

Lake Taupo long term monitoring programme 2015 - 2016

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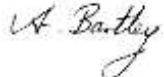
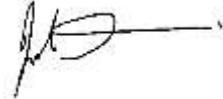
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Executive summary

Waikato Regional Council has commissioned a long term programme to monitor water quality of Lake Taupo with the expectation that the trophic status will slowly change to reflect changes in land use within the lake's catchments. This programme commenced in October 1994 and is conducted by NIWA with field assistance from the Department of Internal Affairs, Taupo Harbourmaster's Office. This report presents the results from the 2015-2016 monitoring period.

The monitoring programme was designed to detect change through assessment of the lake's water quality.

The long-term monitoring programme uses the historical mid-lake site, Site A. Previous work determined that the near-shore water quality was very similar to the mid-lake water quality.

During this monitoring year, the maximum chlorophyll *a* concentration measured on 30 July 2015 after the lake had mixed (2.7 mg m⁻³) was lower than in the previous year (3.8 mg m⁻³). Chlorophyll *a* concentration in the upper water column was low (0.3-0.6 mg m⁻³) in October 2015 - February 2016, consistent with previous years. There was no statistically significant trend in chlorophyll *a* since 2000. There was no statistically significant trend in the day of the year at which chlorophyll *a* was highest and the average day was 13 August.

Diatoms dominated the algal biomass much of the year at 0-10 m depth, and even more so at 50 m depth. The main diatom species were *Fragilaria crotonensis* and *Aulacoseira granulata*. During summer chlorophytes mostly dominated up to May-June 2016, with occasional peaks of diatoms and flagellates during summer. Chlorophyte cell numbers during summer were made up of more or less equal amounts of *Monoraphidium sp.*, *Oocystis sp.*, and *Volvox aureus*, while chlorophyte biomass was mostly *Botryococcus braunii* colonies and *Oocystis sp.* *Oocystis* was common throughout most of the year. Cyanobacteria were highest in February-March 2016 (*Dolichospermum c.f. lemmermannii*), both in total biomass and proportionally. At the approximate depth of the deep chlorophyll maximum (50 m), diatoms (*Fragilaria crotonensis*, *Aulacoseira granulata*, *Asterionella formosa*, in order of importance) dominated through most of the year, punctuated by occasionally high chlorophyte biomass in summer and in June 2016 (*Botryococcus braunii* colonies and *Eudorina elegans*), and high flagellate biomass around February 2016. At 50 m depth, cyanobacteria were highest in January 2016, and a lower peak occurred in February 2016. Cyanobacteria never dominated the phytoplankton biomass during this monitoring year, neither in the surface layer nor around the depth of the deep chlorophyll layer.

The mean summer (January-April 2016) water surface temperature was 19.7 °C. The surface temperature was highest in February 2016 (22.3 °C) and lowest in August 2015 (10.8 °C). There has been no statistically significant trend in annual mean water surface temperatures, or in annual mean temperatures at any depth. However, there has been a statistically significant decrease in the temperature difference between the surface layer and bottom water during winter, the opposite of the expected effect in a deep lake from a warming climate. There is evidence for increased mixing during winter and for an increase in the duration of the winter mixing period, although the mixing period in 2015, which lasted about 50 days, was shorter than in 2014 (90 days). The observed decrease in the temperature gradient between deep and shallow water layers resulted in an enhanced potential for vertical mixing, and enhancing access to dissolved nutrients for algae in the surface layer. Nutrients which accumulate in the hypolimnion during summer by decomposition of organic material produced in the epilimnion, are mixed back up during winter to the epilimnion

where the nutrients are used by algae to grow. This mechanism to enhance algal growth was reflected by a strong relationship between algal biomass (chlorophyll *a*) during winter and the wintertime mean temperature gradient between the upper mixed layer and the hypolimnion. In other words, in winters with low temperature gradients, algal growth is enhanced in Lake Taupo. And similarly, the shorter mixing season in 2015 compared with 2014 was in line with a lower algal biomass during winter 2015 compared with 2014.

Various explanations may be possible for what has caused the increase in winter mixing since 1994, posing an interesting subject for further study. Possible explanations for a decrease in mean winter temperature gradients and an increased potential for mixing are: increased geothermal heat inputs, increased temperatures of river water inputs, or an increasing trend in wind speeds.

The monthly mean temperature difference between the lake surface and the air ($T_s - T_a$), the latter measured at a weather station in Taupo, was on average 3.09 °C since 1995, and 2.83 °C in this monitoring year. There has been no statistically significant trend in this temperature difference. Monthly mean $T_s - T_a$ was highest during winter (5.12 °C in July 2015). The lowest was in October 2015 (0.09 °C). High winter time $T_s - T_a$ results in cooling of the lake surface by heat loss to the atmosphere.

In April 2016 the lowest value of dissolved oxygen of 7.9 mg m⁻³ occurred at 130 m depth. The average annual minimum concentrations since 1995 were 7.2 mg m⁻³ at 130 m depth and 7.0 mg m⁻³ at 150 m depth. The minimum dissolved oxygen concentrations in 2015-2016 was above the average. There was a slight, but statistically significant, increase in annual minimum dissolved oxygen concentrations in the hypolimnion since 1999, possibly as a result of the increase in the winter mixing period since 1995. With an earlier onset of the winter mixing the decline in dissolved oxygen by consumption during the stratified season stops earlier, resulting in less extreme minima in dissolved oxygen concentrations.

Lowest water clarity values, in August 2015 (10.0 m), corresponded with high chlorophyll *a* concentrations (2.2 mg m⁻³). Water clarity was highest, although variable, from mid-September to March (14 to 18 m). There was a negative correlation ($R^2 = 0.31$) between Secchi depth and chlorophyll *a* in 2015-2016. There was also a reasonable inverse correlation between annual means of Secchi depth and chlorophyll *a* since 2000 ($R^2 = 0.35$). There was no statistically significant trend in water clarity since 2000. There was no trend in the day of the year at which Secchi depth was lowest and the average day was 3 September. There were no statistically significant trends in the annual minimum or maximum Secchi depths, or in the difference between the annual minimum and maximum.

During the winter overturn, the nutrients (nitrate and dissolved phosphorus), that had accumulated in the hypolimnion during summer, were mixed through the entire water column and as a result their concentrations dropped in the hypolimnion. The winter of 2015 showed a prolonged winter period of low nitrate and dissolved phosphorus in bottom water, as seen as well in the winter of 2014, compared with previous years. However, the winter mixing of 2015 in terms of the temperature gradient in the water column (0.43 °C difference between 20 m and 130 m depth) was close to the average since 1994 (0.44 °C), as was the duration of winter mixing in 2015 of 49 days, compared with the average since 1994 (45 days).

The maximum concentration of nitrate in the hypolimnion at the end of the stratified season in 2016 was less than in any other year (data since 2000). This was in sharp contrast to the winter of 2014 when the maximum concentration of hypolimnetic nitrate was exceptionally high. The maximum concentration of dissolved phosphorus was similar to that in previous years.

1 Introduction

A long-term monitoring programme of Lake Taupo's water quality was commissioned by Waikato Regional Council in October 1994 in the expectation that the trophic state of the lake would change to reflect changes in land use within the lake's catchment. This programme is conducted by NIWA with field assistance from the Department of Internal Affairs, Taupo Harbourmaster's Office. Various additions and improvements to the monitoring methodology have occurred with advances in available technology, but the core monitoring parameters remain unchanged (Appendix 1). This report presents data from the routine mid-lake monitoring station from July 2015 to June 2016. Additional information collected between July 2016 and the time of writing this report has also been included in the data sets in the appendices and in several of the figures.

In two earlier reports (Gibbs 2005, 2006), data were included from two additional offshore sites representing those historically sampled in the 1974-76 assessments of lake water quality (White et al. 1980) (Figure 1) to evaluate spatial variability of water quality across the lake. Results from these two additional sites showed that, in general, there were minimal differences between the sites in seasonal variation, and that data collected from Site A (mid lake) could be used as representative of the main body of the lake. Subsequently, a comparison of upper water column nutrient and chlorophyll *a* concentrations and algal abundance was made between Site A and near-shore sites in Whangamata Bay (Kinloch) and Whakaipo Bay (Figure 1), over a 2-year period from February 2007 up to June 2009 (Gibbs 2010a). That study determined that, although there were small differences, the near-shore water quality was very similar to the mid-lake water quality. This report presents data from Site A only.

The monitoring programme examines algal biomass, upper water layer water quality, whole water column water quality, and dissolved nutrient concentrations in bottom water. In order to enable understanding of processes contributing to changes in water quality and trophic state, the upper water column (0-10 m depth) is sampled for nutrients, chlorophyll *a*, phytoplankton species composition and water clarity at 2-3 weekly intervals, and full depth profiles are carried out twice a year, at the onset stratification and at the end of the stratified period. The first profile is taken in spring or early summer when thermal stratification has become established and is stable, the second profile is taken in autumn the following year before thermal stratification begins to break down, as the thermocline deepens.

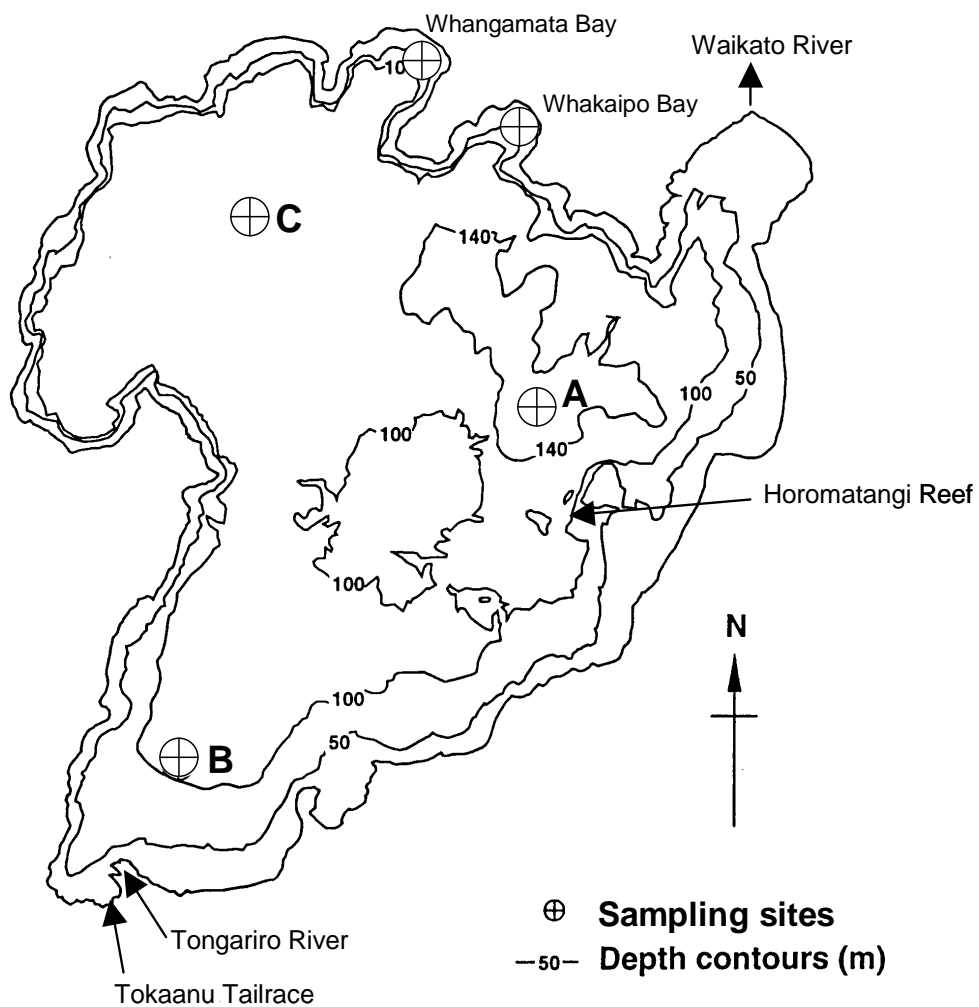


Figure 1: Site map of Lake Taupo. Showing location of the routine monitoring site at mid lake (A), and the two additional sites at Kuratau Basin (B) and the Western Bays (C) sampled during the three-year period 2002-04. The near-shore comparison sites at Whangamata Bay and Whakaipo Bay sampled during a two-year period 2007-09 are also shown.

2 Methods

Detailed method descriptions are given in Appendix 1. The parameters routinely measured or derived by calculation from component parameters at 2-3 weekly intervals are:

- depth-related temperature and dissolved oxygen (DO), using a RBR XR420f CTD profiler until January 2008, thereafter using a RBR XR620f CTD profiler. Additional parameters of conductivity and chlorophyll fluorescence, and since January 2008, PAR, recorded by the profiler sensors are available at NIWA and will only be reported as appropriate
- water clarity by Secchi disc depth (20 cm black and white quartered)
- chlorophyll α , nitrate+nitrite-nitrogen ($\text{NO}_3\text{-N}$), ammoniacal-N ($\text{NH}_4\text{-N}$), dissolved organic N (DON), particulate-N (PN), dissolved reactive phosphorus (DRP), dissolved organic phosphorus (DOP), particulate phosphorus (PP), and algal species composition and biovolume in integrated-tube water samples from the top 10 m. Concentrations of total nitrogen (TN) and total phosphorus (TP) are estimated by summing the respective measured fractions. Zooplankton net hauls from 100 m (63 μm mesh) are preserved in 4% formalin and stored pending analysis.

Since 2000, water samples have also been collected using a van Dorn water bottle from just above the lake bed (150 m) for analysis of $\text{NO}_3\text{-N}$, $\text{NH}_4\text{-N}$, and DRP to assess nutrient accumulation rates in the hypolimnion and to assess the extent of winter mixing.

From the 2010/2011 monitoring period on, inclusive, water samples have also been collected by van Dorn water sampler from a depth of 50 m for analysis of chlorophyll α to assess the magnitude of the phytoplankton in the deep chlorophyll maximum around the thermocline.

Whole water column sampling is carried out twice a year in spring and autumn and the parameters measured (or derived by calculation from component parameters) at 10 m depth intervals from the surface down to 150 m depth are:

- Conductivity, pH, temperature, DO, DRP, DOP, PP, TP, $\text{NO}_3\text{-N}$, $\text{NH}_4\text{-N}$, DON, PN, TN, urea nitrogen (Urea-N), total suspended solids (SS), volatile suspended solids (VSS), particulate carbon (PC), and dissolved organic carbon (DOC).

Additional parameters measured twice yearly, but not as complete profiles are:

- Algal species composition and biovolume on water samples from 1, 10, 50, 100 and 140 m depth.

Details of data handling and the treatment of values that are near analytical detection limits are described in Appendix 1.

2.1 Report contents

This report presents the results from the 2015/16 period, from winter 2015 to winter 2016, and refers to data in previous annual monitoring reports from 1995 to 2015 for inter-annual comparisons, and archived historical data since 1974 held by NIWA. The methods used are as per the 1994/95 report (Gibbs 1995) and are included in Appendix 1. Temperature and dissolved oxygen data from the past twenty one years are given in Appendix 2 and nutrient data are in Appendix 3. Graphical presentations of time-series of temperature, dissolved oxygen, and Secchi disc depth data

collected since the start of this monitoring programme are updated and presented in figures in the text. Phytoplankton species composition and biovolume data are included in Appendix 4, which contains phytoplankton data since 2006, and are discussed in the text. Historical (before 1994) nitrate and dissolved reactive phosphorus data from spring and autumn full lake profiles are presented in Appendix 5 for reference.

2.2 Statistical evaluation

Simple statistical evaluation of data has been made using Microsoft Excel®.

3 Results and discussion

3.1 Temperature and mixing

The time-series of temperature at 0, and 10 m depth (epilimnion) and 130 m depth (hypolimnion) collected in the monitoring programme since 1994 are presented in Figure 2. Annual maximum temperatures at 0 m depth were between 18 °C and 23 °C (Figure 2). In most winters the water column becomes isothermal and mixing occurs but mixing was incomplete in the winter of 1998.

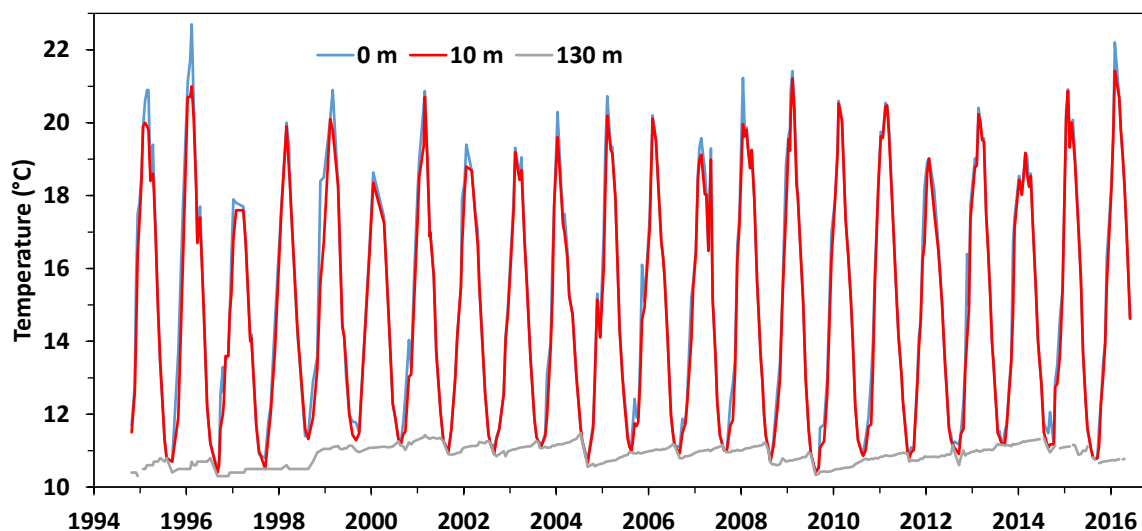


Figure 2: Time-series temperature data. Water temperatures at 0, 10 and 130 m. X-axis tick marks indicate 1 January of each year.

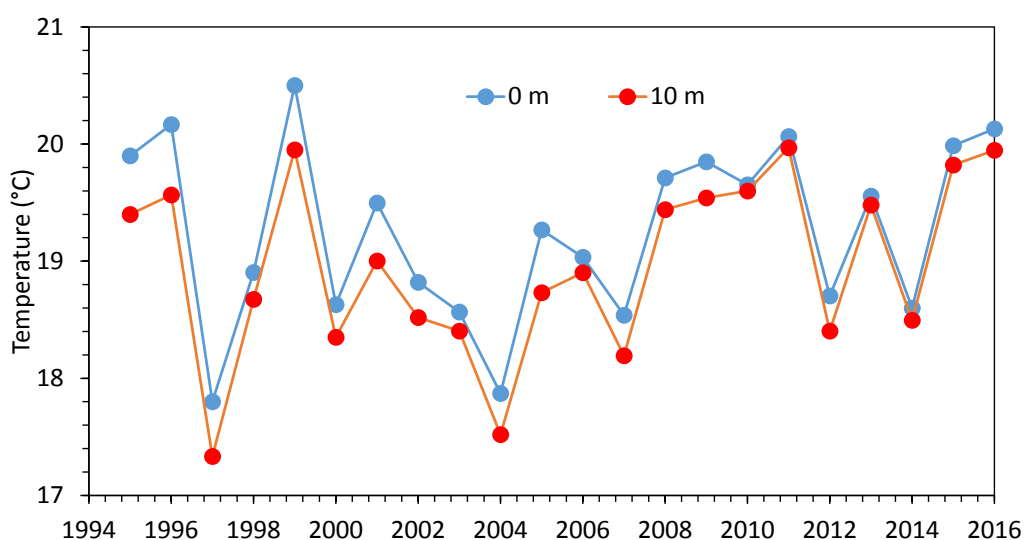


Figure 3: Mean summer (January-March) water temperatures at 0 and 10 m depth.

Summers were cooler in the early 2000s (Figure 3). The summer of 2016 was relatively warm as was the previous year. In the monitoring year 2015-2016 the surface temperature was highest in February (22.3 °C; see also Figure 25) and lowest in August and September (10.8 °C). There has been no statistically significant change in annual mean water surface temperatures since 1995 (Figure 26).

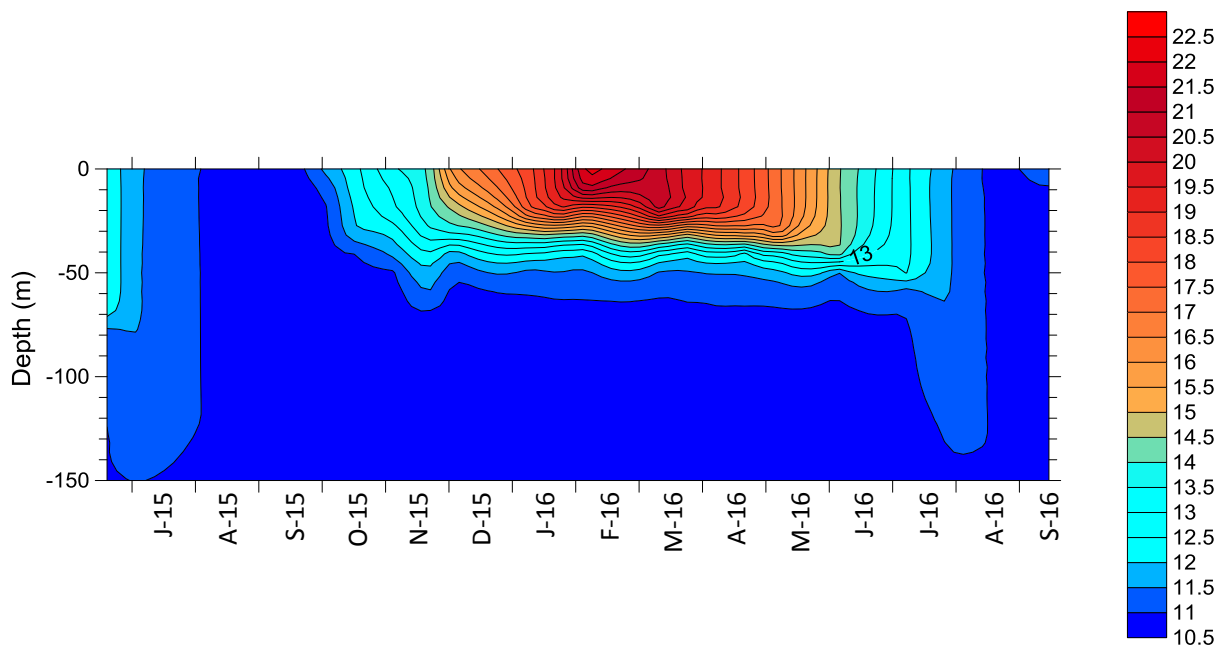


Figure 4: Contour plot of water temperatures (°C) from 18 June 2015 to 12 September 2016.

A contourplot (Figure 4) shows the onset of stratification in early October 2015, the deepening of the thermocline throughout summer, and the overturn in July - August 2016. The mixing period in the winter of 2015 lasted about seven weeks. The temperature difference between 20 m and 130 m depth was between -0.01 °C and 1.38 °C from July to October 2015. The average in July-October 2015 was 0.43, similar to the long term mean of 0.44 °C. It was higher than in the previous winter of 2014 (0.15 °C; Verburg and Albert 2016), although mixing in August 2015 was more complete, as shown by the minimum temperature difference (-0.01 to 0.00 °C on two sampling dates), than in the winter of 2014 when the minimum temperature difference between 20 m and 130 m depth was 0.03 °C.

Full mixing started later in 2015 (early to mid August) than in 2014 (3rd week of July), but the surface water became cooler than in the winter of 2014, probably because of lower air temperatures (see also Figure 11) or wind speeds in the winter of 2015.

Temperature depth profiles (Figure 5) show cooling from 2 July to 27 August 2015, with the water column isothermal from 30 July 2015, while the column continued to cool until 27 August 2015. This was followed by warming until 3 February 2016. Cooling started again from February and continued until the end of the monitoring year. The surface mixed layer ranged from 9 m deep in February 2016 to 41 m deep in June 2016. There was a sharp drop in mixed layer depth between February and March 2016 while the surface started cooling. Mixed layers and the thermocline were most clearly defined in the cooling part of the season, from February to June.

The lake was so well mixed on 27 August 2016 that the pressure effect on temperature showed. There was an increase of 0.01 °C in *in situ* temperature with depth increasing from 20 m to 150 m, as expected in a fully mixed water column by the effect of pressure. This effect is only noticeable in sufficiently deep lakes which must be thoroughly mixed (for a comparison of *in situ* and potential temperatures in a deeper lake, see Verburg and Hecky 2009). Surface temperature on 27 August 2016 was slightly higher than at 150 m, by 0.003 °C, as a result of the effect diurnal warming in the surface water. A temperature increase with depth did not occur at any other time during the year, including in the hypolimnion during the stratified season. A temperature increase with depth and between 20 m and 150 m depth occurred on only 5 occasions previously (in each case an increase also occurred between 20 m and 130 m), in the winters of 2000, 2004, 2007 (two sampling dates), and 2008.

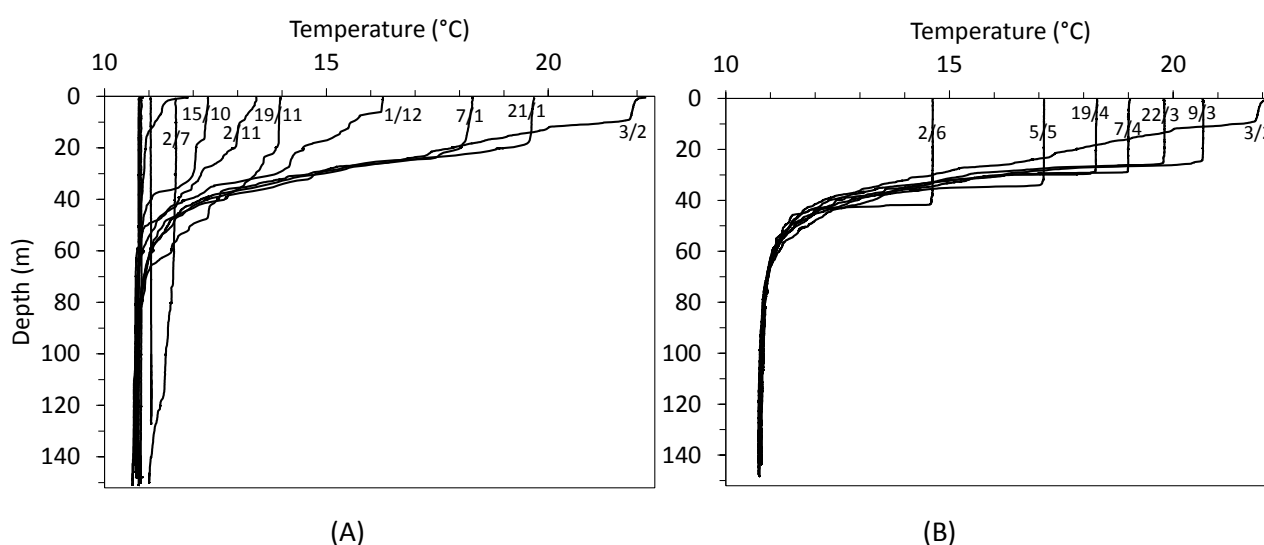


Figure 5: Temperature profiles. A) Cooling from 2 July to 27 August 2015, with the water column isothermal from 30 July 2015 while continuing to cool until 27 August 2015, followed by warming until Feb 2016. B) Cooling from 3 February 2016 to 2 June 2016.

3.1.1 Trends in temperature and mixing

Summer mean water surface temperatures have increased since 1998 ($p < 0.05$) as in many lakes around the world (O'Reilly et al. 2015). There have been no statistically significant trends in winter or annual mean water surface temperatures (Figure 6). The winter 2015 mean water surface temperature was slightly below the long term average and the summer 2016 mean was above the long term average.

Vertical mixing in the water column during winters has increased in Lake Taupo since 1994, which is the opposite of what would be expected in a deep lake in a warming climate (Verburg et al. 2003). Climate warming tends to result in lake surface temperatures warming faster than deep temperatures. In Lake Taupo, temperature differences between 20 m depth and 130 m depth ($T_{20m} - T_{130m}$) that were < 0.3 °C have occurred only in the months of July to October since 1995. $T_{20m} - T_{130m} < 0.2$ °C has occurred as well in each of the months from July to October and in no other months. The average $T_{20m} - T_{130m}$ in July-October (Figure 7) decreased significantly since 1995 ($p < 0.01$ and $R^2 = 0.32$). It must be kept in mind that the number of CTD casts per winter (July-October) were not the same between years (varied from a minimum of four in 1995 to a maximum of eight in 2005, average

5.7) and that CTD casts were not equally spaced in time through each winter period, which may have resulted in a bias. The Taupo automatic monitoring station has provided water temperature profiles at fixed time intervals (Verburg 2016) with high frequency (1 minute) since March 2015, but that is too short for analysis of changes in the mixing regime. However, as shown last year (Verburg and Albert 2016), the number of profiles where $T_{20m} - T_{130m}$ was <0.2 °C or <0.3 °C, as a percentage of the total number of CTD profiles collected during July-October each year, increased as well.

The decrease in mean winter temperature depth gradients and increased potential for mixing may be explained by, for instance, an increased trend in geothermal heat inputs, by increased temperatures of river water inputs, or by an increasing trend in wind speeds. This subject poses an interesting subject for further study. It merits further investigation in view of its implications for algal growth in the lake. Lower mean winter temperature depth gradients allow a greater rate of return of nutrients, which accumulate during summer in the hypolimnion by decomposition of organic material produced in the epilimnion, back to the epilimnion where these nutrients are used by algae to grow. As a result the algal biomass is greatest during winter in Lake Taupo and the mean algal biomass during winter is strongly correlated with the mean temperature depth gradient (Figure 10).

There was no statistically significant trend in mean winter or annual air temperatures at the Taupo Automatic Weather Station (Figure 11) since 1995 (data down loaded from the NIWA climate data base).

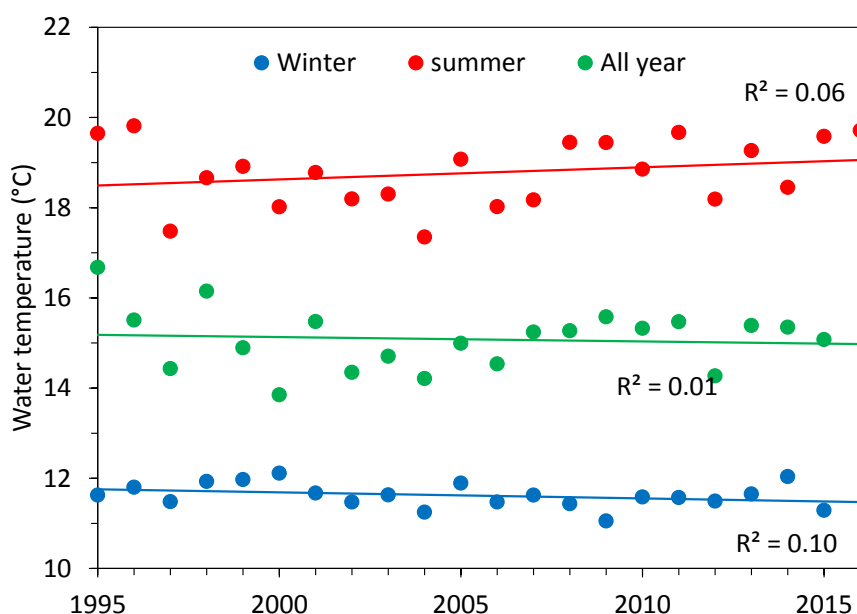


Figure 6: Temperature trends. Mean winter, summer and annual surface temperatures. The increase in summer since 1998 was statistically significant ($p < 0.05$).

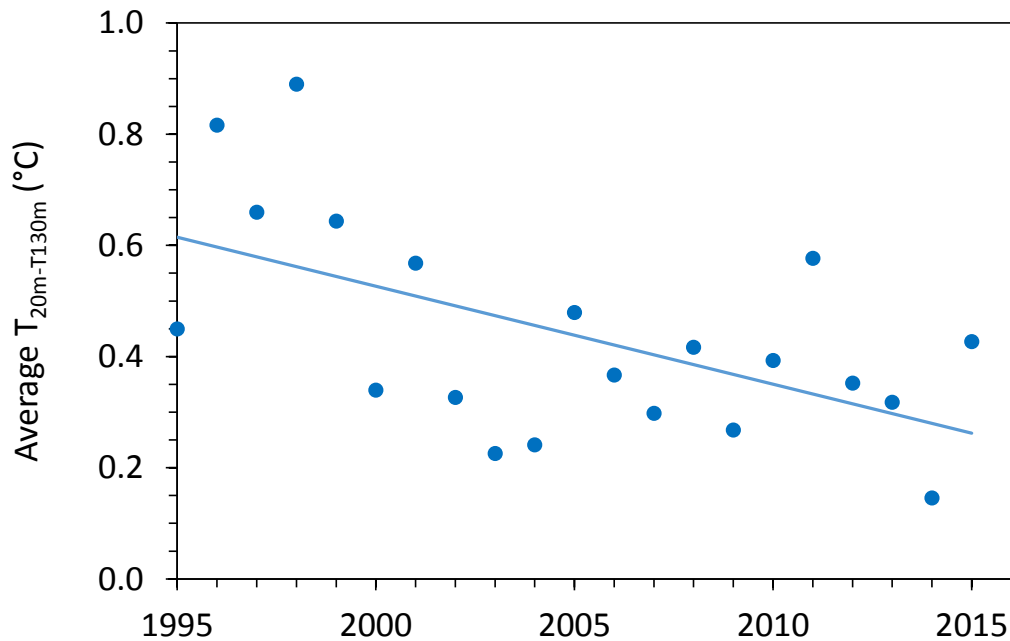


Figure 7: The average difference between temperatures at 20 m depth and at 130 m depth during July to October. $R^2 = 0.32$, $p < 0.01$.

The winter mixing period, as defined by the time between first and last depth profile in which $T_{20m} - T_{130m}$ was <0.3 °C, has increased (Figure 8). However, the mixing season in 2015, 49 days, was shorter than in 2014 (nearly 3 months). This analysis is from necessity imprecise. On average there were only 3.3 profiles per year where $T_{20m} - T_{130m}$ was <0.3 °C and 1997, a year with only one profile where $T_{20m} - T_{130m}$ was <0.3 °C, does not show in Figure 8. We don't know what temperature gradients may have been shortly before or after these dates or in the intervening periods. Therefore, the estimate of the duration of the mixing period is imprecise and is likely to be an underestimate. Data of the Taupo Monitoring Buoy (Verburg 2016), because of its far higher measurement frequency, are more suitable to derive estimates of the duration of the mixing period and its intensity. Nevertheless, the period of winter mixing appears to have increased ($R^2 = 0.31$, $p < 0.05$, for 1995 to 2015). The trend line suggests that the period where $T_{20m} - T_{130m} < 0.3$ °C about doubled since 1995.

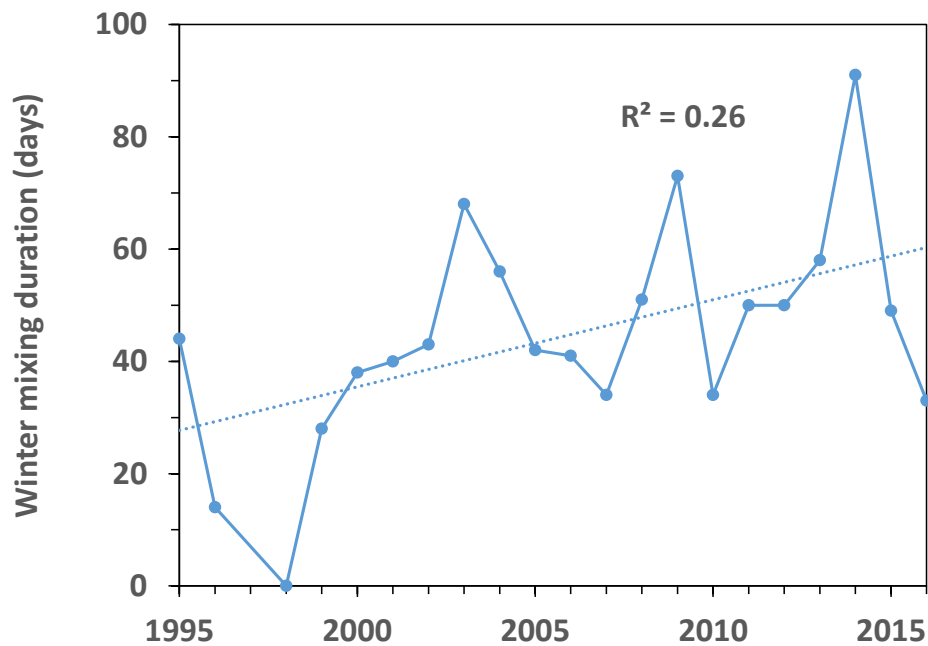


Figure 8: Number of days of winter mixing periods ($T_{20m}-T_{130m} < 0.3\text{ }^{\circ}\text{C}$). $R^2 = 0.31$, $p < 0.05$, until winter of 2015. The figure also includes winter of 2016 ($R^2 = 0.26$, $p < 0.05$).

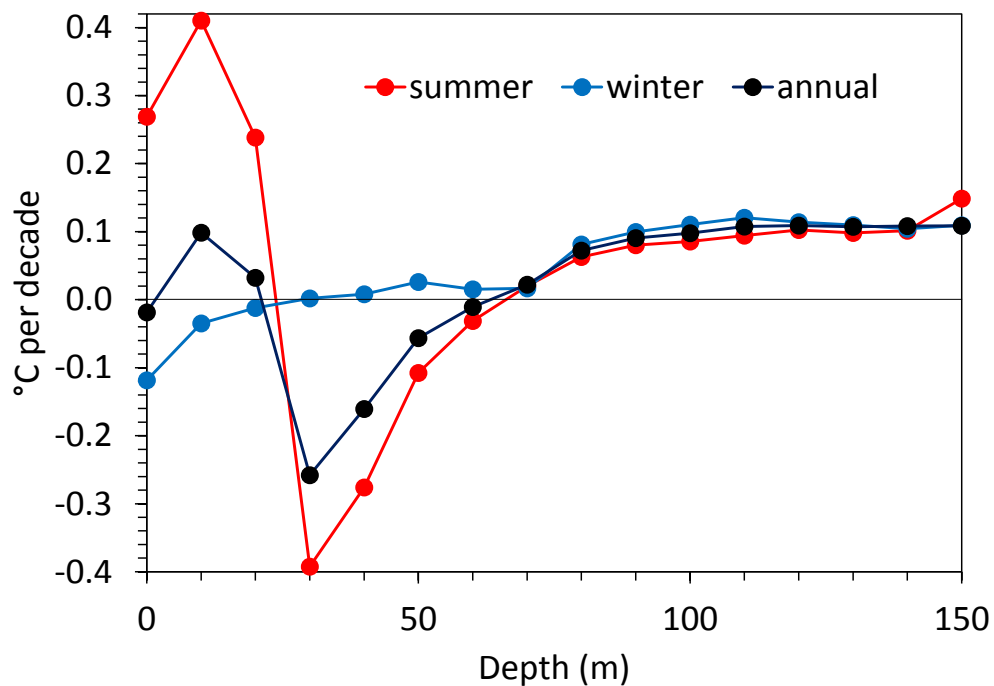


Figure 9: Trends in temperature by depth in 1995-2016, for seasons and annual means. The decreasing trend at 30 m depth in summer was statistically significant ($p < 0.05$) but no other trend was statistically significant.

Analysis of temperature trends at specific depths (Figure 9) showed that summer time temperature at 30 m depth decreased by 0.4 °C per decade ($p < 0.05$) since 1995, while an increase at the surface during summer was statistically significant since 1997 ($p < 0.05$). Trends at other depths were not statistically significant.

There was statistically significant correlation ($p < 0.00002$) between the winter (July to October) mean chlorophyll a and the winter mean temperature difference between 20 and 130 m depth (Figure 10), confirming that winters with low temperature gradients enhance algal growth. A negative correlation between mean chlorophyll a and the number of days each year where $T_{20m} - T_{130m} < 0.3$ °C, was statistically significant as well ($p < 0.001$). The inter-annual variability in winter mixing that has occurred since 1995 resulted in a more than two fold range in mean winter chlorophyll a . The finding of increased algal biomass as a result of increased potential for vertical mixing across years underlines the importance of a consistent long term monitoring program with sufficient sampling frequency.

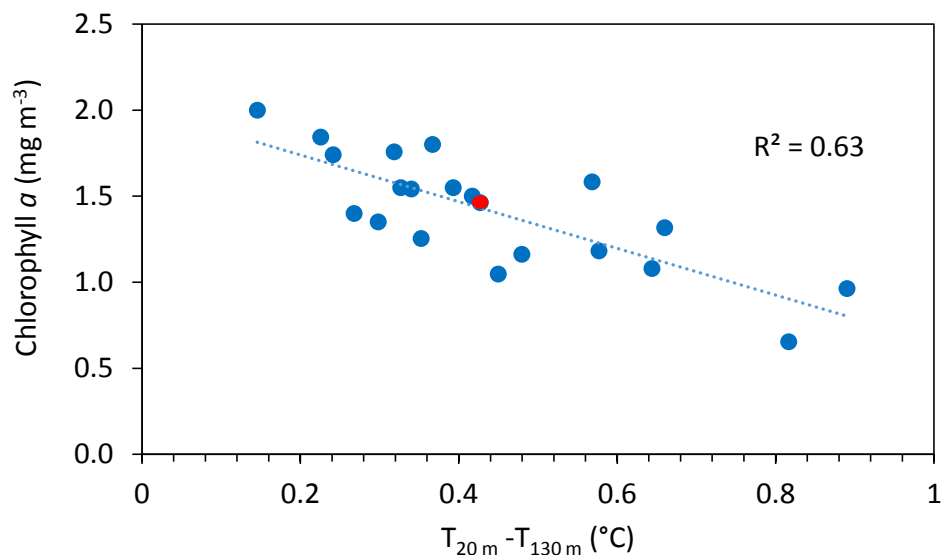


Figure 10: Winter (July-October) mean chlorophyll a concentration against the mean temperature difference $T_{20m} - T_{130m}$ during winter. Winter of 2015 indicated by red dot. $R^2 = 0.63$, $p < 0.00002$.

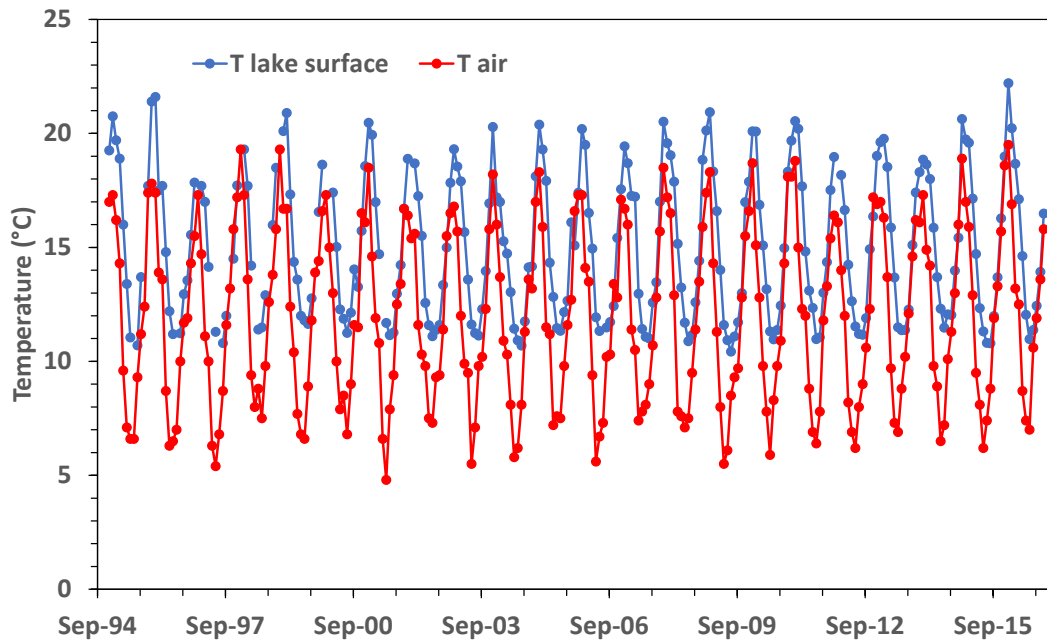


Figure 11: Lake surface temperature and monthly mean air temperature. Air temperature from the Taupo Automatic weather station (NIWA Climate data base).

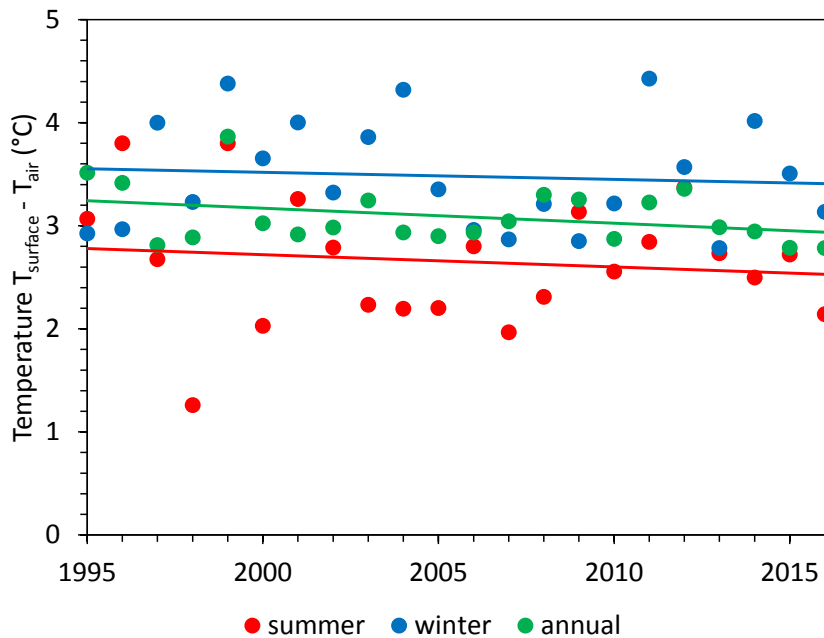


Figure 12: Winter, summer and annual mean temperature differences between the lake surface and air.

Annual maximum water surface temperatures correlated with annual maximum monthly mean air temperatures (Figure 11. $R^2 = 0.38$, $p < 0.005$; up to end of 2016). Mean summer (January-March) water surface temperatures also correlated with mean summer air temperatures ($R^2 = 0.40$, $p < 0.002$).

In winter, the temperature of the water surface remains up to about 5 °C above monthly mean air temperatures (Figure 11). Naturally, night time air temperatures likely drop further (Figure 11 shows monthly mean air temperatures, night time included), while there will be much less change in water surface temperatures between day and night because of the thermal inertia of water (Figure 11 shows only mean water temperature measured in the daytime). The cold air contributes to the cooling of the lake during winter by sensible heat loss while heat loss by evaporation will be highest as well during winter when air temperatures are well below the temperature of the lake (Verburg and Antenucci 2010). The lake surface is warmer than the air in summer as well but not as much as during winter.

There were no statistically significant trends in mean summer, winter or annual mean temperature differences between the lake water surface and air (Figure 12). The monthly mean temperature difference between the lake surface (daytime measurements only) and the air ($T_s - T_a$) was on average 3.09 °C since 1995, and 2.83 °C in this monitoring year. The temperature difference between the lake surface and the air at the Taupo automatic monitoring buoy (Verburg 2016) was less, 1.87 °C, because of an about 1 °C higher mean air temperature over the lake compared with on land, as a result of heat exchange between the lake and the atmosphere. In addition, the Taupo buoy data include night time measurements of lake surface temperature. In this monitoring year monthly mean $T_s - T_a$ was always positive and lowest in October 2015 (0.09 °C, using Taupo Aws data).

