	31.0	41.7	12.1	5.81	8.22	3.70
8/22/25	31.0	41.8	12.2	6.02	8.23	3.73
8/23/25	30.9	41.9	12.2	5.75	8.22	3.71
8/24/25	30.6	41.9	12.2	5.70	8.21	3.64
8/25/25	30.7	41.9	12.2	5.76	8.21	3.69
8/26/25	30.9	42.0	12.2	5.83	8.21	3.74
8/27/25	31.1	41.9	12.2	5.90	8.21	3.84
8/28/25	31.1	41.8	12.2	5.94	8.22	4.32
8/29/25	31.2	41.9	12.1	5.71	8.21	3.86
8/30/25	31.1	41.8	12.1	5.72	8.21	3.85
8/31/25	31.1	41.8	12.1	5.24	8.19	3.86

9/1/25	31.0	41.8	12.1	5.25	8.19	3.85
9/2/25	31.0	41.7	12.1	5.65	8.21	3.81
9/3/25	31.0	41.6	12.2	5.75	8.22	4.00
9/4/25	30.9	41.5	12.2	5.43	8.21	3.84
9/5/25	30.9	41.7	12.3	5.58	8.22	3.98
9/6/25	30.6	41.6	12.2	5.34	8.22	3.79
9/7/25	30.5	41.7	12.2	5.45	8.23	3.76
9/8/25	30.3	41.4	12.1	5.29	8.20	3.73
9/9/25	30.1	41.4	12.2	5.41	8.12	3.72
9/10/25	30.3	41.4	12.2	5.54	8.11	3.77
9/11/25	30.2	41.1	12.3	5.73	8.12	3.79
9/12/25	30.5	41.4	12.3	5.92	8.16	3.81
9/13/25	30.5	41.4	12.4	6.03	8.18	3.82
9/14/25	30.6	41.5	12.3	6.04	8.18	3.89
9/15/25	30.7	41.4	12.4	6.07	8.18	3.88
9/16/25	30.8	41.6	12.4	6.03	8.18	3.91
9/17/25	30.6	41.4	12.3	5.79	8.17	3.86
9/18/25	30.3	41.1	12.3	5.59	8.16	3.78
9/19/25	30.2	41.0	12.3	5.87	8.18	3.79
9/20/25	30.2	41.0	12.3	6.05	8.19	3.85
9/21/25	30.1	41.2	12.3	6.01	8.20	3.77
9/22/25	30.0	41.3	12.3	6.05	8.20	3.79
9/23/25	30.0	41.2	12.2	6.06	8.20	3.77
9/24/25	30.0	41.1	12.2	5.63	8.18	3.78
9/25/25	30.2	41.2	12.2	5.47	8.18	3.80
9/26/25	30.3	41.7	12.1	6.02	8.21	3.87
9/27/25	30.3	41.8	12.1	6.06	8.21	3.87
9/28/25	30.5	41.5	12.1	5.93	8.20	3.87
9/29/25	30.1	41.0	12.1	5.78	8.19	5.36
9/30/25	30.0	41.3	12.2	5.89	8.21	3.78
10/1/25	29.8	41.3	12.4	5.82	8.20	3.79
10/2/25	29.7	41.4	12.6	5.90	8.21	3.82
10/3/25	29.2	41.3	12.6	5.79	8.21	16.7
10/4/25	29.2	41.4	12.7	5.72	8.20	4.26
10/5/25	29.1	41.4	12.6	5.72	8.19	8.97
10/6/25	29.3	41.4	12.5	5.60	8.18	3.73
10/7/25	29.4	41.0	12.5	5.78	8.18	16.4
10/8/25	29.3	41.1	12.4	5.81	8.19	4.47
10/9/25	29.3	41.4	12.4	5.76	8.20	3.65
10/10/25	29.2	41.3	12.3	5.41	8.18	52.2
10/11/25	29.1	41.3	12.4	5.43	8.19	3.73
10/12/25	29.0	41.2	12.4	5.44	8.18	4.38
10/13/25	28.9	41.3	12.5	5.87	8.21	3.64

10/14/25	28.7	41.2	12.5	6.10	8.21	3.63
10/15/25	28.4	41.1	12.5	6.06	8.21	3.53
10/16/25	28.3	41.0	12.6	5.93	8.21	3.61
10/17/25	28.1	41.3	12.6	5.91	8.22	4.02
10/18/25	27.7	41.1	12.5	5.83	8.20	3.66
10/19/25	27.7	41.1	12.5	6.01	8.22	3.46
10/20/25	28.7	41.8	12.4	5.63	8.22	3.61
10/21/25	28.5	41.8	12.4	5.99	8.24	3.55
10/22/25	28.9	42.1	12.3	5.90	8.24	3.67
10/23/25	28.5	41.7	12.3	6.09	8.24	3.62
10/24/25	28.3	41.9	12.3	5.99	8.24	5.42
10/25/25	28.0	41.9	12.4	5.78	8.23	26.7
10/26/25	27.9	42.1	12.3	5.74	8.22	21.3
10/27/25	28.0	41.9	12.3	5.78	8.22	7.94
10/28/25	28.5	42.1	12.3	5.89	8.19	3.66
10/29/25	28.3	42.0	12.4	6.06	8.15	3.77
10/30/25	28.0	42.0	12.4	5.97	8.15	13.8
10/31/25	27.5	41.9	12.4	6.08	8.16	3.47
11/1/25	27.4	42.0	12.4	6.20	8.18	3.49
11/2/25	27.1	41.8	12.4	6.08	8.16	3.45
11/3/25	27.6	42.1	12.2	6.13	8.17	3.56
11/4/25	27.7	42.3	12.3	6.06	8.18	3.69
11/5/25	27.4	42.3	12.3	6.12	8.19	3.56
11/6/25	27.1	42.3	12.2	6.11	8.18	3.45
11/7/25	27.3	42.3	12.1	6.25	8.19	4.18
11/8/25	27.7	42.4	12.1	6.25	8.19	3.60
11/9/25	27.8	42.4	12.1	6.16	8.19	3.62
11/10/25	27.6	42.3	12.0	6.17	8.19	3.59
11/11/25	26.3	42.5	12.1	6.13	8.19	4.88
11/12/25	26.3	42.5	12.2	6.15	8.20	3.58
11/13/25	26.6	42.6	12.2	6.17	8.21	3.40
11/14/25	26.0	42.7	12.2	6.30	8.21	3.30
11/15/25	25.9	42.7	12.1	6.42	8.22	3.53
11/16/25	25.9	42.5	12.1	6.41	8.21	3.63
11/17/25	25.9	42.6	12.2	6.39	8.22	3.32
11/18/25	26.5	42.7	12.1	6.27	8.22	3.49
11/19/25	26.6	42.7	12.1	6.26	8.22	3.54
11/20/25	26.6	42.7	12.1	6.32	8.22	3.55
11/21/25	26.3	42.8	12.1	6.42	8.22	3.50
11/22/25	26.4	42.7	12.1	6.39	8.22	3.52
11/23/25	26.5	42.7	12.1	6.35	8.22	3.54
11/24/25	26.4	42.7	12.1	6.36	8.22	20.9
11/25/25	26.3	42.6	12.1	6.34	8.23	3.50

11/26/25	26.4	42.5	12.1	6.42	8.23	4.62
11/27/25	26.5	42.6	12.0	6.21	8.22	3.64
11/28/25	26.0	42.7	12.1	6.16	8.22	3.91
11/29/25	25.7	42.7	12.2	6.15	8.23	9.94
11/30/25	26.0	42.7	12.2	6.20	8.23	8.71
12/1/25	26.0	42.7	12.2	6.29	8.23	3.62
12/2/25	25.7	42.3	12.1	6.28	8.21	3.58
12/3/25	26.0	42.5	12.1	6.30	8.22	3.82
12/4/25	26.2	42.6	12.0	6.39	8.24	3.77
12/5/25	26.3	42.6	12.0	6.32	8.24	9.68
12/6/25	26.2	42.5	11.9	6.24	8.23	4.01
12/7/25	26.3	42.4	11.9	6.19	8.22	3.93
12/8/25	26.2	42.4	11.9	6.24	8.23	3.77
12/9/25	26.0	42.3	12.0	5.99	8.22	5.46
12/10/25	26.0	42.3	12.1	6.02	8.22	4.05
12/11/25	26.2	42.4	12.1	6.14	8.24	3.75
12/12/25	25.4	42.4	12.1	6.43	8.25	3.69
12/13/25	25.7	42.4	12.1	6.33	8.25	3.77
12/14/25	25.0	42.2	12.1	6.36	8.23	3.67
12/15/25	25.4	42.3	12.1	6.10	8.24	14.7
12/16/25	25.1	42.4	12.1	6.18	8.25	6.43
12/17/25	25.1	42.4	12.1	6.29	8.25	10.1
12/18/25	25.1	42.3	12.1	6.34	8.24	4.97
12/19/25	24.6	42.0	12.1	6.54	8.27	11.9
12/20/25	25.2	42.4	12.0	6.57	8.33	3.72
12/21/25	25.6	42.4	12.0	6.40	8.33	3.82
12/22/25	25.7	42.6	12.0	6.44	8.35	5.19
12/23/25	25.3	42.7	12.0	6.36	8.36	10.4
12/24/25	25.4	42.7	12.0	6.38	8.37	3.87
12/25/25	25.5	42.7	12.0	6.30	8.38	3.83
12/26/25	25.7	42.8	12.0	6.41	8.39	3.89
12/27/25	25.7	42.8	12.1	6.38	8.40	3.89
12/28/25	25.5	42.7	12.1	6.44	8.40	3.86
12/29/25	25.6	42.7	12.1	6.47	8.40	3.85
12/30/25	25.4	42.7	12.1	6.48	8.41	3.78
12/31/25	24.6	42.8	12.1	6.38	8.42	3.53
1/1/26	24.4	42.8	12.1	6.51	8.43	3.54
1/2/26	23.4	42.9	12.1	6.77	8.44	3.65
1/3/26	24.0	42.8	12.1	6.47	8.44	3.42
1/4/26	24.0	42.8	12.0	6.45	8.44	3.62
1/5/26	24.2	42.8	12.1	6.50	8.45	3.94
1/6/26	24.4	42.8	12.0	6.50	8.45	4.78
1/7/26	24.4	42.8	12.0	6.56	8.45	5.35