3.2 Dissolved oxygen

During summer, dissolved oxygen decreases - in deep water because of consumption during decomposition of organic matter, and in shallower water because warmer water can contain less oxygen and a surplus is released to the atmosphere (Figure 13). Because Lake Taupo is large and has a long residence time (11 years), oxygen consumption is likely mostly based on autochthonous carbon, i.e., carbon fixed in the lake by phytoplankton, as opposed to organic matter entering from the catchment. During winter, dissolved oxygen increases in the bottom water because of mixing with shallower water richer in oxygen. Dissolved oxygen during summer rarely dropped below 7 mg m⁻³ at any depth since 1994. In April 2016 the lowest value at 130 m depth was 7.9 mg m⁻³, which was above the average annual minimum concentration since 1995 of 7.2 mg m⁻³.

Figure 14 shows the high concentrations of oxygen throughout the water column during winter and the depletion of oxygen during the 2015-2016 summer in more detail. Oxygen concentrations in the hypolimnion started to increase again from about July. Figure 14 also shows that when the water column is isothermal (Figure 4) oxygen is not fully mixed throughout the water column. During summer, oxygen concentrations were highest at about 30 m depth (Figure 14) just above the depth of the deep chlorophyll maximum where concentrations of algal biomass are high during summer (Figure 20).

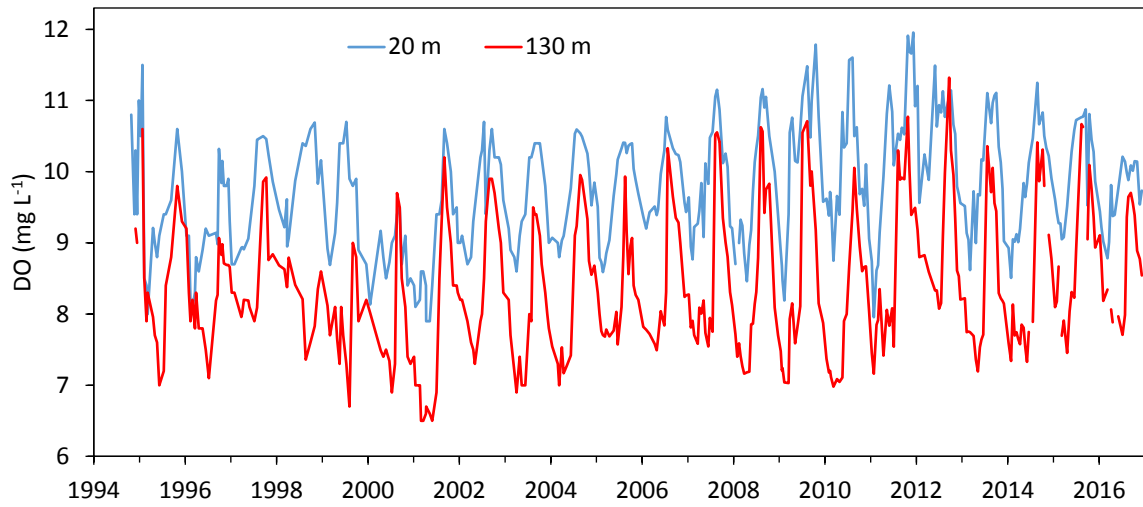


Figure 13: Dissolved oxygen at 20 m and 130 m depth.

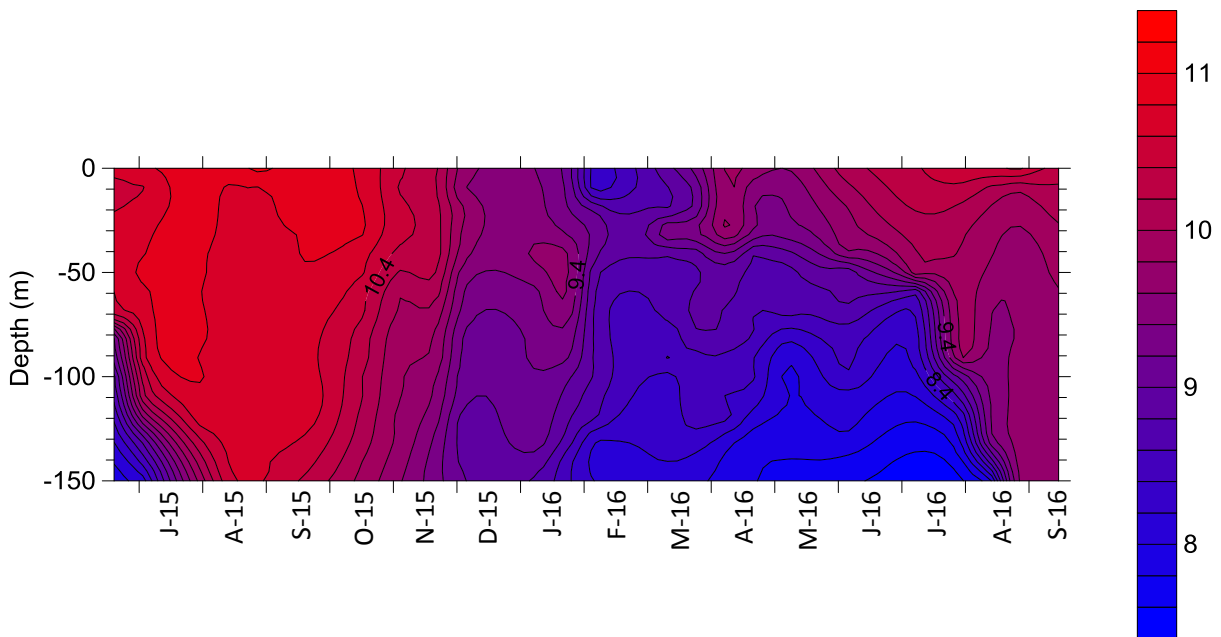


Figure 14: Contour plot of oxygen (mg L^{-1}), 18 June 2015 – 12 September 2016.

The annual minimum oxygen concentration at 130 m depth (Figure 15) increased statistically significantly since 1999 ($p < 0.01$) and increases in the annual minimum oxygen concentrations at other depths between 100 and 150 m were similarly statistically significant.

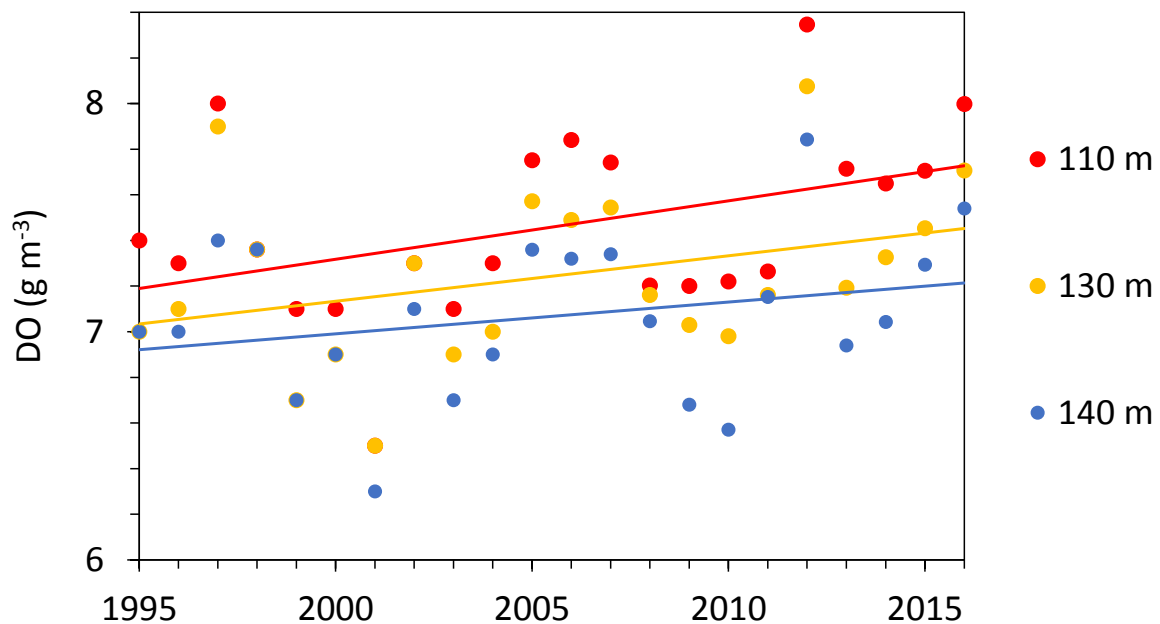


Figure 15: Annual minimum dissolved oxygen concentrations. Trends at various depths in the hypolimnion since 1999 were statistically significant ($p < 0.01$; trend lines shown are since 1995).

The net rate of oxygen loss in the hypolimnion (the volumetric oxygen demand or VHOD) between October 2015 and March 2016, determined as the linear decline in total oxygen content below 70 m depth during the summer stratified season (Verburg and Albert 2016; Gibbs 2015), was $11.2 \pm 3.7 \text{ mg m}^{-3} \text{ d}^{-1}$ ($p < 0.001$, $R^2 = 0.90$), slightly lower than in the previous monitoring year ($11.8 \pm 3.7 \text{ mg m}^{-3} \text{ d}^{-1}$).

3.3 Secchi depth

In this monitoring year Secchi depth was lowest in August 2015 (10.0 m). This corresponded with high chlorophyll *a* concentrations (2.2 mg m^{-3}). It was highest in September 2015 (18.5 m; Figures 16 and 25), which was unusual as Secchi depth is typically highest in summer in Lake Taupo and lowest in September. However, it is consistent with chlorophyll *a* being lower than usual in September (1.2 mg m^{-3} , see below). High Secchi depths also occurred in January-March 2016. There has been no statistically significant trend in Secchi depth since 2000 (Figures 16 and 26). There was no trend in the day of the year at which Secchi depth was lowest and the average day was 3 September (Figure 17). There were also no statistically significant trends in the annual minimum or maximum Secchi depths, the difference between the annual minimum and maximum, or in the annual standard deviation of Secchi depth.

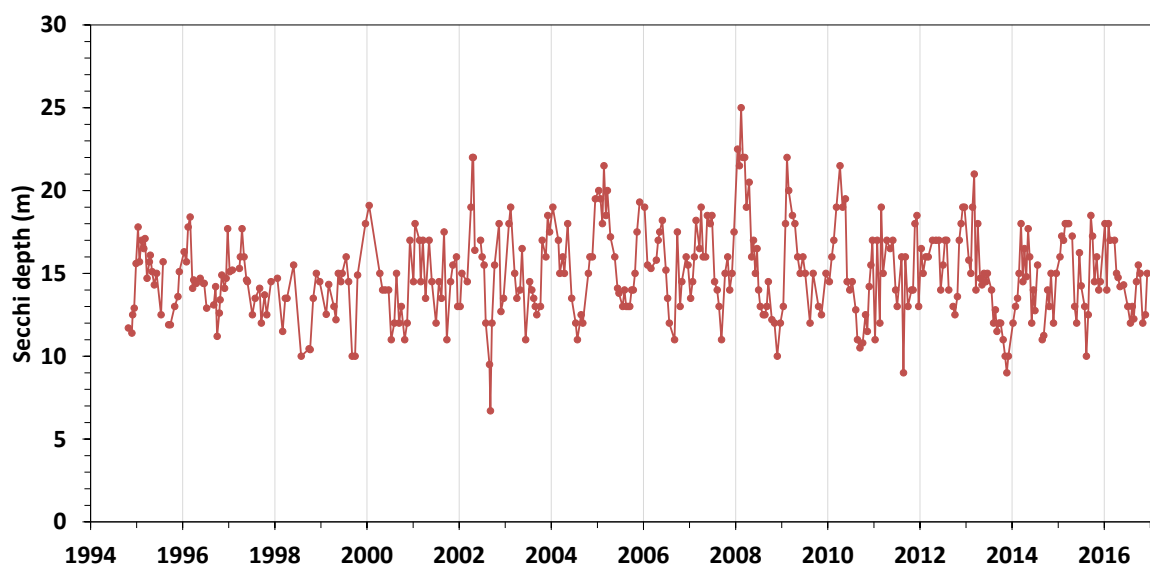


Figure 16: Time series of Secchi depth.

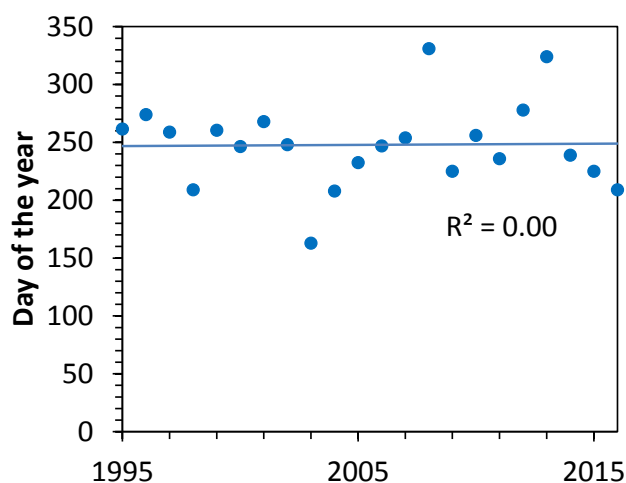


Figure 17: Day of the year that Secchi depth was lowest. There was no statistically significant trend.

3.4 Phytoplankton

The annual maximum chlorophyll *a* concentration, measured on 30 July 2015 (2.7 mg m^{-3} , Figures 18 and 25), was the fifth highest annual maximum recorded, and lower than in the previous year (3.8 mg m^{-3}). Mean chlorophyll during winter (July-October) was lower than in about half the previous monitoring years (Figure 10) and starting dropping early, by September 2015 (Figure 25), probably as a result of the early onset of warming of the surface water (from August 2015 onward) and stratification. Chlorophyll was lowest from October 2015 to March 2016 (Figure 25). Secchi depth and chlorophyll *a* concentrations were inversely correlated in the monitoring year ($R^2 = 0.31$). There was a reasonable inverse correlation between annual means of Secchi depth and chlorophyll *a* concentrations after 2000 ($R^2 = 0.35$). Chlorophyll *a* concentrations increased between 1995 and 2000, possibly related to an eruption of Mount Ruapehu (Gibbs 2015). There has been no statistically significant trend in chlorophyll *a* concentrations since 2000 (Figure 26). There was no statistically

significant trend in the day of the year at which chlorophyll *a* was highest, and the average day was 13 August (Figure 19).

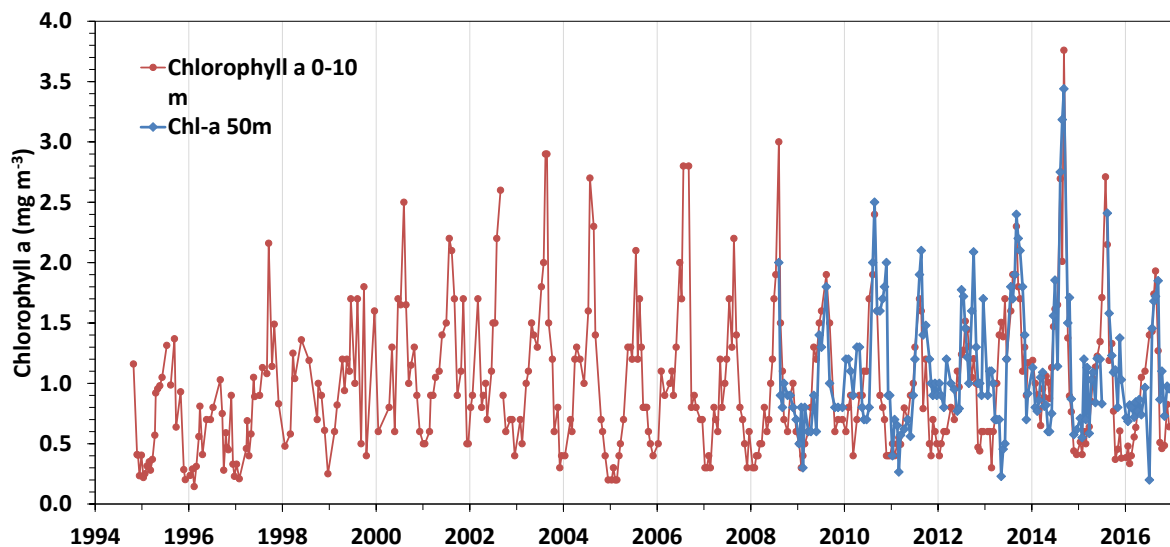


Figure 18: Time series of chlorophyll *a* concentrations.

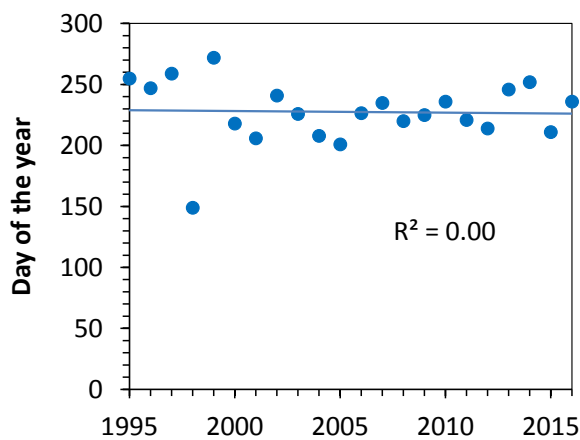


Figure 19: Day of each year when chlorophyll *a* was highest. There was no statistically significant trend.

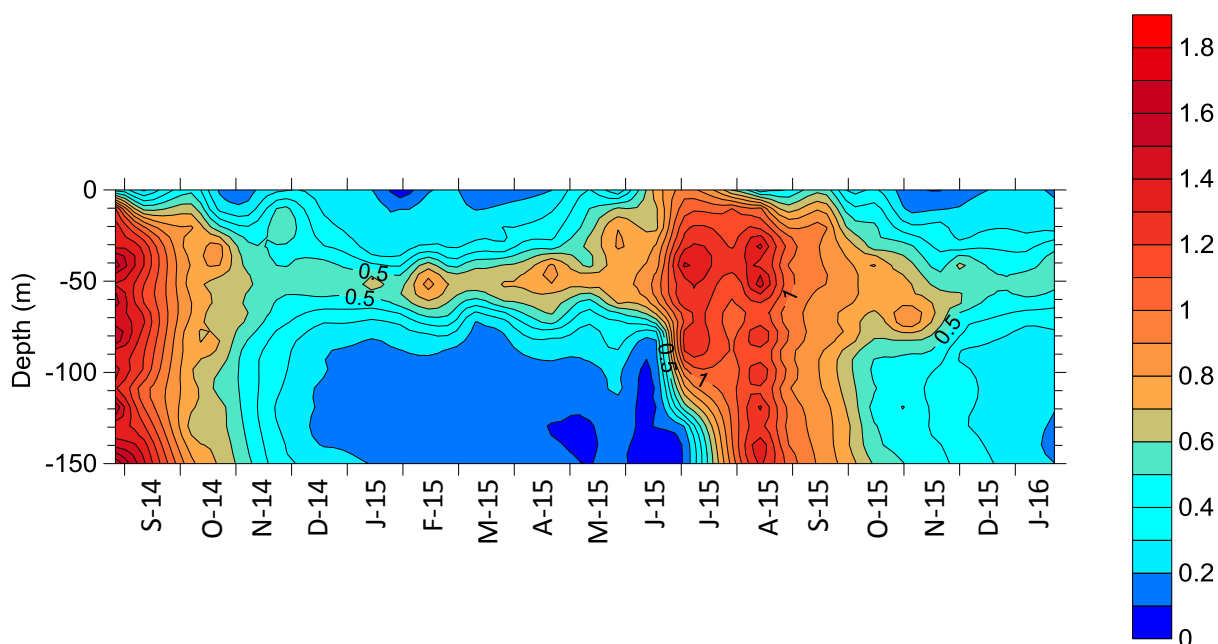


Figure 20: Contour plot of *in situ* chlorophyll fluorescence. August 2014 – January 2016. Showing the deep chlorophyll maximum at about 50 m depth during summer, and the mixed water column with relative high fluorescence during winter.

During summers, chlorophyll *a* shows a distinct peak in Lake Taupo well below the thermocline at around 50 m depth (Figure 20), the deep chlorophyll maximum (DCM). The DCM typically occurs below the euphotic zone, the depth down to where the light is at least 1% of that at the surface of the lake. Figure 20 also shows the high chlorophyll mixed throughout the water column during winter and the lower chlorophyll during summer in the surface layer. The data in Figure 20 are from August 2014 to January 2016. From February 2016 a new depth profiler was used in Lake Taupo with a more sensitive chlorophyll fluorescence sensor. Even after calibration of fluorescence sensors, the data are not as accurately representative of chlorophyll *a* concentrations as are laboratory measured chlorophyll concentrations (Figure 18), and not as comparable between different sensors. Because the fluorescence data before and after February 2016 are not directly comparable the latter were not included in the figure.

At 0-10 m depth, phytoplankton (Figures 21 – 22) was dominated by diatoms during winter (*Fragilaria crotonensis*, *Aulacoseira granulata*) and mostly by chlorophytes during summer up to May-June 2016, with occasional peaks of diatoms and flagellates during summer. Chlorophyte cell numbers during summer were made up of more or less equal amounts of *Monoraphidium sp.*, *Oocystis sp.*, and *Volvox aureus*, while chlorophyte biomass was mostly *Botryococcus braunii* colonies and *Oocystis sp.* *Oocystis* was common throughout most of the year. Cyanobacteria were highest in February-March 2016 (*Dolichospermum c.f. lemmermannii*), both in total biomass and proportionally. At the approximate depth of the deep chlorophyll maximum, 50 m (Figures 23 – 24), domination of phytoplankton biomass by diatoms (*Fragilaria crotonensis*, *Aulacoseira granulata*, *Asterionella formosa*, in order of importance) was stronger than in the surface layer through most of the year, punctuated by occasionally high chlorophyte biomass in summer and in June 2016 (*Botryococcus braunii* colonies and *Eudorina elegans*), and high flagellate biomass around February 2016. At 50 m depth, cyanobacteria were highest in January 2016, and a lower peak occurred in February 2016 (*Dolichospermum c.f. lemmermannii*). Cyanobacteria never dominated the phytoplankton biomass during this monitoring year, neither in the surface layer nor at 50 m depth.

Especially at 50 m depth, total algal biomass, both cell counts and biovolume, followed the pattern in chlorophyll *a* (Figure 25), i.e., most decreasing from July 2015 to May 2016, followed by a slight increase in June 2016.

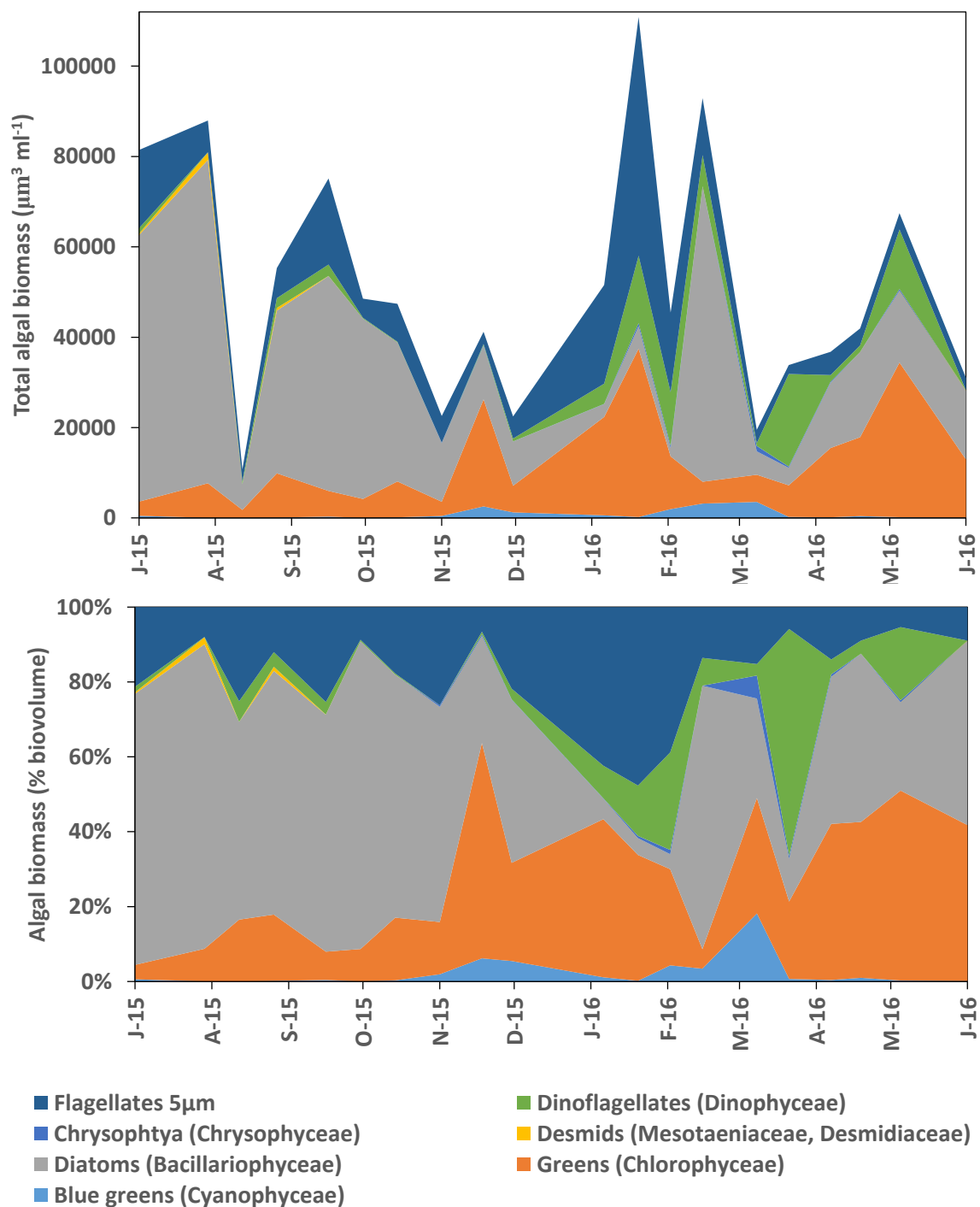


Figure 21: Biovolume for seven major algal groups in the upper 10 m depth, in units of volume and as a proportion.

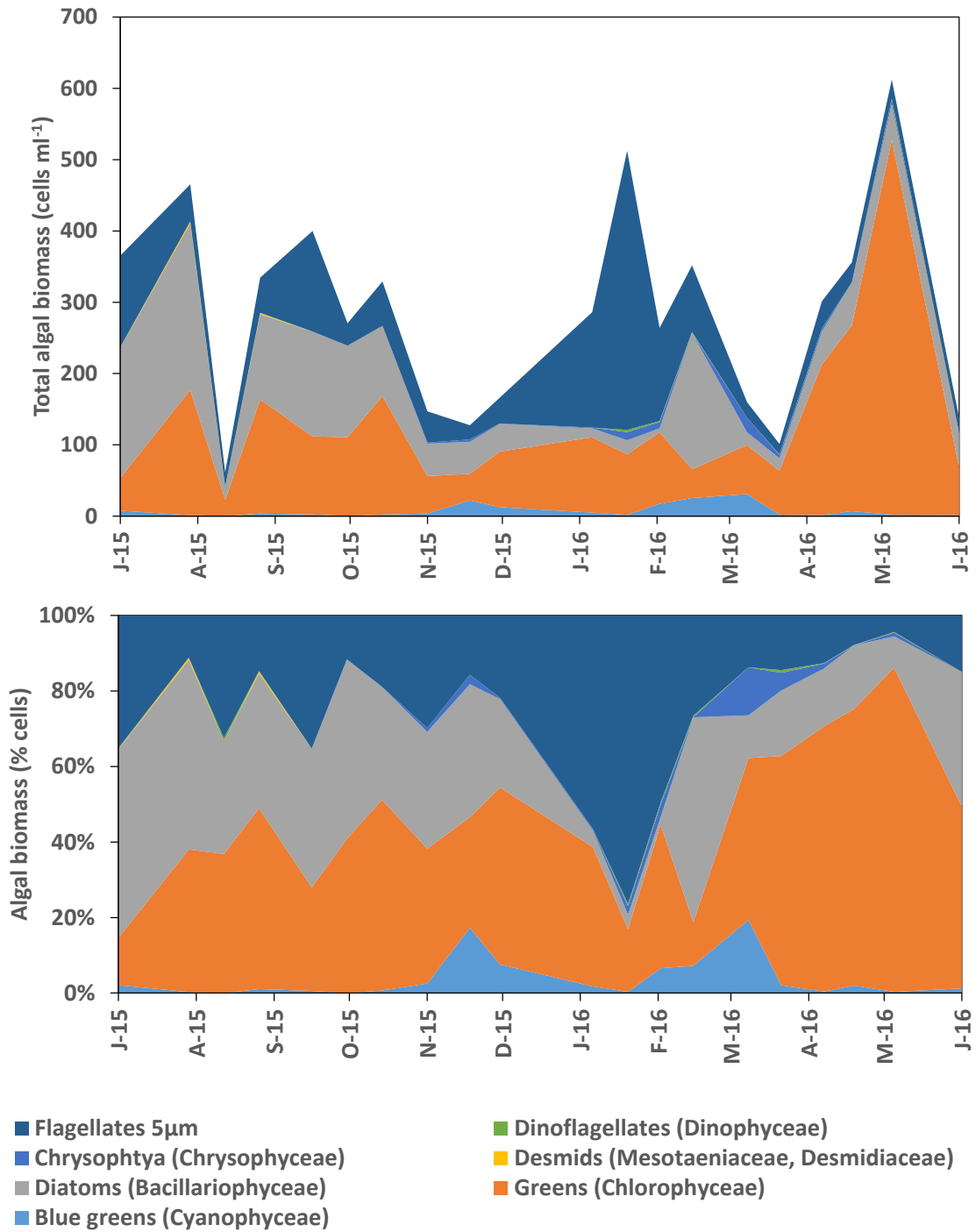


Figure 22: Abundance of seven major algal groups in the upper 10 m depth, in numbers of cells per ml and as a proportion.

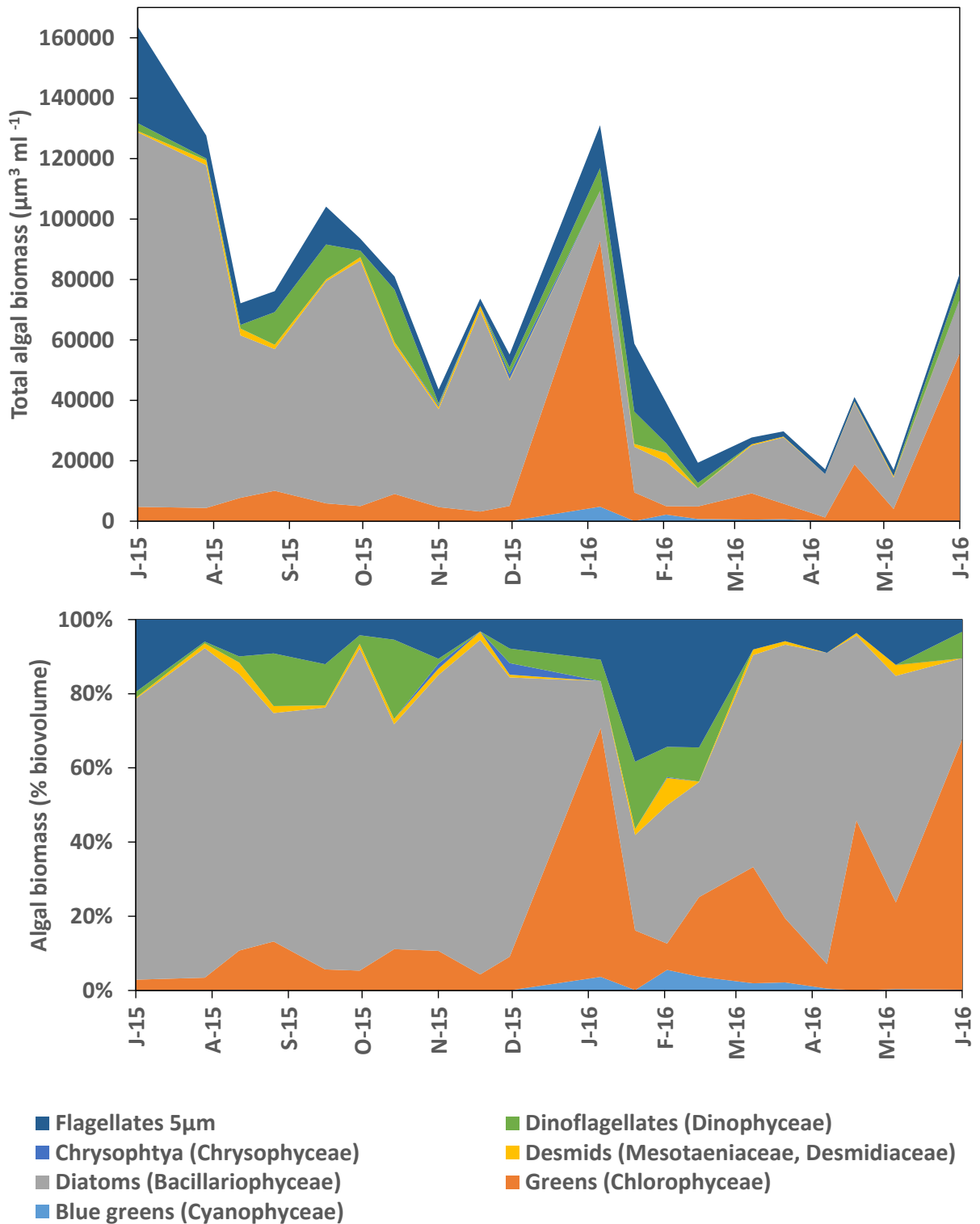


Figure 23: Biovolume for seven major algal groups at 50 m depth, in units of volume and as a proportion.

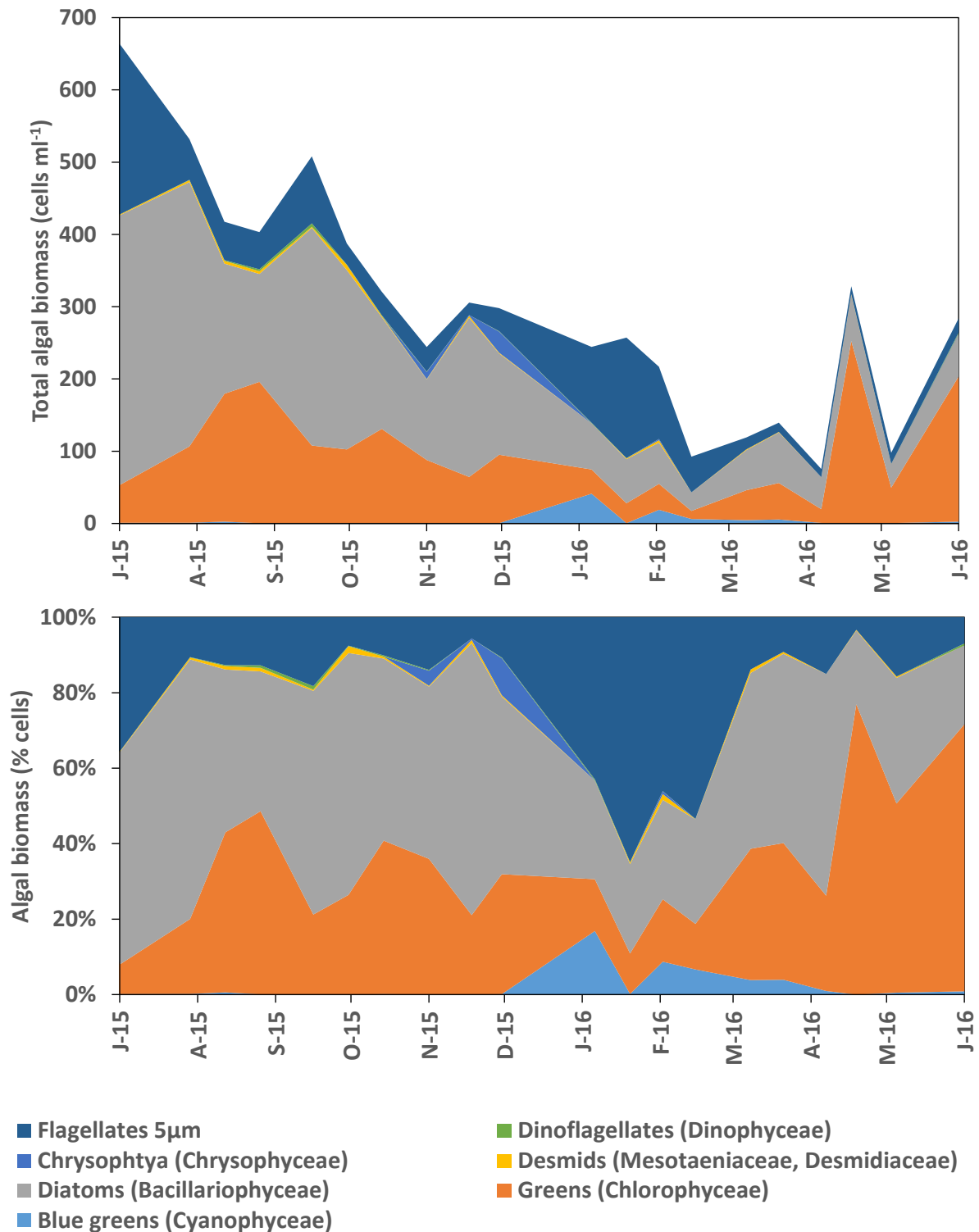


Figure 24: Abundance of seven major algal groups at 50 m depth, in numbers of cells per ml and as a proportion.

3.5 Nutrients in the upper water layer

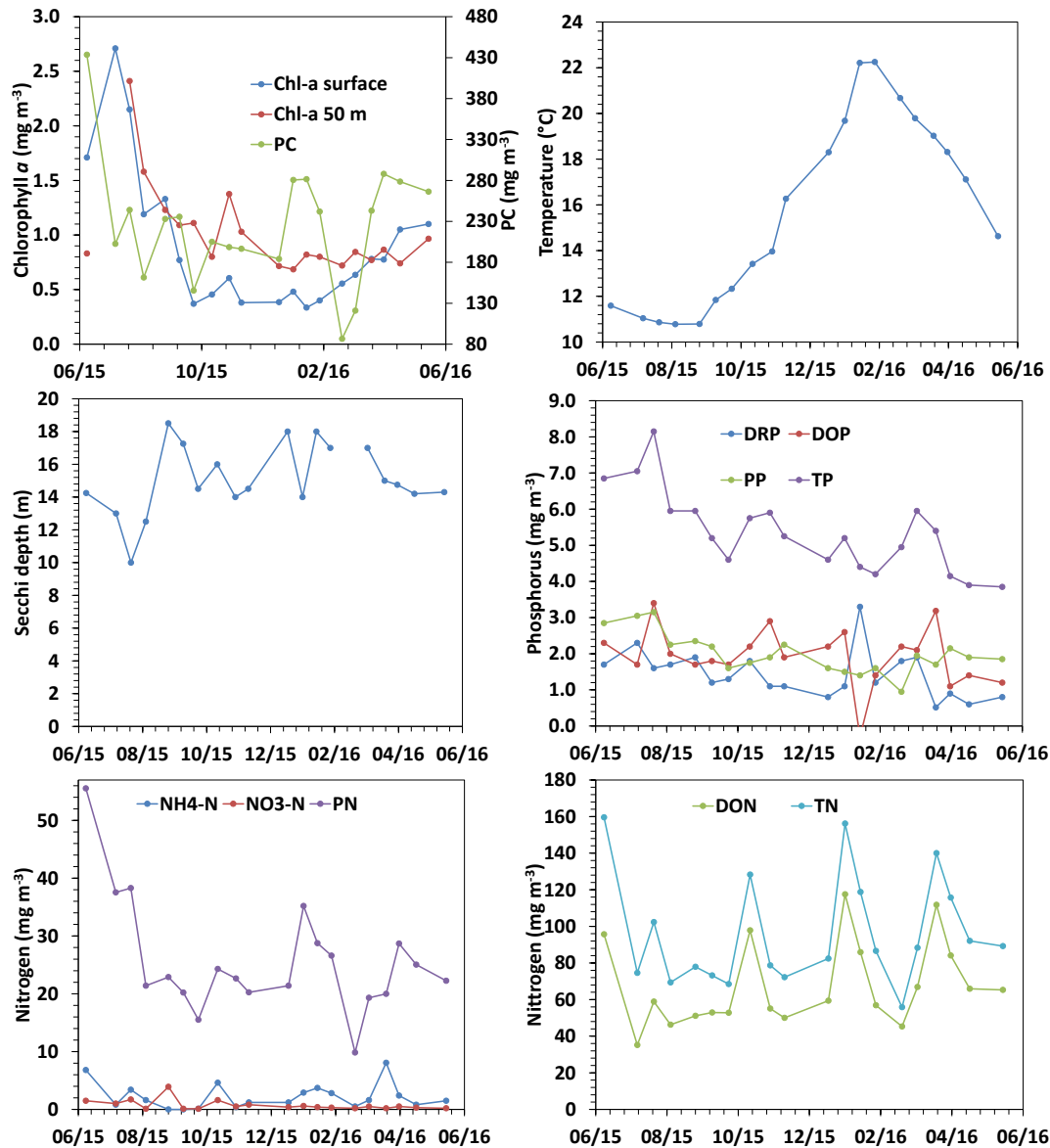


Figure 25: Temperature, Secchi depth, and concentrations of nutrients and chlorophyll a in the upper 10 m water layer during 2015-2016.

Most of the seasonal patterns in nutrients were not strong in 2015-2016. Total and particulate nutrient concentrations decreased during the year, as did chlorophyll a (Figure 25). There were positive trends in total, dissolved organic and particulate nitrogen since 1995 (Figure 26). However, in the past three years all forms of nitrogen have been lower than the maximum that occurred in or around 2013.

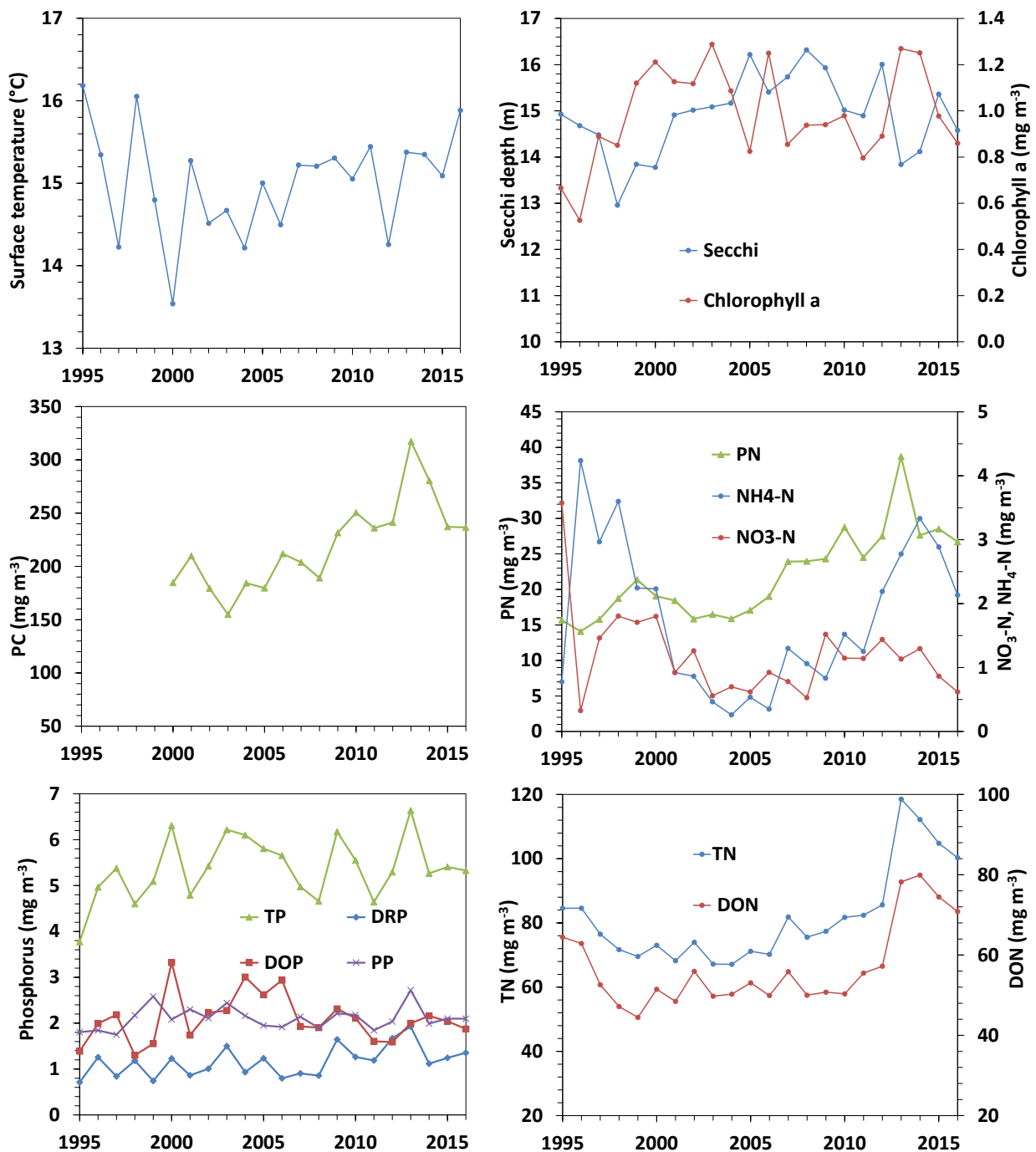


Figure 26: Annual means for temperature, Secchi depth, and concentrations of nutrients and chlorophyll *a* in the upper 10 m water layer during 1995-2016.

3.6 Vertical profiles

Vertical profiles of concentrations of nutrients, oxygen and chlorophyll *a*, temperature and pH are in Figures 27-28. The profiles are from spring (2 November 2015). The profiles show the lake weakly stratified with a not well defined thermocline between about 20 m and 60 m depth, low chlorophyll concentrations in the surface layer and a small difference in oxygen concentrations from top to

bottom. Dissolved inorganic nutrients have started to build up in the hypolimnion, as senescent algae sink out and nutrients after decomposition are no longer mixed back up to the surface layer. The depth profiles of pH, oxygen and chlorophyll are consistent with the bottom of the thermocline being at 60 m depth. The higher chlorophyll below 60 m may be algal cells that have recently mixed down during and after the winter chlorophyll maximum, before the onset of stratification. However, in contrast particulate carbon showed a peak within the thermocline.

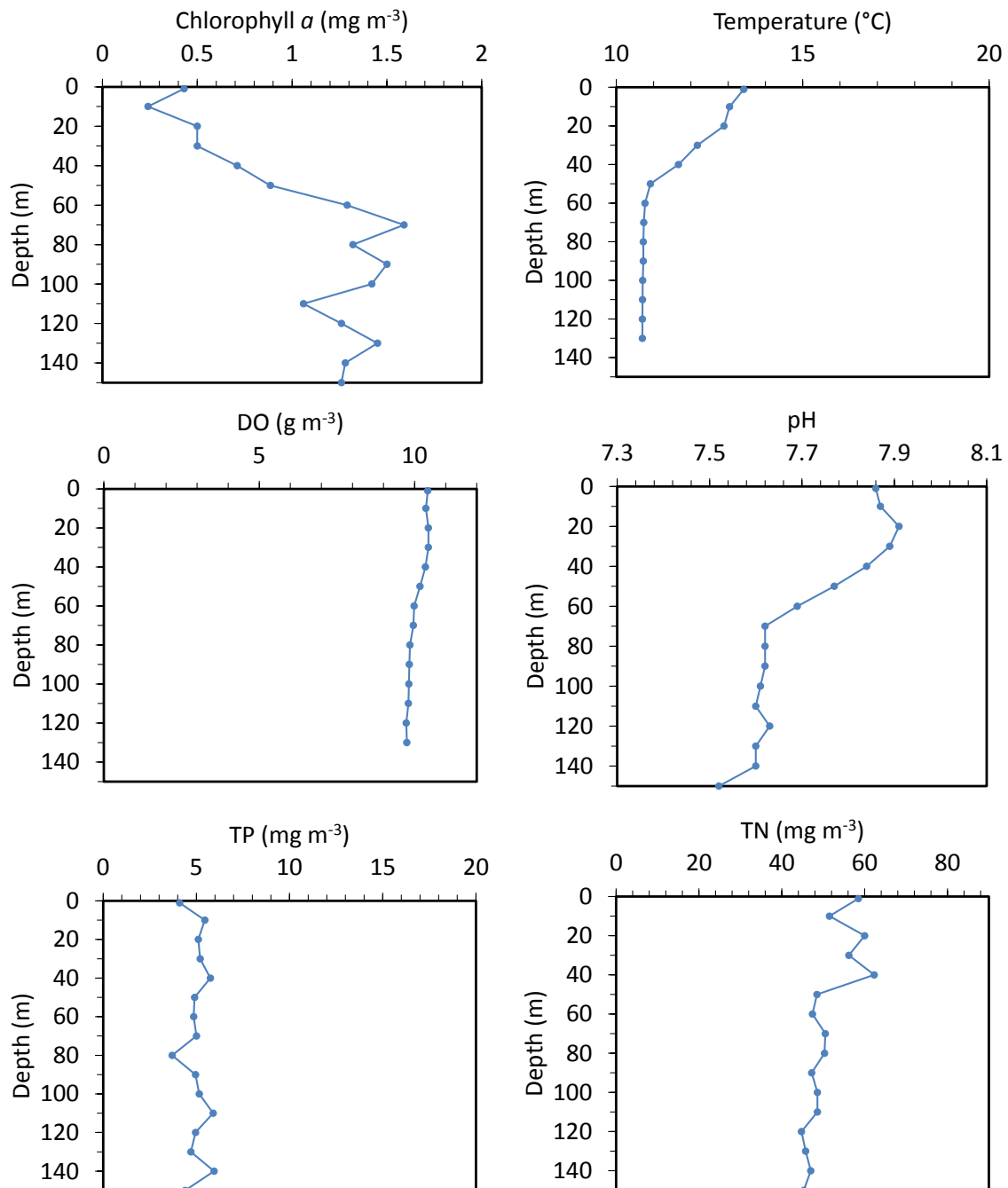


Figure 27: Vertical profiles of temperature and concentrations of chlorophyll *a*, oxygen, and total nutrients, in spring of 2015. 2 November 2015

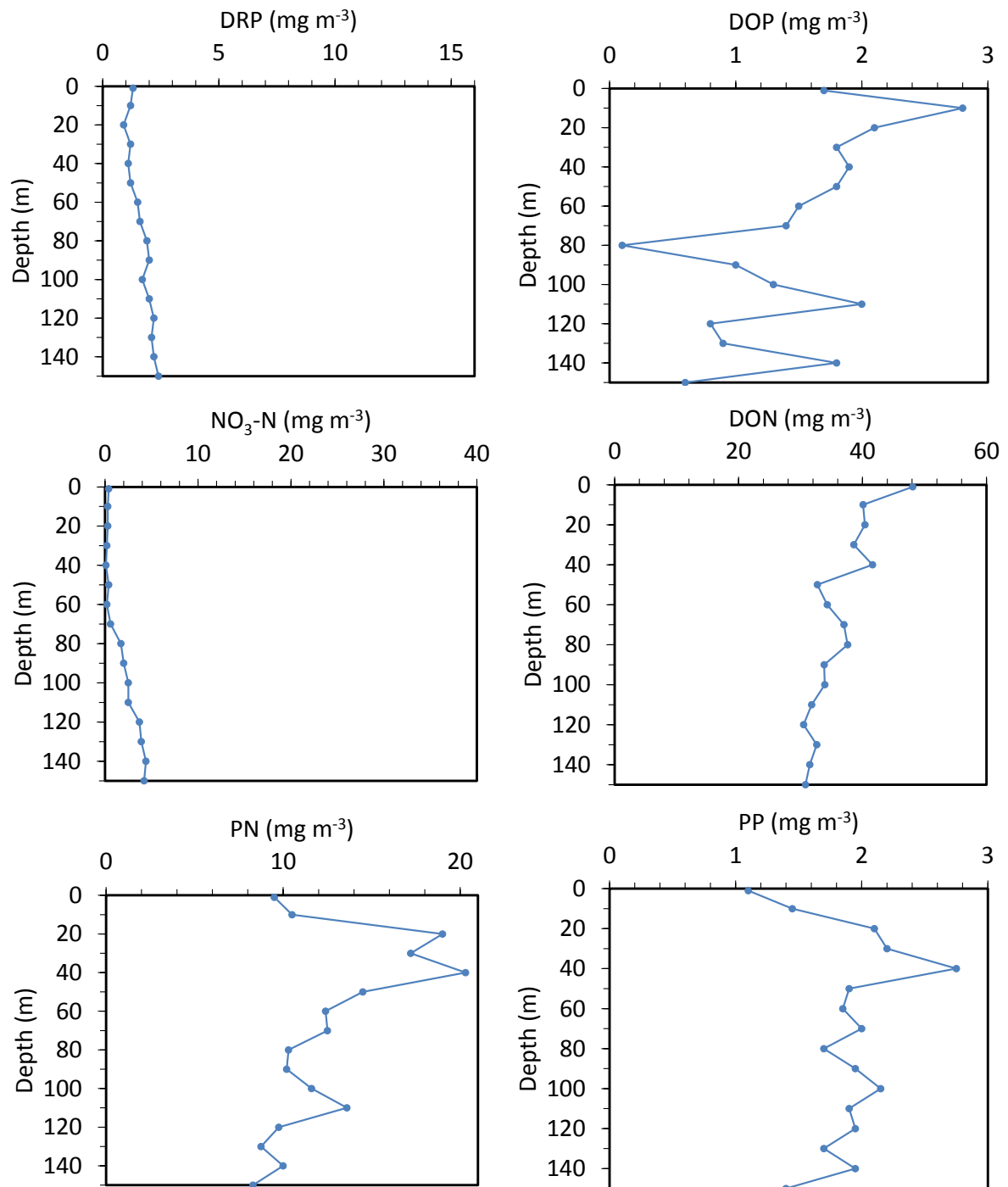


Figure 28: Vertical profiles of concentrations of various forms of phosphorus and nitrogen, in spring 2015. 2 November 2015.

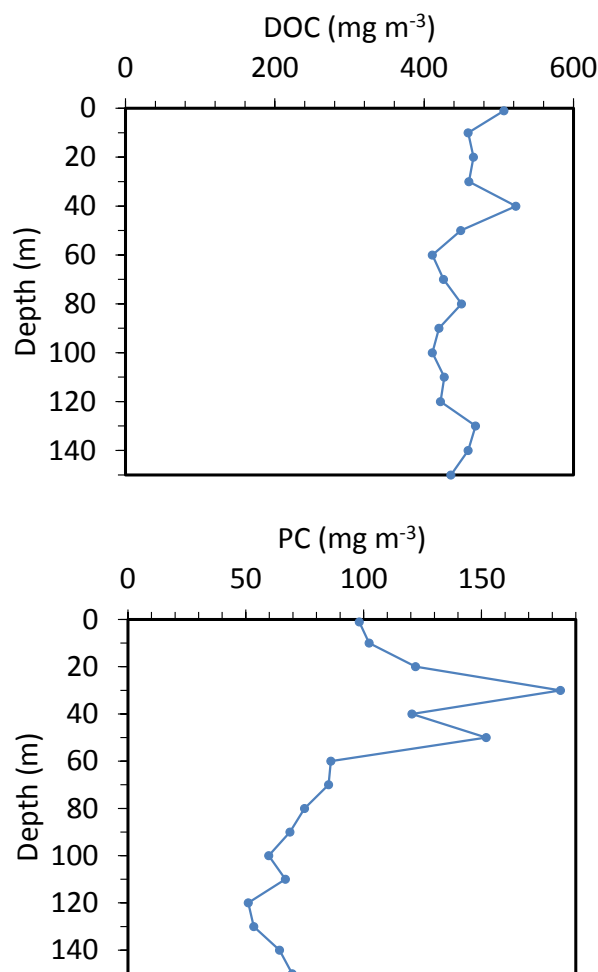


Figure 29: Vertical profiles of concentrations of dissolved and particulate organic carbon, in spring of 2015.

3.7 Nutrient accumulation in the hypolimnion

During summer when the lake is stratified (i.e., does not mix vertically) organic material sinks out from the phototrophic layer, followed by decomposition in bottom water. As a result dissolved nutrients (mainly NO_3 and DRP) accumulate in the hypolimnion. During the winter overturn, the accumulated nutrients are mixed through the entire water column and their concentrations drop in the hypolimnion. In contrast, NH_4 concentrations in the bottom water often increase during the winter overturn because of mixing with shallower water where NH_4 concentrations are higher during summer than in the hypolimnion. Whereas NO_3 gets mixed upward during winter, NH_4 gets mixed down in the water column. During summer, NH_4 concentrations in bottom water remain low probably because of nitrification at the sediment-water interface.

In the monitoring year 2015-2016, the hypolimnetic nutrient concentrations suggested a long winter mixing period in 2015, similar to that in the winter of 2014. The concentrations of DRP and $\text{NO}_3\text{-N}$ remained low for nearly half a year, from July 2015 to January 2016 (as in 2014-2015), whereas in

years prior to 2014, dissolved nutrients quickly started to increase again in bottom water after the mixing had occurred. However, unlike in 2014, a long winter mixing period was not supported by evidence from temperature gradients, which suggested an average mixing year. It appears that the low concentrations during and following winter are not explainable only by vertical mixing, but also by algal growth being relatively low from the end of August 2015 (Figure 25). The end of the peak in algal biomass came earlier in this monitoring year than in previous years. The maximum concentration of nitrate in the hypolimnion at the end of the stratified season in 2016 was less than in any other year (data since 2000). This was in sharp contrast to the winter of 2014 when the maximum concentration of hypolimnetic nitrate was exceptionally high. The maximum concentration of dissolved phosphorus is more variable between years and did not stand out from that in previous years (Figure 30).

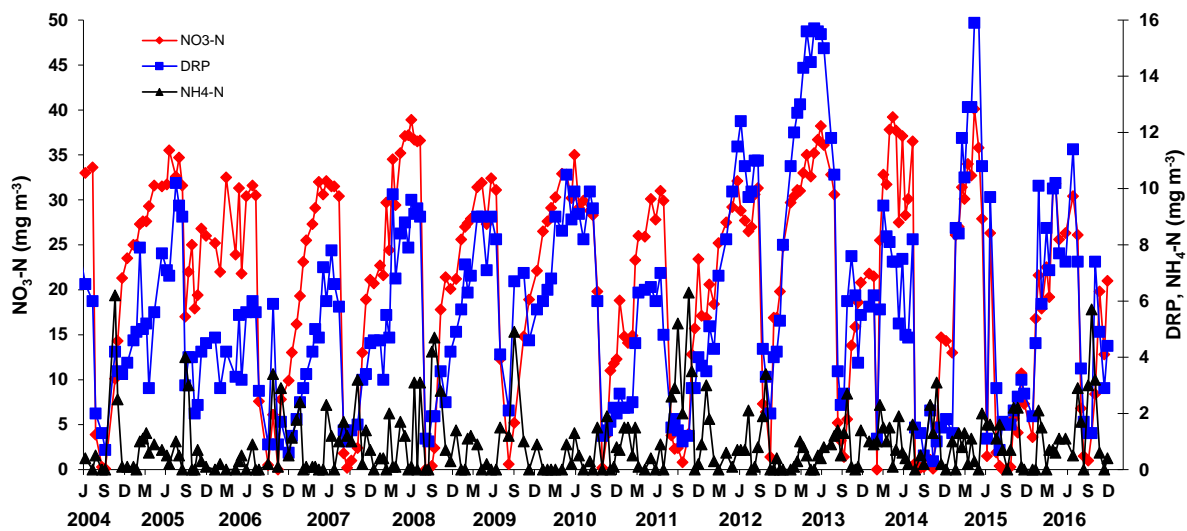


Figure 30: Time series bottom water nutrient data. DRP, NO₃-N and NH₄-N concentrations in the hypolimnion (150 m depth) of Lake Taupo since winter mixing of 2004.

Longer mixing seasons may result in higher algal biomass by delaying the accumulation of dissolved nutrients in the bottom water in spring and keeping them available for algal growth in the surface layer, explaining the strong correlation between the mean winter temperature depth gradient and winter time chlorophyll concentrations (Figure 10).

4 Summary

During this monitoring year, the maximum chlorophyll *a* concentration, measured on 30 July 2015 after the lake had mixed (2.7 mg m^{-3}), was the fifth highest measured since 1994. The peak in algal biomass came earlier and lasted for a shorter period than in previous years. Algal biomass in the upper water column was low in October 2015- February 2016. There was no statistically significant trend in chlorophyll *a* since 2000. There was no statistically significant trend in the day of the year at which chlorophyll *a* was highest and the average day was 13 August.

Diatoms dominated the algal biomass much of the year at 0-10 m depth, and even more so at 50 m depth. The main diatom species were *Fragilaria crotonensis* and *Aulacoseira granulata*. During summer, chlorophytes mostly dominated up to May-June 2016, with occasional peaks of diatoms and flagellates during summer. Chlorophyte cell numbers during summer were made up of more or less equal amounts of *Monoraphidium sp.*, *Oocystis sp.*, and *Volvox aureus*, while chlorophyte biomass was mostly *Botryococcus braunii* colonies and *Oocystis sp.* *Oocystis* was common throughout most of the year. Cyanobacteria were highest in February-March 2016 (*Dolichospermum c.f. lemmermannii*), both in total biomass and proportionally. At the approximate depth of the deep chlorophyll maximum, 50 m, domination of phytoplankton biomass by diatoms (*Fragilaria crotonensis*, *Aulacoseira granulata*, *Asterionella formosa*, in order of importance) was stronger than in the surface layer through most of the year, punctuated by occasionally high chlorophyte biomass in summer and in June 2016 (*Botryococcus braunii* colonies and *Eudorina elegans*), and high flagellate biomass around February 2016. At 50 m depth, cyanobacteria were highest in January 2016, and a lower peak occurred in February 2016. *Dolichospermum cf lemmermannii* was, as in previous years, the most common species of cyanobacteria, both in the surface layer and at 50 m depth. Cyanobacteria never dominated the phytoplankton biomass during this monitoring year, neither in the surface layer nor around the depth of the deep chlorophyll layer.

Especially at 50 m depth total algal biomass, both cell counts and biovolume, followed the pattern in chlorophyll *a*, i.e., most decreasing from July 2015 to May 2016, followed by a slight increase in June 2016.

The mean summer temperature (January-March 2016) was $19.7 \text{ }^\circ\text{C}$. The surface temperature was highest in February 2016 ($22.3 \text{ }^\circ\text{C}$) and lowest in August 2015 ($10.8 \text{ }^\circ\text{C}$). There has been no statistically significant trend in annual mean water surface temperatures, or in annual mean temperatures at any depth. However, there has been a statistically significant decrease in the temperature difference between the surface layer and bottom water during winter, the opposite of the expected effect in a deep lake from a warming climate. There is evidence for increased mixing during winter and for an increase in the duration of the winter mixing period. However, the mixing period in 2015 lasted about 7 weeks, close to the average (6.5 weeks), and the mean winter temperature gradient between 20 and 130 m depth ($0.43 \text{ }^\circ\text{C}$) was close to the average since 1995 ($0.44 \text{ }^\circ\text{C}$). The observed decrease in the winter temperature gradient since 1995 resulted in an enhanced potential for vertical mixing, and enhanced access to dissolved nutrients for algal growth in the surface layer. There was a statistically significant inverse correlation between mean winter (July to October) chlorophyll *a* and the mean winter temperature difference between 20 and 130 m depth, confirming that winters with low temperature gradients enhance algal growth in Lake Taupo.

This topic merits further investigation in view of its great importance for the rate of return of nutrients, accumulated in the hypolimnion by decomposition of organic material produced in the epilimnion, back to the epilimnion where the nutrients are used by algae to grow. Possible

explanations for a decrease in mean winter temperature gradients and an increased potential for mixing are increased geothermal heat inputs, increased temperatures of river water inputs, or an increasing trend in wind speeds.

The monthly mean temperature difference between the lake surface and the air ($T_s - T_a$), the latter measured at a weather station in Taupo, was on average 3.09 °C since 1995, and 2.83 °C in this monitoring year. There has been no statistically significant trend in this temperature difference. Monthly mean $T_s - T_a$ was highest during winter each year (about 5°C). In 2015-2016 monthly mean $T_s - T_a$ was always positive and the lowest $T_s - T_a$ occurred in October (0.09 °C). High winter time $T_s - T_a$ results in cooling of the lake surface by heat loss to the atmosphere.

In April 2016 the lowest value of dissolved oxygen of 7.9 mg m⁻³ occurred at 130 m depth. The average annual minimum concentration since 1995 was 7.2 mg m⁻³. Therefore, the minimum dissolved oxygen concentrations in 2015-2016 was above the average. There was a slight, but statistically significant, increase in annual minimum dissolved oxygen concentrations in the hypolimnion since 1999. The increase in the winter mixing period since 1995 may have resulted in the observed increase in annual minimum dissolved oxygen concentrations. With an earlier onset of the winter mixing the decline in dissolved oxygen by consumption during the stratified season stops earlier, resulting in less extreme minima in dissolved oxygen concentrations. Because of its size, depth and long residence time, most consumption of oxygen in the hypolimnion of Lake Taupo is likely to be based on decomposition of organic carbon produced in the lake (autochthonous carbon), as opposed to organic carbon exported from the catchment (allochthonous).

Lowest water clarity values, in August 2015 (10.0 m), corresponded with high chlorophyll *a* concentrations. Water clarity was high although variable from mid-September to March (14 to 18.5 m). There was a negative correlation ($R^2 = 0.31$) between Secchi depth and chlorophyll *a* in 2015-2016. There was also a reasonable inverse correlation between annual means of Secchi depth and chlorophyll *a* since 2000 ($R^2 = 0.35$). There was no statistically significant trend in water clarity since 2000. There was no trend in the day of the year at which Secchi depth was lowest and the average day was 3 September. There were no statistically significant trends in the annual minimum or maximum Secchi depths, or in the difference between the annual minimum and maximum.

During the winter overturn, nitrate and dissolved phosphorus that had accumulated in the hypolimnion during summer, were mixed through the entire water column and their concentrations dropped in the hypolimnion. A prolonged period of low nitrate and dissolved phosphorus in bottom water occurred during 2015, as also occurred in 2014, lasting almost half a year. This did not occur in years prior to 2014. The low bottom nutrient concentrations are probably the result, both of the vertical mixing, which was of average duration and intensity in 2015, and of the amount of algal biomass produced during the winter peak. The latter was also about average but the winter algal biomass peak ended earlier than in previous years.

The concentrations of nitrate in bottom water reached a maximum lower than seen before, while the maximum bottom water concentration of dissolved phosphorus was about average.

5 Acknowledgements

Philip King, Heath Cairns and Johnathan Unuwai of the Taupo Harbourmaster's Office and Eddie Bowman (NIWA Rotorua) carried out the field work.

Water samples were processed in the NIWA chemistry laboratory and analytical results were provided by Graham Bryers, Margaret McMonagle, Cara Mackle and team. Quality control was provided by Mike Crump, Lab Manager. Phytoplankton dominance and enumeration results were provided by Karl Safi and Helen Brider from NIWA Algal Services.

This report has benefited from a reviews by Bill Vant and Graham McBride. We thank Waikato Regional Council for commissioning the monitoring program.

6 Glossary of abbreviations and terms

BOD	Biochemical Oxygen Demand: the rate of oxygen consumption associated with biological decomposition and chemical processes and in the water column.
VHOD	Volumetric Hypolimnetic Oxygen Demand: the net rate of oxygen loss associated with biological, chemical and physical processes in the hypolimnion of a lake in the absence of a temperature change.
Phytoplankton	Microscopic free-floating aquatic plants (algae).
Cyanobacteria	Blue-green algae. These are potentially toxic. They can adjust their depth in the water column using small gas bladders (gas vacuoles), and some species can use (i.e., fix) atmospheric nitrogen for growth when nutrient nitrogen in the water column is depleted.
Zooplankton	Small to microscopic free-swimming aquatic animals which graze on phytoplankton or smaller zooplankton.
Biomass	The living mass of the phytoplankton or zooplankton populations.
Thermal stratification	Separation of a water column into two layers by temperature – warmer water on top.
Thermocline	The boundary zone or temperature gradient between the two layers in a thermally stratified water column.
Epilimnion	The upper water column in a thermally stratified water column.
Hypolimnion	The lower water column in a thermally stratified water column.
Metalimnion	The thermocline zone — of variable thickness.
Euphotic zone	The upper water column in which there is sufficient light for photosynthesis and hence phytoplankton growth.
Euphotic depth	Lower limit of phytoplankton growth where light levels are 1% of surface irradiance.
Hydrothermal eruption	Sudden release of superheated water from volcanic vents in the bed of the lake. The source is most likely infiltrating lake water heated by hot rocks. The heated water includes dissolved salts leached from the rocks and sediment.
Nutrients	Essential dissolved inorganic nitrogen and phosphorus compounds which can be used directly by plants for growth.
Ammoniacal nitrogen	Sum of ammonium ion (NH_4^+) plus free (unionised) ammonia (NH_3). Some amines (NH_2^-) may be included as interference during analysis. Symbol, $\text{NH}_4\text{-N}$.
Nitrate nitrogen	Used in this report as the sum of nitrate (NO_3^-) plus nitrite (NO_2^-). Symbol, $\text{NO}_3\text{-N}$.
DIN	Dissolved Inorganic Nitrogen: the sum of $\text{NH}_4\text{-N}$ + $\text{NO}_3\text{-N}$.
DON	Dissolved Organic Nitrogen: the soluble nitrogen other than DIN.
PN	Particulate Nitrogen: includes phytoplankton and other detritus.
TN	Total Nitrogen: Sum of DIN + DON + PN.
NO_x	Gaseous oxides of nitrogen, including N_2O , NO , NO_2 .

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Appendix 1. Site map, sampling strategy and methods

Site map

Lake monitoring sites were originally established using land-based markers (Figure 31). These have now been defined using GPS and corrected for curvature using WGS84 convention.

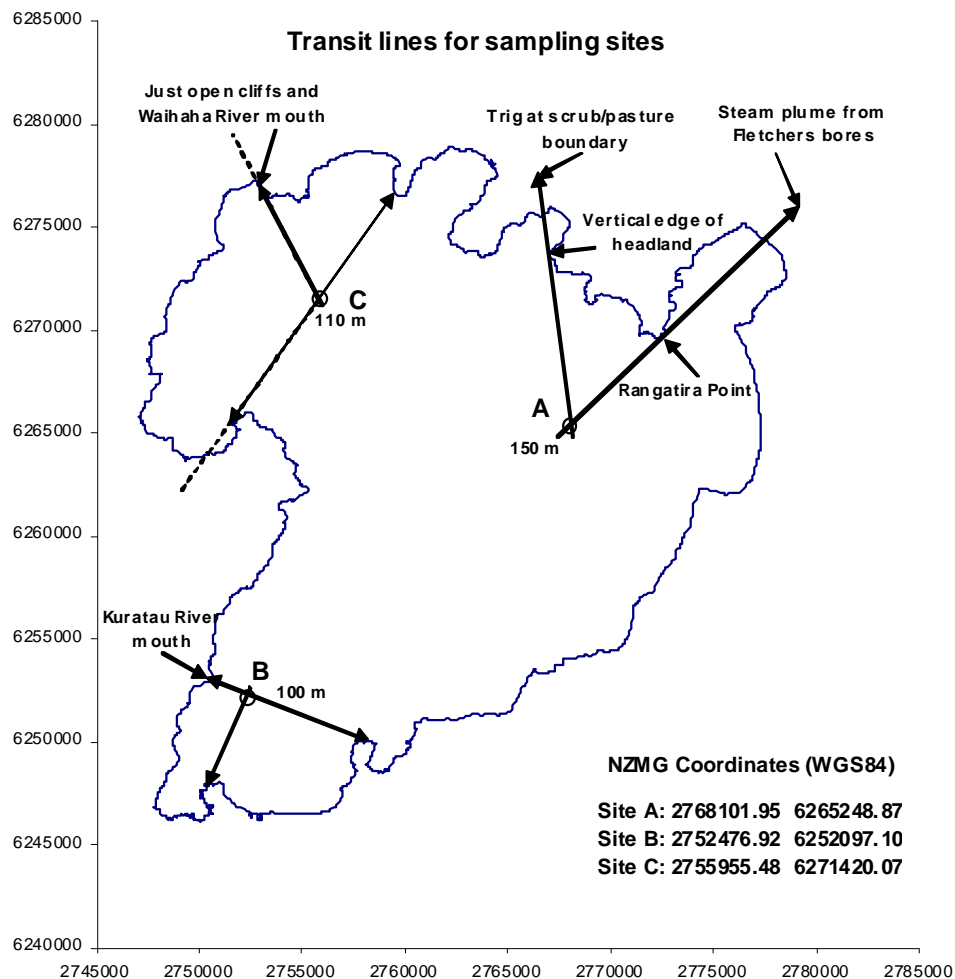


Figure 31: Site map of Lake Taupo. Site map of Lake Taupo showing location of the routine monitoring site at mid lake (A). Two additional sites at Kuratau Basin (B) and the Western Bays (C) were sampled between January 2002 and December 2004 inclusive. Data from those sites have been retained with the Site A data presented in the appendices. Map coordinates are in NZ Map Grid with WGS84 correction. Lat. Long WGS 84 corrected co-ordinates of "Site A" are 38° 46'.810 S; 175° 58'.440 E.

The following section has been copied from Gibbs 1995, and was modified after 1998.

Methods

The sampling site was selected in the central basin of Lake Taupo (Site Map) with a water depth of about 160 m. This site is more than 5 km from the nearest land.

For the monitoring of Lake Taupo, which mixes in winter between July and October, a full water column sampling is carried out in spring, to give sufficient time for thermal stratification to establish a stable hypolimnion. Autumn sampling is generally done in April, before lake surface cooling breaks down the thermocline leading to the winter mixing.

At each of these biannual samplings, a detailed profile of DO and temperature was measured. Prior to 1998, measurements were made at 1 m depth intervals through the full depth of the water column using an in situ recording Applied Microsystems STD-12 profiler fitted with a Royce DO sensor, and compared with manual measurements of DO and temperature made at 10 m depth intervals from the surface to the bottom of the lake using a Yellow Springs Instrument (YSI) model 58 dissolved oxygen meter fitted with a stirred Model 5739 probe on a 160 m cable. Subsequent to 1998, a Richard Brancker Research (RBR) model TD410 conductivity-temperature-depth (CTD) profiler fitted with a stirred YSI model 5739 DO sensor was used. In January 2002, the TD410 CTD profiler was upgraded to an RBR model XR420f freshwater CTD profiler fitted with the YSI model 5739 DO sensor and a Seapoint chlorophyll fluorescence probe. The DO sensor was calibrated regularly by NIWA, Rotorua staff and chlorophyll fluorescence was converted to chlorophyll *a* from extracted chlorophyll *a* analyses of water samples collected beside the profiler.

In January 2008, the XR420f profiler was upgraded to a RBR model XR620f freshwater profiler/logger with improved sensitivity. The new profiler is fitted with a Sea Point chlorophyll fluorescence probe and a Li-Cor underwater photosynthetically active radiance (PAR) sensor to measure in situ light levels and light extinction (K_d) associated with the vertical distribution of algal biomass within the lake water column. In the new system the YSI dissolved oxygen (DO) sensor was replaced with an Oxyguard DO sensor, with a temperature sensor, fitted to a separate RBR logger attached to the profiling frame.

Cross-calibration between the two profilers confirmed the quality of the data, and the XR420f was retained as a back-up.

Since March 2016 a new RBR model XR620f freshwater profiler has been used, with all new sensors now integrated in the same instrument.

The following parameters were also measured (or calculated from component parameters) as profiles from water samples collected using a van Dorn water sampling bottle starting at 1 m and then at 10 m intervals from 10 m to the bottom of the lake:

DO, chlorophyll *a*, dissolved reactive phosphorus (DRP), dissolved organic phosphorus (DOP), particulate phosphorus (PP), total phosphorus (TP), nitrate+nitrite nitrogen ($\text{NO}_3\text{-N}$)*, ammoniacal nitrogen ($\text{NH}_4\text{-N}$), dissolved organic nitrogen (DON), particulate nitrogen (PN), total nitrogen (TN), urea nitrogen (Urea-N), total suspended solids (SS), volatile suspended solids (VSS), particulate carbon (PC) and dissolved organic carbon (DOC). (* Little, if any, nitrite is ever found in the Lake Taupo water column, hence the use of $\text{NO}_3\text{-N}$ in the report).

Note: TN and TP values are the sum of all other N and P components, respectively, excluding urea-N which is part of the DON component. DON and DOP are calculated as the total dissolved nutrient minus the inorganic dissolved nutrients.

Additional parameters measured but not as complete profiles were:

Water clarity (by Secchi disc depth) and algal species composition and abundance on water samples from 1, 10, 50, 100, and 150 m.

Determinations on the water samples were made with the standard methods routinely used for freshwater analysis by NIWA on a Lachat FIA flow injection analyser and C/N analyser.

Algal species composition and abundance were obtained by settling a measured volume of sample (up to 100 mL) in Utermöhl tubes and counting on an inverted microscope. Biovolume was estimated from cell volume tables calculated from the cell dimensions of each species. Dominance was estimated from relative biovolumes with the highest biovolume assigned dominance 1 as most common and the lowest biovolume assigned the dominance 10 as rare. Professional judgement was used to relate dominance between samplings.

Since 2007, dominance is no longer used and the algal data are reported in cell counts and biovolume.

Data for the long term monitoring programme were scheduled to be collected from the mid-lake sampling station at 2 weekly intervals. The practicality of achieving this target was limited by the weather and in reality data were generally collected at about 2-3 weekly intervals. Parameters measured were:

DO and temperature profiles at 1 m depth intervals to the bottom of the lake by RBR profiler, water clarity as Secchi disc depth, and a 10 m tube water sample was collected for measurement of chlorophyll *a*, NO₃-N, NH₄-N, , DRP, TDN, TDP, PP, PN, PC, and algal species dominance. TN and TP were calculated as the sum of their components. Chlorophyll fluorescence, conductivity, and PAR data from the profiler are archived but not routinely included in this report.

From 2000, near-bottom water samples from 150 m were collected using a van Dorn water sampling bottle and analysed for DRP, NO₃-N, and NH₄-N.

Data handling and less than detection limit values

All data in this report have been processed and manipulated on Excel spreadsheets. Contourplots were made in Surfer. For the calculation of annual means and long term trends, results below the detection limit (<DL) were replaced by a value of half of the detection limit. These changes were not made in the data sheets in the appendices.

Appendix 2. Temperature and dissolved oxygen data

Includes accumulated data since 1994.

* represents data missing or invalid.

For completeness, additional data from Kuratau Basin (Site B) and Western Bays (Site C) collected for the period between January 2002 and December 2004 are included as separate sheets following the mid-lake data from Site A for those years.

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.												2015-2016							
Mid-Lake site A																			
Temperature																			
Date													New CTD	New CTD	New CTD	New CTD	New CTD	New CTD	New CTD
Depth (m)	2/07/2015	30/07/2015	13/08/2015	27/08/2015	17/09/2015	1/10/2015	15/10/2015	2/11/2015	19/11/2015	1/12/2015	7/01/2016	21/01/2016	3/02/2016	9/03/2016	22/03/2016	7/04/2016	19/04/2016	5/05/2016	2/06/2016
0	11.59	11.04	10.84	10.78	10.79	11.65	12.33	13.42	13.96	16.27	18.30	19.68	22.21	20.66	19.79	19.03	18.31	17.11	14.62
10	11.61	11.04	10.83	10.77	10.79	11.13	12.28	13.04	13.93	15.53	18.21	19.62	21.42	20.67	19.81	19.00	18.28	17.11	14.62
20	11.61	11.04	10.82	10.76	10.79	10.92	12.06	12.89	13.86	14.47	17.92	18.90	17.84	20.67	19.81	19.00	18.28	17.11	14.63
30	11.60	11.04	10.82	10.76	10.79	10.88	11.99	12.17	13.39	13.74	14.73	14.81	14.62	16.17	15.41	16.23	16.40	17.10	14.62
40	11.58	11.04	10.83	10.77	10.79	10.83	11.03	11.67	12.53	11.76	12.58	12.27	12.17	12.77	12.31	12.92	12.47	13.28	14.60
50	11.57	11.05	10.82	10.77	10.79	10.79	10.85	10.92	11.92	11.14	11.31	11.51	11.43	11.45	11.44	11.53	11.59	11.84	11.32
60	11.57	11.05	10.83	10.77	10.73	10.77	10.80	10.77	11.50	10.86	11.02	11.07	11.06	11.04	11.10	11.13	11.13	11.20	11.05
70	11.55	11.05	10.83	10.77	10.70	10.75	10.75	10.74	10.93	10.78	10.88	10.88	10.92	10.92	10.92	10.95	10.95	10.94	10.93
80	11.50	11.05	10.83	10.77	10.70	10.74	10.72	10.73	10.85	10.78	10.81	10.83	10.83	10.85	10.85	10.86	10.86	10.88	10.87
90	11.43	11.05	10.83	10.77	10.70	10.70	10.71	10.72	10.77	10.75	10.77	10.79	10.79	10.81	10.83	10.82	10.83	10.87	10.85
100	11.38	11.05	10.82	10.77	10.69	10.70	10.70	10.71	10.75	10.74	10.75	10.79	10.76	10.80	10.80	10.80	10.81	10.85	10.83
110	11.36	11.05	10.82	10.77	10.69	10.66	10.69	10.71	10.73	10.74	10.74	10.77	10.75	10.78	10.78	10.78	10.79	10.82	10.82
120	11.25	11.06	10.82	10.77	10.69	10.66	10.68	10.70	10.72	10.72	10.74	10.76	10.74	10.78	10.77	10.77	10.78	10.81	10.81
130	11.12		10.82	10.77		10.66	10.68	10.70	10.71	10.71	10.74	10.75	10.73	10.77		10.76	10.77	10.80	10.80
140	11.05		10.82	10.77		10.64	10.67		10.70	10.71	10.72	10.74	10.73		10.76			10.79	10.79
150	11.01		10.81	10.77		10.63													
Dissolved Oxygen (g m ⁻³)																			
0	10.78	10.94	11.02	11.07	10.92	10.35	10.76	10.43	10.24	9.74	9.39	9.13	8.30	8.95	9.26	9.86	9.74	9.60	10.11
10	10.57	10.90	10.72	10.77	10.81	9.57	10.77	10.36	10.23	9.61	9.42	9.19	8.28	8.78	9.01	9.85	9.44	9.44	9.93
20	10.72	10.85	10.76	10.77	10.88	9.53	10.81	10.45	10.28	9.87	9.44	9.22	9.02	8.78	9.01	9.81	9.38	9.39	9.76
30	10.77	10.89	10.69	10.77	10.80	9.42	10.84	10.44	10.29	9.78	9.48	9.34	9.15	9.46	9.42	9.89	9.41	9.35	9.70
40	10.79	10.83	10.66	10.70	10.81	9.38	10.66	10.35	10.32	9.74	9.68	9.63	9.06	8.86	8.90	9.24	8.81	8.97	9.65
50	10.84	10.83	10.68	10.67	10.79	9.31	10.62	10.18	10.24	9.52	9.53	9.66	8.85	8.64	8.75	8.90	8.74	8.71	8.78
60	10.75	10.80	10.67	10.66	10.72	9.29	10.45	9.98	10.10	9.41	9.35	9.66	8.77	8.68	8.82	8.86	8.68	8.73	8.87
70	10.71	10.82	10.63	10.64	10.66	9.23	10.43	9.96	9.92	9.35	9.34	9.52	8.73	8.68	8.85	8.75	8.58	8.66	8.75
80	10.61	10.85	10.62	10.67	10.66	9.19	10.28	9.85	9.80	9.19	9.24	9.33	8.75	8.40	8.78	8.79	8.61	8.26	8.46
90	10.60	10.77	10.61	10.65	10.65	9.14	10.29	9.83	9.77	9.17	9.26	9.26	8.76	8.64	8.53	8.54	8.41	8.03	8.45
100	10.30	10.82	10.63	10.66	10.68	9.07	10.19	9.81	9.62	9.13	9.18	9.03	8.79	8.34	8.49	8.57	8.42	7.94	8.41
110	10.17	10.74	10.65	10.65	10.77	9.08	10.20	9.80	9.57	9.09	9.18	8.93	8.66	8.29	8.56	8.34	8.31		8.10
120	9.61	10.74	10.66	10.66	10.69	9.07	10.13	9.73	9.49	8.93	9.11	8.82	8.65	8.25	8.50	8.47	8.10		8.08
130	8.89		10.68	10.63		9.05	10.09	9.75	9.37	8.93	9.11	8.74	8.19	8.35		8.06	7.88		7.97
140	8.52		10.66	10.61		8.99	10.00		9.29	8.96	8.92	8.47	8.13			7.94			7.76
150	8.12		10.61	10.63		8.99													
Secchi depth (m)	2/07/2015	30/07/2015	13/08/2015	27/08/2015	17/09/2015	1/10/2015	15/10/2015	2/11/2015	19/11/2015	1/12/2015	7/01/2016	21/01/2016	3/02/2016	9/03/2016	22/03/2016	7/04/2016	19/04/2016	5/05/2016	2/06/2016
	14.25	13	10	12.5	18.5	17.25	14.5	16	14	14.5	18	14	18	no secchi	17	15	14.75	14.2	14.3

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.														2014-2015						
Mid-Lake site A																				
Temperature																				
Date	1/07/2014	21/07/2014	26/08/2014	9/09/2014	8/10/2014	20/10/2014	5/11/2014	25/11/2014	17/12/2014	14/01/2015	29/01/2015	12/02/2015	26/02/2015	9/03/2015	25/03/2015	21/04/2015	11/05/2015	27/05/2015	18/06/2015	2/07/2015
Depth (m)																				
0	12.86	11.76	11.48	12.06	11.15	12.91	13.34	14.63	15.43	20.35	20.91	19.47	20.00	20.08	19.11	17.15	15.63	13.79	12.34	11.59
10	12.87	11.51	11.08	11.17	11.18	12.76	12.83	13.58	15.41	20.17	20.87	19.32	20.00	19.64	18.94	17.07	15.66	13.69	12.35	11.61
20	12.87	11.50	11.07	11.12	11.18	11.44	12.55	13.44	15.33	16.18	17.05	18.85	18.09	19.61	18.92	17.03	15.65	13.68	12.35	11.61
30	12.88	11.50	11.06	11.03	11.18	11.27	12.46	13.32	13.91	13.82	14.27	14.16	14.92	14.72	15.30	15.20	15.66	13.67	12.35	11.60
40	12.88	11.50	11.05	10.99	11.17	11.23	12.06	12.49	13.02	12.60	12.67	12.73	13.41	12.84	12.98	12.80	15.63	13.67	12.35	11.58
50	12.88	11.49	11.05	10.99	11.18	11.20	11.82	11.58	11.92	11.86	11.80	11.99	12.32	11.75	11.88	11.78	12.19	13.65	12.35	11.57
60	12.85	11.46	11.05	10.99	11.17	11.20	11.57	11.31	11.37	11.38	11.44	11.59	11.55	11.43	11.52	11.29	11.52	13.57	12.35	11.57
70	11.66	11.42	11.05	10.98	11.16	11.20	11.38	11.25	11.22	11.25	11.30	11.40	11.44	11.26	11.32	11.11	11.15	11.77	12.15	11.55
80	11.53	11.39	11.05	10.98	11.15	11.19	11.25	11.20	11.18	11.19	11.25	11.27	11.29	11.23	11.29	11.01	11.04	11.48	11.20	11.50
90	11.44	11.37	11.04	10.97	11.14	11.18	11.18	11.16	11.14	11.16	11.19	11.23	11.22	11.20	11.24	10.97	10.98	11.36	11.12	11.43
100	11.40	11.36	11.04	10.97	11.13	11.18	11.14	11.14	11.12	11.13	11.16	11.20	11.19	11.19	11.24	10.94	10.95	11.23	11.05	11.38
110	11.37	11.36	11.04	10.97	11.13	11.17	11.13	11.11	11.10	11.12	11.15	11.17	11.17	11.18	11.20	10.91	10.93	11.08	11.02	11.36
120	11.36	11.35	11.04	10.96	11.11	11.17	11.12	11.09	11.10	11.11	11.13	11.13	11.15	11.18	11.19	10.90	10.93	11.03	11.00	11.25
130		11.35	11.04	10.95	11.09	11.14	11.07	11.04	10.95	11.11	11.11	11.12	11.11	11.16	11.15	10.89	10.91	11.00	10.99	11.12
140		11.35	11.04	10.95	11.05	11.10	11.06	11.09	11.10	11.11	11.11	11.11		11.15	11.15	10.88	10.90	10.98		11.05
150		11.35	11.03		11.00		11.05	11.08							11.15			10.95		11.01
Dissolved Oxygen (g m ⁻³)																				
0	10.55	10.82	10.81	10.75	10.93	10.48	10.41	10.13	9.92	9.04	8.86	9.15	8.97	9.02	9.18	9.61	9.96	10.37	10.72	10.78
10	10.28	10.62	11.07	11.40	10.82	10.41	10.19	10.16	9.86	9.11	8.81	9.14	9.02	9.06	9.15	9.35	9.85	10.14	10.46	10.57
20	10.26	10.47	11.25	10.67	10.83	10.50	10.34	10.22	9.91	9.61	9.42	9.28	9.27	9.05	9.08	9.52	9.95	10.28	10.59	10.72
30	10.15	10.25	11.23	10.43	10.74	10.30	10.27	10.17	9.80	9.67	9.60	9.23	9.46	9.30	9.24	9.62	9.97	10.31	10.72	10.77
40	10.04	10.16	11.12	10.21	10.63	10.04	10.11	9.90	9.85	9.44	9.39	9.57	9.37	9.32	9.39	10.03	9.92	10.27	10.66	10.79
50	10.02	9.99	10.90	10.09	10.60	9.98	10.06	9.90	9.63	9.35	9.21	9.44	9.17	9.07	9.25	9.77	9.88	10.28	10.67	10.84
60	9.96	9.54	10.83	10.03	10.60	9.92	10.00	9.79	9.38	9.07	8.93	9.29	8.60	8.61	8.73	9.29	9.25	10.16	10.60	10.75
70	8.67	8.96	10.72	10.05	10.56	9.92	9.88	9.77	9.33	9.02	8.80	9.22	8.49	8.44	8.48	9.14	9.07	9.62	10.54	10.71
80	8.38	8.40	10.61	10.03	10.52	9.89	9.81	9.69	9.19	8.96	8.67	9.01	8.38	8.33	8.02	8.98	8.71	9.32	9.19	10.61
90	8.26	8.29	10.54	10.01	10.51	9.87	9.69	9.58	9.12	8.89	8.66	8.94	8.33	8.25	7.94	8.73	8.63	9.15	9.07	10.60
100	8.19	8.08	10.50	9.96	10.47	9.86	9.57	9.39	9.03	8.70	8.50	8.90	8.28	7.94	7.71	8.55	8.29	8.89	8.76	10.30
110	8.10	8.04	10.46	9.98	10.41	9.85	9.52	9.27	8.98	8.60	8.42	8.93	8.24	7.87	7.71	8.48	8.09	8.61	8.61	10.17
120	8.04	7.94	10.42	9.87	10.39	9.82	9.46	9.15	8.89	8.24	8.37	8.80	7.97	7.69	7.73	8.35	7.77	8.43	8.41	9.61
130		7.89	10.41	9.86	10.31	9.80		9.11	8.78	8.10	8.18	8.67		7.69	7.91	7.45	8.04	8.31	8.23	8.89
140		7.74	10.37	9.86	10.15	9.67		8.87	8.61	7.90	7.68	8.17		7.38	7.37	7.29	7.70	8.19		8.52
150		7.71	10.31		10.04			8.72	8.43						7.10			8.04		8.11
Drift angle																				
Secchi depth (m)	12.75	15.5	11	11.25	14	13	15	12	15	16	17.25	17	18 na		18	17.25	13	12	16.25	14.25