1/8/26	24.6	42.8	12.0	6.53	8.46	5.74
1/9/26	24.4	42.5	11.9	6.64	8.45	9.38
1/10/26	24.1	42.4	11.9	6.64	8.47	21.5
1/11/26	23.9	42.4	11.9	6.59	8.48	8.39
1/12/26	24.3	42.5	12.0	6.38	8.47	5.84
1/13/26	24.6	42.5	11.9	6.16	8.47	7.56
1/14/26	24.7	42.4	11.9	6.17	8.47	10.6
1/15/26	24.2	42.2	11.9	6.28	8.47	13.0
1/16/26	23.2	42.3	12.0	6.37	8.48	11.4
1/17/26	23.4	42.4	12.0	6.42	8.49	17.3
1/18/26	23.5	42.5	11.9	6.52	8.49	35.6
1/19/26	23.0	42.5	12.0	6.54	8.50	24.1
1/20/26	22.8	42.6	12.0	6.64	8.51	13.5
1/21/26	23.1	42.6	12.1	6.47	8.51	23.6
1/22/26	23.1	42.5	12.0	6.38	8.51	17.2
1/23/26	24.0	42.3	12.0	6.47	8.52	42.8
1/24/26	24.0	42.0	12.0	6.55	8.52	10.1
1/25/26	24.0	41.5	11.9	6.82	8.53	11.8
1/26/26	24.6	42.3	11.8	6.44	8.53	16.7
1/27/26	23.7	42.3	11.9	6.54	8.53	13.2
1/28/26	23.2	42.5	12.0	6.53	8.54	19.5
1/29/26	22.9	42.5	12.0	6.67	8.55	12.4
1/30/26	22.3	42.4	12.0	6.79	8.56	30.2
1/31/26	23.1	42.2	12.0	6.51	8.55	15.9
2/1/26	22.1	42.3	12.0	6.64	8.57	18.3
2/2/26	21.3	42.4	12.0	6.78	8.58	19.4
2/3/26	20.5	42.4	12.1	6.94	8.59	15.6
2/4/26	22.4	42.4	12.1	6.60	8.57	15.5
2/5/26	22.1	42.4	12.0	6.82	8.58	17.5
2/6/26	21.6	42.4	12.0	6.72	8.59	26.8
2/7/26	21.5	42.5	12.0	6.77	8.59	29.8
2/8/26	21.5	42.5	12.1	6.73	8.58	25.1
2/9/26	22.0	42.5	12.1	6.76	8.59	26.0
2/10/26	21.9	42.5	12.1	6.97	8.59	25.4
2/11/26	21.9	42.5	12.1	6.99	8.59	31.7
2/12/26	21.9	42.4	12.1	7.06	8.60	40.2
2/13/26	22.3	42.5	12.1	7.03	8.60	40.6
2/14/26	22.7	42.5	12.0	6.92	8.59	46.6
2/15/26	22.5	42.4	12.0	7.00	8.60	68.9
2/16/26	22.6	42.5	12.0	6.96	8.62	87.4
2/17/26	22.8	42.4	12.0	6.69	8.59	101
2/18/26	23.1	42.4	12.0	6.72	8.59	94.7
2/19/26	23.3	42.3	12.0	6.81	8.60	82.0

2/20/26	23.8	42.3	12.0	6.77	8.61	78.7
2/21/26	24.3	42.2	12.0	6.66	8.61	62.3
2/22/26	24.5	42.2	11.9	6.59	8.60	71.4
2/23/26	23.5	42.3	12.0	6.62	8.61	87.2
2/24/26	22.5	42.3	12.0	6.63	8.62	123
2/25/26	22.0	42.3	12.0	6.73	8.61	157
2/26/26	22.2	42.3	12.1	6.91	8.62	146
2/27/26	22.8	42.3	12.0	6.88	8.63	242
2/28/26	23.2	42.4	12.0	6.92	8.63	87.5
3/1/26	23.4	42.3	12.0	6.70	8.62	77.3
3/2/26	23.5	42.2	12.0	6.56	8.62	108
3/3/26	24.2	42.1	12.0	6.59	8.62	121
3/4/26	24.5	42.2	12.0	6.50	8.62	116
3/5/26	24.6	42.1	12.0	6.40	8.61	104
3/6/26	24.8	41.9	12.0	6.49	8.60	129
3/7/26	25.1	42.0	11.9	6.38	8.61	137
3/8/26	25.4	42.0	12.0	6.39	8.62	127
3/9/26	25.7	42.0	12.0	6.54	8.63	107
3/10/26	26.0	42.0	12.0	6.60	8.64	99.4
3/11/26	26.2	42.0	12.0	6.51	8.41	96.3
3/12/26	26.2	42.1	12.0	6.47	8.21	68.2
3/13/26	25.7	42.2	12.0	6.11	8.21	46.8
3/14/26	25.7	42.1	12.0	6.18	8.22	29.3
3/15/26	25.8	42.1	12.0	6.03	8.22	15.7
3/16/26	25.9	42.1	11.9	5.97	8.25	17.2
3/17/26	25.4	42.1	11.9	6.10	8.25	15.1
3/18/26	24.3	42.0	12.1	6.23	8.25	20.5
3/19/26	24.0	42.0	12.1	6.38	8.26	22.4
3/20/26	24.2	42.0	12.1	6.39	8.27	24.7
3/21/26	23.5	42.1	12.2	6.63	8.27	33.0
3/22/26	24.3	42.0	12.1	6.76	8.29	32.6
3/23/26	25.1	42.0	12.1	6.60	8.30	17.3
3/24/26	25.0	41.8	12.1	6.81	8.31	17.6
3/25/26	25.3	42.0	12.1	6.74	8.32	28.0
3/26/26	25.5	42.0	12.1	6.65	8.33	27.3
3/27/26	25.6	42.1	12.1	6.60	8.34	26.9
3/28/26	25.6	42.0	12.2	6.53	8.33	21.4
3/29/26	25.6	41.9	12.2	6.49	8.33	27.8
3/30/26	25.3	41.8	12.2	6.24	8.32	52.7
3/31/26	25.1	41.6	12.2	6.27	8.31	62.9
4/1/26	25.3	41.7	12.2	6.39	8.33	45.5
4/2/26	25.1	41.5	12.1	6.39	8.33	36.5
4/3/26	25.1	41.2	12.1	6.36	8.33	49.8

4/4/26	25.1	41.0	12.1	6.43	8.33	95.6
4/5/26	25.3	41.2	11.9	6.58	8.36	91.4
4/6/26	25.5	41.2	11.9	6.51	8.36	40.8
4/7/26	25.7	41.0	11.9	6.28	8.35	25.9
4/8/26	25.7	40.9	12.1	5.96	8.37	52.3
4/9/26	25.8	40.9	12.3	6.19	8.38	47.1
4/10/26	25.5	40.9	12.3	6.24	8.38	335
4/11/26	25.3	40.7	12.4	6.29	8.37	407
4/12/26	25.6	40.6	12.4	6.34	8.41	128
4/13/26	25.6	40.4	12.3	6.43	8.42	49.1
4/14/26	25.6	40.2	12.3	6.37	8.37	44.8
4/15/26	25.5	40.0	12.3	6.43	8.39	41.8
4/16/26	25.5	39.9	12.2	6.53	8.41	34.1
4/17/26	25.8	39.8	12.1	6.61	8.42	35.5
4/18/26	25.8	39.5	12.1	6.62	8.43	62.3
4/19/26	26.1	39.2	12.0	6.46	8.44	45.5
4/20/26	26.4	39.1	12.1	6.49	8.46	47.3
4/21/26	26.1	38.9	12.1	6.43	8.44	102
4/22/26	25.5	39.2	12.2	6.36	8.44	110
4/23/26	25.2	39.1	12.2	6.38	8.45	119
4/24/26	24.9	39.4	12.2	6.42	8.46	132
4/25/26	25.3	39.4	12.2	6.38	8.46	111
4/26/26	25.7	38.9	12.1	6.42	8.46	93.7
4/27/26	25.9	38.9	12.2	6.36	8.45	94.7
4/28/26	26.5	39.1	12.2	6.49	8.47	93.8
4/29/26	26.5	38.9	12.1	6.48	8.46	98.6
4/30/26	26.7	38.9	12.1	6.59	8.47	87.8
5/1/26	26.7	38.9	12.1	6.22	8.47	93.5
5/2/26	26.7	39.1	12.1	6.26	8.47	110
5/3/26	25.7	39.2	12.1	6.19	8.45	118
5/4/26	26.2	39.1	12.1	6.33	8.47	107
5/5/26	26.2	39.3	12.2	6.31	8.48	144
5/6/26	26.7	39.2	12.2	6.31	8.49	128