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.											2013-2014														
Mid-Lake site A for the period starting 22 July 2013																									
Temperature																									
Date	22/07/2013	6/08/2013	21/08/2013	3/09/2013	18/09/2013	2/10/2013	21/10/2013	7/11/2013	20/11/2013	2/12/2013	8/01/2014	28/01/2014	12/02/2014	25/02/2014	12/03/2014	27/03/2014	9/04/2014	23/04/2014	8/05/2014	20/05/2014	5/06/2014	19/06/2014	1/07/2014	21/07/2014	
Depth (m)	0	11.50	11.54	11.21	11.20	11.56	11.73	12.81	13.53	16.69	17.41	18.54	18.06	18.55	19.16	19.05	18.23	18.60	17.41	16.32	15.41	14.01	13.38	12.86	11.76
10	11.48	11.36	11.21	11.18	11.20	11.70	12.65	13.42	14.77	17.11	18.43	18.02	18.54	19.17	18.56	18.25	18.53	17.36	16.32	15.40	14.06	13.39	12.87	11.51	
20	11.48	11.33	11.21	11.18	11.18	11.54	12.41	13.12	13.64	17.05	17.85	17.69	18.40	18.99	18.26	18.25	18.52	17.35	16.32	15.40	14.06	13.39	12.87	11.50	
30	11.47	11.32	11.21	11.18	11.18	11.52	12.14	12.23	12.52	12.61	13.39	14.95	15.41	15.82	15.81	17.25	17.76	17.35	16.32	15.39	14.06	13.40	12.88	11.50	
40	11.47	11.31	11.21	11.15	11.18	11.48	12.05	11.81	11.88	12.25	12.11	12.00	12.37	12.55	12.62	13.01	12.99	13.19	15.86	15.35	14.03	13.39	12.88	11.50	
50	11.47	11.30	11.19	11.15	11.18	11.47	11.94	11.55	11.67	11.73	11.71	11.65	11.76	11.87	11.80	11.97	11.89	11.98	12.16	12.35	12.45	12.17	12.88	11.49	
60	11.42	11.29	11.19	11.15	11.17	11.45	11.85	11.42	11.56	11.54	11.56	11.54	11.56	11.66	11.57	11.72	11.56	11.63	11.68	11.78	11.68	11.56	12.85	11.46	
70	11.37	11.28	11.19	11.15	11.17	11.37	11.59	11.30	11.39	11.45	11.44	11.42	11.44	11.51	11.47	11.54	11.46	11.49	11.53	11.54	11.48	11.46	11.66	11.42	
80	11.35	11.28	11.19	11.15	11.17	11.20	11.32	11.23	11.35	11.40	11.38	11.35	11.36	11.44	11.41	11.43	11.41	11.43	11.44	11.44	11.44	11.42	11.41	11.53	11.39
90	11.28	11.28	11.18	11.15	11.16	11.17	11.24	11.19	11.28	11.31	11.32	11.30	11.33	11.36	11.37	11.38	11.35	11.37	11.38	11.39	11.39	11.38	11.44	11.37	
100	11.26	11.25	11.17	11.15	11.16	11.16	11.21	11.17	11.27	11.24	11.28	11.27	11.31	11.32	11.33	11.32	11.33	11.34	11.36	11.36	11.35	11.35	11.40	11.36	
110	11.22	11.21	11.17	11.15	11.15	11.15	11.17	11.15	11.26	11.20	11.23	11.25	11.29	11.28	11.31	11.33	11.31	11.31	11.32	11.33	11.34	11.34	11.37	11.36	
120	11.20	11.18	11.17	11.16	11.15	11.15	11.16	11.14	11.20	11.18	11.21	11.24	11.27	11.26	11.28	11.30	11.30	11.29	11.31	11.31	11.32	11.33	11.36	11.35	
130	11.18	11.16	11.17	11.15	11.14	11.15	11.15	11.13	11.19	11.16	11.19	11.22	11.26	11.24	11.26	11.28	11.27	11.28	11.29	11.30	11.31	11.31	11.35	11.35	
140	11.11	11.16	11.17	11.16	11.14	11.14	11.14	11.12	11.16	11.15	11.19	11.20	11.23	11.23	11.26	11.27	11.26	11.27	11.28	11.29	11.30	11.31	11.35	11.35	
150	11.11	11.16	11.17	11.15	11.13	11.13	11.14	11.12	11.15	11.15	11.19	11.20	11.22	11.23	11.25	11.26	11.26	11.27	11.28	11.28	11.29	11.29	11.35	11.35	
Dissolved Oxygen (g m ⁻³)																									
Depth (m)	0	10.93	10.80	10.67	10.90	10.83	10.91	10.55	10.31	9.79	9.53	9.39	9.31	9.25	9.20	9.25	9.31	9.29	9.56	9.73	9.92	10.23	10.33	10.55	10.82
10	11.43	10.66	11.18	11.15	11.27	11.40	10.71	10.26	9.68	9.16	9.22	8.79	9.17	9.07	9.12	9.03	9.20	9.49	9.74	9.72	9.89	10.19	10.28	10.62	
20	11.11	10.19	10.68	10.97	11.07	11.11	10.35	10.13	9.76	9.03	8.93	8.51	9.05	9.02	9.12	9.01	9.20	9.48	9.84	9.64	9.83	10.13	10.26	10.47	
30	11.05	9.91	10.78	10.90	10.89	11.01	10.08	9.87	9.60	8.90	9.35	8.14	8.58	8.36	8.68	8.56	9.01	9.34	9.76	9.54	9.78	10.06	10.15	10.25	
40	11.32	8.91	11.01	10.99	10.91	10.87	10.15	9.70	9.44	8.91	9.28	9.00	9.01	8.72	8.78	8.59	8.54	8.76	9.47	9.43	9.71	9.94	10.04	10.16	
50	11.61	8.50	11.23	10.88	10.87	10.82	10.12	9.68	9.22	8.69	9.29	8.98	8.99	8.59	8.56	8.46	8.38	8.73	8.98	8.77	9.18	9.55	10.02	9.99	
60	11.72	7.49	11.44	11.00	10.89	10.91	10.15	9.46	9.18	8.65	9.16	8.93	9.09	8.46	8.35	8.22	8.31	8.63	8.90	8.54	8.38	8.76	9.96	9.54	
70	11.61	7.13	11.32	11.00	10.74	10.84	9.89	9.29	8.94	8.55	9.32	9.04	9.02	8.38	8.27	8.13	8.25	8.57	8.85	8.43	8.29	8.58	8.67	8.96	
80	11.68	6.07	11.00	10.88	10.48	10.62	9.62	9.23	8.87	8.48	9.08	8.82	8.80	8.28	8.23	8.05	8.18	8.45	8.67	8.30	8.19	8.55	8.38	8.40	
90	11.44	5.39	10.64	10.84	10.45	10.44	9.18	9.00	8.65	8.45	8.83	8.35	8.74	8.25	8.14	8.03	8.10	8.40	8.61	8.21	8.08	8.45	8.26	8.29	
100	11.21	5.07	10.42	10.61	10.16	10.28	8.84	8.87	8.58	8.44	8.49	8.17	8.55	8.10	8.16	7.76	7.97	8.24	8.45	8.10	7.96	8.30	8.19	8.08	
110	10.81	4.64	10.03	10.56	10.05	9.97	8.70	8.67	8.21	8.39	8.19	7.82	8.47	8.10	7.99	7.79	7.88	8.12	8.19	7.86	7.65	8.00	8.10	8.04	
120	10.44	4.11	9.78	10.40	9.73	9.65	8.43	8.47	8.28	8.26	8.04	7.55	8.22	7.83	7.83	7.81	7.78	7.96	7.95	7.70	7.49	7.92	8.04	7.94	
130	10.36		9.71	10.05	9.56	9.45	8.29	8.22	8.18	8.15	7.59	7.34	8.13	7.70	7.75	7.65	7.58	7.85	7.81	7.54	7.33	7.75		7.89	
140	9.99		9.58	9.75	9.20	9.02	7.93	8.09	8.02	7.95	7.49	7.04	7.71	7.41	7.46	7.32	7.32	7.63	7.58	7.17	7.21			7.74	
150	9.02		9.57	9.49	8.97	8.48	7.63	8.02	7.60	7.62	7.35	6.53	7.46	6.98	6.73	7.13	6.73	7.10	7.50	7.16	7.07			7.71	
			O-ring not released																			Drift angle	Drift angle		
Secchi depth (m)	14	12	12.8	11.5	12	12	11	10	9	10	12	13	13.5	15	18	14.5	16.5	14.8	17.7	16	12	14	12.75	15.5	

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.											2012-2013											
Mid-Lake site A for the period starting 1 August 2012																						
Temperature																						
Date	1/08/2012	17/08/2012	29/08/2012	20/09/2012	4/10/2012	24/10/2012	8/11/2012	22/11/2012	6/12/2012	19/12/2012	23/01/2013	7/02/2013	21/02/2013	6/03/2013	20/03/2013	4/04/2013	22/04/2013	7/05/2013	23/05/2013	6/06/2013	19/06/2013	22/07/2013
Depth (m)	no profile																					
0	11.15	11.25		11.17	11.45	12.35	13.45	16.40	14.97	17.75	19.02	18.83	20.41	20.01	19.52	19.58	17.49	16.50	15.25	13.99	13.37	11.50
10	11.17	11.07		10.91	11.45	11.59	13.23	14.06	14.83	17.35	18.79	18.82	20.24	20.01	19.55	19.48	17.50	16.47	15.29	14.00	13.37	11.48
20	11.17	11.02		10.71	11.45	11.55	12.95	13.73	14.34	15.74	17.40	18.11	19.42	19.99	19.56	19.45	17.49	16.46	15.32	14.00	13.38	11.48
30	11.18	11.01		10.70	11.44	11.52	12.40	13.10	13.80	14.16	14.32	15.66	16.05	15.73	14.81	15.96	15.87	16.07	15.34	14.00	13.38	11.47
40	11.19	10.99		10.70	11.13	11.51	11.75	11.93	12.22	12.30	12.25	13.20	12.63	12.98	12.48	12.95	12.81	12.47	14.85	13.88	13.38	11.47
50	11.19	10.99		10.68	10.94	11.49	11.47	11.60	11.53	11.65	11.67	12.02	12.02	11.98	11.69	11.88	11.79	11.69	12.03	11.72	12.12	11.47
60	11.19	10.98		10.68	10.92	11.43	11.30	11.38	11.27	11.41	11.45	11.46	11.64	11.48	11.42	11.52	11.45	11.42	11.50	11.47	11.41	11.42
70	11.19	10.97		10.67	10.92	11.37	11.13	11.22	11.19	11.28	11.32	11.29	11.37	11.33	11.22	11.32	11.28	11.29	11.25	11.31	11.24	11.37
80	11.20	10.96		10.66	10.91	11.34	11.04	11.17	11.11	11.14	11.22	11.18	11.28	11.21	11.15	11.21	11.18	11.18	11.17	11.20	11.15	11.35
90	11.20	10.95		10.64	10.90	11.29	10.99	11.05	11.07	11.06	11.15	11.08	11.15	11.13	11.10	11.13	11.12	11.13	11.12	11.13	11.11	11.28
100	11.19	10.95		10.63	10.88	11.25	10.95	11.04	11.04	11.03	11.08	11.08	11.11	11.05	11.07	11.09	11.08	11.09	11.09	11.09	11.07	11.26
110	11.17	10.94		10.61	10.86	11.18	10.91	10.97	11.01	11.00	11.04	11.05	11.06	11.01	11.03	11.06	11.05	11.06	11.06	11.06	11.06	11.22
120	11.16	10.94		10.60	10.82	11.10	10.89	10.95	10.96	10.98	11.01	11.04	11.02	11.00	11.00	11.05	11.03	11.04	11.04	11.03	11.05	11.20
130	11.16	10.94		10.60	10.82	11.00	10.86	10.92	10.96	10.96	11.02	10.98	11.02	10.98	10.99	11.03	11.02	11.03	11.02	11.02	11.04	11.18
140	11.16	10.94		10.60	10.82	10.97	10.85	10.90	10.90	10.94	10.96	10.98	10.97	10.97	10.99	11.02	11.01	11.01	11.01	11.01	11.03	11.11
150	11.16	10.94		10.60	10.82	10.91	10.84	10.90	10.89	10.93	10.94	10.97	10.96	10.96	10.98	11.00	11.00	11.00	11.00	11.00	11.03	11.11
Dissolved Oxygen (g m ⁻³)				4/10/2012	24/10/2012	8/11/2012	22/11/2012	6/12/2012	19/12/2012	23/01/2013	7/02/2013	21/02/2013	6/03/2013	20/03/2013	4/04/2013	22/04/2013	7/05/2013	23/05/2013	6/06/2013	19/06/2013	22/07/2013	
Depth (m)																						
0	11.03	10.90		11.00	11.20	10.68	10.40	9.56	9.50	9.14	9.05	8.76	8.73	8.76	10.61	9.11	9.05	9.70	9.70	10.27	10.14	10.93
10	11.19	11.09		11.03	11.24	10.81	10.57	9.88	9.64	9.29	9.17	8.86	8.87	8.73	12.43	13.37	9.08	9.71	9.72	10.26	10.15	11.43
20	11.13	10.77		11.06	11.14	10.66	10.53	9.79	9.68	9.56	9.52	9.14	9.04	8.62	9.69	9.73	9.00	9.68	9.67	10.17	10.16	11.11
30	11.21	10.77		11.07	11.18	10.70	10.68	9.85	9.75	9.79	10.31	9.59	9.92	9.59	9.72	10.07	9.11	9.63	9.64	10.17	10.18	11.05
40	11.10	10.44		11.10	10.93	10.56	10.53	9.60	9.75	9.79	9.74	9.56	9.62	9.63	9.34	9.90	9.05	9.45	9.62	10.15	10.19	11.32
50	11.01	10.24		11.12	10.57	10.60	10.49	9.59	9.46	9.28	9.57	9.22	9.40	9.23	8.97	9.38	8.73	9.02	9.04	9.38	10.17	11.61
60	11.11	10.18		11.17	10.44	10.37	9.99	9.19	8.93	9.01	9.29	8.68	8.96	8.92	8.80	9.08	8.64	8.66	8.92	9.11	9.38	11.72
70	11.11	10.04		11.18	10.43	10.43	9.91	9.02	8.84	8.90	8.87	8.52	8.78	8.67	8.91	8.74	8.49	8.76	8.75	8.99	9.11	11.61
80	11.05	10.22		11.21	10.37	10.34	9.57	8.87	8.78	8.73	8.86	8.25	8.60	8.22	8.91	8.71	8.39	8.80	8.54	8.84	8.99	11.68
90	10.79	10.22		11.22	10.36	10.31	9.55	8.87	8.70	8.62	8.37	8.21	8.38	8.00	8.72	8.28	8.24	8.56	8.34	8.60	8.84	11.44
100	10.02	10.15		11.25	10.27	10.19	9.40	8.50	8.49	8.44	8.40	7.91	8.17	8.14	8.82	8.06	7.93	8.38	8.10	8.32	8.60	11.21
110	9.41	10.16		11.26	10.19	10.12	9.44	8.68	8.38	8.38	8.27	7.89	8.08	7.97	8.73	7.86	7.71	7.92	8.02	7.89	8.32	10.81
120	9.23	10.02		11.30	10.34	9.96	9.34	8.59	8.51	8.25	8.36	7.78	7.77	7.74	8.13	7.73	7.40	7.46	7.79	7.71	7.89	10.44
130	9.10	9.98		11.32	10.30	9.95	9.34	8.61	8.53	8.20	8.22	7.74	7.75	7.74		7.69	7.36	7.19	7.53	7.64	7.71	10.36
140	9.10	9.98		11.34	10.26	9.75	9.10	8.28	8.35	7.87	7.93	7.84	7.40	7.74		7.57	6.94	7.16	7.46	7.56	7.64	9.99
150	9.05	9.98		11.41	10.26	9.51	8.91	8.21	8.07	7.72	7.39	7.41	7.08	7.74		7.23	6.81	7.11	7.35	7.53	7.56	9.02
Secchi depth	Probe error																					
(m)	17	14		13	12.5	13.6	17	18	19	19	15.8	15	19	21	14	18	14.7	14.25	15	14.5	15	14

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.												2011-2012											
Mid-Lake site A for the period starting 9 August 2011																							
Temperature																							
Date	9/08/2011	24/08/2011	7/09/2011	28/09/2011	26/10/2011	8/11/2011	22/11/2011	8/12/2011	22/12/2011	12/01/2012	26/01/2012	16/02/2012	7/03/2012	10/04/2012	7/05/2012	30/05/2012	14/06/2012	2/07/2012	18/07/2012	1/08/2012	17/08/2012	29/08/2012	20/09/2012
Depth (m)												no profile											
0	11.07	10.88	11.09	11.02	13.02	14.12	14.59	16.81	18.23	18.91	19.02		18.17	16.64	15.07	13.41	12.64	11.64	11.44	11.15	11.25		11.17
10	10.95	10.80	10.95	11.02	12.80	13.80	14.55	16.26	16.67	18.64	19.01		17.56	16.47	15.07	13.47	12.68	11.62	11.28	11.17	11.07		10.91
20	10.94	10.75	10.88	11.01	12.31	13.37	14.52	14.83	15.55	16.68	18.30		17.26	16.42	15.07	13.48	12.68	11.62	11.27	11.17	11.02		10.71
30	10.93	10.74	10.76	10.96	11.82	13.00	14.20	13.56	13.57	14.81	16.51		16.24	16.21	15.07	13.50	12.67	11.61	11.26	11.18	11.01		10.70
40	10.94	10.73	10.76	10.84	11.05	11.67	12.15	12.25	12.35	12.58	12.21		12.77	14.24	15.03	13.49	12.66	11.61	11.26	11.19	10.99		10.70
50	10.94	10.72	10.75	10.81	10.92	11.15	11.36	11.54	11.56	11.89	12.13		11.82	11.95	12.50	11.95	12.67	11.61	11.26	11.19	10.99		10.68
60	10.94	10.71	10.75	10.80	10.86	10.92	11.00	11.11	11.15	11.31	11.17		11.30	11.24	11.65	11.43	11.61	11.60	11.26	11.19	10.98		10.68
70	10.94	10.71	10.75	10.79	10.81	10.85	10.89	10.96	11.04	11.07	11.14		11.12	11.06	11.23	11.17	11.19	11.59	11.25	11.19	10.97		10.67
80	10.94	10.71	10.75	10.78	10.79	10.83	10.86	10.91	11.01	10.96	10.96		11.02	10.98	11.09	11.02	11.02	11.24	11.18	11.20	10.96		10.66
90	10.94	10.71	10.75	10.77	10.77	10.80	10.83	10.85	10.93	10.92	10.93		10.96	10.91	11.01	10.97	10.97	11.00	11.04	11.20	10.95		10.64
100	10.93	10.71	10.75	10.76	10.75	10.78	10.82	10.85	10.95	10.89	10.89		10.93	10.89	10.97	10.93	10.95	10.99	10.97	11.19	10.95		10.63
110	10.93	10.71	10.75	10.75	10.75	10.76	10.80	10.81	10.88	10.87	10.87		10.89	10.87	10.92	10.89	10.95	10.95	10.94	11.17	10.94		10.61
120	10.93	10.70	10.74	10.74	10.73	10.75	10.79	10.81	10.88	10.85	10.86		10.87	10.84	10.89	10.87	10.92	10.91	10.92	11.16	10.94		10.60
130	10.93	10.70	10.73	10.73	10.72	10.74	10.78	10.78	10.84	10.83	10.83		10.84	10.82	10.87	10.85	10.90	10.89	10.91	11.16	10.94		10.60
140	10.92	10.70	10.72	10.72	10.72	10.73	10.77	10.77	10.85	10.82	10.83		10.84	10.81	10.86	10.84	10.88	10.88	10.90	11.16	10.94		10.60
150	10.92	10.70	10.71	10.72	10.72	10.72	10.76	10.76	10.82	10.81	10.83		10.83	10.81	10.85	10.83	10.86	10.88	10.89	11.16	10.94		10.60
Dissolved Oxygen (g m ⁻³)																							
Depth (m)																							
0	10.49	10.58	10.50	10.57	10.55	10.73	10.33	9.97	9.38	9.29	9.26		9.40	9.70	10.07	10.40	10.60	10.90	10.90	11.03	10.90		11.00
10	10.62	10.59	10.64	10.56	11.22	11.45	11.18	11.11	10.16	9.95	9.21		10.23	9.91	10.00	11.23	11.28	10.98	11.12	11.19	11.09		11.03
20	10.53	10.45	10.62	10.52	11.91	11.69	11.66	11.95	10.92	11.21	9.56		10.24	9.88	9.40	11.49	10.63	10.93	10.83	11.13	10.77		11.06
30	10.40	10.32	10.40	10.50	12.08	11.55	11.57	11.85	11.26	11.50	9.76		10.45	9.83	9.22	11.59	10.78	10.87	10.91	11.21	10.77		11.07
40	10.32	10.23	10.34	10.25	11.68	11.44	11.72	11.74	11.16	11.06	10.18		10.63	9.57	9.01	10.77	10.57	10.86	10.70	11.10	10.44		11.10
50	10.36	10.22	10.31	10.18	11.54	11.11	11.61	11.20	10.96	10.88	9.89		10.52	9.50	9.24	10.10	10.69	10.81	10.84	11.01	10.24		11.12
60	10.34	10.19	10.27	10.13	11.34	10.62	10.84	10.67	10.46	10.47	9.71		10.07	9.36	9.20	9.38	9.33	10.78	10.66	11.11	10.18		11.17
70	10.38	10.11	10.13	10.10	11.24	10.61	10.79	10.64	10.47	10.47	9.46		10.04	9.24	6.84	9.31	9.26	10.69	10.79	11.11	10.04		11.18
80	10.29	10.06	10.21	10.08	11.15	10.39	10.43	10.17	10.01	10.13	9.40		9.62	9.02	10.17	8.94	8.84	9.85	9.71	11.05	10.22		11.21
90	10.28	10.05	10.08	10.06	11.13	10.38	10.30	10.20	10.06	10.06	9.31		9.50	8.99	6.39	8.89	8.87	8.81	9.23	10.79	10.22		11.22
100	10.31	10.01	10.17	10.00	11.05	10.20	9.92	9.90	9.71	9.49	9.14		9.13	8.85	10.68	8.72	8.63	8.64	8.35	10.02	10.15		11.25
110	10.29	9.99	10.05	9.95	10.94	10.17	9.93	10.01	9.74	9.38	9.10		9.12	8.89	6.26	8.66	8.40	8.38	8.35	9.41	10.16		11.26
120	10.29	9.95	10.10	9.91	10.96	10.01	9.47	9.52	9.33	9.12	8.87		8.84	8.62	8.17	8.44	8.26	8.16	8.20	9.23	10.02		11.30
130	10.30	9.89	9.92	9.89	10.77	10.02	9.39	9.45	9.49	9.18	8.80		8.83	8.59	7.63	8.33	8.33	8.08	8.15	9.10	9.98		11.32
140	10.25	9.90	9.99	9.89	10.50	9.63	9.13	9.27	9.38	9.02	8.61		8.23	8.27	8.13	7.84	7.92	7.99	7.84	9.10	9.98		11.34
150	10.20	9.90	9.66	9.66	10.45	9.43	8.94	8.57	8.88	8.42	8.02		8.01	8.03	8.90	7.57	7.83	7.99	7.75	9.05	9.98		11.41
Secchi depth																							
(m)	16	9	16	13	14	14	18	18.5	13	16.5	15	16	16	17	17	17	14	15.5	17	17	14		13

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.											2010-2011									
Mid-Lake site A for the period starting 13 July 2010																				
Temperature																				
Date	13/07/2010	10/08/2010	24/08/2010	13/09/2010	5/10/2010	26/10/2010	10/11/2010	25/11/2010	21/12/2010	11/01/2011	27/01/2011	17/02/2011	1/03/2011	15/03/2011	13/04/2011	10/05/2011	31/05/2011	22/06/2011	5/07/2011	9/08/2011
Depth (m)																				
0	11.31	11.01	10.92	11.37	11.90	13.00	13.98	15.96	18.32	19.75	19.62	20.54	20.47	19.94	17.68	15.51	14.13	13.11	12.35	11.07
10	11.29	10.96	10.86	11.02	11.66	11.72	13.25	15.65	18.25	19.62	19.58	20.44	20.48	19.72	17.67	15.52	14.14	13.13	12.33	10.95
20	11.29	10.95	10.85	10.95	11.23	11.53	13.13	13.81	14.51	17.39	18.98	20.35	20.48	19.53	17.64	15.50	14.15	13.12	12.33	10.94
30	11.28	10.95	10.85	10.89	11.01	11.44	11.88	12.10	12.53	12.88	15.19	16.03	15.33	15.41	17.62	15.43	14.15	13.12	12.33	10.93
40	11.28	10.95	10.85	10.85	10.96	11.37	11.54	11.42	11.66	11.62	12.22	12.26	12.17	12.27	12.12	15.32	14.15	13.13	12.33	10.94
50	11.28	10.95	10.85	10.85	10.88	11.31	11.17	11.11	11.24	11.37	11.47	12.09	11.31	11.43	11.39	12.27	11.84	13.11	12.32	10.94
60	11.26	10.94	10.83	10.83	10.85	11.21	11.02	10.98	11.03	11.08	11.13	11.33	11.10	11.11	11.12	11.28	11.31	11.38	11.41	10.94
70	11.01	10.94	10.81	10.82	10.82	11.03	10.93	10.91	10.92	10.96	10.97	11.09	10.98	11.02	10.99	11.09	11.11	11.19	11.18	10.94
80	10.96	10.92	10.80	10.81	10.80	10.89	10.85	10.87	10.88	10.89	10.90	10.96	10.93	10.97	10.95	11.00	11.03	11.07	11.03	10.94
90	10.79	10.84	10.78	10.81	10.78	10.88	10.82	10.84	10.85	10.86	10.86	10.92	10.92	10.92	10.92	10.97	11.00	11.00	11.02	10.94
100	10.75	10.81	10.76	10.80	10.76	10.83	10.81	10.83	10.84	10.86	10.85	10.89	10.90	10.90	10.89	10.93	10.97	10.97	10.98	10.93
110	10.70	10.75	10.76	10.80	10.75	10.82	10.78	10.81	10.81	10.85	10.84	10.88	10.90	10.87	10.88	10.91	10.95	10.95	10.97	10.93
120	10.68	10.73	10.75	10.80	10.75	10.80	10.77	10.81	10.80	10.84	10.84	10.87	10.88	10.87	10.87	10.90	10.95	10.94	10.97	10.93
130	10.67	10.71	10.75	10.78	10.75	10.78	10.77	10.80	10.79	10.83	10.83	10.87	10.87	10.85	10.86	10.89	10.92	10.92	10.95	10.93
140	10.66	10.71	10.74	10.76	10.75	10.79	10.77	10.80	10.79	10.83	10.83	10.85	10.85	10.85	10.84	10.87	10.92	10.91	10.92	10.92
150	10.66	10.70	10.74	10.76	10.75	10.77	10.77	10.80	10.79	10.82	10.83	10.84	10.85	10.85	10.85	10.84	10.87	10.91	10.90	10.92
Dissolved Oxygen (g m ⁻³)																				
Depth (m)																				
0	10.50	9.50	10.64	11.24	9.90	10.12	9.83	9.57	9.00	8.73	8.76	8.60	8.64	8.30	9.17	9.54	9.85	10.07	10.22	10.49
10	11.42	11.29	10.52	10.92	9.80	9.78	9.68	9.32	8.37	8.00	7.98	8.63	8.64	8.73	9.64	10.26	10.71	10.30	10.27	10.62
20	11.57	11.60	10.50	10.62	9.68	9.76	9.52	10.10	9.06	8.74	7.96	8.61	8.69	9.15	9.93	10.81	11.21	10.84	10.09	10.53
30	11.65	11.63	10.44	10.71	9.64	9.75	9.29	10.07	9.52	8.57	7.91	8.72	8.99	9.55	9.86	10.72	10.99	10.92	10.10	10.40
40	11.35	11.59	10.41	10.13	9.51	9.54	9.18	9.70	9.31	8.86	8.23	9.26	9.40	10.06	10.23	10.51	10.91	11.05	10.07	10.32
50	11.30	11.63	10.37	10.17	9.47	9.56	9.05	9.58	9.14	8.55	8.08	9.17	9.33	9.63	9.78	10.15	10.57	10.97	10.07	10.36
60	11.04	11.67	10.31	10.03	9.34	9.32	8.86	9.24	8.86	8.41	7.90	8.84	8.84	9.13	9.67	9.44	9.26	9.54	8.80	10.34
70	10.73	11.81	10.25	10.04	9.31	9.27	8.81	9.29	8.71	8.29	7.66	8.70	8.76	9.11	9.12	9.28	9.01	9.41	8.62	10.38
80	10.04	11.58	10.22	9.85	9.25	8.90	8.75	9.03	8.49	8.10	7.51	8.28	8.43	8.92	9.08	9.13	8.65	8.96	8.10	10.29
90	9.68	11.21	10.18	9.87	9.19	8.90	8.72	9.24	8.47	7.93	7.42	8.19	8.31	9.03	8.46	9.06	8.72	8.91	8.06	10.28
100	9.25	10.56	10.15	9.64	9.17	8.78	8.73	8.80	8.31	7.70	7.33	7.93	8.03	8.53	8.22	8.59	8.37	8.68	7.81	10.31
110	9.06	10.35	10.10	9.67	9.11	8.73	8.64	9.12	8.35	7.56	7.26	7.90	8.00	8.55	8.06	8.60	8.27	8.53	7.72	10.29
120	8.71	9.83	10.06	9.43	9.04	8.61	8.66	8.84	8.07	7.46	7.18	7.86	7.95	8.40	7.92	8.27	7.91	8.45	7.67	10.29
130	8.66	9.44	10.05	9.49	8.95	8.60	8.66	8.67	8.04	7.45	7.16	7.85	7.91	8.35	7.42	8.06	7.84	8.08	7.54	10.30
140	8.59	9.34	10.10	8.83	8.84	8.36	8.66	8.62	7.50	7.42	7.16	7.80	7.79	7.43	7.48	7.72	7.62	7.81	7.15	10.25
150	8.33	9.10	9.96	8.71	8.81	8.17	8.66	8.51	7.46	7.30	7.16	7.47	7.51	7.52	6.98	7.24	7.40	7.30	7.00	10.20
Secchi depth																				
(m)	14.5	12.8	11	10.5	10.8	12.5	11.5	14.2	17	11	17	12	19	15	17	16.5	17	14	13	16

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.

2009-2010

Mid-Lake site A for the period starting 6 July 2009

Temperature

Date	6/07/2009	13/08/2009	7/09/2009	17/09/2009	19/10/2009	12/11/2009	17/12/2009	13/01/2010	2/02/2010	11/02/2010	18/02/2010	10/03/2010	8/04/2010	28/04/2010	20/05/2010	3/06/2010	23/06/2010	13/07/2010	10/08/2010	
Depth (m)																				
0	10.93	10.43	10.56	11.63	11.72	13.00	16.99	17.89	19.23	20.60	20.45	20.08	17.36	16.38	15.09	14.11	12.23	11.31	11.01	
10	10.93	10.41	10.52	11.08	11.25	12.54	16.25	17.89	19.15	20.53	20.40	20.04	17.35	16.31	15.09	14.00	12.25	11.29	10.96	
20	10.92	10.41	10.51	10.71	11.24	12.43	15.85	17.56	17.60	18.34	18.73	19.69	17.35	16.30	15.09	13.99	12.23	11.29	10.95	
30	10.92	10.41	10.47	10.57	11.20	12.19	13.45	13.21	13.95	14.51	13.91	15.56	17.34	16.12	15.08	13.99	12.25	11.28	10.95	
40	10.91	10.38	10.47	10.50	10.98	11.77	12.54	11.65	11.92	12.03	12.02	12.23	12.28	12.72	12.41	11.71	12.21	11.28	10.95	
50	10.92	10.36	10.47	10.49	10.67	11.40	11.34	11.20	11.13	11.07	11.10	11.20	11.19	11.21	11.25	11.12	11.02	11.28	10.95	
60	10.92	10.36	10.46	10.48	10.58	10.97	10.86	11.02	10.86	10.88	10.86	10.84	10.82	10.85	10.88	10.90	10.84	11.26	10.94	
70	10.92	10.36	10.46	10.48	10.53	10.67	10.68	10.71	10.68	10.68	10.67	10.68	10.67	10.73	10.73	10.77	10.72	11.01	10.94	
80	10.91	10.35	10.46	10.47	10.50	10.56	10.57	10.59	10.59	10.62	10.63	10.62	10.62	10.65	10.66	10.69	10.69	10.96	10.92	
90	10.92	10.34	10.46	10.47	10.49	10.54	10.53	10.51	10.55	10.58	10.57	10.58	10.60	10.60	10.63	10.65	10.67	10.79	10.84	
100	10.92	10.34	10.46	10.46	10.47	10.50	10.49	10.51	10.52	10.55	10.53	10.56	10.57	10.59	10.60	10.63	10.65	10.75	10.81	
110	10.91	10.33	10.46	10.46	10.46	10.46	10.48	10.51	10.52	10.52	10.51	10.53	10.57	10.56	10.58	10.61	10.64	10.70	10.75	
120	10.91	10.33	10.44	10.45	10.44	10.44	10.46	10.49	10.50	10.51	10.51	10.52	10.55	10.55	10.57	10.59	10.64	10.68	10.73	
130	10.91	10.33	10.36	10.42	10.43	10.42	10.44	10.48	10.49	10.50	10.50	10.51	10.53	10.54	10.55	10.56	10.62	10.67	10.71	
140	10.90	10.33	10.35	10.38	10.41	10.40	10.44	10.47	10.49	10.50	10.50	10.51	10.53	10.54	10.55	10.56	10.61	10.66	10.71	
150	10.90	10.30	10.35	10.38	10.41	10.40	10.44	10.46	10.49	10.49	10.50	10.51	10.53	10.54	10.55	10.56	10.61	10.66	10.70	

Dissolved Oxygen (g m⁻³)

Depth (m)																				
0	8.91	9.83	9.37	10.58	11.67	9.88	9.66	9.48	9.29	9.47	9.34	8.84	9.48	10.48	10.57	10.44	10.54	10.50	9.50	
10	9.88	10.72	10.29	11.08	12.13	10.80	9.63	9.18	9.26	9.40	9.32	8.28	10.17	10.17	11.29	10.25	10.86	11.42	11.29	
20	11.06	11.48	10.48	11.00	11.79	10.78	9.58	9.62	9.38	9.71	9.59	8.75	9.66	9.39	10.84	10.34	10.40	11.57	11.60	
30	11.31	11.57	10.49	10.68	11.78	10.84	9.71	9.34	9.17	9.65	9.45	8.92	9.43	9.09	10.63	10.39	10.38	11.65	11.63	
40	11.28	11.39	10.46	10.40	11.24	10.56	9.31	9.15	8.86	8.72	8.75	8.60	9.04	8.53	9.06	9.39	10.28	11.35	11.59	
50	11.29	11.39	10.36	10.31	11.10	10.47	9.29	8.78	8.36	8.21	8.44	8.14	8.57	8.13	8.68	9.26	9.46	11.30	11.63	
60	11.03	11.20	10.18	10.15	10.10	9.86	8.78	8.68	8.06	7.94	7.99	7.73	8.31	7.92	8.11	8.93	9.04	11.04	11.67	
70	11.05	11.16	10.21	10.12	10.02	9.86	8.60	8.31	7.88	7.76	7.97	7.59	8.11	7.84	8.08	8.84	8.82	10.73	11.81	
80	10.83	10.86	10.09	10.11	9.70	9.24	8.34	8.27	7.69	7.74	7.70	7.51	7.97	7.70	8.03	8.54	8.55	10.04	11.58	
90	10.87	10.97	10.16	10.02	9.72	9.26	8.25	7.97	7.47	7.55	7.68	7.38	7.74	7.56	7.70	8.44	8.37	9.68	11.21	
100	10.68	10.87	10.23	10.03	9.51	8.60	8.17	7.71	7.37	7.54	7.41	7.25	7.43	7.42	7.51	8.18	8.26	9.25	10.56	
110	10.72	10.90	10.30	9.95	9.50	8.60	8.05	7.50	7.23	7.37	7.43	7.22	7.27	7.27	7.39	8.10	8.09	9.06	10.35	
120	10.55	10.86	9.91	10.26	9.20	8.20	7.98	7.55	7.23	7.19	7.17	7.15	7.11	7.08	7.17	7.95	8.03	8.71	9.83	
130	10.55	10.71	9.80	10.00	9.18	8.15	7.87	7.37	7.18	7.20	7.12	6.98	7.09	7.05	7.11	7.90	8.00	8.66	9.44	
140	10.48	10.80	9.52	9.69	8.82	7.70	7.62	7.42	6.90	6.95	6.71	6.57	6.82	6.77	6.79	7.18	7.85	8.59	9.34	
150	10.30	10.77	9.46	9.47	8.79	7.72	7.41	7.25	6.88	6.93	6.65	6.46	6.75	6.75	6.73	7.17	7.84	8.33	9.10	

Secchi depth

(m)																				
	15	12	15	*	13	12.5	15	14.5	16	*	17	19	21.5	19	19.5	14.5	14	14.5	12.8	

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.

2008-2009

Mid-Lake site A for the period starting 11 September 2007

Temperature

Date	4/09/2008	16/09/2008	14/10/2008	4/11/2008	26/11/2008	22/12/2008	13/01/2009	22/01/2009	28/01/2009	11/02/2009	25/02/2009	16/03/2009	26/03/2009	15/04/2009	7/05/2009	27/05/2009	18/06/2009	6/07/2009	13/08/2009	
Depth (m)																				
0	10.97	11.34	12.59	13.37	15.45	18.84	19.67	19.84	20.88	21.42	20.46	18.71	17.96	16.60	15.05	12.97	11.60	10.93	10.43	
10	10.92	11.14	12.09	12.94	15.26	17.50	19.55	19.23	20.17	21.21	20.39	18.29	17.95	16.59	15.04	12.96	11.61	10.93	10.41	
20	10.85	10.99	11.93	12.62	15.17	15.77	16.97	19.12	18.45	20.04	20.37	18.25	17.94	16.59	15.04	12.96	11.61	10.92	10.41	
30	10.82	10.93	11.85	12.55	12.87	13.32	13.60	13.90	13.21	13.92	14.47	16.68	13.86	16.58	15.04	12.90	11.61	10.92	10.41	
40	10.79	10.91	11.75	12.35	12.07	12.27	12.19	12.11	11.90	12.09	12.84	12.43	12.13	12.53	12.55	12.62	11.60	10.91	10.38	
50	10.75	10.88	11.59	11.51	11.44	11.39	11.33	11.52	11.31	11.50	11.62	11.56	11.45	11.56	11.64	11.50	11.60	10.92	10.36	
60	10.72	10.79	10.90	10.83	10.93	11.06	11.08	11.04	11.05	11.19	11.18	11.22	11.19	11.12	11.17	11.06	11.60	10.92	10.36	
70	10.69	10.69	10.76	10.79	10.78	10.88	10.89	10.90	10.89	10.97	10.92	10.98	10.98	10.98	11.01	10.94	11.60	10.92	10.36	
80	10.66	10.68	10.71	10.72	10.76	10.81	10.82	10.87	10.84	10.86	10.87	10.88	10.89	10.92	10.93	10.90	11.59	10.91	10.35	
90	10.66	10.66	10.69	10.70	10.77	10.78	10.78	10.81	10.80	10.81	10.82	10.83	10.84	10.88	10.89	10.88	11.41	10.92	10.34	
100	10.65	10.65	10.68	10.68	10.82	10.75	10.76	10.80	10.78	10.77	10.79	10.81	10.81	10.86	10.86	10.86	11.09	10.92	10.34	
110	10.64	10.64	10.66	10.67	10.78	10.73	10.75	10.78	10.74	10.76	10.77	10.80	10.79	10.84	10.86	10.85	11.00	10.91	10.33	
120	10.63	10.64	10.64	10.65	10.78	10.71	10.73	10.77	10.74	10.75	10.76	10.79	10.78	10.82	10.84	10.84	10.98	10.91	10.33	
130	10.63	10.63	10.60	10.63	10.79	10.70	10.72	10.74	10.73	10.73	10.75	10.77	10.77	10.79	10.82	10.82	10.95	10.91	10.33	
140	10.63	10.62	10.59	10.63	10.81	10.70	10.72	10.73	10.72	10.73	10.74	10.77	10.76	10.78	10.80	10.81	10.94	10.90	10.33	
150	10.62	10.62	10.59	10.63	10.80	10.70	10.71	10.74	10.72	10.73	10.74	10.76	10.76	10.78	10.80	10.81	10.89	10.90	10.30	

Dissolved Oxygen (g m⁻³)

Depth (m)																				
0	10.03	9.84	10.29	*	10.09	9.29	8.67	9.24	8.52	8.48	*	9.26	9.44	9.33	10.05	10.13	10.47	8.91	9.83	
10	10.85	10.65	10.29	*	10.08	9.72	9.21	8.89	8.45	8.34	*	9.16	10.06	10.11	10.15	10.25	10.73	9.88	10.72	
20	10.90	11.05	10.50	*	10.00	9.39	8.88	8.68	8.47	8.19	*	9.40	10.55	10.76	10.15	10.13	10.59	11.06	11.48	
30	11.12	10.91	10.46	*	9.79	9.81	9.02	8.53	8.54	8.20	*	9.12	10.34	10.83	10.15	10.17	10.57	11.31	11.57	
40	10.76	10.82	10.34	*	9.23	9.69	8.96	8.46	8.06	8.36	*	8.24	9.86	10.39	9.15	9.78	10.56	11.28	11.39	
50	10.88	10.63	10.05	*	9.10	9.05	8.49	8.06	7.98	7.92	*	7.97	9.25	9.58	8.91	9.47	10.49	11.29	11.39	
60	10.74	10.55	9.89	*	8.54	8.77	8.25	7.91	7.81	7.80	*	7.62	8.97	9.06	8.67	8.73	10.40	11.03	11.20	
70	10.52	10.25	9.86	*	8.60	8.53	8.10	7.64	7.74	7.71	*	7.55	8.94	8.84	8.51	8.60	10.43	11.05	11.16	
80	10.48	10.20	9.81	*	8.43	8.47	7.98	7.46	7.66	7.64	*	7.44	8.54	8.21	7.79	8.25	10.43	10.83	10.86	
90	10.34	10.13	9.85	*	8.44	8.21	7.92	7.38	7.56	7.60	*	7.37	8.45	8.24	7.79	8.24	10.25	10.87	10.97	
100	10.28	10.10	10.03	*	8.20	8.22	7.78	7.25	7.53	7.44	*	7.26	8.24	8.07	7.65	8.10	8.65	10.68	10.87	
110	9.79	10.00	10.13	*	8.31	7.99	7.67	7.22	7.47	7.31	*	7.20	8.26	8.12	7.62	8.06	8.53	10.72	10.90	
120	9.62	9.97	10.09	*	8.04	7.91	7.63	7.17	7.32	7.26	*	7.01	7.94	8.02	7.63	7.79	8.17	10.55	10.86	
130	9.42	9.75	9.83	*	8.09	7.70	7.48	7.21	7.24	7.04	*	7.03	7.93	8.15	7.59	7.83	8.11	10.55	10.71	
140	9.37	9.52	9.76	*	7.88	7.59	7.40	7.24	7.08	6.92	*	6.68	7.08	8.01	7.74	7.49	7.99	10.48	10.80	
150	9.17	9.24	9.85	*	7.85	7.48	7.25	7.03	6.90	6.72	*	6.59	6.91	7.55	7.35	7.30	7.97	10.30	10.77	

Secchi depth

(m)	13.0	14.5	12.2	12.0	10.0	12.0	13.0	14.8	18.0	22.0	20.0	15.6	18.5	18.0	16.0	15.0	16.0	15.0	12.0	

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.

2007-2008

Mid-Lake site A for the period starting 11 September 2007

Temperature

Date	11/9/2007	9/10/2007	30/10/2007	15/11/2007	4/12/2007	20/12/2007	17/01/2008	31/01/2008	14/02/2008	27/02/2008	13/03/2008	26/03/2008	17/04/2008	7/05/2008	22/05/2008	5/06/2008	19/06/2008	1/07/2008	15/07/2008	7/08/2008	20/08/2008	
Depth (m)																						
0	11.00	12.33	12.84	13.47	16.64	17.38	21.23	19.79	19.87	19.28	18.83	19.26	17.88	15.67	14.65	13.60	12.89	11.97	11.42	11.06	10.70	
10	10.99	11.69	11.83	13.19	16.20	17.15	19.96	19.62	19.81	19.26	18.75	19.24	17.87	15.67	14.65	13.60	12.90	12.03	11.41	10.98	10.70	
20	10.98	11.67	11.76	12.92	14.48	14.76	17.21	17.59	19.65	19.24	18.75	18.92	17.85	15.67	14.65	13.59	12.90	12.03	11.40	10.98	10.69	
30	10.99	11.44	11.70	12.86	12.58	13.19	13.64	13.82	16.07	14.08	16.20	16.92	15.58	15.67	14.65	13.60	12.90	12.01	11.40	10.98	10.69	
40	10.99	11.42	11.64	12.78	12.02	12.18	12.26	12.31	12.63	12.24	12.54	12.44	12.38	15.27	12.27	13.60	12.90	12.03	11.40	10.98	10.69	
50	10.99	11.39	11.51	11.80	11.69	11.75	11.64	11.61	11.80	11.71	11.76	11.77	11.72	12.11	11.66	11.93	12.86	12.03	11.39	10.99	10.70	
60	10.99	11.34	11.43	11.49	11.42	11.53	11.41	11.39	11.47	11.44	11.47	11.48	11.48	11.56	11.44	11.54	11.60	12.03	11.39	10.98	10.70	
70	10.99	11.16	11.32	11.37	11.29	11.33	11.23	11.26	11.33	11.30	11.34	11.29	11.34	11.37	11.30	11.37	11.36	11.61	11.38	10.98	10.70	
80	10.96	11.00	11.23	11.31	11.25	11.23	11.22	11.17	11.25	11.25	11.24	11.23	11.27	11.29	11.27	11.29	11.27	11.39	11.38	10.98	10.70	
90	10.96	10.98	11.16	11.17	11.14	11.12	11.12	11.11	11.19	11.18	11.18	11.17	11.20	11.21	11.22	11.24	11.23	11.29	11.35	10.98	10.70	
100	10.96	10.98	11.07	11.10	11.10	11.09	11.12	11.09	11.15	11.14	11.14	11.14	11.17	11.16	11.18	11.21	11.21	11.28	11.30	10.98	10.70	
110	10.96	10.97	11.04	11.04	11.07	11.04	11.06	11.08	11.11	11.11	11.11	11.12	11.14	11.16	11.16	11.19	11.19	11.28	11.25	10.98	10.70	
120	10.96	10.96	11.02	11.02	11.05	11.03	11.04	11.06	11.07	11.09	11.09	11.11	11.15	11.15	11.15	11.16	11.17	11.25	11.22	10.98	10.70	
130	10.96	10.96	11.00	11.00	11.02	11.00	11.02	11.05	11.06	11.07	11.07	11.09	11.12	11.12	11.13	11.15	11.15	11.22	11.20	10.98	10.70	
140	10.96	10.96	10.98	10.97	10.99	11.01	11.00	11.05	11.05	11.06	11.06	11.08	11.11	11.11	11.12	11.13	11.15	11.17	11.19	10.98	10.70	
150	10.96	10.95	10.96	10.95	10.98	10.99	11.00	11.04	11.04	11.05	11.06	11.08	11.11	11.10	11.12	11.13	11.15	11.16	11.19	10.98	10.70	

Dissolved Oxygen (g m⁻³)

Depth (m)	11/9/2007	9/10/2007	30/10/2007	15/11/2007	4/12/2007	20/12/2007	17/01/2008	31/01/2008	14/02/2008	27/02/2008	13/03/2008	26/03/2008	17/04/2008	7/05/2008	22/05/2008	5/06/2008	19/06/2008	1/07/2008	15/07/2008	7/08/2008	20/08/2008
0	11.00	10.23	10.18	10.03	9.35	9.21	8.61	*	10.77	9.20	9.38	9.87	9.49	9.91	10.13	10.36	10.53	10.75	10.89	10.21	9.55
10	11.12	10.37	10.27	10.11	9.45	9.24	8.63	*	8.76	9.09	9.05	8.61	8.97	9.04	9.37	9.84	10.26	10.63	10.66	11.03	10.80
20	10.87	10.12	10.25	10.07	9.23	9.21	8.70	*	9.00	9.32	9.24	8.85	8.46	8.97	9.18	9.72	10.14	10.32	10.51	11.04	11.16
30	10.99	10.17	10.07	10.17	9.36	9.37	8.93	*	9.35	9.45	9.01	8.73	8.52	8.86	9.16	9.63	10.10	10.37	10.48	10.94	11.11
40	10.84	9.92	10.02	9.97	9.09	9.09	8.69	*	9.01	8.92	8.96	8.57	8.72	8.87	8.68	9.81	10.12	10.40	10.42	10.72	11.08
50	10.92	10.09	9.85	9.66	9.08	9.21	8.67	*	8.64	8.82	8.60	8.51	8.48	8.45	8.56	9.22	10.10	10.31	10.52	10.83	11.07
60	11.07	9.96	9.52	9.75	9.14	8.69	8.60	8.70	8.44	8.49	8.34	8.15	8.20	8.25	8.58	8.96	9.51	10.36	10.45	10.60	11.05
70	10.89	9.90	9.77	9.30	8.74	8.69	8.26	8.22	8.19	8.15	8.02	7.79	7.84	7.89	8.37	8.65	9.07	10.28	10.39	10.76	10.98
80	10.90	9.59	9.58	9.12	8.76	8.38	8.03	8.05	8.16	7.88	7.92	7.52	7.71	7.90	8.30	8.53	8.91	9.60	10.34	10.74	10.96
90	10.66	9.63	9.42	9.07	8.62	8.46	8.10	8.06	7.99	7.87	7.76	7.47	7.57	7.68	8.22	8.45	8.72	9.18	10.23	10.73	10.91
100	10.64	9.58	9.49	9.14	8.46	8.41	7.90	7.90	7.97	7.86	7.69	7.45	7.45	7.46	8.14	8.44	8.66	9.06	9.93	10.72	10.90
110	10.62	9.57	9.16	8.83	8.37	8.46	7.83	7.87	7.81	7.64	7.50	7.20	7.29	7.38	8.03	8.19	8.43	8.72	9.34	10.68	10.84
120	10.66	9.52	9.27	8.95	8.42	8.08	7.95	7.52	7.82	7.39	7.45	7.20	7.29	7.38	7.94	8.16	8.32	8.55	8.94	10.67	10.83
130	10.42	9.35	9.01	8.81	8.31	8.13	7.72	7.40	7.59	7.41	7.27	7.16	7.18	7.19	7.86	7.86	8.14	8.31	8.79	10.63	10.57
140	10.40	9.30	9.11	8.81	8.28	7.88	7.74	7.27	7.62	7.05	7.10	7.10	7.13	7.17	7.81	7.61	8.01	8.25	8.48	10.62	10.38
150	10.37	9.13	8.91	8.45	7.95	7.95	7.33	7.35	7.27	7.00	6.76	6.59	6.72	6.85	7.40	7.50	7.73	8.08	8.48	10.57	9.67

Secchi depth (m)	11	15	16	14	15	17.5	22.5	21.5	25	22	22	19	20.5	16	17	15	16.5	14	13	12.5	12.5	

**Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Mid-Lake site A for the period starting 4 September 2006**

2006-2007

Temperature

Date	4/09/2006	26/09/2006	18/10/2006	1/11/2006	5/12/2006	19/12/2006	9/01/2007	25/01/2007	8/02/2007	21/02/2007	21/03/2007	3/04/2007	19/04/2007	8/05/2007	22/05/2007	14/06/2007	27/06/2007	18/07/2007	8/08/2007	23/08/2007	11/09/2007	
Depth (m)																						
0	11.10	11.88	11.72	12.43	15.21	15.62	16.51	18.60	19.31	19.58	18.70	18.04	16.49	19.29	15.17	13.56	12.38	11.43	11.15	11.00	11.00	
10	10.93	11.48	11.73	12.27	14.06	15.46	16.41	18.42	18.98	19.12	18.03	18.03	16.48	18.98	15.16	13.56	12.39	11.43	11.15	11.00	10.99	
20	10.93	11.29	11.72	12.25	13.87	14.45	15.44	17.96	18.16	17.62	17.99	17.94	16.47	18.16	15.16	13.56	12.39	11.43	11.16	11.00	10.98	
30	10.89	11.19	11.69	12.20	13.69	14.15	14.42	15.82	14.86	15.17	15.18	16.72	16.47	14.86	15.16	13.56	12.39	11.36	11.15	11.00	10.99	
40	10.87	11.15	11.45	12.10	13.16	12.43	12.25	13.05	12.89	13.09	12.65	13.50	13.78	12.89	15.15	13.56	12.39	11.29	11.16	11.00	10.99	
50	10.83	11.08	11.34	11.96	11.77	11.64	11.74	11.84	11.89	11.91	11.94	12.33	12.47	11.89	11.99	13.55	12.39	11.27	11.16	11.00	10.99	
60	10.82	11.06	11.25	11.34	11.20	11.36	11.29	11.47	11.39	11.46	11.51	11.65	11.69	11.39	11.54	11.77	12.38	11.25	11.15	11.00	10.99	
70	10.82	11.00	11.21	11.17	11.11	11.21	11.15	11.26	11.21	11.21	11.22	11.28	11.33	11.21	11.33	11.35	11.39	11.22	11.16	11.01	10.99	
80	10.82	10.94	11.16	11.06	11.06	11.10	11.09	11.14	11.15	11.15	11.16	11.22	11.20	11.15	11.21	11.22	11.28	11.17	11.16	11.01	10.96	
90	10.81	10.90	11.08	10.99	10.97	11.03	11.03	11.04	11.06	11.05	11.09	11.11	11.13	11.06	11.12	11.11	11.22	11.14	11.16	11.01	10.96	
100	10.81	10.87	10.97	10.94	10.94	11.00	11.00	11.00	11.03	11.05	11.05	11.10	11.09	11.03	11.10	11.10	11.16	11.13	11.16	11.01	10.96	
110	10.81	10.84	10.89	10.91	10.91	10.96	10.98	10.98	11.01	11.02	11.03	11.04	11.05	11.01	11.07	11.09	11.12	11.12	11.16	11.01	10.96	
120	10.80	10.81	10.86	10.88	10.90	10.94	10.97	10.99	11.06	11.02	11.02	11.04	11.04	11.06	11.07	11.08	11.11	11.12	11.16	11.01	10.96	
130	10.79	10.79	10.85	10.85	10.88	10.92	10.95	10.97	10.99	10.99	11.01	11.01	11.03	10.99	11.03	11.07	11.08	11.11	11.16	11.01	10.96	
140	10.76	10.78	10.83	10.84	10.88	10.89	10.94	10.97	10.97	10.98	10.99	11.00	11.02	10.97	11.03	11.05	11.07	11.10	11.16	11.01	10.96	
150	10.75	10.76	10.82	10.85	10.88	10.91	10.93	10.99	10.96	11.02	11.04	11.03	11.02	11.00	11.04	11.05	11.07	11.10	11.16	11.01	10.96	

Dissolved Oxygen (g m⁻³)

Depth (m)	4/09/2006	26/09/2006	18/10/2006	1/11/2006	5/12/2006	19/12/2006	9/01/2007	25/01/2007	8/02/2007	21/02/2007	21/03/2007	3/04/2007	19/04/2007	8/05/2007	22/05/2007	14/06/2007	27/06/2007	18/07/2007	8/08/2007	23/08/2007	11/09/2007
0	10.52	10.31	10.36	10.23	9.62	9.52	9.35	8.99	8.95	9.16	9.31	9.44	9.74	9.20	10.01	10.01	10.26	10.36	10.96	11.02	11.00
10	10.47	10.28	10.31	10.16	9.69	9.52	9.52	8.95	8.96	9.26	9.27	9.51	9.73	9.29	10.06	9.95	10.37	10.43	11.08	11.05	11.12
20	10.33	10.25	10.23	10.14	9.56	9.43	9.64	8.95	8.77	9.22	9.27	9.45	9.84	9.08	10.12	9.83	10.48	10.56	11.05	11.15	10.87
30	10.23	10.22	10.27	10.07	9.48	9.50	9.49	8.61	8.78	9.21	8.52	9.30	9.75	9.09	10.06	9.74	10.25	10.27	10.89	11.01	10.99
40	10.13	10.10	10.14	10.08	9.38	9.39	9.47	8.84	8.95	9.08	8.94	8.86	9.26	9.28	9.87	9.71	10.17	10.11	10.89	10.92	10.84
50	10.00	9.96	9.99	10.03	9.05	9.28	9.33	8.66	8.68	8.71	8.77	8.87	9.11	9.00	9.39	9.70	10.12	9.88	10.67	10.90	10.92
60	9.91	10.06	9.93	9.73	9.15	8.97	9.15	8.61	8.62	8.63	8.72	8.76	9.00	8.93	8.83	9.28	10.23	9.84	10.67	10.84	11.07
70	9.82	9.95	9.83	9.54	8.79	8.89	9.02	8.53	8.48	8.57	8.76	8.82	8.96	8.78	8.90	8.45	9.67	9.60	10.67	10.68	10.89
80	9.88	9.83	9.82	9.51	8.66	8.85	8.85	8.34	8.47	8.41	8.62	8.49	8.89	8.78	8.62	8.42	9.34	9.39	10.78	10.88	10.90
90	9.78	9.71	9.71	9.33	8.69	8.67	8.75	8.29	8.29	8.40	8.54	8.53	8.70	8.59	8.66	7.89	8.47	8.36	10.67	10.73	10.66
100	9.82	9.69	9.65	9.30	8.49	8.46	8.65	7.99	8.21	8.01	8.36	8.23	8.58	8.51	8.13	7.66	8.56	8.20	10.79	10.67	10.64
110	9.73	9.62	9.47	9.21	8.40	8.38	8.38	8.02	8.04	7.95	8.22	8.24	8.41	8.33	8.20	7.74	8.40	7.87	10.66	10.70	10.62
120	9.79	9.38	9.37	9.08	8.34	8.33	8.38	7.88	7.84	7.72	8.02	8.01	8.24	8.12	7.74	7.69	8.30	7.92	10.61	10.76	10.66
130	9.65	9.35	9.29	9.00	8.24	8.26	8.27	7.81	7.91	7.71	7.58	8.09	8.01	8.19	7.74	7.54	7.95	7.75	10.52	10.55	10.42
140	9.61	9.38	9.10	8.94	8.22	8.21	8.14	7.75	7.86	7.61	7.58	7.72	7.66	8.15	7.34	7.35	7.94	7.74	10.50	10.75	10.40
150	9.65	9.13	9.02	8.69	7.96	7.82	7.89	7.45	7.25	7.35	7.25	7.25	7.32	7.50	7.18	7.39	7.58	7.55	10.46	10.54	10.37

Secchi depth

(m)	4/09/2006	26/09/2006	18/10/2006	1/11/2006	5/12/2006	19/12/2006	9/01/2007	25/01/2007	8/02/2007	21/02/2007	21/03/2007	3/04/2007	19/04/2007	8/05/2007	22/05/2007	14/06/2007	27/06/2007	18/07/2007	8/08/2007	23/08/2007	11/09/2007
	11	17.5	13	14.5	16	15.5	13.5	14.5	16	18.2	16.5	19	16	16	18.5	18	18.5	14.5	14	13	11

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Mid-Lake site A for the period starting 17 August 2005

2005-2006

Temperature

Date	17/08/2005	31/08/2005	14/09/2005	29/09/2005	12/10/2005	25/10/2005	10/11/2005	1/12/2005	10/01/2006	2/02/2006	1/03/2006	12/04/2006	27/04/2006	9/05/2006	30/05/2006	27/06/2006	11/07/2006	25/07/2006	4/09/2006	
Depth (m)																				
0	11.17	11.74	12.42	11.91	11.92	13.40	16.10	15.09	17.40	20.20	19.50	16.71	16.31	15.70	14.21	11.94	11.51	11.15	11.10	
10	10.98	11.24	11.76	11.68	11.79	12.84	14.59	14.93	17.10	20.11	19.50	16.72	16.29	15.70	14.21	11.99	11.51	11.15	10.93	
20	10.97	11.10	11.22	11.67	11.76	12.17	14.27	14.22	16.85	18.15	19.25	16.72	16.29	15.70	14.21	11.99	11.50	11.15	10.93	
30	10.97	11.05	11.05	11.66	11.66	11.63	12.36	13.34	14.84	15.46	16.14	16.71	16.29	15.70	14.21	11.99	11.48	11.15	10.89	
40	10.97	11.00	11.01	11.60	11.47	11.47	11.66	12.32	12.21	13.40	12.93	16.48	13.96	13.40	14.20	11.99	11.48	11.15	10.87	
50	10.97	10.98	10.98	11.18	11.39	11.29	11.27	11.66	11.60	11.75	11.57	12.00	12.20	11.94	14.16	11.99	11.48	11.15	10.83	
60	10.97	10.97	10.99	11.02	11.37	11.17	11.15	11.26	11.21	11.35	11.35	11.53	11.56	11.36	11.54	11.39	11.47	11.15	10.82	
70	10.96	10.97	10.97	10.97	11.26	11.06	11.04	11.11	11.13	11.19	11.16	11.29	11.30	11.23	11.27	11.21	11.46	11.15	10.82	
80	10.97	10.96	10.97	10.97	11.13	10.99	11.00	11.06	11.06	11.11	11.14	11.19	11.19	11.14	11.19	11.16	11.45	11.15	10.82	
90	10.96	10.96	10.96	10.96	11.07	10.97	10.98	11.01	11.05	11.06	11.06	11.12	11.12	11.10	11.16	11.15	11.42	11.15	10.81	
100	10.96	10.95	10.96	10.95	11.01	10.97	10.97	10.98	11.04	11.04	11.05	11.08	11.08	11.09	11.12	11.14	11.23	11.15	10.81	
110	10.96	10.94	10.94	10.94	10.98	10.94	10.95	10.97	11.02	11.02	11.05	11.05	11.07	11.06	11.11	11.14	11.20	11.15	10.81	
120	10.96	10.94	10.93	10.93	10.98	10.94	10.94	10.97	11.00	11.02	11.05	11.03	11.06	11.06	11.09	11.13	11.19	11.15	10.80	
130	10.96	10.93	10.93	10.92	10.96	10.93	10.93	10.96	10.99	11.00	11.03	11.02	11.05	11.04	11.07	11.13	11.18	11.15	10.79	
140	10.95	10.93	10.91	10.91	10.96	10.93	10.94	10.96	10.99	11.00	11.00	11.02	11.04	11.03	11.07	11.12	11.18	11.15	10.76	
150	10.93	10.93	10.89	10.91	10.96	10.92	10.96	10.97	10.98	10.99	11.00	11.02	11.04	11.04	11.07	11.10	11.14	11.15	10.75	

Dissolved Oxygen (g m⁻³)

Depth (m)																				
0	10.52	10.47	10.26	10.35	10.38	10.04	9.95	9.70	9.23	9.00	9.20	9.33	9.39	9.46	9.97	10.29	10.84	10.54	10.52	
10	10.55	10.47	10.26	10.47	10.49	9.98	9.99	9.94	9.38	9.39	9.24	9.15	9.96	9.59	10.49	10.27	10.88	10.94	10.47	
20	10.41	10.26	10.37	10.39	10.40	10.04	9.88	9.69	9.37	9.20	9.43	9.51	9.39	9.47	9.97	10.30	10.77	10.59	10.33	
30	10.39	10.28	10.19	10.39	10.44	9.89	9.74	9.26	8.96	8.94	8.99	9.23	9.31	9.50	10.21	10.22	10.76	10.54	10.23	
40	10.31	9.80	9.40	10.32	10.25	9.61	9.48	9.74	8.95	8.69	9.02	8.92	8.82	8.90	9.98	10.22	10.74	10.34	10.13	
50	10.29	9.66	9.39	10.20	10.23	9.51	9.36	9.63	8.61	8.59	8.91	8.61	8.70	8.51	10.10	10.16	10.71	10.54	10.00	
60	10.17	9.57	9.18	9.83	9.92	9.14	8.65	9.08	8.69	8.22	8.78	8.49	8.31	8.29	9.25	9.64	10.70	10.38	9.91	
70	10.13	9.41	9.26	9.63	9.86	9.03	8.83	8.80	8.50	8.20	8.52	8.20	8.51	8.26	8.87	8.85	10.64	10.45	9.82	
80	10.06	9.38	9.01	9.46	9.63	8.76	8.50	8.78	8.21	8.04	8.19	7.94	8.17	8.19	8.47	8.42	10.47	10.36	9.88	
90	10.05	9.42	9.07	9.38	9.68	8.76	8.59	8.40	8.12	8.07	7.82	7.98	8.10	8.08	8.33	8.15	10.46	10.44	9.78	
100	10.04	9.41	8.86	9.20	9.33	8.54	8.35	8.39	7.96	7.88	7.89	8.05	8.12	8.06	8.16	8.05	9.65	10.34	9.82	
110	10.04	9.37	8.88	9.12	9.24	8.49	8.41	8.35	7.92	7.94	7.85	7.91	7.84	7.96	8.11	7.96	8.87	10.35	9.73	
120	9.96	9.23	8.56	9.03	9.13	8.44	8.22	8.28	7.89	7.62	7.86	7.44	7.57	7.77	8.04	7.89	8.41	10.17	9.79	
130	9.93	9.14	8.56	8.96	9.07	8.40	8.27	8.20	7.82	7.78	7.72	7.58	7.49	7.66	8.04	7.84	8.31	10.33	9.65	
140	9.32	8.94	8.38	8.79	9.01	8.38	7.92	8.08	7.62	7.36	7.67	7.34	7.32	7.58	7.99	7.82	8.29	10.39	9.61	
150	8.63	8.57	8.20	8.56	8.94	8.24	7.86	8.00	7.39	7.28	7.34	7.19	7.15	7.23	7.57	7.61	8.14	10.28	9.65	

Secchi depth

(m)	13	13	13	14	14	15	17.5	19.3	19	15.5	15.3	15.8	17	17.5	18.2	15.2	13.5	12	11
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Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Mid-Lake site A for the period starting 24 August 2004

2004-2005

Temperature

Date	24/08/2004	7/09/2004	21/10/2004	2/11/2004	22/11/2004	15/12/2004	11/01/2005	25/01/2005	9/02/2005	22/02/2005	10/03/2005	21/03/2005	14/04/2005	18/05/2005	9/06/2005	20/06/2005	20/07/2005	3/08/2005	17/08/2005	31/08/2005	14/09/2005	
Depth (m)																						
0	10.92	10.70	11.75	12.94	15.31	14.17	16.97	19.27	20.73	20.05	19.25	19.34	17.92	14.33	12.98	12.67	11.46	11.12	11.17	11.74	12.42	
10	10.83	10.66	11.61	12.89	15.15	14.10	16.01	18.05	20.19	19.73	19.24	19.17	17.96	14.31	12.99	12.47	11.31	11.11	10.98	11.24	11.76	
20	10.83	10.66	11.60	12.49	13.69	13.89	15.83	16.72	18.05	18.80	19.23	18.81	17.95	14.24	12.98	12.43	11.31	11.10	10.97	11.10	11.22	
30	10.83	10.66	11.59	11.65	13.17	13.79	13.37	14.55	14.65	14.02	14.92	14.59	15.13	14.13	12.98	12.42	11.30	11.11	10.97	11.05	11.05	
40	10.83	10.66	11.59	11.28	11.61	13.59	12.39	13.12	12.83	12.36	13.06	12.62	12.92	13.88	12.98	12.44	11.30	11.10	10.97	11.00	11.01	
50	10.83	10.65	11.58	10.93	11.09	11.35	11.33	11.89	11.75	11.49	11.75	11.64	12.00	11.47	12.97	12.42	11.28	11.11	10.97	10.98	10.98	
60	10.83	10.66	11.15	10.75	10.97	11.03	11.04	11.23	11.12	11.00	11.16	11.20	11.33	11.18	12.57	11.54	11.28	11.10	10.97	10.97	10.99	
70	10.83	10.66	10.78	10.72	10.77	10.88	10.86	10.98	10.90	10.87	10.92	10.96	10.99	10.97	11.13	11.07	11.26	11.11	10.96	10.97	10.97	
80	10.83	10.65	10.74	10.64	10.73	10.80	10.81	10.91	10.83	10.82	10.88	10.94	10.88	10.93	10.98	11.00	11.21	11.10	10.97	10.96	10.97	
90	10.82	10.61	10.72	10.62	10.69	10.73	10.75	10.80	10.75	10.80	10.80	10.81	10.82	10.89	10.95	10.93	10.98	11.10	10.96	10.96	10.96	
100	10.83	10.58	10.71	10.61	10.68	10.70	10.74	10.81	10.80	10.78	10.80	10.82	10.78	10.90	10.90	10.91	10.94	11.10	10.96	10.95	10.96	
110	10.83	10.56	10.67	10.60	10.64	10.67	10.69	10.72	10.73	10.75	10.74	10.76	10.76	10.87	10.89	10.87	10.93	11.08	10.96	10.94	10.94	
120	10.83	10.56	10.66	10.58	10.64	10.66	10.68	10.73	10.76	10.76	10.76	10.79	10.76	10.88	10.87	10.86	10.89	10.99	10.96	10.94	10.93	
130	10.82	10.55	10.64	10.57	10.61	10.63	10.66	10.69	10.71	10.71	10.72	10.73	10.74	10.81	10.84	10.86	10.88	10.97	10.96	10.93	10.93	
140	10.82	10.53	10.61	10.57	10.61	10.61	10.65	10.68	10.74	10.73	10.75	10.77	10.74	10.82	10.80	10.86	10.88	10.93	10.95	10.93	10.91	
150	10.79	10.47	10.56	10.58	10.60	10.62	10.67	10.67	10.70	10.70	10.71	10.72	10.72	10.77	10.78	10.85	10.87	10.90	10.93	10.93	10.89	

Dissolved Oxygen (g m⁻³)

Depth (m)																						
0	10.7	10.7	10.4	10.1	9.5	9.9	9.4	8.95	8.64	8.74	8.77	8.89	9.12	9.75	10.12	10.15	10.7	10.7	10.52	10.47	10.26	
10	10.5	10.5	10.1	10.2	9.6	9.8	9.5	8.87	8.75	8.78	8.77	8.87	9.01	9.75	10.03	10.12	10.5	10.5	10.55	10.47	10.26	
20	10.5	10.5	10.3	10.0	9.5	9.8	9.5	8.79	8.73	8.59	8.72	8.85	9.04	9.66	9.97	10.17	10.5	10.5	10.41	10.26	10.37	
30	10.4	10.4	10.1	9.9	9.5	9.7	9.2	8.72	8.68	8.62	8.01	8.34	8.37	9.55	9.97	10.03	10.4	10.4	10.39	10.28	10.19	
40	10.4	10.3	10.2	9.9	9.5	9.7	9.2	8.80	8.76	8.68	8.48	8.39	8.66	9.49	9.88	9.99	10.4	10.3	10.31	9.80	9.40	
50	10.3	10.3	10.0	9.6	9.4	9.3	9.0	8.54	8.45	8.36	8.16	8.17	8.34	9.01	9.87	9.93	10.3	10.3	10.29	9.66	9.39	
60	10.3	10.2	9.9	9.5	9.1	9.4	8.9	8.50	8.41	8.37	8.14	8.22	8.21	8.66	9.69	9.05	10.3	10.2	10.17	9.57	9.18	
70	10.2	10.2	9.7	9.3	9.1	9.3	8.8	8.40	8.36	8.32	8.04	8.18	8.21	8.56	8.90	8.72	10.2	10.2	10.13	9.41	9.26	
80	10.2	10.1	9.6	9.2	9.0	9.2	8.7	8.29	8.24	8.27	8.04	8.13	8.19	8.22	8.70	8.33	10.2	10.1	10.06	9.38	9.01	
90	10.1	10.0	9.4	9.1	8.8	9.1	8.6	8.18	8.12	8.13	8.03	8.11	8.27	8.07	8.39	8.23	10.1	10.0	10.05	9.42	9.07	
100	10.1	10.0	9.4	9.0	8.8	9.0	8.5	8.13	7.86	7.93	7.89	7.90	7.99	7.90	8.27	8.06	10.1	10.0	10.04	9.41	8.86	
110	9.9	9.9	9.3	9.0	8.8	8.9	8.4	8.07	7.84	7.81	7.82	7.83	7.82	7.75	8.16	7.99	9.9	9.9	10.04	9.37	8.88	
120	10.0	9.9	9.3	8.9	8.6	8.8	8.4	8.02	7.78	7.71	7.73	7.81	7.66	7.78	8.08	7.70	10.0	9.9	9.96	9.23	8.56	
130	10.0	9.9	9.3	8.7	8.6	8.7	8.3	8.00	7.76	7.71	7.68	7.78	7.69	7.77	8.03	7.57	10.0	9.9	9.93	9.14	8.56	
140	9.9	9.9	9.2	8.7	8.4	8.5	8.1	7.83	7.59	7.50	7.36	7.48	7.56	7.69	7.94	7.42	9.9	9.9	9.32	8.94	8.38	
150	9.8	9.7	9.0	8.6	8.2	8.3	7.9	7.51	7.54	7.46	7.35	7.43	7.47	7.67	7.75	7.36	9.8	9.7	8.63	8.57	8.20	

Secchi depth

(m)	12.5	12	15	16	16	19.5	20	19.5	18	21.5	18.5	20	17.2	16	14.1	13.8	13	14	13	13	13

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Mid-Lake site A for the period starting 14 July 2003

2003-2004

Temperature

Date	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	7/10/2003	21/10/2003	19/11/2003	4/12/2003	18/12/2003	13/01/2004	26/02/2004	8/03/2004	31/03/2004	14/04/2004	10/05/2004	10/06/2004	13/07/2004	26/07/2004	24/08/2004	7/09/2004	
Depth (m)																						
0	11.85	11.38	11.25	11.23	11.13	11.48	13.11	13.96	16.15	17.72	20.29	17.20	17.50	16.49	15.27	14.74	13.04	11.59	11.29	10.92	10.70	
10	11.86	11.38	11.24	11.17	11.13	11.39	11.92	13.79	15.11	17.76	19.60	17.19	17.00	16.29	15.24	14.74	13.05	11.64	11.26	10.83	10.66	
20	11.86	11.38	11.24	11.12	11.11	11.37	11.53	13.78	14.53	15.57	16.72	17.18	16.70	16.23	15.21	14.74	13.04	11.62	11.25	10.83	10.66	
30	11.86	11.38	11.24	11.11	11.06	11.37	11.40	13.70	12.96	13.23	13.87	17.16	16.55	16.19	15.19	14.74	13.05	11.65	11.25	10.83	10.66	
40	11.86	11.38	11.24	11.11	11.06	11.32	11.34	12.30	12.26	12.33	12.58	12.90	13.30	16.15	15.13	14.73	13.05	11.62	11.26	10.83	10.66	
50	11.86	11.38	11.24	11.11	11.06	11.31	11.23	11.35	11.48	11.84	11.58	11.83	11.60	12.51	12.40	12.56	13.05	11.65	11.26	10.83	10.65	
60	11.86	11.38	11.24	11.11	11.06	11.31	11.19	11.28	11.41	11.39	11.33	11.53	11.60	11.59	11.67	11.66	13.05	11.64	11.26	10.83	10.66	
70	11.86	11.38	11.24	11.10	11.06	11.31	11.16	11.23	11.26	11.26	11.26	11.35	11.40	11.40	11.48	11.43	12.42	11.65	11.25	10.83	10.66	
80	11.35	11.38	11.24	11.00	11.06	11.30	11.15	11.19	11.25	11.22	11.23	11.30	11.35	11.34	11.39	11.38	11.56	11.64	11.25	10.83	10.65	
90	11.31	11.38	11.24	11.09	11.06	11.29	11.13	11.16	11.20	11.17	11.22	11.25	11.27	11.30	11.32	11.35	11.51	11.66	11.25	10.82	10.61	
100	11.27	11.35	11.24	11.09	11.06	11.25	11.11	11.15	11.18	11.17	11.21	11.23	11.27	11.27	11.30	11.32	11.39	11.65	11.25	10.83	10.58	
110	11.24	11.34	11.23	11.09	11.06	11.21	11.10	11.12	11.17	11.15	11.19	11.20	11.24	11.26	11.28	11.30	11.35	11.65	11.26	10.83	10.56	
120	11.22	11.32	11.22	11.09	11.06	11.14	11.10	11.11	11.18	11.14	11.18	11.18	11.22	11.24	11.25	11.30	11.34	11.65	11.26	10.83	10.56	
130	11.21	11.27	11.22	11.08	11.06	11.11	11.08	11.09	11.14	11.13	11.17	11.18	11.20	11.22	11.23	11.28	11.33	11.49	11.26	10.82	10.55	
140	11.21	11.26	11.21	11.08	11.06	11.09	11.08	11.09	11.15	11.13	11.16	11.17	11.20	11.21	11.21	11.27	11.32	11.39	11.26	10.82	10.53	
150	11.20	11.22	11.20	11.08	11.07	11.09	11.08	11.09	11.14	11.13	11.16	11.17	11.20	11.21	11.21	11.26	11.31	11.34	11.26	10.79	10.47	

Dissolved Oxygen (g m⁻³)

Depth (m)																						
0	10.3	10.6	10.5	10.5	10.5	10.5	10.1	9.9	9.5	9.1	9.2	9.3	9.4	9.2	9.5	9.7	10.2	10.5	10.6	10.7	10.7	
10	10.2	10.4	10.5	10.5	10.6	10.5	10.0	9.9	9.5	9.2	9.3	9.4	9.0	9.1	9.2	9.6	9.9	10.5	10.6	10.5	10.5	
20	10.2	10.2	10.3	10.4	10.4	10.4	10.2	9.8	9.4	9.0	9.1	9.0	8.8	9.0	9.1	9.4	9.8	10.5	10.6	10.5	10.5	
30	10.2	9.9	10.1	10.3	10.1	10.1	10.0	9.5	9.2	9.2	9.1	8.9	8.5	9.0	8.8	9.3	9.5	10.3	10.3	10.4	10.4	
40	10.1	9.9	10.0	10.0	9.8	10.0	9.7	9.3	9.0	9.1	8.7	8.4	8.0	8.9	8.8	9.2	9.5	10.1	10.1	10.4	10.3	
50	10.0	9.0	9.9	9.9	9.8	9.8	9.4	9.0	8.7	8.8	8.5	8.1	7.9	8.2	8.2	8.6	9.4	9.8	9.9	10.3	10.3	
60	9.9	8.8	9.8	9.7	9.6	9.7	9.2	8.9	8.6	8.4	8.2	8.0	7.7	8.0	8.0	8.2	9.4	9.9	9.8	10.3	10.2	
70	9.9	8.7	9.8	9.6	9.6	9.6	9.1	8.7	8.5	8.3	8.1	7.9	7.6	8.0	7.8	7.9	9.1	9.6	9.7	10.2	10.2	
80	8.7	8.6	9.7	9.5	9.5	9.6	8.9	8.6	8.4	8.1	8.0	7.9	7.5	8.0	7.7	7.9	8.5	9.7	9.6	10.2	10.1	
90	8.5	8.5	9.7	9.5	9.5	9.5	8.9	8.6	8.3	8.1	8.0	7.9	7.5	7.9	7.6	7.8	8.0	9.5	9.5	10.1	10.0	
100	8.2	8.4	9.6	9.5	9.5	9.4	8.8	8.6	8.2	7.9	7.8	7.8	7.4	7.8	7.5	7.7	7.7	9.5	9.4	10.1	10.0	
110	8.2	8.1	9.6	9.4	9.5	9.3	8.8	8.4	8.2	7.9	7.8	7.7	7.3	7.7	7.4	7.6	7.6	9.4	9.4	9.9	9.9	
120	8.0	8.0	9.5	9.4	9.5	9.3	8.7	8.4	8.1	7.8	7.7	7.5	7.1	7.6	7.3	7.4	7.5	9.4	9.3	10.0	9.9	
130	8.0	7.9	9.5	9.4	9.4	9.1	8.7	8.3	8.0	7.8	7.5	7.3	7.0	7.5	7.2	7.3	7.4	9.1	9.2	10.0	9.9	
140	7.8	7.8	9.5	9.3	9.4	9.0	8.5	8.2	7.9	7.5	7.4	7.3	6.9	7.4	7.0	7.3	7.3	8.3	9.2	9.9	9.9	
150	7.7	7.6	9.3	9.3	9.4	8.9	8.5	8.0	7.7	7.3	7.2	7.1	6.8	7.1	6.8	7.1	7.3	8.0	9.2	9.8	9.7	

Secchi depth

(m)	14.5	14	13.5	13	12.5	13	17	16	18.5	17.5	19	17	15	16	15	18	13.5	12	11	12.5	12	

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
 Additional site B (Kuratau Basin) for the period starting 14 July 2003

2003-2004

Temperature

Date	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	7/10/2003	21/10/2003	19/11/2003	4/12/2003	18/12/2003	13/01/2004	26/02/2004	8/03/2004	31/03/2004	14/04/2004	10/05/2004	10/06/2004	13/07/2004	26/07/2004	24/08/2004	7/09/2004	
Depth (m)																						
0	11.82	11.32	11.38	11.36	11.13	11.70	13.31	13.79	15.65	17.08	20.25	16.83	17.63	15.92	15.10	14.72	13.02	11.43	11.26	10.92	10.85	
10	11.80	11.29	11.22	11.17	11.11	11.44	12.28	13.49	15.00	16.43	19.73	16.72	16.56	15.90	15.02	14.68	12.95	11.40	11.20	10.77	10.59	
20	11.79	11.29	11.22	11.14	11.07	11.40	11.71	13.33	13.81	15.28	16.73	16.58	16.51	15.89	15.00	14.64	12.84	11.41	11.20	10.73	10.58	
30	11.79	11.29	11.21	11.13	11.03	11.35	11.46	12.22	12.37	13.38	13.74	16.16	16.40	15.88	14.99	14.47	12.71	11.41	11.20	10.72	10.57	
40	11.79	11.29	11.21	11.13	11.02	11.34	11.38	11.67	11.90	12.91	12.48	15.75	15.53	15.53	14.18	14.07	12.67	11.41	11.19	10.72	10.57	
50	11.79	11.29	11.21	11.13	11.02	11.33	11.28	11.40	11.57	11.65	11.62	12.97	12.55	12.89	12.48	12.48	12.66	11.41	11.19	10.72	10.56	
60	11.78	11.29	11.21	11.13	11.01	11.25	11.23	11.31	11.37	11.33	11.40	11.88	11.64	11.69	11.72	11.78	12.57	11.40	11.19	10.72	10.56	
70	11.78	11.29	11.21	11.12	11.01	11.12	11.15	11.24	11.25	11.27	11.28	11.55	11.47	11.49	11.51	11.47	12.51	11.41	11.18	10.72	10.56	
80	11.77	11.29	11.16	11.12	11.01	11.06	11.09	11.18	11.21	11.25	11.20	11.38	11.41	11.37	11.43	11.38	12.27	11.37	11.18	10.72	10.51	
90	11.35	11.29	11.04	11.11	11.01	11.02	11.08	11.13	11.13	11.19	11.16	11.32	11.35	11.32	11.37	11.31	11.77	11.26	11.17	10.71	10.45	
100	11.27	11.29	10.91	11.08	11.01	11.02	11.05	11.10	11.11	11.16	11.14	11.28	11.33	11.26	11.30	11.24	11.65	11.24	11.17	10.66	10.38	

Dissolved Oxygen (g m⁻³)

Depth (m)																						
0	10.7	10.9	10.8	10.6	10.6	10.4	10.5	10.1	9.8	9.1	9.2	9.3	9.5	8.8	10.5	11.4	12.3	10.6	10.5	10.5	10.8	
10	10.5	11.0	10.6	10.6	10.5	10.4	10.4	10.3	9.9	9.3	9.2	9.1	9.0	9.0	9.5	10.2	10.7	10.6	10.5	10.4	10.7	
20	10.3	11.3	10.4	10.2	10.2	10.2	10.1	9.9	9.6	9.4	9.2	9.0	8.9	8.9	9.2	9.9	10.1	10.1	10.5	10.5	10.7	
30	10.2	11.2	10.1	9.9	10.1	9.9	10.0	9.6	9.3	9.1	9.0	9.0	8.7	8.8	8.9	9.4	9.7	9.8	10.3	10.4	10.6	
40	10.1	11.2	9.9	9.8	9.9	9.6	9.7	9.2	8.9	9.1	8.8	8.7	8.2	8.7	8.5	9.1	9.6	9.6	10.0	10.3	10.5	
50	10.0	10.9	9.8	9.6	9.8	9.6	9.4	9.0	8.8	8.7	8.5	8.2	7.9	8.2	7.9	8.5	9.3	9.5	9.8	10.2	10.3	
60	9.9	10.7	9.7	9.5	9.7	9.4	9.0	8.8	8.6	8.3	8.2	8.1	7.7	8.0	7.6	8.0	9.2	9.3	9.6	10.1	10.3	
70	9.9	10.4	9.7	9.5	9.7	9.3	8.9	8.7	8.6	8.3	8.1	7.9	7.6	7.8	7.3	7.7	8.9	9.2	9.6	10.1	10.2	
80	9.8	10.3	9.4	9.4	9.6	9.1	8.7	8.6	8.4	7.9	7.8	7.8	7.4	7.6	7.1	7.4	8.7	9.1	9.4	10.0	10.1	
90	9.2	10.1	9.2	9.3	9.6	9.0	8.7	8.5	8.3	7.9	7.8	7.7	7.3	7.6	7.0	7.5	8.3	8.7	9.5	9.9	10.1	
100	8.3	10.0	9.2	9.3	9.6	8.9	8.6	8.2	7.9	7.9	7.6	7.4	7.3	7.3	6.8	7.0	8.1	8.1	9.4	9.8	10.0	

Secchi depth

(m)	12	13	13	11.5	11	9.5	15	17	17	15	16	13.5	5	11	14	15.5	12	11	10	10	11

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
 Additional site C (Western Bays) for the period starting 14 July 2003

2003-2004

Temperature

Date	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	7/10/2003	21/10/2003	19/11/2003	4/12/2003	18/12/2003	13/01/2004	26/02/2004	8/03/2004	31/03/2004	14/04/2004	10/05/2004	10/06/2004	13/07/2004	26/07/2004	24/08/2004	7/09/2004	
Depth (m)																						
0	11.86	11.43	11.56	11.31	11.32	11.85	13.29	15.10	15.79	17.00	20.17	16.90	18.43	16.37	15.41	14.98	13.16	11.58	11.51	10.97	11.14	
10	11.80	11.36	11.26	11.21	11.13	11.24	11.93	13.84	15.29	16.33	18.89	16.69	17.02	16.35	15.18	14.80	13.08	11.61	11.32	10.94	10.73	
20	11.80	11.34	11.25	11.14	11.09	11.17	11.62	13.76	14.31	15.26	17.11	16.34	16.45	16.35	15.15	14.76	13.07	11.61	11.30	10.90	10.71	
30	11.80	11.32	11.25	11.14	11.08	11.14	11.52	13.63	12.99	13.46	13.74	14.66	15.33	15.95	15.15	14.75	13.07	11.61	11.31	10.90	10.71	
40	11.80	11.31	11.25	11.14	11.08	11.14	11.50	11.91	12.03	12.88	12.25	12.56	13.64	13.21	15.14	14.73	13.07	11.60	11.31	10.89	10.70	
50	11.80	11.31	11.25	11.14	11.07	11.13	11.46	11.42	11.43	11.64	11.57	11.63	11.64	11.68	12.68	12.57	12.80	11.61	11.30	10.90	10.70	
60	11.80	11.31	11.25	11.14	11.07	11.13	11.38	11.31	11.30	11.31	11.36	11.53	11.48	11.45	11.76	11.73	11.68	11.60	11.30	10.89	10.70	
70	11.80	11.31	11.25	11.14	11.07	11.12	11.21	11.27	11.28	11.26	11.28	11.39	11.37	11.34	11.54	11.48	11.44	11.61	11.30	10.89	10.70	
80	11.79	11.31	11.25	11.14	11.07	1.10	11.13	11.20	11.25	11.22	11.25	11.31	11.35	11.32	11.37	11.39	11.37	11.58	11.30	10.89	10.70	
90	11.60	11.29	11.25	11.14	11.07	11.04	11.07	11.14	11.21	11.19	11.21	11.26	11.33	11.29	11.30	11.32	11.33	11.61	11.30	10.89	10.70	
100	11.28	11.27	11.24	11.14	11.07	11.03	11.07	11.11	11.19	11.12	11.19	11.23	11.32	11.25	11.29	11.31	11.32	11.61	11.30	10.89	10.70	

Dissolved Oxygen (g m⁻³)

Depth (m)	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	7/10/2003	21/10/2003	19/11/2003	4/12/2003	18/12/2003	13/01/2004	26/02/2004	8/03/2004	31/03/2004	14/04/2004	10/05/2004	10/06/2004	13/07/2004	26/07/2004	24/08/2004	7/09/2004
0	10.3	10.7	10.3	10.4	10.4	11.4	10.1	9.8	9.5	9.2	9.2	9.3	9.3	9.4	10.4	10.3	10.6	10.6	11.0	10.4	10.7
10	10.3	10.8	10.3	10.3	10.4	11.0	10.1	9.9	9.9	9.1	9.2	9.1	9.0	9.2	9.5	9.8	10.1	10.6	10.5	10.4	10.4
20	10.1	10.3	10.1	10.1	10.2	10.8	9.9	9.9	9.5	9.2	9.1	9.2	9.1	9.0	9.1	9.7	9.9	10.6	10.2	10.3	10.4
30	10.1	10.0	9.9	9.9	10.0	10.1	9.6	9.6	9.3	9.1	8.8	8.6	8.6	8.9	8.9	9.4	9.7	10.3	9.9	10.2	10.4
40	10.0	10.0	9.8	9.7	9.9	9.7	9.4	9.4	9.0	9.1	8.8	8.4	8.4	8.3	8.7	9.2	9.6	9.9	9.8	10.1	10.3
50	9.9	9.9	9.6	9.6	9.7	9.7	9.3	9.2	8.8	8.8	8.5	8.2	8.0	8.0	8.2	8.7	9.3	9.6	9.6	10.1	10.2
60	9.8	9.6	9.6	9.5	9.6	9.5	9.2	9.0	8.5	8.5	8.2	8.0	7.9	8.0	7.8	8.2	8.6	9.5	9.5	10.1	10.2
70	9.8	9.5	9.5	9.4	9.5	9.4	9.1	8.8	8.5	8.3	8.1	7.9	7.8	7.9	7.5	8.0	8.2	9.4	9.5	10.0	10.1
80	9.7	9.5	9.5	9.4	9.5	9.3	8.8	8.8	8.3	8.2	7.9	7.8	7.8	7.8	7.4	7.8	8.0	9.3	9.4	10.0	10.0
90	9.6	9.1	9.4	9.3	9.4	9.2	8.7	8.6	8.4	7.9	7.8	7.8	7.7	7.7	7.3	7.6	7.9	9.2	9.2	9.9	10.0
100	8.8	8.8	9.0	9.3	9.4	9.1	8.7	8.5	8.3	7.9	7.7	7.6	7.7	7.5	7.3	7.5	7.8	9.1	9.3	9.9	10.0

Secchi depth

(m)	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	7/10/2003	21/10/2003	19/11/2003	4/12/2003	18/12/2003	13/01/2004	26/02/2004	8/03/2004	31/03/2004	14/04/2004	10/05/2004	10/06/2004	13/07/2004	26/07/2004	24/08/2004	7/09/2004
	14	12	14.5	13	12	12.5	12	17.2	17	19	17.5	14	13	12.5	16.5	16	14	12.5	11	10	12

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Mid-Lake site A for the period starting 1 July 2002

2002-2003

Temperature

Date	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002	13/11/2002	28/11/2002	18/12/2002	30/01/2003	13/02/2003	17/03/2003	3/04/2003	28/04/2003	15/05/2003	12/06/2003	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	
Depth (m)																						
0	12.13	11.44	11.20	11.10	11.38	11.60	12.58	14.12	15.00	17.84	19.31	18.55	19.05	16.76	15.67	13.59	11.85	11.38	11.25	11.23	11.13	
10	12.12	11.44	11.20	10.90	11.33	11.60	12.55	14.02	14.78	17.59	19.19	18.43	18.70	16.73	15.57	13.56	11.86	11.38	11.24	11.17	11.13	
20	12.11	11.44	11.20	10.90	11.28	11.40	12.50	12.91	14.48	17.08	18.10	18.37	18.59	16.73	15.56	13.55	11.86	11.38	11.24	11.12	11.11	
30	12.11	11.44	11.20	10.80	11.02	11.30	12.38	12.41	14.26	16.13	15.50	16.77	17.02	16.72	15.57	13.55	11.86	11.38	11.24	11.11	11.06	
40	12.11	11.44	11.20	10.90	10.97	11.30	12.16	11.98	12.67	12.69	12.85	13.44	13.31	12.80	15.53	12.22	11.86	11.38	11.24	11.11	11.06	
50	12.11	11.44	11.20	10.90	10.96	11.20	12.00	11.54	11.87	12.03	12.14	12.03	12.30	11.96	12.20	11.82	11.86	11.38	11.24	11.11	11.06	
60	12.10	11.44	11.20	10.80	10.94	11.20	11.72	11.22	11.64	11.70	11.68	11.60	11.81	11.62	11.61	11.52	11.86	11.38	11.24	11.11	11.06	
70	12.10	11.44	11.20	10.80	10.93	11.20	11.51	11.09	11.31	11.41	11.33	11.39	11.52	11.34	11.36	11.38	11.86	11.38	11.24	11.10	11.06	
80	11.97	11.44	11.20	10.90	10.92	11.10	11.32	10.98	11.17	11.25	11.25	11.27	11.31	11.27	11.27	11.27	11.35	11.38	11.24	11.00	11.06	
90	11.49	11.43	11.20	10.90	10.91	11.10	11.13	10.95	11.06	11.15	11.16	11.16	11.20	11.17	11.22	11.21	11.31	11.38	11.24	11.09	11.06	
100	11.39	11.41	11.20	10.90	10.90	11.10	11.05	10.92	11.04	11.11	11.10	11.13	11.18	11.15	11.20	11.20	11.27	11.35	11.24	11.09	11.06	
110	11.32	11.37	11.20	10.90	10.89	11.00	11.05	10.90	11.04	11.09	11.08	11.10	11.13	11.13	11.16	11.17	11.24	11.34	11.23	11.09	11.06	
120	11.29	11.32	11.20	10.90	10.87	11.00	11.01	10.87	11.00	11.06	11.06	11.09	11.13	11.13	11.15	11.15	11.22	11.32	11.22	11.09	11.06	
130	11.25	11.27	11.20	10.90	10.85	10.90	10.99	10.85	10.98	11.04	11.04	11.08	11.09	11.10	11.12	11.12	11.21	11.27	11.22	11.08	11.06	
140	11.23	11.26	11.20	10.80	10.83	10.90	10.97	10.83	10.97	11.03	11.03	11.09	11.09	11.09	11.12	11.11	11.21	11.26	11.21	11.08	11.06	
150	11.23	11.26	11.20	10.80	10.81	10.90	10.96	10.82	10.97	11.03	11.03	11.07	11.08	11.09	11.11	11.11	11.20	11.22	11.20	11.08	11.07	

Dissolved Oxygen (g m⁻³)

Depth (m)																						
0	10.3	10.4	9.7	10.5	10.5	10.3	10.2	9.8	9.6	9.1	8.9	9.0	8.8	9.2	9.5	10.0	10.3	10.6	10.5	10.5	10.5	
10	10.3	10.7	9.5	10.4	10.7	10.3	10.2	10.0	9.7	9.1	8.9	8.9	8.8	9.2	9.2	9.7	10.2	10.4	10.5	10.5	10.6	
20	10.3	10.7	9.4	10.3	10.6	10.2	10.2	10.1	9.6	9.2	8.9	8.8	8.6	9.1	9.3	9.4	10.2	10.2	10.3	10.4	10.4	
30	10.2	10.7	9.4	10.3	10.5	10.2	10.2	10.1	9.6	9.1	8.8	8.5	8.3	8.9	9.2	9.3	10.2	9.9	10.1	10.3	10.1	
40	10.2	10.6	9.4	10.2	10.4	10.2	10.1	9.7	9.5	9.2	8.8	8.4	8.0	8.4	9.1	9.0	10.1	9.9	10.0	10.0	9.8	
50	10.2	10.6	9.4	10.2	10.3	10.1	10.1	9.7	9.3	9.1	8.6	8.2	7.8	8.2	8.2	8.2	10.0	9.0	9.9	9.9	9.8	
60	10.1	10.5	9.4	10.2	10.2	10.1	10.0	9.5	9.1	8.9	8.4	8.0	7.7	8.1	8.1	8.1	9.9	8.8	9.8	9.7	9.6	
70	10.1	10.5	9.3	10.1	10.2	10.0	9.9	9.5	8.8	8.8	8.4	7.8	7.6	8.0	8.0	8.0	9.9	8.7	9.8	9.6	9.6	
80	10.0	10.3	9.4	10.1	10.2	10.1	9.7	9.4	8.7	8.7	8.3	7.8	7.5	7.9	7.8	7.9	8.7	8.6	9.7	9.5	9.5	
90	9.7	10.3	9.4	10.1	10.1	10.1	9.5	9.3	8.7	8.7	8.2	7.8	7.4	7.8	7.5	7.6	8.5	8.5	9.7	9.5	9.5	
100	8.6	10.1	9.4	10.1	10.0	9.8	9.4	9.1	8.6	8.6	8.1	7.7	7.3	7.7	7.2	7.5	8.2	8.4	9.6	9.5	9.5	
110	8.3	9.8	9.3	9.9	9.9	9.8	9.4	9.1	8.4	8.4	8.0	7.6	7.2	7.6	7.1	7.4	8.2	8.1	9.6	9.4	9.5	
120	8.1	8.8	9.3	9.9	9.9	9.8	9.3	9.0	8.3	8.3	7.8	7.4	7.0	7.5	7.1	7.2	8.0	8.0	9.5	9.4	9.5	
130	8.0	8.5	9.3	9.9	9.9	9.7	9.2	9.0	8.3	8.2	7.7	7.2	6.9	7.4	7.0	7.0	8.0	7.9	9.5	9.4	9.4	
140	7.8	8.1	9.3	9.9	9.9	9.4	9.0	8.8	8.2	8.0	7.4	7.1	6.8	7.2	6.8	6.7	7.8	7.8	9.5	9.3	9.4	
150	7.8	8.1	9.3	9.8	9.8	9.4	8.9	8.7	8.1	7.9	7.3	6.9	6.5	6.9	6.7	6.5	7.7	7.6	9.3	9.3	9.4	

Secchi depth

(m)	16	15.5	12	9.5	12	15.5	18	12.7	13.5	18	19	15	13.5	14	16.5	11	14.5	14	13.5	13	12.5

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
 Additional site B (Kuratau Basin) for the period starting 1 July 2002