Table 55. Weekly averages data logged from site Miami Beach (MB) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.2	42.2	12.0	6.00	8.12	2.56
07/07/25-07/13/25	29.6	42.4	11.8	6.25	8.11	2.73
07/14/25-07/20/25	30.3	42.4	11.9	6.06	8.13	6.47
07/21/25-07/27/25	30.1	42.3	11.9	6.06	8.14	7.42
07/28/25-08/03/25	30.9	42.3	11.9	6.02	8.16	3.51
08/04/25-08/10/25	31.3	42.2	12.0	5.84	8.17	4.67
08/11/25-08/18/25	30.9	41.9	12.0	5.99	8.20	3.67
08/19/25-08/26/25	30.9	41.8	12.2	5.82	8.22	3.71
08/27/25-09/02/25	31.1	41.8	12.1	5.63	8.21	3.91
09/03/25-09/09/25	30.7	41.6	12.2	5.45	8.21	3.84
09/10/25-09/16/25	30.5	41.4	12.3	5.91	8.16	3.84
09/17/25-09/23/25	30.2	41.2	12.3	5.92	8.19	3.80
09/24/25-09/30/25	30.2	41.4	12.1	5.83	8.20	4.05
10/01/25 - 10/07/25	29.4	41.3	12.6	5.76	8.20	8.24
10/08/25 - 10/14/25	29.1	41.3	12.4	5.69	8.19	10.8
10/15/25 - 10/21/25	28.2	41.3	12.5	5.91	8.22	3.63
10/22/25 - 10/28/25	28.3	42.0	12.3	5.88	8.22	10.3
10/29/25 - 11/4/25	27.6	42.0	12.3	6.09	8.16	5.03
11/5/25 - 11/11/25	27.3	42.4	12.1	6.17	8.19	3.84
11/12/25 - 11/18/25	26.1	42.6	12.2	6.30	8.21	3.47
11/19/25 - 11/25/25	26.4	42.7	12.1	6.35	8.22	6.01

11/26/25- 12/02/25	26.0	42.6	12.1	6.24	8.22	5.43
12/03/25- 12/09/25	26.2	42.5	11.9	6.24	8.23	4.92
12/10/25- 12/16/25	25.6	42.4	12.1	6.22	8.24	5.72
12/17/25- 12/23/25	25.0	42.3	12.1	6.34	8.24	7.39
12/24/25- 12/30/25	25.5	42.7	12.1	6.41	8.39	3.85
12/31/25- 1/6/26	24.1	42.8	12.1	6.51	8.44	3.78
1/7/26- 1/13/26	24.3	42.5	11.9	6.50	8.47	9.11
1/14/26- 1/20/26	23.5	42.4	11.9	6.42	8.49	17.9
1/21/26- 1/27/26	23.8	42.2	12.0	6.53	8.52	19.4
1/28/26- 2/3/26	22.2	42.4	12.0	6.69	8.56	18.7
2/4/26- 2/10/26	21.8	42.5	12.1	6.77	8.58	23.7
2/11/26- 2/17/26	22.4	42.4	12.0	6.95	8.60	59.5
2/18/26- 2/24/26	23.6	42.3	12.0	6.69	8.61	85.5
2/25/26- 3/3/26	23.1	42.3	12.0	6.76	8.62	134
3/4/26- 3/10/26	25.1	42.0	12.0	6.47	8.62	117
3/11/26- 3/17/26	25.8	42.1	12.0	6.19	8.25	41.2
3/18/26- 3/24/26	24.3	42.0	12.1	6.54	8.28	24.0
3/25/26- 3/31/26	25.4	41.9	12.2	6.50	8.33	35.3
4/1/26- 4/7/26	25.3	41.3	12.0	6.42	8.34	55.1
4/8/26- 4/14/26	25.6	40.7	12.3	6.26	8.39	152
4/15/26- 4/21/26	25.9	39.5	12.1	6.51	8.43	52.6
4/22/26- 4/28/26	25.6	39.2	12.2	6.41	8.46	108
4/29/26- 5/5/26	26.4	39.1	12.1	6.34	8.47	110

Table 56. Monthly averages data logged from site Miami Beach (MB) over the period June 2025 – May 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	29.9	42.3	11.9	6.07	8.13	4.67
Aug-25	31.0	42.0	12.1	5.86	8.20	3.87
Sep-25	30.4	41.4	12.2	5.76	8.19	3.88
Oct-25	28.7	41.5	12.4	5.83	8.20	8.13
Nov-25	26.7	42.5	12.2	6.24	8.21	4.61
Dec-25	25.6	42.5	12.0	6.32	8.29	5.19
Jan-26	23.8	42.5	12.0	6.51	8.49	13.7
Fed-26	22.5	42.4	12.0	6.81	8.60	66.7
Mar-26	25.0	42.0	12.1	6.45	8.39	58.9
Apr-26	25.7	40.1	12.2	6.41	8.41	91.8
May-26	26.3	39.1	12.1	6.26	8.47	116

Table 57. Quarterly averages data logged from site Miami Beach (MB) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25-09/11/25	30.5	42.1	12.1	5.90	8.17	5.91
09/12/25-12/19/25	27.8	42.1	12.2	6.05	8.21	5.74
12/20/25-04/07/26	24.1	42.3	12.0	6.55	8.47	41.8

Table 58. Daily averages data logged from site Biscayne (BC) over the period 07/01/25 – 04/17/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
7/1/25	29.6	41.9	11.4	6.22	8.42	4.82
7/2/25	29.5	41.9	11.3	6.09	8.34	13.6
7/3/25	29.4	41.9	11.3	6.00	8.29	3.35
7/4/25	29.3	41.9	11.3	5.89	8.28	3.34
7/5/25	29.1	41.8	11.3	5.77	8.26	3.41
7/6/25	29.0	41.5	11.2	5.76	8.22	3.39
7/7/25	29.5	41.8	11.3	5.91	8.23	5.20
7/8/25	29.9	41.8	11.6	6.29	8.25	4.35
7/9/25	30.3	41.8	11.9	6.14	8.27	3.79
7/10/25	30.3	41.8	11.8	6.19	8.29	4.04
7/11/25	30.3	41.3	11.8	6.08	8.29	4.31
7/12/25	30.4	41.5	11.8	6.16	8.30	7.65
7/13/25	30.4	40.8	11.8	6.17	8.29	3.69
7/14/25	30.2	41.5	11.9	6.17	8.29	3.75
7/15/25	30.5	41.6	11.9	5.95	8.29	6.46
7/16/25	30.9	41.7	11.9	5.81	8.29	32.3
7/17/25	30.5	41.8	12.0	5.98	8.30	39.5
7/18/25	30.2	41.6	11.9	6.11	8.31	37.1
7/19/25	30.3	41.6	11.9	5.96	8.30	221
7/20/25	30.5	41.6	12.0	6.08	8.31	39.5
7/21/25	30.5	41.4	11.9	6.19	8.30	5.99
7/22/25	30.5	41.6	12.0	6.23	8.31	13.3
7/23/25	30.4	41.7	12.0	6.10	8.32	6.95
7/24/25	30.4	41.2	11.9	6.04	8.32	106
7/25/25	30.8	41.6	11.9	5.77	8.28	20.1
7/26/25	30.9	41.5	11.9	5.95	8.30	8.98
7/27/25	31.0	41.7	11.9	6.09	8.32	9.05
7/28/25	31.3	41.9	11.9	5.96	8.32	14.4
7/29/25	31.6	42.2	11.9	5.92	8.34	10.8
7/30/25	31.6	42.0	11.9	6.06	8.35	50.7
7/31/25	31.8	42.1	11.9	6.06	8.35	10.4
8/1/25	32.3	42.2	11.9	6.07	8.35	163
8/2/25	32.2	42.0	11.9	5.96	8.34	89.4
8/3/25	32.5	42.2	11.9	5.99	8.35	4.32
8/4/25	32.7	42.5	11.9	5.84	8.36	4.34
8/5/25	32.6	42.5	12.0	5.80	8.36	5.70

8/6/25	32.5	42.2	12.0	5.82	8.35	6.16
8/7/25	32.2	41.7	12.0	5.72	8.34	11.2
8/8/25	31.5	41.6	11.7	5.69	8.35	5.36
8/9/25	31.0	41.7	11.4	5.53	8.35	5.45
8/10/25	30.6	41.9	11.5	5.43	8.34	10.2
8/11/25	30.8	41.7	11.4	5.56	8.34	6.96
8/12/25	30.8	41.5	11.4	5.88	8.35	6.83
8/13/25	30.9	41.4	11.4	5.87	8.36	8.76
8/14/25	31.2	41.3	11.5	5.77	8.37	11.7
8/15/25	31.4	41.4	11.5	5.70	8.37	16.3
8/16/25	31.7	41.5	11.5	5.76	8.38	23.0
8/17/25	31.9	41.7	11.5	5.74	8.39	20.7
8/18/25	31.8	41.5	11.6	5.58	8.40	21.0
8/19/25	31.3	41.1	11.6	5.69	8.42	18.7
8/20/25	30.9	40.9	11.6	5.71	8.42	25.0
8/21/25	31.1	40.9	11.6	5.69	8.42	13.3
8/22/25	31.1	40.8	11.7	5.62	8.42	14.0
8/23/25	30.9	40.8	11.6	5.41	8.41	11.4
8/24/25	30.7	41.0	11.6	5.38	8.41	8.62
8/25/25	30.9	41.2	11.6	5.51	8.41	11.8
8/26/25	31.0	41.0	11.6	5.70	8.42	13.8
8/27/25	31.1	40.8	11.6	5.82	8.43	13.4
8/28/25	31.1	40.9	11.6	5.70	8.43	36.9
8/29/25	31.4	41.0	11.5	5.31	8.41	122
8/30/25	31.4	41.1	11.5	5.25	8.40	170
8/31/25	31.1	41.2	11.5	5.13	8.36	38.4
9/1/25	30.8	41.1	11.5	5.14	8.32	189
9/2/25	30.7	40.9	11.5	5.16	8.32	311
9/3/25	31.0	40.8	11.7	5.45	8.43	322
9/4/25	30.9	40.8	11.7	5.31	8.43	288
9/5/25	30.7	41.0	11.7	5.26	8.43	134
9/6/25	30.4	40.8	11.7	5.12	8.41	66.3
9/7/25	29.8	40.6	11.6	5.11	8.34	166
9/8/25	29.8	40.7	11.6	5.03	8.31	201
9/9/25	29.9	40.7	11.6	5.39	8.27	82.4
9/10/25	29.9	40.8	11.6	5.46	8.31	3.39
9/11/25	30.1	40.6	11.7	5.55	8.34	2.90
9/12/25	30.1	40.3	11.8	5.82	8.41	6.34
9/13/25	30.3	40.6	11.8	5.84	8.44	2.87
9/14/25	30.5	40.4	11.7	6.04	8.46	3.12
9/15/25	30.5	40.4	11.8	5.97	8.44	3.03
9/16/25	30.7	40.7	11.8	5.88	8.45	3.18
9/17/25	30.4	40.3	11.7	5.92	8.45	2.84

9/18/25	30.0	40.2	11.7	5.79	8.45	3.10
9/19/25	30.2	40.3	11.7	5.86	8.46	3.71
9/20/25	30.1	40.0	11.7	5.91	8.46	3.18
9/21/25	30.1	40.4	11.7	5.91	8.47	3.73
9/22/25	30.2	40.5	11.7	6.10	8.49	2.81
9/23/25	30.2	40.4	11.6	6.16	8.49	2.69
9/24/25	30.2	40.2	11.7	5.88	8.47	2.60
9/25/25	30.2	40.2	11.6	5.92	8.48	3.22
9/26/25	30.3	40.6	11.6	6.27	8.51	7.96
9/27/25	30.5	40.9	11.5	6.32	8.51	22.4
9/28/25	30.7	40.6	11.5	6.02	8.50	52.9
9/29/25	30.1	40.2	11.5	5.65	8.48	75.4
9/30/25	29.9	40.3	11.6	5.66	8.48	47.7
10/1/25	29.9	40.8	11.9	5.80	8.51	31.7
10/2/25	29.8	40.9	12.0	5.86	8.52	22.9
10/3/25	29.2	40.5	12.0	5.58	8.48	59.9
10/4/25	29.1	40.7	12.1	5.55	8.48	51.6
10/5/25	29.0	40.4	12.0	5.49	8.47	56.8
10/6/25	29.2	40.6	11.9	5.47	8.49	44.3
10/7/25	29.2	40.1	11.9	5.62	8.48	42.5
10/8/25	29.2	40.2	11.9	5.61	8.48	48.4
10/9/25	29.2	39.9	11.8	5.67	8.48	150
10/10/25	29.1	40.0	11.7	5.29	8.47	69.3
10/11/25	29.0	40.5	11.8	5.29	8.49	37.8
10/12/25	29.0	40.4	11.8	5.35	8.49	59.7
10/13/25	28.9	40.2	11.9	5.50	8.49	98.5
10/14/25	28.6	40.4	12.0	5.65	8.52	131
10/15/25	28.3	40.3	12.0	5.63	8.53	142
10/16/25	28.3	40.2	12.0	5.62	8.52	159
10/17/25	28.0	40.4	11.9	5.50	8.52	173
10/18/25	27.9	40.6	12.0	5.67	8.53	126
10/19/25	27.6	40.6	11.9	5.90	8.54	180
10/20/25	27.5	40.5	11.8	5.72	8.52	157
10/21/25	28.3	40.9	11.8	5.85	8.55	123
10/22/25	28.4	40.8	11.8	6.01	8.56	117
10/23/25	28.2	40.5	11.7	6.00	8.54	96.7
10/24/25	28.2	40.8	11.8	5.76	8.54	142
10/25/25	28.0	41.3	11.8	5.66	8.55	187
10/26/25	27.9	41.3	11.8	5.60	8.54	326
10/27/25	27.7	41.2	11.7	5.56	8.53	263
10/28/25	28.2	41.4	11.7	5.55	8.55	184
10/29/25	28.2	41.4	11.8	6.01	8.19	2.76
10/30/25	28.1	41.6	11.8	5.96	8.21	53.9

10/31/25	27.5	41.3	11.8	6.01	8.19	16.4
11/1/25	27.0	41.2	11.8	6.23	8.20	2.16
11/2/25	26.9	41.4	11.8	6.21	8.21	2.15
11/3/25	26.7	41.1	11.7	6.20	8.20	2.48
11/4/25	27.0	40.9	11.6	6.07	8.20	3.26
11/5/25	26.8	41.5	11.7	6.08	8.21	8.36
11/6/25	26.7	41.6	11.6	6.20	8.21	2.12
11/7/25	26.7	41.6	11.6	6.38	8.22	2.21
11/8/25	27.3	41.6	11.6	6.38	8.23	3.72
11/9/25	27.5	41.5	11.5	6.34	8.23	6.30
11/10/25	27.4	41.6	11.5	6.36	8.23	5.10
11/11/25	26.5	41.9	11.5	6.03	8.23	4.81
11/12/25	25.7	42.0	11.6	6.15	8.23	6.55
11/13/25	26.0	42.1	11.6	6.10	8.23	15.9
11/14/25	26.0	42.0	11.6	6.17	8.23	2.46
11/15/25	25.6	42.1	11.5	6.35	8.24	4.30
11/16/25	25.4	42.1	11.5	6.33	8.24	7.08
11/17/25	25.3	42.1	11.6	6.52	8.25	5.56
11/18/25	25.9	42.0	11.5	6.37	8.25	3.46
11/19/25	26.1	42.2	11.5	6.42	8.25	3.93
11/20/25	26.2	42.4	11.5	6.50	8.26	2.14
11/21/25	26.2	42.4	11.5	6.41	8.26	6.05
11/22/25	26.4	42.3	11.5	6.40	8.26	2.23
11/23/25	26.1	42.1	11.5	6.34	8.25	2.18
11/24/25	26.3	42.3	11.5	6.29	8.26	14.5
11/25/25	26.2	42.3	11.5	6.47	8.28	42.2
11/26/25	26.1	42.2	11.5	6.57	8.28	2.20
11/27/25	26.2	42.0	11.5	6.53	8.28	2.16
11/28/25	25.8	41.7	11.5	6.13	8.25	2.84
11/29/25	25.7	42.0	11.6	6.06	8.26	11.8
11/30/25	25.7	42.0	11.6	6.03	8.25	10.5
12/1/25	25.5	41.8	11.6	6.26	8.25	3.36
12/2/25	25.6	41.8	11.5	6.21	8.25	5.08
12/3/25	25.4	41.3	11.5	6.30	8.23	2.82
12/4/25	25.7	41.1	11.4	6.27	8.24	3.01
12/5/25	25.7	41.1	11.3	6.35	8.25	6.89
12/6/25	25.8	41.0	11.3	6.46	8.26	2.45
12/7/25	26.0	41.0	11.3	6.32	8.25	5.07
12/8/25	26.2	41.3	11.3	6.33	8.26	2.60
12/9/25	26.0	41.1	11.4	6.04	8.25	7.02
12/10/25	26.1	41.0	11.4	5.92	8.26	5.94
12/11/25	25.9	41.2	11.5	6.02	8.27	2.87
12/12/25	25.6	41.2	11.5	6.39	8.29	27.8

12/13/25	25.3	41.0	11.5	6.28	8.28	2.91
12/14/25	24.5	41.1	11.5	6.31	8.27	3.70
12/15/25	25.2	41.0	11.5	6.05	8.27	11.0
12/16/25	25.0	41.5	11.5	6.12	8.27	9.82
12/17/25	25.2	41.5	11.5	6.16	8.28	7.12
12/18/25	24.8	41.3	11.5	6.24	8.27	8.44
12/19/25	24.7	41.6	11.5	6.37	8.25	4.33
12/20/25	25.9	42.2	11.4	6.35	8.27	2.33
12/21/25	25.9	42.2	11.4	6.45	8.28	2.29
12/22/25	25.5	41.9	11.4	6.27	8.25	2.89
12/23/25	25.3	42.2	11.4	6.25	8.27	8.34
12/24/25	25.1	42.1	11.4	6.28	8.26	3.33
12/25/25	24.8	42.0	11.5	6.41	8.25	2.39
12/26/25	25.2	42.1	11.5	6.37	8.26	2.34
12/27/25	25.1	42.1	11.5	6.71	8.28	2.50
12/28/25	25.2	42.2	11.5	6.82	8.29	2.93
12/29/25	25.3	42.2	11.5	6.72	8.29	2.99
12/30/25	24.9	42.0	11.5	6.41	8.26	3.01
12/31/25	24.3	42.2	11.5	6.33	8.27	3.05
1/1/26	23.6	42.2	11.5	6.44	8.28	3.29
1/2/26	23.0	42.3	11.5	6.61	8.28	3.69
1/3/26	23.2	42.2	11.5	6.79	8.30	3.22
1/4/26	23.8	42.3	11.4	6.51	8.29	26.0
1/5/26	23.7	42.2	11.5	6.60	8.28	7.54
1/6/26	23.8	42.2	11.4	6.77	8.30	3.49
1/7/26	24.2	42.3	11.4	6.68	8.30	3.33
1/8/26	24.6	42.3	11.4	6.59	8.30	3.87
1/9/26	24.2	42.1	11.4	6.70	8.30	3.56
1/10/26	23.6	42.0	11.3	6.72	8.32	3.88
1/11/26	24.2	42.3	11.3	6.41	8.29	3.75
1/12/26	24.3	42.1	11.3	6.25	8.27	5.29
1/13/26	24.2	41.9	11.3	6.10	8.27	6.25
1/14/26	24.1	41.6	11.3	6.22	8.27	7.60
1/15/26	23.5	41.3	11.3	6.27	8.26	3.91
1/16/26	23.2	41.6	11.4	6.27	8.26	5.11
1/17/26	22.9	41.7	11.3	6.46	8.26	5.81
1/18/26	23.2	41.7	11.3	6.49	8.26	5.73
1/19/26	22.6	41.6	11.4	6.41	8.25	17.9
1/20/26	22.6	41.8	11.4	6.48	8.26	10.1
1/21/26	23.3	41.9	11.5	6.35	8.27	32.2
1/22/26	23.1	41.5	11.4	6.28	8.25	41.2
1/23/26	24.3	41.5	11.4	6.43	8.28	43.6
1/24/26	24.0	41.1	11.4	6.70	8.29	34.6