2002-2003

Temperature

Date	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002	13/11/2002	28/11/2002	18/12/2002	30/01/2003	13/02/2003	17/03/2003	3/04/2003	28/04/2003	15/05/2003	12/06/2003	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003	
Depth (m)																						
0	12.13	11.48	11.3	11	11.08	11.70	11.98	13.82	15.16	16.76	18.87	18.74	19.09	16.73	15.79	13.24	11.82	11.32	11.38	11.36	11.13	
10	12.09	11.49	11.1	10.8	11.05	11.30	11.94	13.67	15.08	16.75	18.46	18.54	18.82	16.66	15.49	13.02	11.8	11.29	11.22	11.17	11.11	
20	12.09	11.48	11.1	10.8	11.03	11.20	11.9	12.79	13.86	16.53	17.71	18.45	18.49	16.62	15.47	12.79	11.79	11.29	11.22	11.14	11.07	
30	12.09	11.48	11.1	10.8	11.03	11.20	11.8	12.31	13.4	14.33	16.2	14.87	15.32	16.2	15.41	11.83	11.79	11.29	11.21	11.13	11.03	
40	12.08	11.48	11.1	10.8	11.02	11.20	11.68	11.75	13.18	12.98	13.89	12.03	13.25	13.46	13.2	11.62	11.79	11.29	11.21	11.13	11.02	
50	11.97	11.49	11.1	10.8	10.91	11.20	11.44	11.44	12.91	12.1	12.59	12.06	12	12.28	12.09	11.51	11.79	11.29	11.21	11.13	11.02	
60	11.93	11.49	11.1	10.8	10.9	11.10	11.26	11.27	12.27	11.69	11.75	11.58	11.58	11.7	11.71	11.38	11.78	11.29	11.21	11.13	11.01	
70	11.87	11.48	11.1	10.8	10.89	11.10	11.11	11.17	11.58	11.37	11.4	11.36	11.35	11.4	11.4	11.29	11.78	11.29	11.21	11.12	11.01	
80	11.78	11.48	11.1	10.8	10.89	11.00	11	11.03	11.51	11.23	11.3	11.24	11.25	11.25	11.28	11.27	11.77	11.29	11.16	11.12	11.01	
90	11.37	11.46	11.1	10.7	10.87	11.00	10.93	10.96	11.39	11.14	11.17	11.13	11.15	11.18	11.21	11.26	11.35	11.29	11.04	11.11	11.01	
100	11.28	11.3	11	10.7	10.85	11.00	10.91	10.92	11.2	11.09	11.12	11.13	11.12	11.12	11.18	11.25	11.27	11.29	10.91	11.08	11.01	
110			10.7	10.7		10.90																

Dissolved Oxygen (g m⁻³)

Depth (m)																						
0	10.3	10.4	9.9	10.4	10.4	10.4	10.3	9.9	9.6	9.3	9.4	8.9	8.9	9.7	9.4	10	10.7	10.9	10.8	10.6	10.6	
10	10.3	10.8	9.7	10.3	10.5	10.5	10.3	10	9.7	9.3	9.3	8.9	8.8	9.6	9.4	10	10.5	11	10.6	10.6	10.5	
20	10.2	10.6	9.6	10.3	10.5	10.3	10.3	9.9	9.5	9.2	9.3	8.8	8.5	9.5	9.3	9.6	10.3	11.3	10.4	10.2	10.2	
30	10.2	10.6	9.6	10.2	10.5	10.3	10.3	9.9	9.6	9.2	9.2	8.2	8.1	9.4	8.8	9.2	10.2	11.2	10.1	9.9	10.1	
40	10.1	10.5	9.6	10.2	10.4	10.2	10.2	9.5	9.4	9.1	9	8.2	8	8.8	8.5	8.8	10.1	11.2	9.9	9.8	9.9	
50	10.1	10.5	9.6	10.1	10.3	10.1	10.1	9.5	9.4	8.9	8.8	8	7.7	8.3	7.9	8.5	10	10.9	9.8	9.6	9.8	
60	9.8	10.4	9.6	10.1	10.2	10.1	9.9	9.4	9.2	8.6	8.6	7.8	7.6	8.3	7.8	8.3	9.9	10.7	9.7	9.5	9.7	
70	9.7	10.4	9.5	10	10.1	9.8	9.8	9.4	9	8.4	8.4	7.7	7.4	8.2	7.7	8.2	9.9	10.4	9.7	9.5	9.7	
80	9.5	10.3	9.5	10	10.1	9.7	9.7	9	8.6	8.3	8.3	7.3	7.3	8	7.7	8.1	9.8	10.3	9.4	9.4	9.6	
90	9.1	10.3	9.5	10	10	9.7	9.5	9	8.6	8.2	8	7.2	7.1	7.7	7.5	7.7	9.2	10.1	9.2	9.3	9.6	
100	8.7	9.8	9.6	9.9	9.9	9.7	9.2	9	8.4	7.7	7.6	7	7	7.6	7.1	7.5	8.3	10	9.2	9.3	9.6	
110			9.2	9.8		9.4																

Secchi depth

(m)	16	12.5	10.5	8	11	16	14	12.7	14	18	11	14	12.8	13.5	15.5	12	12	13	13	11.5	11
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Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
 Additional site C (Western Bays) for the period starting 1 July 2002

2002-2003

Temperature																					
Date	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002	13/11/2002	28/11/2002	18/12/2002	30/01/2003	13/02/2003	17/03/2003	3/04/2003	28/04/2003	15/05/2003	12/06/2003	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003
Depth (m)																					
0	12.22	11.52	11.6	11.4	11.24	12.10	12.56	13.98	15.12	17.61	19.58	19.04	18.15	17.1	15.8	13.65	11.86	11.43	11.56	11.31	11.32
10	12.15	11.5	11.2	10.9	11.23	11.30	12.5	13.45	14.21	17.49	18.95	18.45	18.58	16.82	15.54	13.62	11.8	11.36	11.26	11.21	11.13
20	12.14	11.49	11.2	10.9	11.16	11.30	12.38	12.63	13.31	17.48	17.41	18.29	18.3	16.77	15.52	13.59	11.8	11.34	11.25	11.14	11.09
30	12.14	11.49	11.2	10.8	11.06	11.20	12.33	12.42	12.73	14.31	14.19	14.81	14.61	16.76	15.51	13.59	11.8	11.32	11.25	11.14	11.08
40	12.13	11.49	11.2	10.8	11.02	11.20	11.75	12.2	11.98	12.36	12.79	12.88	12.73	13.62	13.07	13.59	11.8	11.31	11.25	11.14	11.08
50	12.13	11.49	11.2	10.8	11.02	11.20	11.28	11.98	11.53	12	11.98	11.86	12.1	12.08	12.14	13.54	11.8	11.31	11.25	11.14	11.07
60	11.92	11.49	11.2	10.8	11	11.10	11.12	11.37	11.33	11.61	11.68	11.49	11.71	11.56	11.71	13.28	11.8	11.31	11.25	11.14	11.07
70	11.55	11.49	11.2	10.8	10.99	11.10	11.08	11.21	11.15	11.29	11.3	11.35	11.37	11.35	11.4	11.8	11.8	11.31	11.25	11.14	11.07
80	11.5	11.49	11.2	10.8	10.95	11.10	11.03	11.04	11.12	11.19	11.19	11.25	11.22	11.24	11.27	11.45	11.79	11.31	11.25	11.14	11.07
90	11.47	11.49	11.2	10.8	10.94	11.00	11	10.98	11.1	11.11	11.15	11.2	11.18	11.18	11.22	11.35	11.6	11.29	11.25	11.14	11.07
100	11.45	11.49	11.2	10.8	10.92	11.00	10.97	10.96	11.08	11.08	11.13	11.2	11.15	11.15	11.17	11.23	11.28	11.27	11.24	11.14	11.07
Dissolved Oxygen (g m ⁻³)																					
Depth (m)	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002	13/11/2002	28/11/2002	18/12/2002	30/01/2003	13/02/2003	17/03/2003	3/04/2003	28/04/2003	15/05/2003	12/06/2003	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003
0	10.4	10.5	9.7	10.3	10.5	10.4	10.2	9.9	9.6	9.1	9.5	9.9	8.9	9.4	9.3	10	10.3	10.7	10.3	10.4	10.4
10	10.4	10.8	9.5	10.2	10.7	10.4	10.3	9.7	9.6	9	9.3	9.7	8.8	9.2	9.1	9.6	10.3	10.8	10.3	10.3	10.4
20	10.4	10.8	9.5	10.2	10.7	10.4	10.3	9.9	9.7	9	9.3	9	8.8	9.2	9	9.3	10.1	10.3	10.1	10.1	10.2
30	10.3	10.7	9.4	10.1	10.6	10.4	10.2	9.9	9.6	8.7	9	8.4	8.3	9	8.8	9.1	10.1	10	9.9	9.9	10
40	10.3	10.5	9.4	10	10.5	10.3	10.1	9.7	9.5	8.7	9	8.4	8.1	8.5	8.3	9.3	10	10	9.8	9.7	9.9
50	10.2	10.5	9.4	10	10.4	10	9.9	9.7	9.2	8.6	8.7	8.1	7.9	8.2	7.8	9.2	9.9	9.9	9.6	9.6	9.7
60	10	10.5	9.4	10	10.4	10	9.7	9.6	9.1	8.5	8.5	8.1	7.9	8.2	7.8	9.9	9.8	9.6	9.6	9.5	9.6
70	9.6	10.5	9.4	9.9	10.3	9.9	9.7	9.5	9	8.4	8.4	7.9	7.8	8	7.7	9.7	9.8	9.5	9.5	9.4	9.5
80	8.8	10.5	9.3	9.9	10.2	9.9	9.5	9	8.8	8.3	8.3	7.6	7.7	8	7.5	9.4	9.7	9.5	9.5	9.4	9.5
90	8.7	10.4	9.3	9.9	10.1	9.8	9.5	9.1	8.7	8.1	8.3	7.5	7.6	7.9	7.3	9.2	9.6	9.1	9.4	9.3	9.4
100	8.6	10.2	9.3	10	10	9.6	9.3	9.1	8.7	8	8.1	7.3	7.4	7.8	7.2	9.1	8.8	8.8	9	9.3	9.4
Secchi depth																					
(m)	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002	13/11/2002	28/11/2002	18/12/2002	30/01/2003	13/02/2003	17/03/2003	3/04/2003	28/04/2003	15/05/2003	12/06/2003	14/07/2003	31/07/2003	14/08/2003	26/08/2003	8/09/2003
	14	12.5	12	8	12	19	16	15.5	13.5	18.5	19	15	14.5	14.5	17	11	14	12	14.5	13	12

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.

2001-2002

Mid-Lake site A for the period starting 2 July 2001

Temperature																						
Date	2/07/01	25/07/01	13/08/01	3/09/01	25/09/01	25/10/01	12/11/01	10/12/01	20/12/01	8/01/02	22/01/02	6/03/02	4/04/02	22/04/02	5/05/02	19/06/02	1/07/02	17/07/02	31/07/02	29/08/02	18/09/02	9/10/02
Depth (m)																						
0	12.11	11.26	11.15	10.96	11.58	12.97	14.23	15.47	17.92	18.37	19.4	18.69	17.45	17.05	15.51	12.57	12.13	11.44	11.2	11.1	11.38	11.60
10	12.04	11.26	11.12	10.98	11.57	12.91	14.16	15.51	16.60	18.07	18.8	18.69	17.38	16.64	15.54	12.57	12.12	11.44	11.2	10.9	11.33	11.60
20	12.00	11.26	11.12	10.95	11.56	12.90	13.37	15.52	15.46	17.62	18.05	18.68	17.18	16.61	15.52	12.57	12.11	11.44	11.2	10.9	11.28	11.40
30	11.99	11.26	11.11	10.94	11.52	12.89	12.85	14.52	13.79	13.5	14.8	15.3	16.83	16.56	15.5	12.56	12.11	11.44	11.2	10.8	11.02	11.30
40	11.98	11.26	11.11	10.94	11.04	12.00	11.87	13.01	12.41	12.43	13.1	12.42	12.9	13.35	15.39	12.56	12.11	11.44	11.2	10.9	10.97	11.30
50	11.98	11.26	11.11	10.94	10.96	11.50	11.57	11.80	11.70	11.61	12.06	11.73	12.09	11.93	11.92	12.56	12.11	11.44	11.2	10.9	10.96	11.20
60	11.95	11.26	11.10	10.94	10.92	11.13	11.24	11.27	11.32	11.38	11.52	11.43	11.51	11.53	11.49	12.53	12.1	11.44	11.2	10.8	10.94	11.20
70	11.76	11.26	11.09	10.94	10.91	11.01	11.13	11.13	11.22	11.24	11.25	11.27	11.3	11.3	11.33	11.98	12.1	11.44	11.2	10.8	10.93	11.20
80	11.51	11.26	11.08	10.92	10.90	10.96	11.03	11.05	11.16	11.16	11.17	11.2	11.24	11.25	11.27	11.35	11.97	11.44	11.2	10.9	10.92	11.10
90	11.45	11.26	11.08	10.91	10.90	10.95	11.01	11.02	11.12	11.13	11.15	11.17	11.19	11.22	11.28	11.27	11.49	11.43	11.2	10.9	10.91	11.10
100	11.41	11.26	11.08	10.91	10.90	10.94	10.99	11.00	11.08	11.12	11.14	11.16	11.17	11.2	11.38	11.25	11.39	11.41	11.2	10.9	10.9	11.10
110	11.39	11.26	11.08	10.91	10.90	10.92	10.97	10.99	11.07	11.1	11.13	11.13	11.14	11.18	11.27	11.24	11.32	11.37	11.2	10.9	10.89	11.00
120	11.36	11.26	11.08	10.91	10.89	10.92	10.95	10.97	11.04	11.1	11.12	11.13	11.14	11.17	11.26	11.21	11.29	11.32	11.2	10.9	10.87	11.00
130	11.35	11.26	11.07	10.90	10.89	10.91	10.94	10.96	11.04	11.09	11.1	11.13	11.13	11.15	11.24	11.2	11.25	11.27	11.2	10.9	10.85	10.90
140	11.34	11.26	11.07	10.90	10.89	10.90	10.94	10.96	11.04	11.08	11.1	11.13	11.13	11.14	11.23	11.19	11.23	11.26	11.2	10.8	10.83	10.90
150	11.33	11.26	11.07	10.90	10.89	10.90	10.94	10.96	11.03	11.08	11.1	11.12	11.13	11.14	11.19	11.9	11.23	11.26	11.2	10.8	10.81	10.90
Dissolved Oxygen (g m ⁻³)																						
Depth (m)																						
0	9.2	10.2	9.6	10.6	10.4	9.9	9.5	9.4	9.1	9.1	9.0	8.7	8.8	9.4	10.5	10.2	10.3	10.4	9.7	10.5	10.5	10.3
10	9.1	10.5	9.6	10.7	10.4	9.9	9.8	9.5	8.9	9.0	8.9	8.7	8.9	9.3	9.5	10.2	10.3	10.7	9.5	10.4	10.7	10.3
20	9.4	9.4	9.6	10.6	10.4	10.0	9.4	9.5	9.0	9.0	9.1	8.7	8.8	9.3	9.5	10.2	10.3	10.7	9.4	10.3	10.6	10.2
30	9.8	9.2	9.6	10.6	10.4	10.1	9.4	9.1	8.8	9.0	9.1	8.4	8.7	9.2	9.4	10.2	10.2	10.7	9.4	10.3	10.5	10.2
40	9.8	9.1	9.6	10.6	10.0	9.7	8.9	9.1	8.6	8.8	9.0	8.4	8.3	8.7	9.3	10.1	10.2	10.6	9.4	10.2	10.4	10.2
50	9.6	8.9	9.6	10.6	9.9	9.5	9.0	8.7	8.6	8.7	8.7	8.2	8.2	8.3	8.6	10.1	10.2	10.6	9.4	10.2	10.3	10.1
60	9.4	8.9	9.5	10.5	9.8	9.3	8.7	8.6	8.5	8.6	8.6	8.2	8.1	8.1	8.3	10.0	10.1	10.5	9.4	10.2	10.2	10.1
70	9.5	9.0	9.4	10.4	9.7	9.3	8.8	8.7	8.5	8.6	8.5	8.2	8.0	8.0	8.2	9.6	10.1	10.5	9.3	10.1	10.2	10.0
80	7.7	8.9	9.4	10.4	9.7	9.2	8.6	8.4	8.5	8.6	8.4	8.1	7.9	7.9	8.2	8.5	10.0	10.3	9.4	10.1	10.2	10.1
90	7.8	8.9	9.4	10.4	9.6	9.5	8.8	8.5	8.5	8.6	8.2	8.1	7.8	7.8	8.0	8.3	9.7	10.3	9.4	10.1	10.1	10.1
100	7.5	8.6	9.3	10.4	9.6	9.2	8.6	8.4	8.3	8.5	8.1	8.0	7.8	7.8	7.5	8.2	8.6	10.1	9.4	10.1	10.0	9.8
110	7.4	8.7	9.3	10.4	9.6	9.2	8.6	8.4	8.3	8.4	8.1	8.0	7.7	7.7	7.3	8.1	8.3	9.8	9.3	9.9	9.9	9.8
120	6.9	8.5	9.3	10.3	9.5	9.0	8.4	8.4	8.3	8.2	8.1	7.9	7.7	7.6	7.2	8.0	8.1	8.8	9.3	9.9	9.9	9.8
130	6.9	8.5	9.3	10.2	9.5	9.0	8.4	8.4	8.3	8.2	8.2	7.9	7.6	7.5	7.3	7.9	8.0	8.5	9.3	9.9	9.9	9.7
140	6.8	8.3	9.2	10.2	9.5	8.6	8.2	8.2	8.1	8.0	8.1	7.8	7.1	7.8	7.3	7.8	7.8	8.1	9.3	9.9	9.9	9.4
150	6.4	8.2	9.2	10.2	9.3	8.5	8.1	8.1	7.9	7.8	7.9	7.6	7.0	7.2	7.3	7.7	7.8	8.1	9.3	9.8	9.8	9.4
Secchi depth																						
(m)	12	14.5	13.5	17.5	11	14.5	15.5	16	13	13	15	14.5	19	22	16.4	17	16	15.5	12	9.5	12	15.5

**Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Additional site B (Kuratau Basin) for the period starting 8 January 2002 on**

2001-2002

Temperature

Date	8/01/2002	22/01/2002	6/03/2002	4/04/2002	22/04/2002	5/05/2002	19/06/2002	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002
Depth (m)												
0	18.1	18.8	18.64	17.38	16.84	15.12	12.45	12.13	11.48	11.3	11	11.08
10	17.55	18.45	18.58	17.35	16.61	15.14	12.44	12.09	11.49	11.1	10.8	11.05
20	15.72	17.4	18.56	17.1	16.6	15.05	12.44	12.09	11.48	11.1	10.8	11.03
30	13.74	13.9	15.07	16.74	16.4	14.75	12.43	12.09	11.48	11.1	10.8	11.03
40	12.62	12.73	13.08	14.3	13.4	14.4	12.24	12.08	11.48	11.1	10.8	11.02
50	11.92	11.98	11.91	12.77	12.12	14.07	12.11	11.97	11.49	11.1	10.8	10.91
60	11.31	11.41	11.5	12.03	11.53	12.96	11.73	11.93	11.49	11.1	10.8	10.9
70	11.21	11.25	11.24	11.5	11.32	12.2	11.49	11.87	11.48	11.1	10.8	10.89
80	11.15	11.19	11.21	11.29	11.24	11.97	11.38	11.78	11.48	11.1	10.8	10.89
90	11.1	11.13	11.15	11.2	11.18	11.69	11.3	11.37	11.46	11.1	10.7	10.87
100	11.1	11.12	11.12	11.19	11.15	11.39	11.22	11.28	11.3	11	10.7	10.85
110										10.7	10.7	

Dissolved Oxygen (g m⁻³)

Depth (m)	8/01/2002	22/01/2002	6/03/2002	4/04/2002	22/04/2002	5/05/2002	19/06/2002	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002
0	8.7	8.8	9.3	9.3	9.3	10.9	10.4	10.3	10.4	9.9	10.4	10.4
10	8.6	9	9.1	9.2	9.3	9.5	10.3	10.3	10.8	9.7	10.3	10.5
20	8.8	9	9.1	9.2	9.2	9.4	10.2	10.2	10.6	9.6	10.3	10.5
30	8.8	8.9	8.6	9.1	9.2	9.3	10.2	10.2	10.6	9.6	10.2	10.5
40	8.7	8.7	8.7	8.9	8.5	9.1	10.1	10.1	10.5	9.6	10.2	10.4
50	8.7	8.4	8.5	8.6	8.2	9	10	10.1	10.5	9.6	10.1	10.3
60	8.7	8.3	8.4	8.4	8	8.6	9	9.8	10.4	9.6	10.1	10.2
70	8.7	8.3	8.3	8.3	7.9	8.1	8.7	9.7	10.4	9.5	10	10.1
80	8.7	8.2	8.1	8.1	7.8	7.9	8.4	9.5	10.3	9.5	10	10.1
90	8.2	8.1	7.9	7.7	7.7	7.8	8.2	9.1	10.3	9.5	10	10
100	8	7.6	7.5	7.7	7.5	7.7	7.8	8.7	9.8	9.6	9.9	9.9
110	8				6.2					9.2	9.8	

Secchi depth

Depth (m)	8/01/2002	22/01/2002	6/03/2002	4/04/2002	22/04/2002	5/05/2002	19/06/2002	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002
0	13.5	12	14.5	19.5	19	13.2	15	16	12.5	10.5	8	11

**Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
Additional site C (Western Bays) for the period starting 8 January 2002 on**

2001-2002

Temperature

Date	8/01/2002	22/01/2002	6/03/2002	4/04/2002	22/04/2002	5/05/2002	19/06/2002	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002
Depth (m)													
0	18.72	18.82	18.68	17.47	16.88	15.6	12.58	12.22	11.52	11.6	11.4	11.24	12.10
10	17.41	18.46	18.47	17.24	11.63	15.64	12.56	12.15	11.5	11.2	10.9	11.23	11.30
20	16.95	18.21	18.32	17.16	16.58	15.64	12.56	12.14	11.49	11.2	10.9	11.16	11.30
30	14	13.77	15.9	17.12	16.5	15.61	12.56	12.14	11.49	11.2	10.8	11.06	11.20
40	13.14	12.01	12.98	13.17	13.02	12.26	12.56	12.13	11.49	11.2	10.8	11.02	11.20
50	11.97	11.5	12.13	12.11	11.87	11.57	12.56	12.13	11.49	11.2	10.8	11.02	11.20
60	11.44	11.26	11.59	11.57	11.47	11.37	11.9	11.92	11.49	11.2	10.8	11	11.10
70	11.26	11.17	11.36	11.38	11.32	11.29	11.36	11.55	11.49	11.2	10.8	10.99	11.10
80	11.18	11.16	11.25	11.32	11.26	11.24	11.28	11.5	11.49	11.2	10.8	10.95	11.10
90	11.15	11.14	11.18	11.21	11.23	11.21	11.23	11.47	11.49	11.2	10.8	10.94	11.00
100	11.12	11.11	11.18	11.19	11.19	11.19	11.22	11.45	11.49	11.2	10.8	10.92	11.00
110	11.11	11.1			11.16	11.15				11.2	10.8		10.90
120										11.2	10.8		10.90

Dissolved Oxygen (g m⁻³)

Depth (m)	8/01/2002	22/01/2002	6/03/2002	4/04/2002	22/04/2002	5/05/2002	19/06/2002	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002
0	8.6	8.9	9.3	9.4	9.3	10.6	10.3	10.4	10.5	9.7	10.3	10.5	10.4
10	8.4	8.9	9	9.1	9.2	9.5	10.2	10.4	10.8	9.5	10.2	10.7	10.4
20	8.9	8.9	9	9.1	9.2	9.5	10.2	10.4	10.8	9.5	10.2	10.7	10.4
30	8.6	8.9	8.8	9.1	9.1	9.4	10.1	10.3	10.7	9.4	10.1	10.6	10.4
40	8.6	8.5	8.6	8.6	8.5	8.9	10.1	10.3	10.5	9.4	10	10.5	10.3
50	8.5	8.2	8.5	8.5	8.1	8.6	10	10.2	10.5	9.4	10	10.4	10
60	8.6	8.1	8.5	8.2	7.9	8.3	9.7	10	10.5	9.4	10	10.4	10
70	8.6	8.1	8.2	8.2	7.8	8.2	9.1	9.6	10.5	9.4	9.9	10.3	9.9
80	8.7	8.1	8.1	8	7.7	8	8.4	8.8	10.5	9.3	9.9	10.2	9.9
90	8.6	8.1	8.1	7.9	7.7	7.9	8	8.7	10.4	9.3	9.9	10.1	9.8
100	8.7	8.1	8.1	7.9	7.6	7.8	7.7	8.6	10.2	9.3	10	10	9.6
110	8.5	7.9			7.6	7.7				9.3	10		9.7
120	8.5	7.7								9.1	9.9		9.6

Secchi depth

Depth (m)	8/01/2002	22/01/2002	6/03/2002	4/04/2002	22/04/2002	5/05/2002	19/06/2002	1/07/2002	17/07/2002	31/07/2002	29/08/2002	18/09/2002	9/10/2002
Depth (m)	14.5	15.5	16	19	18.5	15.6	16	14	12.5	12	8	12	19

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
For the period starting 11 July 2000

2000-2001

Temperature		11-7-00	04-8-00	21-8-00	11-9-00	28-9-00	25-10-00	13-11-00	06-12-00	03-1-01	15-1-01	20-2-01	01-3-01	19-3-01	09-4-01	11-4-01	10-5-01	29-5-01	02-7-01	25-7-01	13-8-01	
Date	Depth (m)																					
	0	11.87	11.32	11.19	11.80	12.47	14.04	13.27	15.73	18.16	18.98	20.47	20.87	19.01	16.99	16.99	15.78	13.62	12.11	11.26	11.15	
	10	11.87	11.32	11.15	11.46	11.52	13.03	13.09	15.06	17.37	18.51	19.37	20.71	19.05	16.87	16.99	15.78	13.74	12.04	11.26	11.12	
	20	11.86	11.32	11.14	11.33	11.36	11.99	12.98	14.15	15.46	14.79	18.08	18.98	19.06	16.78	16.97	15.78	13.78	12.00	11.26	11.12	
	30	11.86	11.33	11.14	11.30	11.33	11.83	12.80	13.31	13.61	13.63	16.06	15.95	16.46	15.82	16.84	15.73	13.79	11.99	11.26	11.11	
	40	11.86	11.33	11.14	11.27	11.31	11.60	12.36	12.49	12.73	12.81	13.39	13.36	13.05	13.13	13.87	13.19	13.80	11.98	11.26	11.11	
	50	11.86	11.33	11.14	11.22	11.30	11.49	12.10	12.16	12.21	12.27	12.67	12.58	12.42	12.35	12.68	12.42	13.80	11.98	11.26	11.11	
	60	11.64	11.33	11.15	11.18	11.27	11.42	11.69	11.78	11.76	11.87	12.01	12.01	11.84	11.81	11.89	11.90	11.92	11.95	11.26	11.10	
	70	11.42	11.33	11.15	11.15	11.24	11.39	11.41	11.53	11.64	11.67	11.77	11.79	11.67	11.67	11.69	11.69	11.61	11.76	11.26	11.09	
	80	11.31	11.33	11.15	11.14	11.20	11.38	11.29	11.40	11.47	11.55	11.56	11.63	11.55	11.54	11.54	11.52	11.54	11.51	11.26	11.08	
	90	11.22	11.33	11.15	11.13	11.17	11.33	11.26	11.36	11.43	11.46	11.50	11.55	11.49	11.46	11.48	11.47	11.46	11.45	11.26	11.08	
	100	11.21	11.32	11.15	11.13	11.14	11.33	11.21	11.32	11.38	11.39	11.43	11.50	11.43	11.41	11.43	11.42	11.42	11.41	11.26	11.08	
	110	11.19	11.32	11.15	11.13	11.06	11.29	11.19	11.28	11.36	11.36	11.40	11.46	11.41	11.37	11.39	11.40	11.38	11.39	11.26	11.08	
	120	11.19	11.31	11.15	11.13	11.04	11.27	11.19	11.27	11.33	11.34	11.39	11.44	11.39	11.33	11.35	11.38	11.35	11.36	11.26	11.08	
	130	11.18	11.26	11.15	11.12	11.02	11.23	11.17	11.26	11.30	11.32	11.37	11.43	11.37	11.32	11.34	11.36	11.33	11.35	11.26	11.07	
	140	11.16	11.18	11.14	11.12	11.01	11.18	11.15	11.25	11.30	11.31	11.35	11.40	11.35	11.31	11.32	11.34	11.31	11.34	11.26	11.07	
	150	11.15	11.18	11.14	11.12	11.01	11.15	11.15	11.25	11.32	11.31	11.33	11.41	11.34	11.31	11.32	11.34	11.31	11.33	11.26	11.07	
Dissolved Oxygen (g m ⁻³)																						
	0	9.0	9.0	9.2	9.3	9.1	8.9	8.2	8.7	8.2	8.0	8.0	8.2	8.4	8.3	8.4	8.2	8.7	9.2	10.2	9.6	
	10	9.0	9.0	9.4	9.5	8.7	8.8	8.4	8.3	8.6	8.0	8.5	8.3	8.3	8.2	8.0	8.5	9.1	10.5	9.6		
	20	9.0	9.1	9.4	9.5	8.7	9.1	8.4	8.5	8.4	8.1	8.2	8.6	8.6	8.4	7.9	7.9	8.4	9.4	9.4	9.6	
	30	9.0	9.1	9.6	9.5	8.7	8.9	8.4	8.5	8.5	8.2	8.0	8.3	8.0	8.0	8.0	7.8	8.4	9.8	9.2	9.6	
	40	9.0	9.1	9.6	9.5	9.1	8.7	8.2	8.2	8.4	7.9	8.1	8.1	7.6	7.8	7.6	7.7	8.3	9.8	9.1	9.6	
	50	9.0	9.1	9.6	9.5	9.1	8.5	8.2	8.2	8.1	7.9	7.8	7.6	7.5	7.4	7.5	8.3	9.6	8.9	9.6		
	60	9.0	9.1	9.7	9.5	8.7	8.4	8.0	7.9	8.0	7.5	7.7	7.4	6.8	7.2	7.2	7.5	7.2	9.4	8.9	9.5	
	70	8.9	9.1	9.7	9.5	8.7	8.3	7.9	7.8	7.9	7.4	7.6	7.2	6.8	7.1	7.4	7.3	7.0	9.5	9.0	9.4	
	80	7.8	9.0	9.7	9.5	8.7	8.2	7.6	7.6	7.8	7.5	7.4	7.0	6.5	6.9	7.3	7.0	7.7	8.9	9.4		
	90	7.4	8.9	9.7	9.5	8.7	8.2	7.6	7.6	7.7	7.5	7.4	6.9	6.5	6.9	7.1	7.1	7.0	7.8	8.9	9.4	
	100	7.2	8.7	9.7	9.5	8.7	8.0	7.5	7.6	7.6	7.3	7.2	6.8	6.6	6.8	7.0	7.0	6.9	7.5	8.6	9.3	
	110	7.1	8.3	9.7	9.5	8.7	8.0	7.5	7.5	7.6	7.2	7.1	6.7	6.5	6.8	7.0	7.0	6.7	7.4	8.7	9.3	
	120	6.9	7.9	9.7	9.5	8.2	8.1	7.4	7.4	7.5	7.1	7.0	6.5	6.5	6.7	6.8	6.9	6.6	6.9	8.5	9.3	
	130	6.9	7.3	9.7	9.5	8.5	8.1	7.4	7.3	7.4	7.0	7.0	6.5	6.5	6.6	6.7	6.6	6.5	6.9	8.5	9.3	
	140	6.9	7.1	9.7	9.5	8.6	8.0	7.3	7.2	7.2	6.9	6.8	6.4	6.5	6.4	6.4	6.7	6.3	6.8	8.3	9.2	
	150	6.8	7.4	9.7	9.3	8.5	7.9	7.3	7.1	7.1	6.6	6.5	6.3	6.4	6.3	6.3	6.6	6.1	6.4	8.2	9.2	
Secchi depth																						
	Depth (m)																					
	11	12	15	12	13	11	12	17	17	18	17	14.5	17	13.5	13.5	17	14.5	12	14.5	13.5		

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
For the period starting 13 July 1999

1999-2000

Temperature

Date	13-7-99	6-8-99	3-9-99	29-9-99	18-10-99	19-12-99	18-1-00	12-4-00	4-5-00	25-5-00	20-6-00	11-7-00	4-8-00	21-8-00	11-9-00	28-9-00	25-10-00	13-11-00	6-12-00	
Depth (m)																				
0	12.0	11.8	11.8	11.5	12.8	16.56	18.63	17.41	15.82	14.22	12.28	11.87	11.32	11.19	11.80	12.47	14.04	13.27	15.73	
10	12.0	11.4	11.3	11.5	12.7	16.40	18.35	17.25	15.77	14.28	12.28	11.87	11.32	11.15	11.46	11.52	13.03	13.09	15.06	
20	12.0	11.4	11.2	11.5	12.4	15.96	17.22	17.21	15.76	14.31	12.28	11.86	11.32	11.14	11.33	11.36	11.99	12.98	14.15	
30	12.0	11.4	11.1	11.4	11.6	15.23	14.94	16.65	15.75	14.28	12.27	11.86	11.33	11.14	11.30	11.33	11.83	12.86	13.31	
40	12.0	11.3	11.1	11.2	11.4	12.16	13.29	12.55	13.64	14.22	12.26	11.86	11.33	11.14	11.27	11.31	11.60	12.36	12.49	
50	12.0	11.3	11.1	11.1	11.3	11.64	11.91	11.67	12.14	12.53	12.26	11.86	11.33	11.14	11.22	11.30	11.49	12.10	12.16	
60	12.0	11.3	11.0	11.1	11.1	11.35	11.45	11.39	11.56	11.56	12.21	11.85	11.33	11.15	11.18	11.27	11.42	11.69	11.78	
70	12.0	11.3	11.0	11.0	11.1	11.25	11.31	11.29	11.36	11.34	11.58	11.64	11.33	11.15	11.15	11.24	11.39	11.41	11.53	
80	11.4	11.3	11.0	11.0	11.0	11.18	11.21	11.23	11.24	11.23	11.32	11.42	11.33	11.15	11.14	11.20	11.38	11.29	11.40	
90	11.3	11.3	11.0	11.0	11.0	11.16	11.17	11.20	11.21	11.20	11.24	11.31	11.33	11.15	11.13	11.17	11.33	11.26	11.36	
100	11.2	11.2	11.0	11.0	11.0	11.14	11.14	11.17	11.17	11.15	11.17	11.22	11.32	11.15	11.13	11.14	11.33	11.21	11.32	
110	11.2	11.2	11.0	11.0	11.0	11.12	11.12	11.15	11.14	11.12	11.16	11.21	11.32	11.15	11.13	11.06	11.29	11.19	11.28	
120	11.2	11.1	11.0	11.0	11.0	11.10	11.09	11.13	11.12	11.10	11.14	11.19	11.31	11.15	11.13	11.04	11.27	11.19	11.27	
130	11.1	11.1	11.0	11.0	11.0	11.08	11.08	11.11	11.10	11.09	11.12	11.18	11.26	11.15	11.12	11.02	11.23	11.17	11.26	
140	11.1	11.1	11.0	11.0	11.0	11.07	11.07	11.09	11.09	11.09	11.10	11.16	11.18	11.14	11.12	11.01	11.18	11.15	11.25	
150	11.1	11.0	11.0	10.9	11.0	11.10	11.06	11.09	11.09	11.07	11.10	11.15	11.18	11.14	11.12	11.01	11.15	11.15	11.25	

Dissolved Oxygen (g m⁻³)

Depth (m)	13-7-99	6-8-99	3-9-99	29-9-99	18-10-99	19-12-99	18-1-00	12-4-00	4-5-00	25-5-00	20-6-00	11-7-00	4-8-00	21-8-00	11-9-00	28-9-00	25-10-00	13-11-00	6-12-00
0	10.5	10.1	9.2	9.5	8.9	8.3	7.9	9.2	8.7	8.5	8.1	9.0	9.0	9.2	9.3	9.1	8.9	8.2	8.7
10	10.7	10.2	9.8	9.8	8.9	8.6	7.9	9.2	8.6	8.3	8.3	9.0	9.0	9.4	9.5	8.7	8.8	8.4	8.3
20	10.7	9.9	9.8	9.9	8.9	8.7	8.1	9.2	8.8	8.5	8.7	9.0	9.1	9.4	9.5	8.7	9.1	8.4	8.5
30	10.6	10.0	9.8	9.7	8.9	8.7	8.3	9.0	8.8	8.5	8.6	9.0	9.1	9.6	9.5	8.7	8.9	8.4	8.5
40	10.6	9.7	9.5	9.6	8.8	8.7	8.1	8.3	8.2	8.6	8.6	9.0	9.1	9.6	9.5	9.1	8.7	8.2	8.2
50	10.4	9.9	9.5	9.3	8.6	8.7	8.0	8.0	7.9	8.2	8.6	9.0	9.1	9.6	9.5	9.1	8.5	8.2	8.2
60	10.4	9.8	9.4	9.2	8.6	8.6	8.0	8.0	7.9	7.7	8.7	9.0	9.1	9.7	9.5	8.7	8.4	8.0	7.9
70	10.3	9.7	9.3	9.0	8.6	8.7	8.0	8.0	7.8	7.7	8.4	8.9	9.1	9.7	9.5	8.7	8.3	7.9	7.8
80	10.3	9.0	9.2	9.0	8.5	8.5	7.9	7.9	7.7	7.6	7.6	7.8	9.0	9.7	9.5	8.7	8.2	7.6	7.6
90	8.1	8.6	9.2	9.0	8.6	8.5	7.7	7.9	7.8	7.4	7.4	7.4	8.9	9.7	9.5	8.7	8.2	7.6	7.6
100	7.9	7.3	9.2	8.9	8.6	8.5	8.3	7.7	7.6	7.4	7.3	7.2	8.7	9.7	9.5	8.7	8.0	7.5	7.6
110	7.5	7.1	9.1	8.9	8.6	8.3	8.1	7.7	7.6	7.6	7.4	7.1	8.3	9.7	9.5	8.7	8.0	7.5	7.5
120	7.4	6.8	9.1	8.9	8.3	8.4	8.1	7.7	7.4	7.5	7.3	6.9	7.9	9.7	9.5	8.2	8.1	7.4	7.4
130	7.3	6.7	9.0	8.8	7.9	8.2	8.0	7.5	7.4	7.5	7.3	6.9	7.3	9.7	9.5	8.5	8.1	7.4	7.3
140	7.1	6.7	8.9	8.7	7.5	8.1	8.0	7.5	7.2	7.4	7.2	6.9	7.1	9.7	9.5	8.6	8.0	7.3	7.2
150	6.9	6.4	8.9	8.6	7.5	8.0	7.5	7.2	6.8	7.0	6.9	6.8	7.4	9.7	9.3	8.5	7.9	7.3	7.1

Secchi depth

Depth (m)	13-7-99	6-8-99	3-9-99	29-9-99	18-10-99	19-12-99	18-1-00	12-4-00	4-5-00	25-5-00	20-6-00	11-7-00	4-8-00	21-8-00	11-9-00	28-9-00	25-10-00	13-11-00	6-12-00
0	16	14.5	10	10	14.9	18	19.1	15	14	14	14	11	12	15	12	13	11	12	17

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
For the period starting 28 July 1998

1998-1999

Temperature

Date	28-7-98	22-8-98	29-9-98	1-11-98	26-11-98	22-12-98	12-2-99	3-3-99	14-4-99	30-4-99	19-5-99	1-6-99	17-6-99	13-7-99	6-8-99	3-9-99	29-9-99	18-10-99	
Depth (m)																			
0	11.4	11.5	12.9	13.6	18.4	18.5	20.1	20.9	18.3	16.4	14.4	14.2	13.0	12.0	11.8	11.8	11.5	12.8	
10	11.6	11.3	11.9	13.2	15.6	16.7	20.1	19.8	18.3	16.4	14.4	14.1	13.4	12.0	11.4	11.3	11.5	12.7	
20	11.6	11.3	11.5	12.7	15.4	15.7	20.1	19.8	18.3	16.4	14.5	14.1	13.4	12.0	11.4	11.2	11.5	12.4	
30	11.6	11.3	11.3	12.4	12.7	14.5	14.9	15.1	18.1	16.0	14.5	14.1	13.4	12.0	11.4	11.1	11.4	11.6	
40	11.6	11.3	11.2	12.4	12.1	12.7	13.2	13.1	12.9	13.1	14.5	13.9	13.4	12.0	11.3	11.1	11.2	11.4	
50	11.6	11.3	11.1	12.2	11.8	11.8	12.1	12.1	11.9	12.2	13.1	13.0	13.4	12.0	11.3	11.1	11.1	11.3	
60	11.6	11.3	11.1	11.7	11.5	11.5	11.6	11.8	11.6	12.0	11.8	12.0	12.1	12.0	11.3	11.0	11.1	11.1	
70	11.6	11.1	11.0	11.2	11.3	11.3	11.4	11.5	11.4	11.8	11.3	11.4	11.5	12.0	11.3	11.0	11.0	11.1	
80	10.6	10.9	11.0	11.1	11.2	11.2	11.2	11.4	11.3	11.2	11.2	11.3	11.3	11.4	11.3	11.0	11.0	11.0	
90	10.6	10.9	10.9	11.1	11.1	11.1	11.1	11.3	11.2	11.1	11.1	11.2	11.2	11.3	11.3	11.0	11.0	11.0	
100	10.5	10.8	10.9	11.0	11.1	11.1	11.1	11.3	11.2	11.1	11.1	11.1	11.2	11.2	11.2	11.0	11.0	11.0	
110	10.5	10.5	10.9	11.0	11.0	11.1	11.1	11.2	11.2	11.1	11.1	11.1	11.1	11.2	11.2	11.0	11.0	11.0	
120	10.5	10.5	10.9	11.0	11.0	11.0	11.0	11.2	11.2	11.1	11.1	11.1	11.1	11.2	11.1	11.0	11.0	11.0	
130	10.5	10.5	10.7	11.0	11.0	11.1	11.1	11.1	11.1	11.1	11.0	11.1	11.1	11.1	11.1	11.0	11.0	11.0	
140	10.5	10.5	10.7	10.9	11.0	11.1	11.1	11.1	11.1	11.1	11.0	11.1	11.0	11.1	11.1	11.0	11.0	11.0	
150	10.5	10.5	10.7	10.9	11.0	11.1	11.1	11.1	11.1	11.1	11.0	11.1	11.0	11.1	11.0	11.0	10.9	11.0	

Dissolved Oxygen (g m⁻³)

Depth (m)	28-7-98	22-8-98	29-9-98	1-11-98	26-11-98	22-12-98	12-2-99	3-3-99	14-4-99	30-4-99	19-5-99	1-6-99	17-6-99	13-7-99	6-8-99	3-9-99	29-9-99	18-10-99
0	10.6	10.6	10.6	10.4	9.6	9.7	9.0	8.6	9.1	9.5	9.9	10.0	10.4	10.5	10.1	9.2	9.5	8.9
10	10.5	10.5	10.7	10.7	9.9	10.1	9.0	8.7	9.2	9.5	10.5	10.4	10.3	10.7	10.2	9.8	9.8	8.9
20	10.4	10.4	10.6	10.7	9.8	10.2	8.9	8.7	9.1	9.6	10.4	10.4	10.4	10.7	9.9	9.8	9.9	8.9
30	10.4	10.3	10.5	10.6	10.1	10.2	9.9	9.5	9.1	9.6	10.1	10.7	10.5	10.6	10.0	9.8	9.7	8.9
40	10.3	10.3	10.3	10.4	10.0	10.1	9.9	9.2	9.1	9.1	10.0	10.4	10.4	10.6	9.7	9.5	9.6	8.8
50	10.3	10.2	10.2	10.2	9.8	9.9	9.6	8.9	9.0	8.7	9.2	9.6	10.4	10.4	9.9	9.5	9.3	8.6
60	10.3	10.1	10.1	10.0	9.7	9.7	9.5	8.8	8.9	8.7	8.7	9.4	9.0	10.4	9.8	9.4	9.2	8.6
70	10.3	9.5	9.9	9.6	9.5	9.5	9.4	8.7	8.7	8.6	8.3	9.1	8.9	10.3	9.7	9.3	9.0	8.6
80	8.6	8.2	9.5	9.1	9.2	9.3	9.2	8.6	8.6	8.4	8.2	9.1	8.6	10.3	9.0	9.2	9.0	8.5
90	8.5	7.9	9.3	8.8	9.1	9.1	9.1	8.4	8.6	8.0	7.8	8.8	8.5	8.1	8.6	9.2	9.0	8.6
100	8.3	7.4	8.9	8.5	9.1	8.9	8.9	8.3	8.6	8.0	7.7	8.5	8.2	7.9	7.3	9.2	8.9	8.6
110	8.3	7.4	8.5	8.3	8.8	8.9	8.7	8.2	8.5	8.0	7.5	8.2	8.1	7.5	7.1	9.1	8.9	8.6
120	8.2	7.4	7.7	8.0	8.6	8.8	8.3	7.9	8.3	7.9	7.4	8.2	8.0	7.4	6.8	9.1	8.9	8.3
130	8.2	7.4	7.6	7.8	8.4	8.6	8.1	7.7	8.1	7.7	7.3	8.1	7.7	7.3	6.7	9.0	8.8	7.9
140	8.1	7.4	7.4	7.6	8.2	8.4	7.9	7.5	7.9	7.5	7.2	7.8	7.4	7.1	6.7	8.9	8.7	7.5
150	8.1	7.4	7.4	7.6	8.0	8.2	7.7	7.3	7.7	7.3	7.0	7.5	7.3	6.9	6.4	8.9	8.6	7.5

Secchi depth

Depth (m)	28-7-98	22-8-98	29-9-98	1-11-98	26-11-98	22-12-98	12-2-99	3-3-99	14-4-99	30-4-99	19-5-99	1-6-99	17-6-99	13-7-99	6-8-99	3-9-99	29-9-99	18-10-99
0	10.0	10.5	10.4	13.5	15.0	14.5	12.5	14.3	13.0	12.2	15.0	15.0	15.0	16.0	14.5	10.0	10.0	14.9

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
For the period starting 16 September 1997

1997-1998

Temperature												
Date	16-9-97	11-10-97	28-10-97	02-12-97	21-1-98	04-3-98	24-3-98	26-3-98	07-4-98	29-5-98	28-7-98	22-8-98
Depth (m)												
1	10.8	11.8	12.2	14.5	17.7	20.0	19.3	18.6	17.7	14.2	11.4	11.49
10	10.5	11.4	12.0	13.7	17.6	19.9	18.6	18.6	17.7	14.3	11.6	11.32
20	10.5	11.1	11.5	13.6	16.5	19.7	18.5	18.5	17.7	14.0	11.6	11.27
30	10.5	10.8	11.5	13.1	14.3	16.4	18.0	18.1	17.5	13.1	11.6	11.27
40	10.5	10.6	11.4	12.5	12.0	13.3	13.0	12.6	13.7	12.0	11.6	11.27
50	10.5	10.5	11.1	11.5	11.2	12.0	11.9	11.7	11.5	11.2	11.6	11.26
60	10.5	10.5	11.1	11.0	11.0	11.5	11.1	11.1	11.0	10.9	11.6	11.26
70	10.5	10.5	10.8	10.8	10.8	11.0	10.7	10.8	10.8	10.8	11.6	11.12
80	10.5	10.5	10.7	10.7	10.7	10.8	10.6	10.7	10.6	10.6	10.6	10.90
90	10.5	10.5	10.6	10.6	10.6	10.7	10.5	10.6	10.6	10.6	10.6	10.86
100	10.5	10.5	10.5	10.5	10.6	10.7	10.5	10.6	10.6	10.6	10.5	10.82
110	10.5	10.5	10.4	10.5	10.6	10.6	10.5	10.5	10.5	10.6	10.5	10.5
120	10.5	10.5	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.5	10.5	10.5
130	10.5	10.5	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.5	10.5	10.5
140	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
150	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Dissolved Oxygen (g m ⁻³)												
Depth (m)												
1	10.55	10.37	10.68	9.89	9.27	9.17	9.43	9.10	9.14	9.92	10.60	10.64
10	10.52	10.51	10.22	9.86	9.38	9.19	9.53	9.07	9.10	9.88	10.46	10.50
20	10.50	10.46	10.24	9.86	9.46	9.22	9.61	8.95	9.07	9.87	10.40	10.36
30	10.29	10.46	10.00	9.74	9.81	9.30	9.78	8.97	9.09	9.68	10.35	10.27
40	10.31	10.39	9.96	9.66	9.85	9.32	9.73	9.47	9.32	9.40	10.32	10.26
50	10.27	10.36	9.89	9.47	9.53	9.16	9.55	9.45	9.34	9.26	10.30	10.20
60	10.16	10.31	9.77	9.44	9.37	9.17	9.30	9.47	9.30	9.18	10.28	10.10
70	10.08	10.24	9.76	9.19	9.30	9.11	9.21	9.38	9.24	9.20	10.25	9.54
80	10.06	10.15	9.85	9.04	9.13	9.04	9.14	9.30	9.13	9.12	8.58	8.15
90	10.03	10.09	9.33	9.00	9.10	8.93	9.03	9.24	9.05	9.08	8.52	7.90
100	9.99	10.06	9.23	8.96	9.01	8.89	8.39	9.16	8.97	8.94	8.34	7.36
110	9.96	10.02	9.03	8.87	8.89	8.83	8.38	8.98	8.94	8.78	8.26	7.36
120	9.91	10.00	8.96	8.87	8.84	8.75	8.38	8.87	8.88	8.69	8.21	7.36
130	9.86	9.92	8.76	8.84	8.68	8.63	8.38	8.38	8.79	8.41	8.21	7.36
140	9.82	9.87	8.76	8.71	8.45	8.30	8.38	8.38	8.58	8.41	8.14	7.36
150	9.56	9.69	8.76	8.65	8.38	8.22	8.38	8.38	8.40	8.41	8.14	7.36
Secchi depth data (m)												
Depth (m)	12.0	13.7	12.5	14.5	14.7	11.5	13.5	13.5	13.5	15.5	10.0	10.5

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.