1/25/26	23.7	40.6	11.4	6.81	8.30	17.4
1/26/26	24.3	41.2	11.3	6.58	8.29	17.2
1/27/26	23.7	41.4	11.4	6.46	8.29	27.4
1/28/26	23.3	41.6	11.4	6.39	8.29	28.6
1/29/26	23.0	41.7	11.4	6.41	8.30	41.3
1/30/26	22.6	41.8	11.4	6.50	8.30	36.8
1/31/26	22.1	41.8	11.4	6.63	8.31	23.0
2/1/26	22.0	41.8	11.4	6.53	8.31	60.5
2/2/26	21.3	41.8	11.4	6.66	8.32	92.6
2/3/26	21.6	41.8	11.5	6.67	8.32	156
2/4/26	21.1	41.8	11.5	7.02	8.34	152
2/5/26	21.4	41.9	11.4	6.85	8.34	61.1
2/6/26	21.1	41.9	11.5	6.77	8.34	67.1
2/7/26	20.9	41.9	11.4	6.89	8.36	94.5
2/8/26	21.3	41.9	11.5	6.82	8.36	157
2/9/26	21.7	41.7	11.5	6.85	8.36	125
2/10/26	21.6	41.9	11.5	7.06	8.38	90.1
2/11/26	21.8	42.0	11.5	6.95	8.38	131
2/12/26	21.7	42.1	11.5	7.04	8.39	108
2/13/26	22.2	42.0	11.5	6.95	8.39	95.6
2/14/26	22.3	41.9	11.5	7.02	8.41	71.9
2/15/26	22.2	41.9	11.4	6.86	8.42	77.1
2/16/26	22.7	42.0	11.4	6.70	8.43	74.8
2/17/26	22.8	41.9	11.4	6.69	8.42	50.4
2/18/26	23.0	41.8	11.4	6.69	8.42	60.6
2/19/26	23.5	41.8	11.4	6.63	8.44	38.7
2/20/26	24.0	41.8	11.4	6.60	8.44	41.7
2/21/26	24.3	41.8	11.4	6.61	8.45	31.8
2/22/26	24.5	41.6	11.4	6.58	8.45	35.5
2/23/26	23.4	41.7	11.4	6.47	8.44	81.3
2/24/26	22.7	41.8	11.5	6.51	8.43	76.3
2/25/26	22.7	41.8	11.5	6.59	8.44	34.2
2/26/26	22.1	42.3	11.5	6.75	8.44	35.5
2/27/26	23.0	42.3	11.5	6.72	8.45	49.3
2/28/26	23.4	42.2	11.4	6.60	8.45	40.1
3/1/26	23.6	42.1	11.4	6.54	8.45	23.9
3/2/26	23.6	42.0	11.5	6.48	8.44	38.5
3/3/26	24.0	42.0	11.5	6.40	8.44	58.9
3/4/26	24.3	42.0	11.4	6.44	8.46	59.2
3/5/26	24.5	42.1	11.4	6.40	8.46	66.9
3/6/26	24.8	42.0	11.4	6.32	8.47	49.7
3/7/26	25.2	42.1	11.4	6.22	8.47	45.2
3/8/26	25.4	42.1	11.4	6.22	8.47	54.5

3/9/26	25.7	42.1	11.5	6.45	8.49	38.0
3/10/26	26.0	41.9	11.4	6.35	8.49	38.2
3/11/26	26.3	42.2	11.5	6.47	8.35	42.4
3/12/26	26.4	42.4	11.4	6.39	8.24	39.1
3/13/26	26.4	42.3	11.4	6.36	8.23	19.2
3/14/26	26.3	41.9	11.4	6.17	8.20	25.7
3/15/26	26.3	42.2	11.4	6.19	8.26	31.3
3/16/26	26.0	42.2	11.4	6.11	8.24	23.5
3/17/26	25.8	41.9	11.4	6.11	8.21	9.34
3/18/26	24.6	41.8	11.4	6.13	8.18	16.3
3/19/26	24.3	41.6	11.5	6.29	8.18	57.2
3/20/26	24.0	41.8	11.6	6.40	8.18	NA
3/21/26	24.1	41.5	11.6	6.60	8.19	NA
3/22/26	24.8	41.7	11.5	6.67	8.22	NA
3/23/26	25.2	41.8	11.6	6.64	8.23	NA
3/24/26	25.1	41.9	11.5	6.86	8.24	NA
3/25/26	25.4	41.9	11.6	6.77	8.24	NA
3/26/26	25.3	41.2	11.5	6.78	8.24	NA
3/27/26	25.4	41.7	11.5	6.68	8.24	NA
3/28/26	25.6	41.6	11.6	6.69	8.24	NA
3/29/26	25.6	41.9	11.6	6.42	8.23	NA
3/30/26	25.3	41.8	11.7	6.28	8.22	NA
3/31/26	25.1	41.9	11.6	6.18	8.21	NA
4/1/26	25.1	41.6	11.6	6.30	8.21	NA
4/2/26	25.1	41.6	11.5	6.37	8.21	NA
4/3/26	25.1	41.1	11.5	6.23	8.21	NA
4/4/26	25.1	41.8	11.4	6.19	8.21	NA
4/5/26	25.2	41.7	11.4	5.99	8.17	NA
4/6/26	25.6	41.5	11.4	6.20	8.21	NA
4/7/26	26.0	40.3	11.4	6.86	8.43	3.48
4/8/26	25.8	39.3	11.5	6.74	8.47	21.4
4/9/26	25.6	38.9	11.7	6.48	8.39	18.6
4/10/26	25.5	39.3	11.8	6.68	8.42	6.85
4/11/26	25.5	39.4	11.8	6.76	8.43	4.38
4/12/26	25.5	39.4	11.9	6.69	8.42	3.54
4/13/26-4/16/26	NA	NA	NA	NA	NA	NA
4/17/26	26.0	39.2	12.1	8.07	8.48	63.8

Table 59. Weekly averages data logged from site Biscayne (BC) over the period June 2025 – April 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU). NA = Data not available.

Date	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
6/30/25-07/6/25	29.4	41.8	11.3	6.00	8.32	5.22
07/07/25-07/13/25	30.2	41.6	11.7	6.13	8.28	4.72
07/14/25-07/20/25	30.4	41.6	11.9	6.01	8.30	54.2
07/21/25-07/27/25	30.6	41.5	11.9	6.05	8.30	24.3
07/28/25-08/03/25	31.9	42.1	11.9	6.00	8.34	49.0
08/04/25-08/10/25	32.3	42.1	12.0	5.74	8.35	7.30
08/11/25-08/18/25	31.3	41.5	11.5	5.73	8.37	14.4
08/19/25-08/26/25	31.0	41.0	11.6	5.59	8.42	14.6
08/27/25-09/02/25	31.1	41.0	11.5	5.36	8.38	126
09/03/25-09/09/25	30.4	40.7	11.6	5.21	8.39	198
09/10/25-09/16/25	30.3	40.5	11.7	5.79	8.41	3.55
09/17/25-09/23/25	30.2	40.3	11.7	5.95	8.47	3.15
09/24/25-09/30/25	30.3	40.4	11.6	5.96	8.49	30.3
10/01/25 - 10/07/25	29.4	40.6	12.0	5.62	8.49	44.3
10/08/25 - 10/14/25	29.0	40.2	11.8	5.48	8.49	84.9
10/15/25 - 10/21/25	28.0	40.5	11.9	5.70	8.53	152
10/22/25 - 10/28/25	28.1	41.1	11.7	5.73	8.54	188
10/29/25 - 11/4/25	27.3	41.3	11.7	6.10	8.20	11.9
11/5/25 - 11/11/25	27.0	41.6	11.6	6.25	8.22	4.66

11/12/25 - 11/18/25	25.7	42.0	11.6	6.29	8.24	6.48
11/19/25 - 11/25/25	26.2	42.3	11.5	6.40	8.26	10.5
11/26/25- 12/02/25	25.8	41.9	11.5	6.26	8.26	5.41
12/03/25- 12/09/25	25.8	41.1	11.4	6.29	8.25	4.27
12/10/25- 12/16/25	25.4	41.1	11.5	6.16	8.27	9.15
12/17/25- 12/23/25	24.6	41.3	11.5	6.28	8.27	7.26
12/24/25- 12/30/25	25.1	42.1	11.5	6.53	8.27	2.78
12/31/25- 1/6/26	23.6	42.2	11.5	6.58	8.28	7.18
1/7/26- 1/13/26	24.2	42.1	11.3	6.49	8.29	4.28
1/14/26- 1/20/26	23.2	41.6	11.3	6.37	8.26	8.02
1/21/26- 1/27/26	23.8	41.3	11.4	6.52	8.28	30.5
1/28/26- 2/3/26	22.3	41.7	11.4	6.54	8.31	62.7
2/4/26- 2/10/26	21.3	41.9	11.5	6.89	8.36	107
2/11/26- 2/17/26	22.2	42.0	11.5	6.89	8.41	86.9
2/18/26- 2/24/26	23.6	41.8	11.4	6.58	8.44	52.3
2/25/26- 3/3/26	23.2	42.1	11.5	6.58	8.45	40.1
3/4/26- 3/10/26	25.1	42.1	11.4	6.34	8.47	50.2
3/11/26- 3/17/26	26.3	42.2	11.5	6.47	8.35	42.4
3/18/26- 3/24/26	24.6	41.7	11.5	6.51	8.20	36.8
3/25/26- 3/31/26	25.4	41.7	11.6	6.54	8.23	NA
4/1/26- 4/7/26	25.3	41.4	11.5	6.31	8.23	3.5
4/8/26- 4/14/26	25.6	39.4	11.7	6.70	8.43	9.71
4/15/26- 4/21/26	26.0	39.2	12.1	8.07	8.48	63.8

Table 60. Monthly averages data logged from site Biscayne (BC) over the period June 2025 – April 2026. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

Month	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
Jul-25	30.4	41.7	11.8	6.03	8.30	22.6
Aug-25	31.4	41.5	11.6	5.66	8.38	29.6
Sep-25	30.3	40.5	11.7	5.70	8.43	67.3
Oct-25	28.5	40.7	11.9	5.68	8.48	105
Nov-25	26.3	41.9	11.6	6.29	8.24	6.36
Dec-25	25.4	41.6	11.4	6.32	8.26	5.19
Jan-26	23.5	41.8	11.4	6.49	8.28	15.4
Feb-26	22.4	41.9	11.4	6.75	8.40	78.2
Mar-26	25.2	41.9	11.5	6.42	8.30	38.2
Apr-26	25.4	40.5	11.6	6.47	8.31	13.0

Table 61. Quarterly averages data logged from site Biscayne (BC) over the period 06/27/25 – 04/07/26. The variables recorded are temperature (°C), salinity (PSU), pressure (psi), RDO concentration (mg/L), pH (pH), and turbidity (NTU).

	Temperature (°C)	Salinity (PSU)	Pressure (psi)	RDO (mg/L)	pH (pH)	Turbidity (NTU)
07/01/25-09/11/25	30.8	41.5	11.7	5.77	8.34	48.1
09/12/25-12/19/25	27.6	41.1	11.7	6.02	8.36	39.6
12/20/25-04/07/26	24.0	41.9	11.4	6.52	8.31	37.9

Across all five coastal sites (BC, MB, HL, HW, and FL), water temperature shows a clear seasonal cycle driven by regional warming and cooling trends over the monitoring period (July 1, 2025–May 6, 2026). Temperatures begin in early July 2025 at relatively uniform warm conditions (~ 29.2 – 29.7°C across sites), rise steadily through late summer, peak in August 2025, and then gradually decline through fall and winter before increasing again in spring 2026 (Figure 42).

During the warm season (July–August 2025), all sites experience their highest temperatures, with BC consistently reaching the upper range and peaking around ~ 32 – 33°C in early August. MB, HL, and HW follow similar patterns but remain slightly cooler than BC by ~ 0.3 – 1.5°C . FL generally records the lowest temperatures among the sites, though differences are modest during peak summer conditions.

As the system transitions into fall (September–November 2025), temperatures steadily decrease across all stations, converging toward ~ 29 – 31°C in September and ~ 26 – 28°C by late October–November. This cooling trend continues into winter (December 2025–February 2026), when the lowest temperatures of the entire dataset are observed, generally ranging from ~ 21 – 25°C . During this period, spatial differences between sites become more pronounced, with BC typically remaining slightly warmer, while FL and HL often record the lowest values.

From March through May 2026, temperatures increase again across all sites, returning to ~ 25 – 27°C by spring. A gradual re-establishment of spatial variability is observed, with HL and MB often tracking slightly warmer mid-range conditions, while FL and HW remain marginally cooler in several periods.

BC consistently records the highest temperatures, especially during summer peaks, reflecting stronger heating or reduced water exchange. MB is slightly cooler than BC but remains among the warmer intermediate sites. HL and HW show nearly identical temperature patterns and generally fall in the mid-to-lower range, indicating similar environmental conditions. FL is the coolest site throughout most of the records, particularly during seasonal lows. Overall, temperature differences among sites are smallest in summer and become more pronounced in winter and early spring, with a consistent pattern of BC warmest, FL coolest, and MB/HL/HW intermediate.

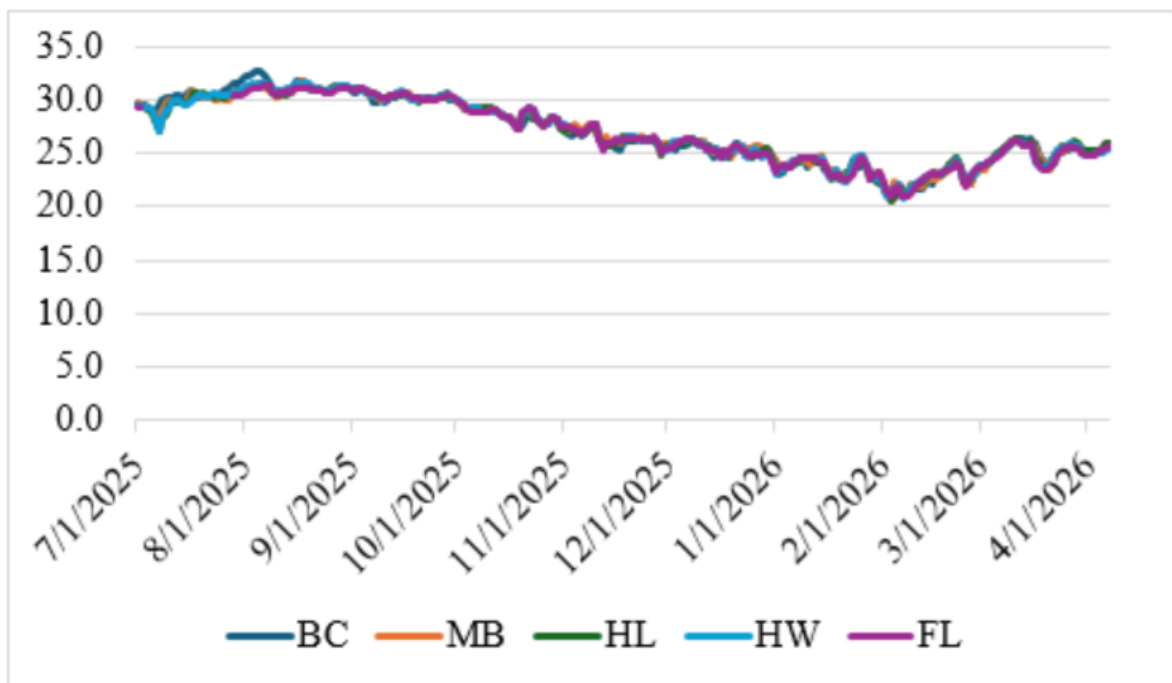


Figure 37. Daily average temperature (°C) at all five coastal sites (BC, MB, HL, HW, and FL) from 07/01/2025 to 05/06/2026.

Across all sites, pH shows a seasonal increase from summer 2025 into winter–spring 2026, with relatively modest inter-site differences compared to the temporal signal. During summer (July–August), values are lower and tightly clustered (generally ~8.1–8.4), with BC tending to be slightly higher than MB and FL generally among the lowest. HL and HW remain intermediate and relatively stable, tracking closely together. From fall through winter, pH gradually rises across all sites, reaching ~8.4–8.6, with MB and HL often slightly elevated relative to BC and HW during this period. In late winter to spring (Feb–May 2026), variability increases, with HL consistently exhibiting the highest pH (frequently exceeding 8.6–8.7 and peaking higher in spring), while MB also trends high and steadily increasing. FL shows the greatest short-term variability, including pronounced episodic spikes in spring 2026 (approaching ~8.8–9.0) alongside lower periods, suggesting stronger influence from local or transient conditions (Figure 43).

These patterns are likely driven by seasonal shifts in temperature, biological activity, and freshwater-marine balance. The stronger fluctuations at FL suggest greater sensitivity to episodic freshwater inputs, localized productivity changes, or reduced flushing, whereas more consistently flushed sites like BC and MB remain more buffered. Overall, the dataset reflects a dominant seasonal alkalinity increase superimposed on site-specific hydrodynamic controls.