1996-1997

For the period starting 3 September 1996

Temperature		3-9-96	17-9-96	27-9-96	17-10-96	24-10-96	6-11-96	28-11-96	11-12-96	23-12-96	8-1-97	29-1-97	26-3-97	2-4-97	15-4-97	20-5-97	29-5-97	7-7-97	29-7-97
Date																			
Depth (m)																			
1	10.5	10.7	12.5	13.3	12.6	13.5	13.6	14.8	16.3	17.9	17.8	17.7	17.3	16.7	14.1	14.2	11.7	10.9	
10	10.4	10.6	11.6	12.0	12.3	13.6	13.6	14.8	15.3	16.8	17.6	17.6	17.3	16.7	14.0	14.1	11.7	11.0	
20	10.3	10.4	11.1	11.9	12.3	13.4	13.3	14.4	15.1	16.5	17.4	17.2	17.2	16.7	14.0	14.1	11.7	11.0	
30	10.3	10.3	11.0	11.8	12.3	13.3	13.3	14.2	15.0	15.6	14.8	16.6	17.2	16.7	12.6	14.1	11.7	11.0	
40	10.3	10.3	10.5	11.7	11.9	11.7	11.6	12.7	13.5	13.0	13.4	13.8	14.5	14.0	11.5	14.0	11.7	11.0	
50	10.4	10.3	10.4	11.5	11.6	10.8	10.9	12.5	12.4	11.9	11.8	12.4	11.5	11.9	11.0	12.1	11.7	11.0	
60	10.3	10.3	10.4	10.9	11.1	10.6	10.9	11.7	11.3	11.2	10.9	11.2	10.9	11.1	10.5	11.8	11.7	11.0	
70	10.3	10.3	10.3	10.6	10.6	10.5	10.5	11.7	10.7	10.8	10.7	10.7	10.6	10.9	10.5	11.1	11.7	11.0	
80	10.3	10.3	10.3	10.5	10.5	10.4	10.4	11.1	10.6	10.6	10.6	10.5	10.5	10.7	10.5	10.8	10.9	11.0	
90	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.4	10.5	10.5	10.5	10.6	10.5	10.6	10.8	10.9
100	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.6	10.7
110	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.6
120	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.5
130	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.5
140	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.3	10.3	10.3	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.5
150	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.5	10.4	10.4	10.5	10.5	
Dissolved Oxygen (g m⁻³)																			
Depth (m)																			
1	8.81	9.08	10.03	9.78	10.32	9.96	9.99	10.03	9.10	8.71	8.80	9.70	9.40	9.06	9.09	9.3	9.9	10.53	
10	9.17	9.17	10.43	9.85	10.27	9.84	9.87	9.97	9.30	8.70	8.80	9.30	9.25	8.95	9.10	9.2	9.8	10.42	
20	9.14	8.98	10.32	9.84	10.15	9.80	9.80	9.90	9.30	8.70	8.70	8.93	8.94	8.91	9.06	9.2	9.8	10.45	
30	8.98	8.95	10.16	9.84	9.89	9.79	9.81	9.76	9.30	8.80	9.10	8.80	8.82	8.87	9.01	9.2	9.8	10.43	
40	8.90	8.93	9.98	9.80	9.89	9.73	9.77	9.70	9.30	9.00	8.90	8.78	8.79	8.82	8.94	9.1	9.8	10.46	
50	8.78	8.87	9.69	9.76	9.80	9.29	9.35	9.10	9.30	8.80	8.90	8.51	8.58	8.65	8.86	9.1	9.7	10.40	
60	8.73	8.80	9.54	9.67	9.67	9.19	9.14	9.04	9.15	8.60	8.70	8.49	8.56	8.71	8.70	9.0	9.7	10.36	
70	8.74	8.80	9.45	9.56	9.44	9.14	9.09	9.03	9.07	8.60	8.60	8.47	8.52	8.71	8.64	8.9	9.7	10.34	
80	8.70	8.77	9.37	9.42	9.33	9.03	9.01	9.01	9.00	8.60	8.50	8.36	8.46	8.69	8.48	8.5	8.6	10.34	
90	8.63	8.70	9.24	9.29	9.30	8.99	8.96	8.92	8.98	8.60	8.50	8.30	8.45	8.63	8.32	8.3	8.2	10.24	
100	8.59	8.61	9.11	9.22	9.21	8.94	8.93	8.88	8.95	8.60	8.40	8.27	8.40	8.54	8.29	8.2	8.1	8.70	
110	8.48	8.49	9.13	9.15	9.20	8.90	8.87	8.80	8.89	8.50	8.30	8.18	8.29	8.48	8.27	8.1	8.0	8.02	
120	8.44	8.33	9.07	8.91	8.98	8.77	8.74	8.73	8.85	8.40	8.20	8.08	8.20	8.41	8.22	8.1	8.0	8.05	
130	8.19	8.27	9.07	8.83	8.98	8.71	8.69	8.69	8.66	8.30	8.30	7.96	8.02	8.20	8.19	8.1	7.9	8.09	
140	8.39	8.35	9.05	8.89	8.89	8.62	8.65	8.60	8.33	8.20	8.20	7.40	7.60	7.87	7.97	7.8	7.4	7.79	
150	8.81	8.84	8.98	8.49	8.94	8.48	8.43	8.47	8.25	8.10	8.10	7.40	7.50	7.71	7.88	7.7	7.2	7.13	
Secchi depth data (m)																			
Secchi d	13.1	14.2	11.2	12.6	13.4	14.9	14.1	14.7	17.7	15.1	15.2	15.3	16.0	17.7	14.6	14.5	12.5	13.5	

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
For the period starting 12 September 1995

1995-1996

Temperature															
Date	12-9-95	25-9-95	30-10-95	24-11-95	06-12-95	12-1-96	31-1-96	13-2-96	29-2-96	20-3-96	28-3-96	18-4-96	19-5-96	14-6-96	9-7-96
Depth (m)															
1	10.7		13.7		17.7	21.1	21.7	22.7	20.5	18.2	16.8	17.7	14.8	12.2	11.2
10	10.7		11.9		16.2	20.7	20.7	21.0	20.1	18.2	16.7	17.4	14.8	12.2	11.2
20	10.7		11.4		15.3	18.1	18.5	20.6	20.0	18.2	16.6	17.3	14.8	12.1	11.2
30	10.7		11.2		12.4	14.8	13.5	15.1	15.5	18.1	13.7	17.0	14.8	12.1	11.2
40	10.7		10.9		11.4	12.4	12.3	12.2	11.9	12.3	12.4	12.6	14.7	12.0	11.2
50	10.7		10.8		11.0	11.5	11.6	11.6	11.3	11.4	11.6	11.4	11.6	11.2	11.2
60	10.7		10.7		10.7	11.0	11.2	11.0	11.0	11.1	11.4	11.1	11.1	10.9	11.2
70	10.7		10.5		10.6	10.9	10.8	10.8	10.8	10.9	11.6	11.1	10.9	10.8	11.2
80	10.5		10.5		10.6	10.9	10.7	10.7	10.7	10.8	11.2	10.9	10.8	10.8	11.2
90	10.4		10.5		10.6	10.7	10.7	10.7	10.7	10.7	11.3	10.8	10.7	10.8	10.8
100	10.4		10.5		10.5	10.6	10.6	10.7	10.7	10.7	10.9	10.8	10.7	10.7	10.8
110	10.4		10.5		10.5	10.5	10.6	10.7	10.7	10.6	10.8	10.8	10.7	10.7	10.8
120	10.4		10.5		10.5	10.5	10.5	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.8
130	10.4		10.5		10.5	10.5	10.5	10.7	10.6	10.6	10.7	10.7	10.7	10.7	10.8
140	10.4		10.5		10.5	10.5	10.5	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.8
150	10.4		10.5		10.5	10.5	10.5	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.8
160	10.4		*		10.5	10.5	10.5	*	*	*	*	*	*	*	*
Dissolved oxygen (g m ⁻³)															
Depth (m)															
1	9.6		10.3		9.5	8.5	8.5	8.1	8.2	8.4	8.7	8.6	9.0	9.2	9.3
10	9.6		10.5		9.9	8.7	8.5	8.1	8.2	8.3	8.7	8.6	9.0	9.2	9.1
20	9.6		10.6		10.0	9.1	9.1	8.2	8.1	8.3	8.8	8.6	8.9	9.2	9.1
30	9.6		10.7		10.5	9.7	10.1	9.2	9.0	8.1	9.0	8.4	8.9	9.1	9.0
40	9.7		10.7		10.5	10.1	10.2	9.5	9.1	8.7	8.8	8.7	8.9	9.0	8.9
50	9.6		10.3		10.3	9.9	9.9	9.0	9.0	8.6	8.6	8.4	8.7	8.4	8.8
60	9.5		10.3		10.0	9.6	8.9	8.7	8.8	8.5	8.5	8.4	8.5	8.1	8.7
70	9.4		10.2		10.0	9.6	8.9	8.6	8.6	8.5	8.5	8.4	8.3	7.9	8.7
80	9.4		10.2		9.9	9.6	8.8	8.5	8.5	8.4	8.3	8.4	8.3	7.8	8.6
90	9.0		10.1		9.8	9.5	8.8	8.4	8.4	8.3	8.2	8.3	8.2	7.7	8.1
100	9.0		10.0		9.7	9.4	8.8	8.3	8.3	8.3	8.2	8.3	8.1	7.7	7.5
110	9.0		9.9		9.6	9.4	8.8	8.1	8.3	8.2	8.1	7.9	7.8	7.6	7.3
120	8.8		9.9		9.4	9.3	8.3	8.1	8.3	8.1	8.3	7.9	7.8	7.5	7.1
130	8.8		9.8		9.3	9.2	8.3	7.9	8.2	7.8	8.3	7.8	7.8	7.5	7.1
140	8.7		9.6		9.1	8.9	7.9	7.6	8.2	7.5	8.0	7.6	7.7	7.4	7.0
150	8.7		9.2		8.9	8.7	7.9	7.6	8.0	7.4	7.8	7.4	7.5	7.4	7.0
Secchi depth															
Depth (m)	11.9	11.9	13.0	13.6	15.1	16.3	15.7	17.8	18.4	14.1	14.6	14.4	14.7	14.4	12.9

Lake Taupo Temperature, Dissolved Oxygen, and Secchi Depth Database.
 Started 27 October 1994

1994-1995

Temperature		27-10-94	21-11-94	01-12-94	13-12-94	27-12-94	13-1-95	25-1-95	09-2-95	26-2-95	08-3-95	24-3-95	12-4-95	19-4-95	04-5-95	21-5-95	08-6-95	14-7-95	30-7-95	
Date	Depth (m)																			
	1	11.7	12.8	15.7	17.5	17.8	18.6	19.9	20.6	20.9	20.9	18.5	19.4	18.4	17.0	15.0	13.4	11.3	10.8	
	10	11.5	12.6	14.2	16.4	17.3	18.4	19.9	20.0	19.9	19.8	18.4	18.6	18.2	16.9	15.0	13.5	11.3	10.8	
	20	11.5	12.6	13.2	15.5	16.9	18.0	17.8	19.6	19.9	19.7	18.4	18.4	18.2	16.8	15.0	13.4	11.3	10.8	
	30	11.3	12.6	13.0	13.2	13.3	15.9	15.6	15.0	15.0	15.1	18.4	15.7	16.5	14.6	15.0	13.4	11.3	10.8	
	40	10.9	12.6	12.1	12.5	12.2	13.1	13.3	12.9	13.0	12.8	12.7	13.0	12.5	12.2	12.7	13.3	11.3	10.8	
	50	10.9	12.4	11.4	11.7	11.6	12.0	11.8	11.9	11.9	11.8	12.0	11.8	11.6	11.3	11.7	12.8	11.2	10.8	
	60	10.8	11.8	10.7	11.1	*	11.4	11.5	11.4	11.1	11.2	11.3	11.3	11.1	11.2	11.3	11.7	11.2	10.8	
	70	10.7	10.9	10.6	10.8	*	*	11.2	11.0	10.9	10.9	11.0	10.9	10.9	10.9	11.0	11.2	11.2	10.8	
	80	10.6	10.7	10.5	10.7	*	*	11.0	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	11.0	10.9	10.8	
	90	10.5	10.6	10.5	10.6	*	*	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.8	10.8	10.8	
	100	10.5	10.5	10.5	10.5	*	*	10.7	10.6	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8	10.7	10.8	
	110	10.5	10.5	10.4	10.4	*	*	10.6	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.7	10.8	10.7	10.8	
	120	10.4	10.4	10.4	10.4	*	*	10.6	10.5	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.8	10.7	10.8	
	130	10.4	10.4	10.4	10.3	*	*	10.5	10.5	10.6	10.6	10.6	10.6	10.7	10.7	10.7	10.8	10.7	10.8	
	140	10.4	10.3	10.4	10.3	*	*	10.5	10.5	10.6	10.6	10.6	10.6	10.7	10.6	10.7	10.8	10.7	10.8	
	150	10.3	10.3	10.3	10.3	*	*	10.5	10.5	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.8	10.7	10.8	
	160	10.3	10.3	10.3	10.3	*	*	10.5	10.5	10.6	10.6	10.6	10.6	10.6	10.7	*	10.7	*	*	
		Dissolved oxygen (g m⁻³)																		
	Depth (m)																			
	1	10.5	9.6	9.8	9.2	9.0	8.0	8.9	8.4	8.5	8.5	8.7	*	9.2	9.3	9.0	9.0	9.6	9.6	
	10	10.6	9.4	10.3	9.4	10.6	10.4	10.2	8.5	8.4	8.0	*	*	9.3	9.1	8.8	9.1	9.6	9.5	
	20	10.8	9.4	10.3	9.4	11.0	10.5	11.5	8.5	8.4	8.0	*	*	9.2	9.0	8.8	9.1	9.4	9.4	
	30	10.7	9.4	10.2	9.7	12.5	11.2	11.4	9.8	9.6	9.7	*	*	9.3	9.2	8.7	9.0	9.4	9.3	
	40	10.5	9.3	10.1	9.6	12.5	11.9	12.0	9.7	9.4	9.7	*	*	9.7	9.3	8.6	9.0	9.3	9.3	
	50	10.4	9.3	9.9	9.5	12.6	11.9	12.0	9.4	9.4	9.5	*	*	9.5	9.2	8.5	8.8	9.2	9.3	
	60	10.4	9.4	9.9	9.5	*	10.3	11.9	9.4	9.3	9.4	*	*	9.5	9.2	8.5	8.3	9.2	9.2	
	70	10.4	*	9.8	9.5	*	*	11.7	9.3	9.3	9.3	*	*	9.5	9.2	8.4	8.3	9.2	9.2	
	80	10.4	*	9.8	9.5	*	*	11.6	9.3	8.9	9.1	*	*	9.0	9.2	8.3	8.3	8.5	9.1	
	90	10.4	*	9.7	9.5	*	*	11.4	9.2	8.8	9.0	*	*	8.7	9.0	8.1	7.9	8.3	9.0	
	100	10.2	*	9.6	9.4	*	*	11.3	9.0	8.6	8.8	*	*	8.6	8.6	8.0	7.6	7.8	8.9	
	110	10.3	*	9.7	9.3	*	*	11.1	9.0	8.3	8.7	*	*	8.3	8.2	8.0	7.5	7.4	8.8	
	120	10.2	*	9.4	9.2	*	*	10.9	8.7	8.2	8.4	*	*	8.2	7.9	7.8	7.1	7.2	8.6	
	130	9.8	*	9.2	9.0	*	*	10.6	8.5	7.9	8.3	*	*	8.0	7.7	7.6	7.0	7.2	8.4	
	140	9.8	*	8.9	9.0	*	*	10.5	8.3	7.6	8.1	*	*	8.0	7.5	7.4	7.0	7.1	8.4	
	150	9.9	*	8.6	8.7	*	*	10.4	8.3	7.3	7.9	*	*	7.5	7.3	7.0	7.0	7.1	8.3	
	160	*	*	8.5	8.5	*	*	10.0	8.2	7.5	7.7	*	*	6.6	7.2	*	6.8	*	*	
		Secchi depth																		
	Depth (m)																			
	1	11.7	11.4	12.5	12.9	15.6	17.8	15.7	17.0	16.5	17.1	14.7	15.7	16.1	15.1	14.3	15.0	12.5	15.7	

* = missing or invalid data

Appendix 3. Nutrient data

Includes accumulated 10-m tube data since 1994. Blank cells represent missing data.

For completeness, 10-m tube data collected from the Kuratau Basin (site B) and Western Bays (site C) from January 2002 to December 2004 are included as separate sheets following the mid-lake data from site A for those years.

For the spring/autumn profile data, two different analytical methods are used to measure particulate nitrogen:

1. a wet digestion method involving high temperature refluxing in digestion mixture [persulphate / sulphuric acid / Selenium catalyst] for 3 hours followed by colorimetric determination of the nitrogen as the ammoniacal form, and
2. a CHN combustion method which converts all nitrogen compounds to N₂ gas in a furnace at ~1000°C to be measured in a thermal conductivity detector.

From February 2002, DRP, NO₃-N, and NH₄-N were measured on a Lachat Flow Injection Analysis (FIA) system but using essentially the same chemistry as previously used on the Technical Auto-Analyzer system. The reported detection limits for these nutrients remains the same at 0.5 mg m⁻³ for DRP and NO₃-N, and 1 mg m⁻³ for NH₄-N. TN and TP values are the sum of all N and P components, excluding Urea-N which is part of the DON component.

From October 2009, chlorophyll *a* concentrations collected by van Dorn sampler from a depth of 50 m have been included in the data set as an indication of the biomass in the DCM. However, because the DCM moves up and down during the year, the fixed depth samples from 50 m may not always be in the centre of DCM.

Lake Taupo cumulative database of 10m tube sample data from October 1994 to September 2002.

Samples collected from central lake site.

Date Collected	Temp. °C	Secchi m	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	PN mg m ⁻³	TN mg m ⁻³	Chlorophyll a mg m ⁻³	PC mg m ⁻³	
27/10/1994	11.7	11.7	1.2	0.7	2.5	4.4	1.1	0.2	56	16.6	73.4	1.16		
24/11/1994	12.8	11.4	0.5	2.7	1.7	4.8	1.7	1.0	51	12.6	66.5	0.41		
1/12/1994	15.7	12.5	0.6	2.4	2.4	5.4	2.2	1.2	56	18.5	78.0	0.41		
13/12/1994	17.5	12.9	0.8	4.2	1.4	6.4	<0.2	0.9	51	9.3	68.8	0.24		
28/12/1994	17.8	15.6	0.5	1.7	1.9	4.1	1.1	1.3	51	16.7	69.6	0.41		
13/01/1995	18.6	17.8	0.1	2.2	1.6	3.8	<0.2	0.8	53	11.6	64.9	0.22		
24/01/1995	19.9	15.7	0.2	2.1	1.2	3.6	<0.2	0.8	57	13.3	71.0	0.25		
10/02/1995	20.6	17.0	0.3	2.2	1.2	3.6	<0.2	1.5	62	10.2	73.3	0.32		
27/02/1995	20.9	16.5	0.4	<0.5	2.5	2.8	1.9	1.5	71	16.5	90.8	0.35		
9/03/1995	20.9	17.1	0.4	1.7	1.7	3.7	0.2	0.7	55	11.6	67.5	0.28		
24/03/1995	18.5	14.7			1.9	1.9				13.0		0.37		
12/04/1995	19.4	15.7	0.2	1.4	1.7	3.2	0.3	0.7	51	17.3	69.6	0.57		
19/04/1995	18.4	16.1	2.8	1.5	1.4	5.7	4.0	0.9	71	14.1	90.0	0.92		
4/05/1995	17.0	15.1	1.4	1.1	3.0	5.5	1.4	2.3	76	24.7	104.4	0.96		
21/05/1995	15.0	14.3	1.2	0.9	2.2	4.3	0.4	2.1	50	29.2	81.8	0.98		
8/06/1995	13.4	15.0	0.7	0.4	1.8	2.9	0.2	0.6	54	15.4	70.2	1.05		
14/07/1995	11.3	12.5	0.3	2.5	1.7	4.5	0.3	2.1	53	15.0	70.8	1.32		
30/07/1995	10.8	15.7	0.7	0.7	1.9	3.3	<0.2	4.6	35	17.3	57.3			
13/08/1995			0.5	0.4	1.9	2.8	<0.2	4.6	39	14.2	57.4	0.99		
12/09/1995	10.7	11.9	0.5	2.2	4.9	10.9	40.9		177	15.1	237.6			
25/09/1995	11.5	11.9	<0.2	0.7	2.1	2.8	<0.2	0.3	84	17.6	101.6	0.64		
30/10/1995	13.0	13.0	<0.2	2.4	1.9	4.3	<0.2	<0.1	56	14.7	70.4	0.93		
24/11/1995	13.7	13.6	0.8	1.8	1.6	4.3	1.9	<0.1	59	12.6	73.3	0.29		
6/12/1995	17.7	15.1	2.2	0.4	1.2	3.9	1.7	<0.1	58	11.3	70.8	0.20		
12/02/1996	21.1	16.3	2.6	0.6	1.2	4.4	3.6	<0.1	64	10.1	77.8	0.24		
31/03/1996	21.7	15.7	1.3	1.6	1.3	4.2	4.2	<0.1	59	11.9	75.5	0.29		
13/02/1996	22.7	17.8	2.1	3.3	1.2	6.6	7.4	<0.1	81	10.4	98.9	0.15		
29/02/1996	20.5	18.4	1.9	2.2	1.2	5.3	4.2	<0.1	61	10.8	76.3	0.31		
20/03/1996	18.2	14.1	0.8	2.2	1.4	4.5	5.4	<0.1	76	14.2	95.3	0.56		
28/03/1996	16.8	14.6	1.3	1.8	1.4	4.5	4.7	<0.1	91	12.6	108.3	0.81		
18/04/1996	17.7	14.4	0.8	2.2				<0.1	61			0.41		
19/05/1996	14.8	14.7	0.8	3.0	2.0	6.8	<0.1		59			0.70		
14/06/1996	12.2	14.4	1.6	3.2				<0.1	71					
19/06/1996	12.2	14.4	1.0	1.2				<0.1	49			0.70		
9/07/1996	11.2	12.9	3.0		1.9			<0.1	47	11.3		0.80		
3/08/1996	10.5	13.1	0.7	2.0	3.0	5.7	2.5	0.2	52	17.0	71.7	1.03		
18/08/1996	10.7	14.2	1.3	1.2	2.4	4.9	2.1	0.2	42	14.0	58.3	0.75		
30/09/1996	12.5	11.2	0.9	1.6	1.8	4.3	3.3	0.2	58	11.0	72.5	0.28		
17/10/1996	13.3	12.6	0.6	2.1	2.6	5.3	2.9	2.5	64	19.0	88.4	0.59		
24/10/1996	12.6	13.4	0.7	2.3	2.2	5.2	2.4	0.4	64	15.0	81.8	0.47		
6/11/1996	13.5	14.9	0.8	2.6	2.2	5.6	3.2	1.0	64	17.0	85.2	0.45		
28/11/1996	13.6	14.1	0.4	1.9	2.4	4.7	2.6	0.4	49	20.0	72.0	0.90		
11/12/1996	14.8	14.7	1.3	1.7	1.3	4.3	6.2	0.8	68	17.0	122.0	0.31		
23/12/1996	16.3	17.7	1.3	1.1				5.2	0.3	46		0.23		
8/01/1997	17.9	15.1	0.7	1.7	1.9	4.3	2.0	0.6	50	15.0	67.6	0.33		
29/01/1997	17.8	15.2	0.7	1.8	1.6	4.1	1.9	0.4	54	17.0	73.3	0.21		
26/02/1997	17.7	15.3	0.6	1.7	2.1	4.4	2.4	1.8	57	19.0	80.2	0.46		
2/04/1997	21.6	16.0	0.9	1.3	1.6	3.8	1.7	0.3	51	16.0	69.0	0.40		
15/04/1997	16.7	17.7	0.7	2.5	1.5	4.7	3.2	0.8	57	12.0	73.0	0.40		
1/05/1997	15.6	16.0	0.6					1.7	0.1			0.58		
21/05/1997	14.2	14.6	1.0	8.8	1.7	11.5	4.5	0.3	92	15.0	111.8	1.05		
29/05/1997	14.3	14.5	1.1	1.1	1.1	3.3	3.3	1.0	51			0.89		
7/07/1997	11.0	14.5	0.6	0.9				2.1				0.47		
29/07/1997	10.9	13.5	0.5	1.6				1.5	2.1	39		1.13		
2/08/1997	10.6	14.1	1.4	1.1	1.7	4.2	7.0	1.8	47.0	13.1	68.9	1.08		
16/08/1997	10.6	12.0	0.5	1.1				1.3	0.7	35		2.16		
11/10/1997	11.6	13.7	2.4	2.8	1.7	6.9	4.8	0.9	63.3	16.2	85.2	1.14		
29/10/1997	12.1	12.5	0.7	1.9	1.9	4.5	1.3	7.3	32	19.0	59.6	1.49		
2/12/1997	14.5	14.5	0.2	2.3				3.2	1.7	55		0.83		
17/12/1997	14.7	14.7	1.4	1.2	1.2	3.7	3.2	1.7	55			0.48		
4/03/1998	20.0	11.5	1.5	1.7	2.6	5.8	6.4	4.0	76.0	19.8	106.2	0.58		
24/03/1998	19.3	13.5	1.0	1.4	1.8	3.2	2.1	1.1	48.0	13.2	64.4	1.25		
7/04/1998	17.7	13.5	0.9	1.4	1.8	4.1	1.9	2.5	52.0	13.7	70.1	1.04		
29/05/1998	14.2	15.5	1.0	1.9	1.9	4.8	5.0	3.5	51.0	16.4	75.9	1.36		
28/07/1998	11.4	10.0	1.2	1.0	3.1	5.3	2.1	1.4	45.0	26.0	74.5	1.19		
29/08/1998	12.9	10.5	1.5	1.0				2.2	0.5	41.0	20.3	64.0	0.70	
8/10/1998	12.9	10.4	1.5	<1				2.4	46.0	37.6	68.4	1.00		
1/11/1998	13.6	13.5	0.6	1.3	2.6	4.5	2.4	<0.5	36.0	15.2	53.6	0.90		
26/11/1998	18.4	15.0	1.3	2.6	2.1	6.0	9.6	1.6	42.0	16.4	69.6	0.61		
22/12/1998	18.5	14.5	1.1	0.4	2.5	4.0	2.7	1.1	36.0	17.7	61.5	0.25		
12/02/1999	20.1	12.5	0.8	2.8	1.7	5.3	4.0	1.6	39.0	11.4	56.0	0.60		
3/05/1999	20.9	14.3	0.6	2.9	2.0	5.5	1.6	1.1	40.0	16.8	59.5	0.82		
18/06/1999	18.3	13.0	0.6	<1	1.8	2.4	3.0	<0.5	41.0	19.0	61.6	1.26		
30/04/1999	16.4	12.2	1.1	1.5	1.7	4.3	2.1	<0.5	38.0	19.6	69.2	0.94		
19/05/1999	14.4	15.0	0.8	<1	1.5	5.1	1	<1	46.0	16.2	63.7	1.2		
8/06/1999	14.1	14.5	1.0	<1	3.9	4.9	1	<1	48.0	25.4	74.9	1.1		
18/06/1999	13.0	15.0	0.8	<1	2.0	5.0	2	5	42.0	16.5	65.5	1.7		
20/07/1999	12.0	16.0	0.5	<1	3.1	3.6	1	<1	45.0	28.3	74.3	1.0		
9/08/1999	11.5	14.5	1.3	1.7	2.3	5.3	4	8	45.0	18.4	75.4	1.7		
6/09/1999	11.1	10.0	<0.5	2.5	2.1	5.1	2	1	16.2	5.1	79.2	0.5		
29/09/1999	11.5	10.0	0.7	1	4	5.7	3	1	54	32.6	90.6	1.8		
18/10/1999	12.7	14.9	0.5	3	2.5	6	<1	<1	41	19.4	60.4	0.4		
20/12/1999	16.4	18.0	0.7	2.3	5	8	4	2	39	38	83	1.6		
18/01/2000	17.6	19.1	0.9	2	2	4	5	2	52	18.5	70.5	0.6		
12/04/2000	17.3	15.0	0.8	3	2	5	1	1	61	22	83	0.8		
2	14.0	15.2	1	1	3	2	2	48	17	68	1.3			
25/05/2000	14.3	14.0	1	4	1	6	2	<1	55	17	65	0.6		
20/06/2000	12.3	14.0	<1	4	0	4.0	2	2	52	16	72.0	1.7	194	
11/07/2000	11.9	11.0	<1	4	3	7.0	3	2	46	22.5	73.5	1.65	198	
5/08/2000	11.3	12.0	2	2	3	7.0	1	3.5	43.5	19.5	66.0	2.5	154	
22/08/2000	11.2	15.0	2	2	2	6.0	2	4	49	16.5	71.5	1.65	159	
12/09/2000	11.5	12.0	2	5	3.5	10.5	2	<1	63	23.5	88.5	1	148	
29/09/2000	11.5	13.0	2	4	2	8.0	1	1	54	21	77.0	1.15	237	
26/10/2000	13.1	11.0	0.8	4.2	3	8.0	10	0.4	41.6	25	68.0	1.3	237	
14/11/2000	13.1	12.0	<1	4	2	6.0	1	<1	41	14.5	56.5	0.9	171	
7/12/2000	15.1	17.0	2	2	15.5	5.6	7	4	63	14.75	88.8	0.6	186	
8/01/2001	18.0	14.5	<1	1	2	1.5	3.5	1	<1	40	11	52.0	0.5	137
16/01/2001	19.0	18.0	0.5	2.5	1.5	4.5	1	0.5	53.5	13	68.0	0.5	119	
21/02/2001	20.5	17.0	0.9	1.1	1.5	3.5	<1	0.5	46.5	12.5	59.5	0.6	191	
2/03/2001	20.7	14.5	<1	2	2	4.0	2	<1	53	18	73.0	0.9		

Lake Taupo cumulative database of 10 m tube sample data from June 2000 on
 Samples collected from Mid Lake (Site A)

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	PC (mg m ⁻³)
20/06/2000	12.3	14.0	<1	4	0	4.0	2	2	52	16	72.0	1.7	193.5
11/07/2000	11.9	11.0	<1	4	3	7.0	3	2	46	22.5	73.5	1.65	198
5/08/2000	11.3	12.0	2	2	3	7.0	1	3.5	43.5	19.5	36.0	2.5	153.5
22/08/2000	11.2	15.0	2	2	2	6.0	2	4	49	16.5	71.5	1.65	158.5
12/09/2000	11.5	12.0	2	5	3.5	10.5	2	<1	63	23.5	88.5	1	148
29/09/2000	11.5	13.0	2	4	2	8.0	1	1	54	21	77.0	1.15	236.5
26/10/2000	13.1	11.0	0.8	4.2	3	8.0	1.0	0.4	41.6	25	68.0	1.3	237
14/11/2000	13.1	12.0	<1	4	2	6.0	1	<1	41	14.5	56.5	0.9	171
7/12/2000	15.1	17.0	2	2	1.55	5.6	7	4	63	14.75	88.8	0.6	165.5
4/01/2001	18.0	14.5	<1	2	1.5	3.5	1	<1	40	11	52.0	0.5	127
16/01/2001	19.0	18.0	0.5	2.5	1.5	4.5	1	0.5	53.5	13	68.0	0.5	118.5
21/02/2001	20.5	17.0	0.9	1.1	1.5	3.5	<1	0.5	46.5	12.5	59.5	0.6	190.5
2/03/2001	20.7	14.5	<1	2	2	4.0	2	<1	53	18	73.0	0.9	193
20/03/2001	19.0	17.0	<1	3	1.4	4.4	<1	<1	46	14.25	60.3	0.9	154
9/04/2001	17.0	13.5	0.8	1.2	2.15	4.2	<1	3	62	19.45	84.5	1.05	199
8/05/2001	15.8	17.0	0.8	3.2	1.7	5.7	2	<1	61	23	86.0	1.1	248
30/05/2001	13.6	14.5	1.5	1.5	2	5.0	1	<1	57	12	70.0	1.4	203
2/07/2001	12.1	12.0	<1	3	2.3	5.3	1	1	50	18.3	70.3	1.5	155.5
25/07/2001	11.3	14.5	2	1	2.65	5.7	<1	6	45	19.75	70.8	2.2	188
13/08/2001	11.2	13.5	1	1	2.85	4.9	1	<1	41	21.9	63.9	2.1	225
3/09/2001	10.2	17.5	1	1	2.6	4.6	<1	<1	37	19	56.0	1.7	203
25/09/2001	11.6	11.0	1.1	0.9	2.8	4.8	1	<1	56	24.5	81.5	0.9	283
25/10/2001	13.0	14.5	0.8	1.2	2.4	4.4	<1	<1	46	19.4	65.4	1.1	246
12/11/2001	14.3	15.5	1.0	2	2.55	5.6	0.9	0.1	48	17.6	66.6	0.5	227.5
10/12/2001	15.5	16.0	1.0	2	2.55	5.6	0.9	0.1	48	17.6	66.6	0.5	227.5
20/12/2001	17.0	13.0	0.6	2.7	2.05	5.4	1.3	0.1	48	14.85	64.3	0.5	203.5
8/01/2002	18.3	13.0	0.3	2	2.2	4.5	0	<1	50	17.15	67.2	0.8	246.5
22/01/2002	19.3	15.0	0	7	2.25	9.3	0	<1	40	20.35	60.4	0.9	188
6/03/2002	18.7	14.5	1.2	0.8	2.05	4.1	0.0	0.4	74	17.7	92.1	1.7	226.5
4/04/2002	17.4	19.0	0.6	3	1.45	5.1	1.1	0.1	46	10.7	57.9	0.8	138
17/04/2002	17.4	22.0	0.0	3	1.65	4.7	0.5	0.5	47	13.1	61.1	0.9	157
5/05/2002	15.5	16.4	0.7	1			3.1	0.7	48			1	
19/06/2002	12.6	17.0	1.2	1.8	1.9	4.9	0.5	1.4	43.6	15.8	61.3	1.1	165.0
1/07/2002	12.1	16.0	1.2	1.8	1.8	4.8	0.9	1.7	37.3	14.3	54.2	1.5	214
17/07/2002	11.4	15.5	2.3	2.7	1.7	6.7	2.3	7.8	41.9	14.6	66.6	1.5	153.5
31/07/2002	11.2	12.0	2.3	2.7	2.5	7.5	0.9	5.9	177.2	16.7	200.7	2.2	193

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	PC (mg m ⁻³)
29/08/2002	11.1	9.5	1.6	1.4	3.1	6.1	0.0	0	90	23	113.0	2.6	196
18/09/2002	11.4	12	1.3	1.7	2	5.0	0	0.3	47	13	60.3	0.9	196.5
9/10/2002	11.6	15.5	1.3	2.7	2.1	6.1	2.9	0	29	12	43.9	0.6	159.5
13/11/2002	12.6	18	0.9	1.1	2.4	4.4	1.7	1.3	41	14.0	58.0	0.7	158.5
28/11/2002	14.1	12.7	0.7	2.3	2.7	5.7	0.1	0.0	43.0	22.0	65.1	0.7	201.5
18/12/2002	15.0	13.5	0.6	1.8	2.5	4.9	0.2	0.1	47.0	14.0	61.3	0.4	123.0
30/01/2003	17.8	18	0.4	3.6	1.9	5.9	0.4	0.1	56.5	12.0	69.0	0.7	166.0
13/02/2003	19.3	19	0.5	2.5	1.6	4.6	0.0	0.4	43.6	8.0	52.0	0.5	146.0
17/03/2003	18.5	15	0.8	2.2	1.7	4.7	<1	0.4	45.6	13.0	59.0	1.0	212
3/04/2003	19.3	13.5	1.1	2.9	1.8	5.8	<1	0.5	78.5	17.7	96.7	1.1	234.5
28/04/2003	16.7	14	0.3	3.7	1.9	5.9	<1	0.3	73.7	15.6	89.6	1.5	208.5
15/05/2003	15.6	16.5	0.1	3.9	2.2	6.2	0.3	0.3	50.4	19.5	70.5	1.4	228.5
12/06/2003	13.5	11	1.3	2.7	2.2	6.2	0.3	0.4	40.3	13.7	54.7	1.3	111.0
14/07/2003	11.8	14.5	2.2	1.8	2.6	6.6	1.1	1.1	34.8	18.0	55.0	1.8	102.0
31/07/2003	11.4	14	2.4	1.6	2.4	6.4	1.3	3.7	46.0	16.7	67.7	2.0	89.5
14/08/2003	11.2	13.5	1.8	2.2	3.1	7.1	0.7	0.2	46.1	21.1	68.1	2.9	91.5
26/08/2003	11.2	13	3.0	1.0	4.0	8.0	1.0	0.2	42.8	21.7	65.7	2.9	135.5
8/09/2003	11.1	12.5	2.6	0.4	3.3	6.3	0.4	0.2	45.2	17.4	63.2	1.5	199.5
7/10/2003	11.4	13.0	2.6	1.6	2.8	7.0	0.3	0.2	54.5	17.8	72.8	1.2	157.5
21/10/2003	13.0	17.0	2.0	1.0	2.3	5.3	0.1	1.3	39.6	14.0	55.0	0.6	146.0
19/11/2003	13.9	16.0	1.7	1.3	2.8	5.8	0.3	0.1	45.6	20.0	66.0	0.8	148.0
4/12/2003	16.0	18.5	1.6	2.4	1.8	5.8	0.2	0.1	53.7	13.4	67.4	0.3	106.5
18/12/2003	17.7	17.5	1.1	3.9	3.1	8.1	0.0	0.0	49.0	20.6	69.6	0.4	151.5
13/01/2004	20.3	19.0	0.5	3.5	1.6	5.6	0.0	0.3	52.0	12.5	64.8	0.4	127.0
26/02/2004	17.2	17.0	1.4	1.7	1.6	4.7	0.0	0.1	40.9	15.5	56.5	0.7	139.0
8/03/2004	17.5	15.0	0.6	2.4	2.0	5.0	0.4	0.1	42.5	12.4	55.4	0.6	177.5
31/03/2004	16.4	16.0	0.8	5.2	1.9	7.9	0.2	0.2	78.6	11.5	90.5	1.2	159.5
14/04/2004	15.3	15.0	1.0	3.0	2.4	6.4	0.1	0.3	46.6	16.0	63.0	1.3	187.5
10/05/2004	14.7	18.0	0.6	4.4	1.8	6.8	0.1	0.2	64.7	16.8	81.8	1.2	215.0
10/06/2004	13.6	13.5	0.9	2.1	2.1	5.1	0.0	0.6	63.4	17.8	81.8	1.0	371.5
13/07/2004	11.6	12.0	1.8	3.2	2.4	7.4	0.3	4.5	37.2	19.4	61.4	1.6	193.3
26/07/2004	11.3	11.0	1.6	2.4	3.0	7.0	0.5	2.4	38.1	23.4	64.4	2.7	196.0
24/08/2004	10.9	12.5	0.8	3.2	2.7	6.7	0.0	0.5	58.5	18.6	77.6	2.3	181.5
7/09/2004	10.7	12.0	0.6	2.4	2.7	5.7	0.0	0.1	40.9	15.5	56.5	1.4	162.5
21/10/2004	11.6	15.0	1.0	3.0	2.0	6.0	0.0	0.0	33.0	13.0	46.0	0.7	185.0
2/11/2004	12.9	16.0	1.0	3.0	1.9	5.9	2.2	0.8	62.0	14.7	79.7	0.6	147.0
22/11/2004	15.1	16.0	0.7	2.3	2.1	5.1	0.1	0.2	49.7	16.4	66.4	0.4	195.0
15/12/2004	14.1	19.5	0.7	3.3	2.2	6.2	0.0	0.2	45.8	14.7	60.7	0.2	127.5

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	PC (mg m ⁻³)
11/01/2005	16.0	20	0.4	2.6	1.4	4.4	0	0.1	42.9	12.5	55.5	0.2	137
25/01/2005	19.3	19.5	0.5	2.5	1.5	4.5	0.0	0.1	54.9	14.5	69.5	0.3	131.0
9/02/2005	20.7	18	2.2	0.8	1.4	4.4	0.5	0.0	38.5	12.7	51.7	0.2	136.0
22/02/2005	20.0	21.5	0.8	5.2	1.7	7.7	1.5	0.5	58.0	15.8	75.8	0.2	159.0
10/03/2005	19.3	18.5	0.2	2.8	1.4	4.4	1.8	0.2	34.0	14.5	50.5	0.4	158.0
21/03/2005	19.3	20	0.8	3.2	1.2	5.2	0.5	0.1	43.4	10.0	54.0	0.5	140.0
14/04/2005	17.9	17.2	0.9	2.1	1.6	4.6	0.8	0.2	54.0	14.0	69.0	0.7	177.0
18/05/2005	14.3	16	0.8	2.2	1.9	4.9	0.0	0.5	46.5	13.9	60.9	1.3	177.5
9/06/2005	13.0	14.1	0.6	3.4	2.2	6.2	0.1	1.6	41.3	17.4	60.4	1.3	140.5
20/06/2005	12.7	13.8	0.6	3.4	2.0	6.0	0.1	1.0	39.9	18.5	59.5	1.2	158.5
20/07/2005	11.5	13	3.9	6.1	2.5	12.5	0.8	0.8	97.4	19.1	118.1	2.1	169
3/08/2005	11.1	14	2.6	1.4	2.3	6.3	2.0	1.4	61.6	20.3	85.3	1.2	116
17/08/2005	11.2	13	3.1	1	3.2	7.3	0.3	2.1	49.6	26.4	78.4	1.7	172.5
31/08/2005	11.7	13	2	1	2.4	5.4	<1	1	69	22.2	92.2	1.3	330
14/09/2005	12.4	13	1	1	2.5	4.5	<1	<1	60	19.9	79.9	0.8	243
29/09/2005	11.9	14	1	1	2.4	4.4	<1	<1	67	18	85	0.8	253.5
12/10/2005	11.9	14	0.7	2.3	2.7	5.7	0.0	0.7	56.3	23.2	80.2	0.8	301
25/10/2005	13.4	15	0.8	4.2	1.8	6.8	0.6	0.7	54.7	16.8	72.8	0.6	193
10/11/2005	16.3	17.5	1.2	3.8	1.5	6.5	0.2	0.1	52.7	15.6	68.6	0.5	160
1/12/2005	15.1	19.3	0.6	2.4	1.4	4.4	0	0.3	39.7	16.1	56.1	0.4	141
10/01/2006	17.4	19	1	2	1.4	4.4	0.1	1	49.9	17.8	68.8	0.5	167
2/02/2006	20.2	15.5	1.1	8.9	1.5	11.5	0.0	0.0	54	18	72	1.1	193.5
1/03/2006	19.5	15.3	0.3	7.7	1.6	9.6	0.0	1.3	38.7	18.5	58.5	0.9	160.5
12/04/2006	16.7	15.8	0.6	2.4	1.6	4.6	0.0	0.0	43	20.4	63.4	1.0	230
27/04/2006	16.3	17	1.0	2	1.6	4.6	0.1	0.0	52.9	17.6	70.6	1.1	196.5
9/05/2006	15.7	17.5	0.7	2.3	1.6	4.6	0.7	0.1	46.2	17.2	64.2	0.9	233
30/05/2006	14.2	18.2	0.8	2.2	1.6	4.6	1.8	0.9	61.3	16.6	80.6	1.3	233
27/06/2006	11.9	15.2	0.8	3.2	1.9	5.9	0.8	1.3	61.9	23.2	87.2	2	243
11/07/2006	11.5	13.5	1.4	5.6	2.3	9.3	0.2	1.7	93.1	21	116	1.7	209
25/07/2006	11.1	12	1.0	0	2.1	3.1	0.9	7.4	48.7	17.6	74.6	2.8	192
4/09/2006	11.1	11	1.8	1.2	2.5	5.5	0.0	0.6	31.4	24.5	56.5	2.8	218
26/09/2006	11.9	17.5	1.0	0.8	2.3	4.1	0.0	0.1	39.9	18.6	58.6	0.8	347
18/10/2006	11.7	13	0.8	1.2	2.5	4.5	0.0	0.3	35.7	18.2	54.2	0.9	227.5
1/11/2006	12.4	14.5	0.3	2.7	2.4	5.4	0.0	0.0	41	19.4	60.4	0.8	203
5/12/2006	14.7	16	0.0	3	2	5	0.0	0.0	52	20.2	72.2	0.7	186
19/12/2006	15.6	15.5	0.2	1.8	1.8	3.8	1.0	0.1	48.9	15.4	65.4	0.7	150
9/01/2007	16.5	13.5	0.5	1.5	1.6	3.6	0.9	0.4	60.7	15	77	0.3	207
25/01/2007	18.5	14.5	0.6	0	1.6	2.2	1.5	0.5	59	18.6	79.6	0.3	212
8/02/2007	19.3	16	0.6	0	1.6	2.2	0.4	0.5	58.1	16.8	75.8	0.4	156
21/02/2007	19.6	18.2	0.4	0	1.8	2.2	0.8	0.5	68.3	24.4	94	0.3	182
21/03/2007	18.6	16.5	1.1	0	2.1	3.2	1.8	1.3	47.2	22.1	72.4	0.8	175
3/04/2007	18.0	19	0.9	6.1	1.8	8.8	0.6	0.3	66.9	23.8	91.6	0.7	
19/04/2007	16.5	16	0.9	3.1	2.7	6.7	2.4	1.0	69.6	29.2	102.2	0.6	193