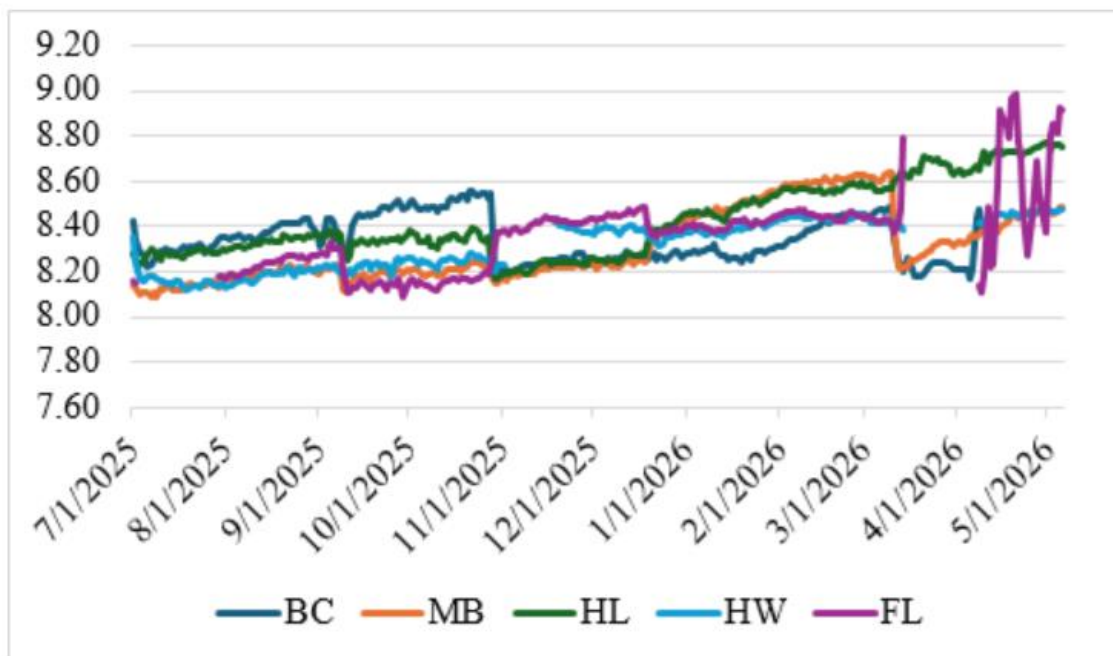


Figure 38. Daily average pH at all five coastal sites (BC, MB, HL, HW, and FL) from 07/01/2025 to 05/06/2026.

Relative dissolved oxygen (RDO) showed clear temporal and spatial variability from July 2025 to May 2026, driven primarily by seasonal temperature shifts, freshwater–saltwater mixing, and changes in water column stratification and biological oxygen demand. Overall, DO values were moderate in early summer (~5.8–6.6 mg/L) but declined during late summer into early fall, with several sites dropping toward ~5.0–5.5 mg/L. These lower values are consistent with warmer water temperatures, which reduce oxygen solubility, and with episodic freshwater inputs that can enhance stratification. Stratification limits vertical mixing, reducing oxygen replenishment in deeper or more stagnant zones while simultaneously increasing microbial respiration associated with organic matter input, both of which further depress DO (Figure 44).

In contrast, late fall through winter showed consistently higher and more stable DO levels, often reaching ~6.8–7.5 mg/L and occasionally exceeding 7.5–8.0 mg/L at certain sites. These increases are best explained by cooler temperatures (which increase oxygen solubility), stronger wind-driven mixing, and more frequent storm or tidal flushing events that disrupt stratification and enhance reaeration. Spatial differences among sites reflect local hydrodynamics: HL frequently exhibited the highest and most variable DO, suggesting stronger exchange or periodic mixing events, while HW and FL

tended to be lower and more stable, consistent with more restricted circulation and longer residence times. Short-lived spikes in DO (e.g., spring 2026 at select sites) likely reflect episodic physical mixing events that temporarily reoxygenated the water column. Overall, the pattern indicates a system strongly regulated by seasonal temperature forcing, episodic freshwater inputs, and site-specific differences in water exchange and mixing efficiency.

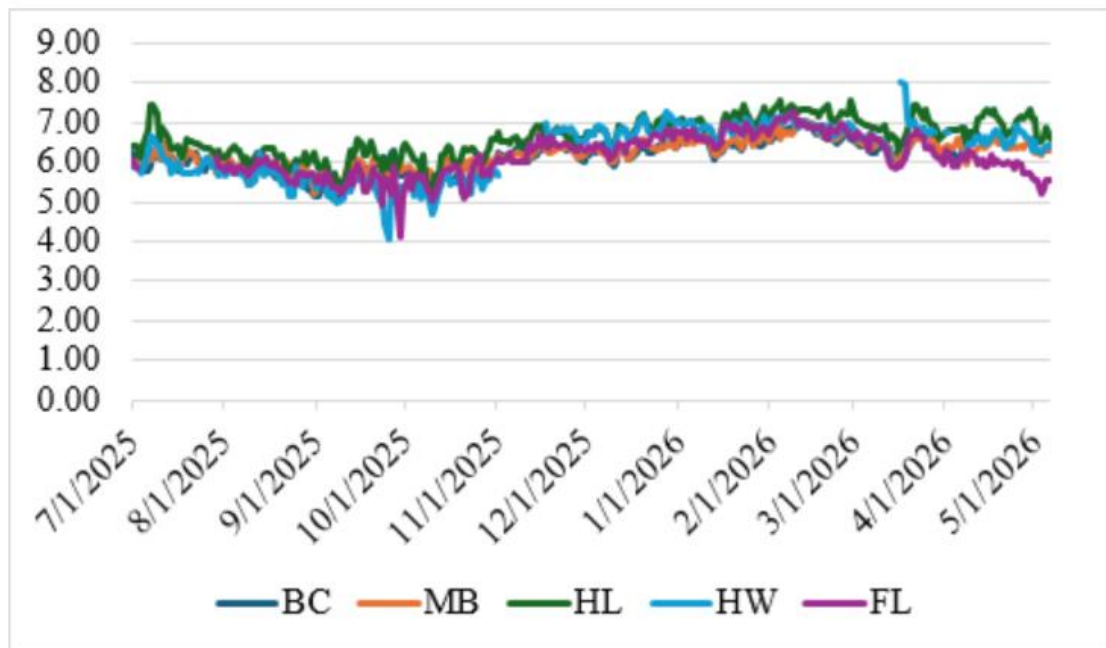


Figure 39. Daily average RDO (Rugged Dissolved Oxygen) (mg/L) at all five coastal sites (BC, MB, HL, HW, and FL) from 07/01/2025 to 05/06/2026.

Turbidity varied substantially among sampling locations and over time, indicating strong spatial and temporal differences in suspended sediment dynamics. Overall, BC consistently exhibited the greatest variability and highest turbidity peaks, with values frequently exceeding 100 NTU and reaching a maximum of 326 NTU in October 2025. Episodic spikes at BC suggest repeated disturbance events, likely associated with stormwater runoff, sediment resuspension, or tidal-driven sediment transport. In contrast, MB remained comparatively stable during much of the study period, generally maintaining low turbidity values (~2–5 NTU) before increasing sharply in early 2026, when concentrations exceeded 400 NTU in April. This delayed increase may reflect seasonal hydrologic changes or localized disturbance events influencing suspended particulate matter (Figure 45).

HL displayed intermediate turbidity conditions characterized by moderate fluctuations and periodic peaks. Elevated values were particularly evident during July–October 2025 and again during February–March 2026, when turbidity commonly exceeded ~50 NTU and reached a maximum of approximately ~120 NTU. These patterns indicate recurring sediment mobilization events but with lower intensity than those observed at BC and MB. HW demonstrated highly dynamic conditions with several prolonged periods of elevated turbidity, especially during late summer 2025 and winter–spring 2026. Turbidity at HW peaked above ~500 NTU in February 2026, representing the highest recorded value among all sites. Such extreme variability suggests strong hydrodynamic forcing and substantial sediment resuspension within this location. FL generally maintained moderate turbidity levels relative to the other stations but exhibited episodic increases during storm-related or high-flow periods. Notable peaks occurred in September–October 2025 and again during spring 2026, with values surpassing 200–300 NTU. Despite these events, FL showed less overall variability than BC and HW, suggesting comparatively more stable sediment conditions.

Collectively, these findings demonstrate that turbidity dynamics differed markedly among sites, likely reflecting differences in hydrology, sediment composition, tidal and current influence, and watershed inputs. Sites with consistently elevated or highly variable turbidity, particularly BC and HW, may experience greater sediment disturbance and reduced water clarity, which can influence nutrient transport, contaminant mobility, and ecological health within the system.

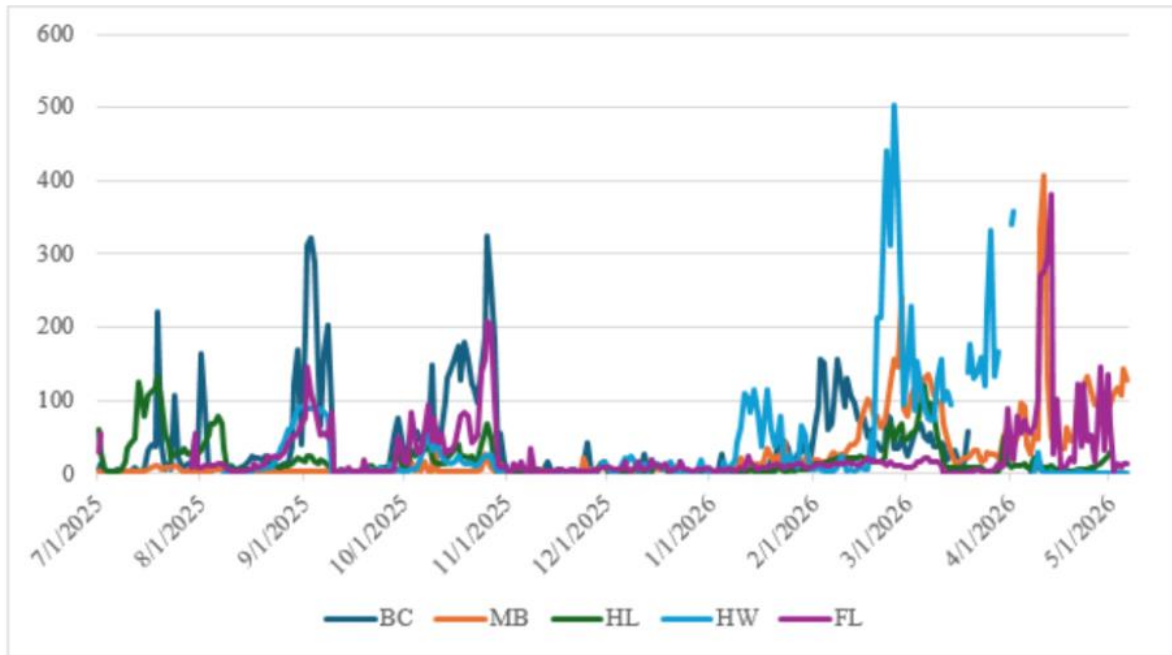


Figure 40. Daily average turbidity (NTU) at all five coastal sites (BC, MB, HL, HW, and FL) from 07/01/2025 to 05/06/2026.

Across the full monitoring period (July 2025–May 2026), the five sites show clear differences in baseline levels, variability, and longer-term salinity trends. MB is consistently the highest and most stable site, remaining tightly clustered around ~41.0–42.9 throughout the dataset with only minor seasonal fluctuation, indicating a strongly buffered or well-mixed condition. BC is slightly lower but similarly stable for much of the record (~40–42), though it shows a gradual decline into late summer and early fall 2025 (down toward ~40.0), followed by partial recovery and continued moderate variability into 2026. HL remains relatively low and tightly constrained (~37.0–38.7) across the entire period, showing only subtle seasonal shifts and suggesting a more stable but consistently lower baseline relative to MB and BC. HW is the most dynamic site, with pronounced temporal variability including periods of sharp decline (notably early spring 2026, dropping into the mid-30s) and intermittent rebounds, indicating strong sensitivity to episodic forcing events or localized environmental change. In contrast, FL shows the most notable long-term shift, remaining near ~37–38 through late 2025 but then increasing markedly in March–April 2026 to ~40–41, where it stabilizes at a higher plateau. Overall, the dataset reflects a system with a consistently high and stable core site (MB), moderately stable intermediate sites (BC and HL), a highly variable responsive site

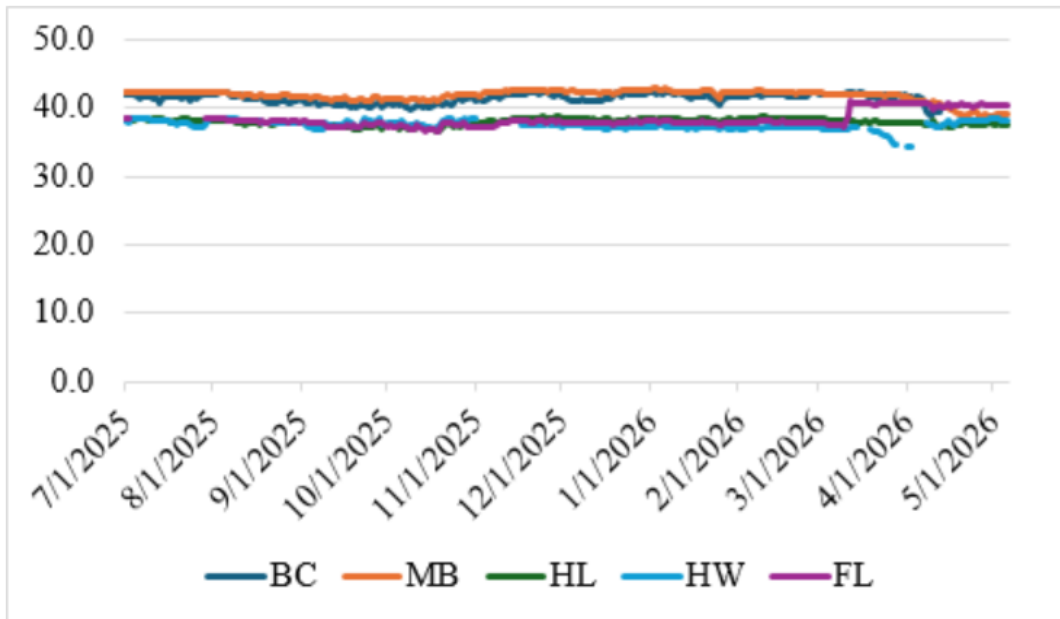


Figure 41. Daily average salinity (PSU) at all five coastal sites (BC, MB, HL, HW, and FL) from 07/01/2025 to 05/06/2026.

(HW), and a transitional site (FL) that undergoes a clear regime shift in early 2026 (Figure 46).

Pressure measurements remained relatively stable across all coastal sites during the monitoring period. The major differences are due to water depth per location and the minor differences among sites reflect tidal conditions, but overall trends were highly consistent spatially and temporally (Figure 47).

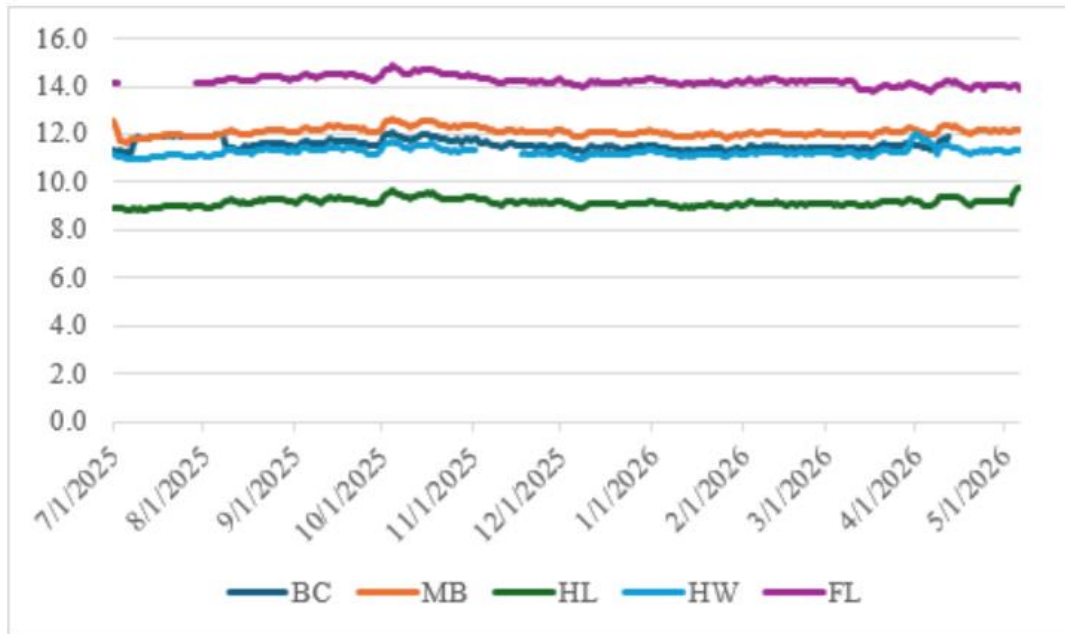


Figure 42. Daily average pressure (psi) at all five coastal sites (BC, MB, HL, HW, and FL) from 07/01/2025 to 05/06/2026.

4. CONCLUSIONS AND RECOMMENDATIONS

This study demonstrates strong spatial and temporal variability in sedimentation and abiotic conditions across coral reef (1N, 2N, 3N, 1S, 2S, and 3S) and coastal (BC, MB, HL, HW, FL) environments in Southeast Florida from July 2025–May 2026, highlighting the influence of seasonal forcing, freshwater inputs, and episodic disturbance events. Sedimentation increased markedly over time at coral reef sites with 1N emerging as a persistent hotspot (up to ~130–162 g/day) and system-wide increases observed across all reef locations. Coastal sites also showed pronounced seasonality with fall peaks (BC up to ~140 g/day) followed by winter–spring declines and shifting dominance among sites, particularly MB during later periods.

Abiotic conditions followed strong seasonal cycles, with warm summer temperatures (~29–33°C) declining to winter lows (~21–25°C) and rebounding in spring. Dissolved oxygen tracked temperature trends, decreasing in summer and increasing in winter, while pH remained relatively stable but higher offshore. Salinity showed clear spatial gradients, with offshore sites (notably MB and 3N) most stable and nearshore sites most variable due to likely freshwater influence. Turbidity exhibited episodic, high-magnitude spikes, particularly at nearshore reef sites (1N, 1S) and coastal sites (BC, HW), indicating strong event-driven sediment resuspension and runoff influence. Pressure remained stable and primarily depth-dependent across all locations.

Overall, the results indicate that reef and coastal systems are primarily structured by seasonal climate forcing but are strongly modified by short-term episodic events that drive extreme sediment and turbidity fluctuations. These dynamics create highly variable exposure conditions for coral reef communities, particularly at nearshore and high-variability sites.

We recommend continued high-resolution, multi-site monitoring of abiotic conditions and sedimentation to capture both seasonal trends and short-lived disturbance events that disproportionately influence reef exposure. Maintaining the AquaTroll 600 sonde network and sediment trap deployments will strengthen the ability to detect early warning signals of environmental stress. Integration of abiotic monitoring with biological indicators (e.g., coral health, recruitment, bleaching, and disease prevalence) is essential to directly link environmental variability with ecosystem responses. In addition, newly deployed acoustic Doppler current profilers at two sites (near 3N and MB) will provide essential current data that can be linked with sedimentation rates, turbidity, and other abiotic variables to improve understanding of site-specific hydrodynamic conditions.

Further, targeted investigation of freshwater inputs and land-based sources is recommended to better resolve drivers of nearshore variability, particularly for sites such as 1N and 1S that consistently show elevated sedimentation and turbidity. Expanding watershed-to-reef linkages, including canal and runoff monitoring, would improve identification of sediment and nutrient sources impacting reef systems.

These combined efforts will support improved forecasting of disturbance impacts, enhance restoration planning, and strengthen adaptive management strategies aimed at protecting Florida’s Coral Reef under increasing climate and coastal development pressures.

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