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	PC (mg m ⁻³)
8/05/2007	19.3	16	1.1	3.9	1.2	6.2	0.3	0.4	63.3	17.8	81.8	1.2	169
22/05/2007	15.2	18.5	0.7	2.3	1.3	4.3	2.0	0.5	53.5	15.4	71.4	0.8	201
14/06/2007	13.6	18	0.6	2.4	1.8	4.8	4.0	0.8	65.2	21.8	91.8	1	159
27/06/2007	12.4	18.5	0.8	0.2	3.6	4.6	2.1	1.4	45.5	25.8	74.8	1.2	162
18/07/2007	11.4	14.5	1.1	1.9	2.9	5.9	1.3	1.0	44.7	37.8	84.8	1.7	
8/08/2007	11.1	14	1.1	1.9	2.8	5.8	2.0	2.2	46.8	28.2	79.2	1.3	229
23/08/2007	11.0	13	0.8	2.2	2.5	5.5	0.4	0.4	39.2	30.3	70.3	2.2	202
11/09/2007	11.0	11	1	4	3.3	8.3	0	1	67	34.7	102.7	1.4	324
9/10/2007	12.1	15	1	1	2.6	4.6	1.4	1.5	59.1	23.8	85.8	0.8	184
30/10/2007	12.8	16	1.1	0.9	2.4	4.4	1.2	0.6	64.2	30.5	96.5	0.7	253
15/11/2007	13.5	14	1.8	2.2	2.1	6.1	1.8	0.3	53.9	24.8	80.8	0.5	262
4/12/2007	16.6	15	0.9	2.1	2	5	0.9	0.6	40.5	20.6	62.6	0.3	196
20/12/2007	17.4	17.5	1.1	2.9	1.1	5.1	0.2	0.4	44.4	17	62	0.6	112
17/01/2008	21.1	22.5	1	4	1.5	6.5	0.9	0.4	62.7	24.5	88.5	0.3	230
31/01/2008	19.8	21.5	0.5	1.5	1.3	3.3	1.5	0.3	75.2	17.6	94.6	0.3	190
14/02/2008	19.9	25	0.3	1.7	1.6	3.6	1.4	0.7	75.9	19.8	97.8	0.4	138
27/02/2008	19.3	22	0.1	1.9	1.6	3.6	0.7	0.2	70.1	20	91	0.4	143
13/03/2008	18.8	22	1	1	1.2	3.2	1.2	0.6	56.2	19.6	77.6	0.5	147
26/03/2008	19.3	19	1	0	0.9	1.9	0.4	0.5	63.1	17.1	81.1	0.5	160
17/04/2008	17.8	20.5	1.2	0.8	1.3	3.3	1.1	1	51.9	14.2	68.2	0.8	189
7/05/2008	15.7	16	0.7	2.3	1.5	4.5	1.3	0.3	60.4	21.1	83.1	0.6	189
22/05/2008	14.7	17	0.2	1.8	1.5	3.5	0.4	0.4	71.2	23.6	95.6	0.7	191
5/06/2008	13.6	15	1.3	0.7	1.6	3.6	1	2.1	29.9	17.5	50.5	1	177
19/06/2008	12.9	16.5	0.5	1.5	1.6	3.6	2	0.7	34.3	29.2	66.2	1.2	259
1/07/2008	12.0	14	0.9	2.1	2.15	5.15	0.6	0.7	50.7	34.6	86.6	1.7	242
15/07/2008	11.4	13	1.3	1.7	2.7	5.7	0.0	0.9	38.1	26.5	65.5	1.9	193
7/08/2008	11.1	12.5	1.8	1.2	3.4	6.4	0.0	0.7	25.3	28.8	54.8	3.0	119
20/08/2008	10.7	12.5	1.3	1.7	2.1	5.1	0.7	0.6	24.7	25	51	1.5	179
4/09/2008	11.0	13	0.6	3.4	2	6	1.0	0.0	50	21.5	72.5	1.1	217
16/09/2008	11.3	14.5	1.4	2.6	2.1	6.1	2.2	0.5	28.3	24.3	55.3	0.7	202
14/10/2008	12.6	12.2	0.5	2.5	2.6	5.6	0.5	0.0	45.5	27.1	73.1	0.6	203
4/11/2008	13.4	12	1.0	4	2.5	7.5	3.2	0.5	35.3	28.5	67.5	0.9	140
26/11/2008	15.7	10	1.1	1.9	2.4	5.4	0.4	0.0	47.6	27.6	75.6	1	217
22/12/2008	18.8	12	0.3	1.7	2.3	4.3	1.8	0.0	53.2	35.2	90.2	0.6	245
13/01/2009	19.7	13	1.4	1.6	2.1	5.1	0.3	1.4	61.3	29.4	92.4	0.5	266
28/01/2009	20.9	18	0.4	4.6	1.8	6.8	0.0	3.8	52.2	27.6	83.6	0.3	204
11/02/2009	21.4	22	0.1	4.9	1.6	6.6	4.1	0.5	49.4	25.6	79.6	0.4	185.5
25/02/2009	20.5	20	0.5	2.5	1.6	4.6	2.7	0.4	37.9	21.3	62.3	0.5	186.5
26/03/2009	18.0	18.5	1.1	1.9	2.7	5.7	0.0	1.3	56.7	25.1	83.1	0.6	285
15/04/2009	16.6	18	1.5	2.5	3.4	7.4	1.1	0.7	60.8	22.7	85.3	0.8	240
7/05/2009	15.0	16	1.4	4.6	2.3	8.3	1.3	1.1	56.6	21.7	80.7	1.3	223
27/05/2009	13.0	15	1.2	4.8	1.5	7.5	0.0	0.6	58.4	16.7	75.7	1.2	190
18/06/2009	11.6	16	1.9	0.1	1.7	3.7	0.7	1.7	45.6	23.5	71.5	1.5	201
6/07/2009	10.9	15	2.8	1.2	2.4	6.4	0.1	8.1	46.8	23.4	78.4	1.6	190
13/08/2009	10.43	12	1.9	2.1	2.7	6.7	0.6	0.5	46.9	31.4	79.4	1.9	230
7/09/2009	10.56	15	4.2	0	2.9	7.1	0.1	0.6	54.3	32.3	87.3	1.5	301

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	Chl- <i>a</i> at 50m (mg m ⁻³)	PC (mg m ⁻³)
19/10/2009	11.72	13	4.2	0	2.7	6.9	0.5	1.1	42.4	23.4	67.4	0.6	0.8	282.5
12/11/2009	13.00	12.5	1.2	2.8	2.4	6.4	1.0	0.3	33.7	19.5	54.5	0.7	0.8	249
17/12/2009	16.99	15	0.9	2.1	1.4	4.4	0.0	0.7	58.3	21	80.0	0.7	0.8	239.5
13/01/2010	17.89	14.5	0.6	1.4	1.8	3.8	0.0	1.0	47	21.6	69.6	0.6	1.2	306.5
2/02/2010	19.23	16	0.7	2.3	1.7	4.7	0.0	0.1	55.9	28.3	84.3	0.8	1.2	274.5
18/02/2010	20.45	17	1.1	1.9	3.9	6.9	1.3	2.3	102.4	85.4	191.4	0.9	1.1	530
10/03/2010	20.10	19	0.8	2.2	1.3	4.3	0.0	4	58	19.1	81.1	0.4	0.9	158.5
8/04/2010	17.40	21.5	0.8	2.2	1.7	4.7	0.0	1.2	58.8	26	86.0	0.7	1.3	231
28/04/2010	16.38	19	1.2	1.8	2.5	5.5	0.3	1.1	61	39.6	101.6	0.9	1.3	262
20/05/2010	15.09	19.5	1.9	1.1	2.1	5.1	7.6	2.5	66.9	25.1	102.1	0.9	0.8	248
3/06/2010	14.11	14.5	0.9	2.1	1.8	4.8	1.1	0.1	44.8	13.7	59.7	1.1	0.7	141.5
23/06/2010	12.23	14	1.1	1.9	2.4	5.4	1.1	0.8	46.1	22.1	70.1	1.1	0.7	196.5
13/07/2010	11.31	14.5	1.5	7.5	2.3	11.3	0.9	1.0	52.1	27.9	81.9	1.7	0.8	217
10/08/2010	11.01	12.8	1.7	1.3	2.6	5.6	0.9	1.0	30.1	29.7	61.7	1.9	2.0	225
24/08/2010	10.92	11	1.6	1.4	1.5	4.5	0.6	0.5	30.9	34.5	66.5	2.4	2.5	244.5
13/09/2010	11.37	10.5	1.1	0.9	3.3	5.3	1.3	0.3	28.4	33.7	63.7	1.6	1.6	342.5
5/10/2010	11.90	10.8	3.1	0	2.5	5.6	2.0	2.3	28.7	22.8	55.8	0.9	1.6	269
26/10/2010	13.00	12.5	1.7	1.3	2.4	5.4	0.9	0.9	34.2	18.2	54.2	0.8	1.7	237
10/11/2010	13.98	11.5	0.8	2.2	2.3	5.3	0.5	0.3	59.2	21.1	81.1	0.7	1.8	250.5
25/11/2010	16.14	14.2	1.4	2.6	1.7	5.7	2.9	1.4	41.7	18	64.0	0.4	2.0	184.5
8/12/2010		15.5	1.2	2.8	1.8	5.8	1.8	0.6	43.6	18.3	64.3	0.4	0.9	181
21/12/2010	18.41	17	0.8	3.2	1.8	5.8	5.7	0.4	66.9	41.4	114.4	0.4	0.9	259.5
11/01/2011	19.81	11	0.8	1.2	1.9	3.9	1.8	0.5	48.7	27.1	78.1	0.5	0.4	281.5
27/01/2011	19.69	17	1.0	1	1.7	3.7	1.4	0.7	45.9	21.5	69.5	0.4	0.7	178.5
17/02/2011	20.61	12	0.9	1.1	2.1	4.1	0.5	0.5	57	23.6	81.6	0.5	0.7	224
1/03/2011	20.41	19	0.5	2.5	1.5	4.5	0.7	0.9	48.4	19.9	69.9	0.6	0.3	150.5
15/03/2011	20.07	15	3.0	0	1.4	4.4	0.2	2.7	50.1	21.6	74.6	0.5	0.6	179.5
13/04/2011	17.62	17	3.1	0	1.5	4.6	0.0	0.8	64.2	24.7	89.7	0.8	0.6	223
10/05/2011	15.53	16.5	1.4	2.6	1.5	5.5	0.9	0.9	74.2	17.5	93.5	0.7	0.7	207
31/05/2011	14.05	17	1.2	0.8	1.6	3.6	0.3	0.8	44.9	22.5	68.5	0.9	0.6	166.5
22/06/2011	12.95	14	0.4	1.6	2	4	1.1	0.4	42.5	22	66	1.0	0.9	190.5
5/07/2011	12.13	13	1.0	1	1.8	3.8	0.0	0.2	41.8	28.8	70.8	1.3	1.2	233
9/08/2011	11.10	16	1.8	1.2	2.3	5.3	3.4	5.0	75.6	24.7	108.7	1.7	1.9	346
24/08/2011	10.86	9	1.6	1.4	2.8	5.8	1.0	0.2	86.8	39.2	127.2	1.6	2.1	311
7/09/2011	11.22	16	0.6	3.4	1.8	5.8	2.0	1.1	44.9	23.2	71.2	0.8	1.4	198
28/09/2011	10.96	13	1.0	2	2.9	5.9	2.0	0.8	59.2	32.1	94.1	1.2	1.5	341
26/10/2011	13.00	14	0.6	3.4	1.7	5.7	0.7	0.0	42.3	25.5	68.5	0.5	1.2	227
8/11/2011	14.12	14	1.1	2.9	1.2	5.2	1.3	3.0	60.7	13.3	78.3	0.4	1.0	210
22/11/2011	14.57	18	1.1	1.9	2.1	5.1	1.2	0.0	44.8	28.1	74.1	0.7	0.9	202
8/12/2011	16.80	18.5	0.9	2.1	1.7	4.7	3.3	0.8	58.9	27.3	90.3	0.6	1.0	292
22/12/2011	18.22	13	0.6	0.4	1.6	2.6	2.0	2.4	63.6	22.9	90.9	0.5	0.9	323
12/01/2012	19.15	16.5	1.3	0.7	1.8	3.8	4.9	0.3	53.8	42.8	101.8	0.4	1.0	304
26/01/2012	19.02	15	0.9	2.1	1.4	4.4	3.7	0.5	41.8	29.4	75.4	0.5	0.9	245
16/02/2012		16	0.6	1.4	1.6	3.6	2.5	0.7	55.8	22.5	81.5	0.6	0.8	235
7/03/2012	18.17	16	0.7	1.3	1.6	3.6	0.8	1.0	54.2	24.5	80.5	0.6	1.2	230
10/04/2012	16.78	17	0.9	1.1	2.5	4.5	1.9	2.3	54.8	26.5	85.5	0.8	1.0	221
7/05/2012	15.06	17	0.8	2.2	1.5	4.5	2.7	0.8	73.5	20.1	97.1	0.7	1.0	235
30/05/2012	13.41	17	3.3	1.7	2.2	7.2	3.4	0.9	59.7	31.6	95.6	1.1	0.8	200
14/06/2012	12.64	14	2.0	3	1.8	6.8	2.6	0.1	54.3	30.1	87.1	1.0	0.8	218
2/07/2012	11.63	15.5	2.3	0	1.7	4	2.8	2.3	91.9	22.5	119.5	1.2	1.8	215

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	Chl- <i>a</i> at 50m (mg m ⁻³)	PC (mg m ⁻³)
18/07/2012	11.44	17	2.2	1.5	2.1	5.8	2.3	1.3	54.4	34.5	92.5	1.3	1.7	284
1/08/2012	10.85	17	3.7	1.3	1.9	6.9	0.8	8.8	56.4	22.3	88.3	1.5	1.5	140
17/08/2012	11.06	14	2.2	1.6	2.5	6.3	2.6	1.8	48.6	28.2	81.2	1.4	1.2	190
29/08/2012			1.4	2.6	1.8	5.8	4.9	1.7	56.4	30.6	93.6	1.3	1.0	252
20/09/2012	11.14	13	3.4	0	4.0	7.4	0.6	0.4	53	39.0	93	1.1	1.6	576
4/10/2012	11.45	12.5	2.1	0.9	2.6	5.6	0.4	1.1	51.5	26.3	79.3	1.2	2.1	269
24/10/2012	12.25	13.6	1.8	1.2	2.4	5.4	1.0	0.6	45.4	28.1	75.1	1.0	1.3	265
8/11/2012	13.44	17	1.2	2.8	1.8	5.8	1.3	0.6	41.1	17.7	60.7	0.5	1	173
22/11/2012	16.44	18	0.9	3.1	1.6	5.6	2.1	0.3	57.6	21.2	81.2	0.4	1	201
6/12/2012	14.96	19	0.7	1.3	2.3	4.3	0.6	0.8	44.6	23.5	69.45	0.6	0.9	148
19/12/2012	17.75	19	1.0	2	1.6	4.6	1.9	2.5	95.6	28.9	128.85	0.6	1.7	222
23/01/2013	19.00	15.8	0.3	1.7	1.5	3.5	0.5	0.1	53.4	22.3	76.3	0.6	0.9	273
7/02/2013	18.81	15	0.2	1.8	1.9	3.9	1.3	0.4	83.3	42.8	127.8	0.6	1.1	333
21/02/2013	20.41	19	1.1	0.9	2.1	4.1	3.7	0.5	87.8	27.5	119.5	0.3	1.1	242
6/03/2013	20.00	21	1.0	2	1.8	4.8	5.0	1.0	113	35.6	154.6	0.6	1	253
20/03/2013	19.5	14	0.2	2.7	2.4	5.3	4.1	0.2	86.7	39.8	130.8	0.7	0.7	543
4/04/2013	19.57	18	1.3	2.7	2.9	6.9	3.3	0.6	100.1	39.3	143.3	1	0.7	300
22/04/2013	17.48	14.7	6.4	2.6	2.7	11.7	2.0	2.9	73.1	36.9	114.9	1.4	0.7	300
7/05/2013	16.50	14.3	2.4	1.6	2.6	6.6	5.0	1.1	127.9	60.1	194.1	1.5	0.2	398
23/05/2013	15.25	15	1.3	2.7	3	7	1.4	0.6	76	51.8	129.8	1.4	0.5	345
6/06/2013	14.00	14.5	1.1	2.9	2	6	2.5	1.0	95.5	41.3	140.3	1.7	0.5	363
19/06/2013	13.20	15.0	1.2	0.8	2.1	4.1	1.9	0.5	80.6	37.8	120.8	1.2	1.2	318
22/07/2013	11.50	14	1.2	1.5	2.5	5.2	4.0	5.6	70.4	24.4	104.4	1.6	1.8	242
6/08/2013	11.54	12	1.4	0.6	3.5	5.5	2.4	0.6	51.0	31	85	1.9	1.7	223
21/08/2013	11.21	12.8	3.1	0.9	3.1	7.1	2.9	3.5	60.6	41.4	60.6	1.9	1.9	354.5
3/09/2013	11.20	11.5	2.8	2.3	3.7	8.8	2.6	1.1	89.3	50.1	143.1	2.3	2.4	417
18/09/2013	11.56	12	2.2	2.4	3.2	7.8	4.8	0.6	76.6	36.9	118.9	1.8	2.2	166
2/10/2013	11.73	12	4.5	0.5	3.1	8.1	1.5	0.2	62.3	33.3	97.3	1.7	2.1	295
21/10/2013	12.81	11	3.3	0.7	3.5	7.5	3.1	1.9	61	32.9	98.9	1.1	1.8	254
7/11/2013	13.53	10	3.0	3	3.6	9.6	1.6	0.7	63.7	48	114	1.3	1.4	380.5
20/11/2013	16.69	9	1.3	3.7	3	8	2.2	0.3	74.5	41.2	118.2	0.9	0.7	356.5
2/12/2013	17.41	10	1.1	3.9	3.1	8.1	2.5	0.4	56.1	38.5	97.5	1.2	0.9	305.5
8/01/2014	18.54	12	1.4	3.6	2	7.0	5.7	0.5	121.8	39.6	167.6	1.1	1.1	347.5
28/01/2014	18.06	13	1.7	1.3	1.3	4.3	3.4	1.4	117.2	19.8	141.8	1.0	0.8	289
12/02/2014	18.55	13.5	1.4	2.6	2.8	6.8	6.8	0.7	110	43.4	160.9	0.9	0.8	382
25/02/2014	19.16	15	0.2	2.8	2.35	5.4	2.9	0.3	76	27.7	106.9	0.8	0.9	256.5
12/03/2014	19.05	18	0.4	2.6	2.45	5.5	11.8	0.9	163.4	34.9	210.9	0.7	1.1	267
27/03/2014	18.21	14.5	0.9	3.1	2.2	6.2	1.9	0.9	92.2	33.8	128.8	1.0	1.1	375
9/04/2014	18.60	16.5	1.0	2	1.9	4.9	6.1	0.8	113.1	28.8	148.8	0.9	0.8	297.5
23/04/2014	17.42	14.8	1.2	1.8	1.8	4.8	1.3	1.1	88.6	20.5	111.5	1.1	0.8	213
8/05/2014	16.32	17.7	0.8	2.2	1.8	4.8	0.7	0.3	50	22.9	73.9	1.0	0.6	210.5
20/05/2014	15.41	16	0.5	2.5	1.6	4.6	2.4	0.2	52.4	18.1	73.1	0.9	0.6	228
5/06/2014	14.01	12	1.1	1.9	1.9	4.9	1.3	0.4	71.3	28.5	101.5	1.1	0.8	318.5
19/06/2014	13.38	14	0.6	2.4	2.15	5.2	3.7	0.9	65.4	32.6	102.6	1.5	1.6	292
1/07/2014	12.86	12.75	0.9	2.1	2	5	2.0	3.0	67.0	26.7	98.7	1.6	1.9	222
21/07/2014	11.76	15.5	2.4	1.6	1.8	5.8	2.7	7.6	38.7	24.6	73.6	1.7	1.1	221

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chl- <i>a</i> (mg m ⁻³)	Chl- <i>a</i> at 50m (mg m ⁻³)	PC (mg m ⁻³)
1/08/2014			2.2	1.8	3.5	7.5	1.5	1.8	64.7	45	113	2.7	2.8	353.5
26/08/2014	11.51	11	1.5	1.5	3.4	6.4	4.0	0.8	132.2	46.6	183.6	2.0	3.2	350.5
9/09/2014	12.08	11.25	0.7	2.3	3.0	6	1.0	3.2	47.8	27.5	79.5	3.8	3.4	336.5
8/10/2014	11.15	14	1.1	1.9	1.5	4.5	2.7	0.9	54.4	19.7	77.7	1.4	1.5	413
20/10/2014	12.91	13	0.8	2.2	0.75	3.8	5.1	0.4	78.5	19.5	103.5	0.9	1.7	238.5
5/11/2014	13.34	15	1.6	0.4	0.9	2.9	2.9	1.8	37.3	10.3	52.3	0.8	0.9	166.5
25/11/2014	14.64	12	1.6	1.4	1.3	4.3	2.9	0.4	74.7	20.3	98.3	0.4	0.6	222.5
17/12/2014	15.42	15	0.6	2.5	1.55	4.65	<1	<0.5	52.5	17	71	0.41	0.615	169
15/01/2015	20.36	16	1	2	1.475	4.475	6	1	45.0	23.25	75.25	0.515	0.71	237
29/01/2015	20.91	17.25	<0.5	3.5	1.6	5.6	4	<0.5	71.5	37.5	113.5	0.41	0.55	215.5
12/02/2015	19.47	17	0.6	1.4	1.2	3.2	1.2	0.2	51.6	15.2	68.2	0.6	1.2	220
26/02/2015	20.00	18	0.8	1.2	2	4.0	7.5	0.0	149.5	25.75	182.75	0.5	0.7	199
9/03/2015	20.08	18	1.0	2	1.7	4.7	7.5	1.1	85.4	27.55	121.55	0.6	1.1	254.5
25/03/2015	19.10	18	1.0	2	2	5	0.0	1.3	64.7	26.5	92.5	0.6	0.6	282.5
9/04/2015	no profile		0.8	1.2	1.3	3.3	3.6	0.2	103.2	16.95	123.95	0.9	1.0	233
22/04/2015	17.10	17.25	0.6	2.4	2.3	5.3	1.3	0.5	77.2	26.45	105.45	1.0	1.1	243.5
12/05/2015	15.70	13	1.1	2.9	2.8	6.8	3.7	1.0	98.3	51.2	154.2	1.1	0.84	340
27/05/2015	13.90	12	1.5	1.5	2.25	5.25	3.2	0.6	91.2	33.3	128.3	1.2	1.205	269
18/06/2015	12.30	16.25	1.8	1.2	2.15	5.15	3.7	0.7	89.6	36.8	130.8	1.3	1.2	230.5
2/07/2015	11.59	14.25	1.7	2.3	2.85	6.85	6.8	1.5	95.7	55.55	159.55	1.7	0.8	433.5
30/07/2015	11.04	13.00	2.3	1.7	3.05	7.05	0.8	1.0	35.2	37.55	74.55	2.7	NA	202.5
13/08/2015	10.86	10.00	1.6	3.4	3.15	8.15	3.4	1.7	58.9	38.3	102.3	2.2	2.4	244
27/08/2015	10.78	12.50	1.7	2.0	2.25	5.95	1.6	0.1	46.3	21.4	69.4	1.2	1.6	161.5
17/09/2015	10.79	18.5	1.9	1.7	2.35	5.95	0	3.9	51.1	22.85	77.85	1.33	1.23	233
1/10/2015	11.84	17.25	1.2	1.8	2.2	5.2	0	0.1	52.9	20.2	73.2	0.77	1.09	235.5
15/10/2015	12.33	14.5	1.3	1.7	1.6	4.6	0.1	0.1	52.8	15.5	68.5	0.37	1.11	145.5
2/11/2015	13.42	16	1.8	2.2	1.75	5.75	4.6	1.6	97.8	24.3	128.3	0.455	0.8	205
19/11/2015	13.96	14	1.1	2.9	1.9	5.9	0.4	0.5	55.1	22.65	78.65	0.605	1.375	198.5
1/12/2015	16.27	14.5	1.1	1.9	2.25	5.25	1.2	0.8	50	20.25	72.25	0.38	1.03	196.5

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chl- <i>a</i> (mg m ⁻³)	Chl- <i>a</i> at 50m (mg m ⁻³)	PC (mg m ⁻³)
7/01/2016	18.30	18	0.8	2.2	1.6	4.6	1.2	0.4	59.4	21.4	82.4	0.385	0.715	184
21/01/2016	19.68	14	1.1	2.6	1.5	5.2	2.9	0.6	117.5	35.2	156.2	0.48	0.685	280.5
3/02/2016	22.21	18	3.3	-0.3	1.4	4.4	3.7	0.4	85.9	28.75	118.75	0.335	0.82	281.5
16/02/2016	22.25	17	1.2	1.4	1.6	4.2	2.8	0.3	56.9	26.6	86.6	0.4	0.8	242
9/03/2016	20.67	no secchi	1.8	2.2	0.95	4.95	0.5	0.2	45.3	9.85	55.85	0.555	0.72	86.5
22/03/2016	19.79	17	1.9	2.1	1.95	5.95	1.6	0.5	66.9	19.3	88.3	0.635	0.845	121
7/04/2016	19.02	15	0.515	3.185	1.7	5.4	8.05	0.2	111.7	20	140	0.78	0.77	243
19/04/2016	18.31	14.75	0.9	1.1	2.15	4.15	2.4	0.5	84.1	28.7	115.7	0.8	0.9	288
5/05/2016	17.11	14.2	0.6	1.4	1.9	3.9	0.8	0.3	65.9	25.05	92.05	1.05	0.74	278.5
2/06/2016	14.63	14.3	0.8	1.2	1.85	3.85	1.5	0.2	65.3	22.25	89.25	1.1	0.965	266.35
6/07/2016	12.56	13	1.5	3.5	2.75	7.8	1.5	0.5	64.0	27.5	93.5	1.4	0.2	264.5

Lake Taupo cumulative database of 10 m tube sample data

Samples collected from Kuratau Basin (Site B)

Date Collected	Temp. °C	Secchi m	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	PN mg m ⁻³	TN mg m ⁻³	Chlorophyll <i>a</i> mg m ⁻³	PC mg m ⁻³
8/01/2002	18.1	13.5	0.4	2	2.2	4.6	0.4	1.3	48	16.7	66.4	0.9	233
22/01/2002	18.8	12	0.9	2	2.6	5.5	0.9	0.3	41	19.9	62.1	0.9	221
6/03/2002	18.6	14.5	0.3	2	2.3	4.6	1.4	0.5	73	18.3	93.2	0.9	207
4/04/2002	17.4	19.5	0.6	2	1.5	4.1	0.4	0.1	40	11.2	51.7	0.9	162
17/04/2002	16.8	19	0.0	3	1.6	4.6	0.5	0.1	45	12.3	57.9	0.9	143
5/05/2002	15.1	13.2	0.3	1.1			1.6	0.4	40			0.9	
19/06/2002	12.5	15	1.0	1	2.2	4.2	0.4	0.8	48.2	17.4	66.8	1.5	182
1/07/2002	12.1	16	1.5	1.5	1.8	4.8	0.8	1.7	41.5	14.2	58.2	1.6	146
17/07/2002	11.5	12.5	1.8	2.2	2	6	0.8	5.1	51.1	16.1	73.1	1.5	156.5
31/07/2002	11.3	10.5	2.0	3	2.5	7.5	1.5	2.2	81.5	18.5	103.7	2.6	194.5
29/08/2002	11.0	8	1.2	4.8	3.3	9.3	0	0.2	184.0	22.9	207.1	2.3	221
18/09/2002	11.1	11	1.9	2.1	2.1	6.1	0.4	0.6	43.4	14	58.4	1.1	149
9/10/2002	11.7	16	1.4	1.6	1.7	4.7	4.4	0.2	19.6	11.7	35.9	0.5	149
13/11/2002	12.0	14	1	3	2.5	6.5	0.3	0	35	15.2	50.5	1.8	478
28/11/2002	13.8	12.7	0.9	2.9	2	5.8	0	0	40	16.7	56.7	0.7	203.5
18/12/2002	15.2	14	0.6	1.4	2.1	4.1	0	0.1	36	11.2	47.3	0.4	143
30/01/2003	16.8	18	0.5	2.5	1.7	4.7	<1	0.8	43	12.1	55.9	0.6	148.5
13/02/2003	18.8	11	0.7	1.3	1.6	3.6	0.4	0.2	45	9.3	54.9	0.7	131
17/03/2003	18.7	14	0.5	3.5	2	6	<1	0.7	49	16.3	66.0	1.0	208
3/04/2003	19.0	12.8	0.6	3.4	2.1	6.1	<1	0.1	50	19.6	69.7	1.1	239.5
28/04/2003	16.7	13.5	0.6	3.4	1.6	5.6	<1	0.2	57	13.1	70.3	1.4	218.5
15/05/2003	15.7	15.5	0.4	3.6	1.8	5.8	<1	0.2	63	13.5	76.7	1.7	229.5
12/06/2003	12.5	12	1.7	1.3	2.2	5.2	0.1	2.8	39.1	13.9	55.9	1.3	
14/07/2003	11.8	12	1.7	2.3	2.2	6.2	0.9	1.9	39.4	15.9	58.1	1.7	96.5
31/07/2003	11.3	13	2.1	1.9	2.7	6.7	1.2	2.0	43.8	18.0	65.0	2.1	108.5
14/08/2003	11.4	13	1.8	2.2	3.3	7.3	0.3	0.3	33	22.3	55.9	2.5	112.0
26/08/2003	11.3	11.5	3.1	0.9	4.0	8	0.4	0.1	37	22.4	59.9	3.1	148.0
8/09/2003	11.1	11	2.5	1.5	3.3	7.3	0.4	0.1	36	23.5	60.0	1.4	196.5
7/10/2003	11.7	9.5	2.3	1.7	3.0	7.0	0.0	0.1	49.9	20.5	70.5	1.2	185.5
21/10/2003	13.2	15.0	2.2	0.8	2.7	5.7	0.3	0.2	38.5	14.9	53.9	0.8	155.5
19/11/2003	13.8	17.0	1.6	2.4	2.4	6.4	0.0	0.1	51.0	14.6	65.7	0.6	139.5
4/12/2003	15.6	17.0	1.8	2.2	1.8	5.8	0.2	0.1	44.7	13.5	58.5	0.4	126.5
18/12/2003	17.0	15.0	0.5	3.5	1.9	5.9	0.0	0.2	56.0	12.4	68.6	0.5	145.5
13/01/2004	20.3	16.0	0.4	4.6	1.8	6.8	0.0	0.2	54.0	13.7	67.9	0.5	125.0

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	PC (mg m ⁻³)
26/02/2004	16.8	13.5	1.1	1.9	1.8	4.8	0.6	0.1	42.3	15.8	58.8	0.8	157.0
8/03/2004	17.6	5.0	0.8	2.2	3.1	6.1	1.0	0.3	41.7	17.5	60.5	0.9	172.0
31/03/2004	15.9	11.0	0.8	3.2	1.8	5.8	0.7	0.2	45.1	9.9	55.9	1.4	124.5
14/04/2004	15.0	14.0	0.9	4.1	2.2	7.2	0.6	0.3	52.1	14.9	67.9	1.3	171.5
10/05/2004	14.7	15.5	0.8	2.2	1.7	4.7	0.0	0.2	59.8	15.9	75.9	1.3	179.0
10/06/2004	12.9	12.0	1.4	2.6	2.1	6.1	0.0	0.2	108.8	18.6	127.6	1.2	183.0
13/07/2004	11.4	11.0	2.1	2.9	2.5	7.5	0.0	8.4	40.6	19.3	68.3	1.4	154.0
26/07/2004	11.2	10.0	1.3	2.7	3.2	7.2	0.2	5.8	38.0	25.0	69.0	2.7	204.0
24/08/2004	10.9	10.0	0.7	3.3	3.1	7.1	0.0	0.0	47.0	20.9	67.9	2.5	158.0
7/09/2004	10.8	11.0	0.7	2.3	2.6	5.6	0.0	0.2	44.8	17.1	62.1	1.5	172.5
21/10/2004	11.7	11.0	1.2	1.8	2.1	5.1	0.2	0.0	30.8	16.1	47.1	0.8	172.5
2/11/2004	13.1	15.0	1.0	2.0	1.7	4.7	0.2	0.1	42.7	11.0	54.0	0.5	152.0
22/11/2004	14.9	15.0	0.6	3.4	1.6	5.6	0.6	0.0	33.4	9.5	43.5	0.5	141.5
15/12/2004	13.2	17.2	0.6	3.4	1.6	5.6	0.4	0.1	39.5	12.6	52.6	0.2	120.0

Lake Taupo cumulative database of 10 m tube sample data

Samples collected from Western Bays (site C)

Date Collected	Temp. °C	Secchi m	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	PN mg m ⁻³	TN mg m ⁻³	Chlorophyll <i>a</i> mg m ⁻³	PC mg m ⁻³
8/01/2002	18.72	14.5	0.9	4	2.3	7.2	0.9	0.6	88	16.1	105.6	0.8	213
22/01/2002	18.82	15.5	0.7	2	2.2	4.9	0.7	0.0	37	16.8	54.5	0.8	221
6/03/2002	18.68	16	0.2	2	2	4.2	0	0.1	45	16	61.1	0.7	177
4/04/2002	17.47	19	0.6	2	1.4	4	0.0	0.0	38	8.8	46.8	0.9	152
17/04/2002	16.88	18.5	0	3	1.6	4.6	0.7	0.2	44	11.8	56.7	0.9	167
5/05/2002	15.6	15.6	0.4	1			2	0.2	45			1.1	
19/06/2002	12.58	16	0.9	2.1	2	5	0.3	1.2	38.8	15.9	56.2	0.9	161
1/07/2002	12.22	14	1.3	1.7	1.9	4.9	0.3	0.4	45	15	60.7	1.4	148
17/07/2002	11.52	12.5	1.9	2.1	2	6	0.9	4.9	46.1	16.3	68.2	1.5	160
31/07/2002	11.6	12	2.3	2.7	2.3	7.3	1.7	4.0	113.3	16.7	135.7	2.3	150
29/08/2002	11.4	8	1	3	3.2	7.2	0	0	177	22.3	199.3	2.4	217
18/09/2002	11.24	12	2.8	2.2	2	7	1.7	0.4	45.3	11.7	59.1	0.9	152
9/10/2002	12.10	19	1.5	1.5	1.7	4.7	0.3	0.2	28	10.2	38.7	0.4	116
13/11/2002	12.60	16	1.1	2.9	2	6	0.1	0	51	12.2	63.3	0.6	141
28/11/2002	13.90	15.5	0.9	2.1	2	5	0.4	0.4	40	14.4	55.2	0.8	125.5
18/12/2002	15.10	13.5	0.8	2.2	1.9	4.9	0	0.3	45	10.2	55.5	0.5	136.5
30/01/2003	17.60	18.5	0.5	2.5	1.5	4.5	<1	0.1	46	8.6	54.7	0.4	141.5
13/02/2003	19.50	19	0.6	1.4	1.6	3.6	0	0.1	42	8.4	50.5	0.5	104
17/03/2003	18.70	15	0.5	2.5	1.7	4.7	<1	0.4	46	14.6	61.0	1.1	215
3/04/2003	18.80	14.5	0.5	2.5	1.6	4.6	<1	0.4	49	16.5	65.9	1.2	204
28/04/2003	17.00	14.5	0.4	2.6	1.4	4.4	<1	0.4	54	12.2	66.6	1.5	191
15/05/2003	15.60	17	0.1	3.9	2.2	6.2	<1	0.1	56	18	74.1	1.3	197
12/06/2003	13.70	11	1.3	1.7	2	5	0.1	0.9	40	13.8	54.8	1.3	
14/07/2003	11.80	14	1.9	2.1	2	6	1	4.7	39.3	14.9	59.9	1.5	85.0
31/07/2003	11.40	12	3.1	5.9	2.8	11	0.1	4.0	55	20.3	79.4	2.3	101.5
14/08/2003	11.50	14.5	2.4	2.6	2.9	7.9	1.1	3.8	46.1	19.5	70.5	2.8	92.5
26/08/2003	11.30	13	2.8	2.2	3.8	8.8	0.5	0.2	39	25.0	64.7	3.2	174.5
8/09/2003	11.30	12	2.6	0.4	3	6	0.1	0.1	40	19.5	59.7	1.3	233.0
7/10/2003	11.7	12.5	2.7	1.3	2.8	6.8	0.0	0.3	44.7	18.4	63.4	1.5	157.5

Date Collected	Temp. °C	Secchi (m)	DRP (mg m ⁻³)	DOP (mg m ⁻³)	PP (mg m ⁻³)	TP (mg m ⁻³)	NH ₄ -N (mg m ⁻³)	NO ₃ -N (mg m ⁻³)	DON (mg m ⁻³)	PN (mg m ⁻³)	TN (mg m ⁻³)	Chlorophyll <i>a</i> (mg m ⁻³)	PC (mg m ⁻³)
21/10/2003	13.0	12.0	1.5	1.5	3.1	6.1	0.3	0.0	44.7	17.4	62.4	1.1	195.0
19/11/2003	14.3	17.2	1.5	1.5	2.3	5.3	0.8	0.0	38.2	14.4	53.4	0.7	123.0
4/12/2003	15.5	17.0	1.7	3.3	1.7	6.7	0.0	0.2	46.8	11.2	58.2	0.5	129.0
18/12/2003	17.0	19.0	0.5	4.5	1.5	6.5	0.0	0.0	47.0	9.9	56.9	0.4	124.5
13/01/2004	20.2	17.5	0.7	4.3	1.6	6.6	0.0	0.1	53.0	11.9	65.0	0.4	118.5
26/02/2004	16.9	14.0	0.9	2.1	2.2	5.2	0.8	0.4	40.8	17.2	59.2	0.7	156.0
8/03/2004	18.4	13.0	0.8	2.2	2.0	5.0	0.7	0.1	34.2	11.1	46.1	0.6	124.0
31/03/2004	16.4	12.5	0.6	3.4	2.0	6.0	0.7	0.3	51.0	12.3	64.3	1.2	175.5
14/04/2004	15.4	16.5	0.9	3.1	2.3	6.3	0.6	0.3	50.1	14.2	65.2	1.2	159.0
10/05/2004	14.9	16.0	0.8	3.2	1.6	5.6	0.0	0.2	48.8	15.4	64.4	1.1	153.0
10/06/2004	13.1	14.0	0.8	2.2	2.0	5.0	0.0	0.2	41.8	16.6	58.6	1.0	151.0
13/07/2004	11.6	12.5	1.3	2.7	2.5	6.5	0.0	5.9	39.1	19.9	64.9	1.6	156.5
26/07/2004	11.5	11.0	1.5	2.5	2.9	6.9	0.3	2.7	46.0	22.2	71.2	2.4	180.5
24/08/2004	10.9	10.0	1.0	3.0	2.9	6.9	0.0	0.4	37.6	18.5	56.5	2.5	161.0
7/09/2004	11.1	12.0	1.2	3.8	2.6	7.6	0.0	0.0	54.0	16.8	70.8	1.5	202.0
21/10/2004	11.7	12.0	1.1	1.9	1.9	4.9	0.2	0.0	35.8	14.8	50.8	0.6	167.5
2/11/2004	12.4	17.0	1.0	3.0	1.7	5.7	0.3	1.2	45.5	16.3	63.3	0.4	173.0
22/11/2004	14.8	16.0	0.5	3.5	1.7	5.7	0.0	0.2	37.8	10.8	48.8	0.5	149.0
15/12/2004	14.2	20.8	0.9	4.1	1.4	6.4	0.0	0.0	42.0	12.2	54.2	0.2	131.0

Lake Taupo biannual nutrient database										2015-2016				Started 27 October 1994							
Collection date 2 November 2015					Secchi depth = 16 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PartP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PartN*	TN	DOC	PC	PN**
	m		μS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
UK1	1	7.86	119	13.42	10.43	0.51	<0.50	0.43	1.3	1.7	1.1	4.1	0.5	0.4	48.1	4	9.5	58.5	507	98.1	8.6
UK2	10	7.87	119	13.04	10.36	0.63	<0.50	0.24	1.2	2.8	1.45	5.5	0.6	0.3	40.1	<3	10.5	51.5	459	102.4	9.3
UK3	20	7.91	120	12.89	10.45	0.67	<0.50	0.5	0.9	2.1	2.1	5.1	0.3	0.3	40.4	<3	19	60.0	466	122.0	10.7
UK4	30	7.89	119	12.17	10.44	0.78	<0.50	0.5	1.2	1.8	2.2	5.2	0.2	0.2	38.6	<3	17.2	56.2	460	183.5	15.7
UK5	40	7.84	119	11.67	10.35	0.65	<0.50	0.71	1.1	1.9	2.75	5.8	0.3	0.1	41.6	<3	20.3	62.3	523	120.5	12.8
UK6	50	7.77	119	10.92	10.18	0.75	<0.50	0.885	1.2	1.8	1.9	4.9	0.9	0.4	32.7	<3	14.5	48.5	449	152.0	15.3
UK7	60	7.69	119	10.77	9.98	0.76	<0.50	1.29	1.5	1.5	1.85	4.9	0.5	0.2	34.3	<3	12.4	47.4	411	86.1	7.3
UK8	70	7.62	120	10.74	9.96	0.63	<0.50	1.59	1.6	1.4	2	5.0	0.4	0.6	37.0	<3	12.5	50.5	426	85.2	6.7
UK9	80	7.62	120	10.73	9.85	<0.50	<0.50	1.32	1.9	0.1	1.7	3.7	0.7	1.7	37.6	<3	10.3	50.3	450	74.9	7.1
UK10	90	7.62	120	10.72	9.83	<0.50	<0.50	1.5	2	1.0	1.95	5.0	1.2	2	33.8	<3	10.2	47.2	420	68.8	6.5
UK11	100	7.61	119	10.71	9.81	0.54	<0.50	1.42	1.7	1.3	2.15	5.2	0.6	2.5	33.9	<3	11.6	48.6	411	59.8	5.9
UK12	110	7.6	119	10.71	9.80	0.76	<0.50	1.06	2	2.0	1.9	5.9	0.7	2.5	31.8	<3	13.6	48.6	427	66.8	7.2
UK13	120	7.63	119	10.70	9.73	0.78	<0.50	1.26	2.2	0.8	1.95	5.0	0.8	3.7	30.5	<3	9.75	44.8	422	51.1	6.4
UK14	130	7.6	120	10.70	9.75	0.69	<0.50	1.45	2.1	0.9	1.7	4.7	0.5	3.9	32.6	<3	8.75	45.8	469	53.4	5.7
UK15	140	7.6	119			0.59	<0.50	1.28	2.2	1.8	1.95	6.0	1.1	4.4	31.5	<3	10	47.0	459	64.4	6.6
UK16	150	7.52	120			0.58	<0.50	1.26	2.4	0.6	1.4	4.4	2	4.2	30.8	<3	8.3	45.3	436	69.7	7.6
NH ₄ , NO ₃ , DON, Urea all as N * = PN by wet digestion method, ** = PN by combustion furnace method.																					
Detection limits: DRP 0.5; NO ₃ -N 0.5; NH ₄ -N 1.0 mg m ⁻³																					
New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.																					
FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO ₃ -N, and NH ₄ -N below nominal detection limit.																					

Lake Taupo biannual nutrient database						2014-2015						Started 27 October 1994									
Collection date 25 November 2014						Secchi depth = 12 m															
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		μS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
CK1	1	7.70	118	14.55	10.03	<0.5	<0.5	0.4	0.8	2.2	0.8	3.8	1.0	<0.5	42.0	2	7.0	50.0	546	119.5	13.5
CK2	10	7.75	118	13.58	10.18	0.6	<0.5	0.8	0.8	1.2	1.2	3.2	<1.0	<0.5	47.0	<1	9.3	56.3	563	139.5	13.6
CK3	20	7.75	118	13.44	10.20	0.7	<0.5	0.9	0.9	2.1	1.3	4.3	<1.0	<0.5	40.0	<1	11.0	51.0	748	151.5	16.9
CK4	30	7.73	118	13.32	10.18	<0.5	<0.5	0.9	0.8	2.2	1.4	4.4	<1.0	<0.5	38.0	<1	10.8	48.8	584	119.5	10.6
CK5	40	7.68	118	12.57	9.93	<0.5	<0.5	0.7	1.0	2.0	1.0	4.0	<1.0	<0.5	37.0	<1	7.4	44.4	522	103.7	12.5
CK6	50	7.74	118	11.56	9.88	<0.5	<0.5	0.7	1.0	1.7	1.7	4.4	<1.0	0.5	37.0	<1	10.6	48.1	538	83.7	10.8
CK7	60	7.68	118	11.32	9.79	<0.5	<0.5	0.8	1.1	1.9	1.1	4.1	<1.0	<0.5	40.0	<1	7.4	47.4	715	74.5	8.9
CK8	70	7.68	118	11.25	9.76	<0.5	<0.5	0.7	1.1	1.9	1.4	4.4	<1.0	0.6	36.4	1	8.7	45.7	677	75.0	7.6
CK9	80	7.62	118	11.19	9.69	<0.5	<0.5	0.7	1.1	1.9	1.0	4.0	1.1	0.8	35.1	1	6.0	43.0	663	62.8	7.3
CK10	90	7.55	118	11.15	9.58	<0.5	<0.5	0.8	1.0	1.7	1.1	3.8	<1.0	1.8	35.2	<1	6.5	43.5	505	53.7	7.6
CK11	100	7.55	119	11.13	9.38	<0.5	<0.5	0.8	1.4	2.6	1.3	5.3	<1.0	5.9	36.1	1	7.8	49.8	543	50.2	7.9
CK12	110	7.56	119	11.11	9.27	<0.5	<0.5	0.8	1.5	1.5	1.2	4.2	<1.0	4.4	35.6	<1	7.2	47.2	656	86.3	8.8
CK13	120	7.46	119	11.09	9.15	<0.5	<0.5	0.8	1.9	2.1	1.5	5.5	<1.0	8.6	34.4	<1	8.0	51.0	535	65.9	8.8
CK14	130	7.59	119	11.07	9.11	<0.5	<0.5	0.9	1.8	2.2	1.7	5.7	<1.0	9.0	33.0	1	8.4	50.4	644	62.4	10.1
CK15	140	7.45	118	11.05	8.87	<0.5	<0.5	1.0	2.4	1.6	2.1	6.1	<1.0	13.7	36.3	<1	10.2	60.2	515	58.3	9.5
CK16	150	7.58	119	11.05	8.72	0.5	<0.5	1.1	2.8	2.2	1.7	6.7	<1.0	16.3	33.7	1	8.6	58.6	524	67.5	9.6
Collection date 9 April 2015						Secchi depth = not measured															
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		μS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
JS1	1	7.8	118	18.11	9.32	<0.5	<0.5	1.0	0.2	0.8	2.0	3.1	0.6	0.2	54.3	3	18.0	73.0	617	107.0	11.3
JS2	10	7.8	118	18.02	9.26	<0.5	<0.5	1.2	0.4	1.4	2.2	4.0	0.3	0.3	53.4	5	18.4	72.4	584	136.5	12.5
JS3	20	7.9	118	17.99	9.32	<0.5	<0.5	1.1	0.5	0.0	2.0	2.5	0.7	0.1	62.2	<1	15.0	78.0	563	108.5	9.8
JS4	30	7.8	118	15.33	9.44	<0.5	<0.5	0.7	0.4	0.9	1.5	2.8	3.4	0.1	51.5	<1	14.7	69.7	540	102.9	8.7
JS5	40	7.7	118	12.99	9.75	<0.5	<0.5	1.5	0.5	0.1	1.7	2.2	0.6	0.0	41.4	1	13.1	55.1	473	111.0	8.2
JS6	50	7.7	118	11.93	9.51	<0.5	<0.5	1.2	1.1	0.0	1.4	2.5	0.0	2.2	37.8	1	10.4	50.4	484	71.4	6.9
JS7	60	7.7	118	11.54	8.88	<0.5	<0.5	1.2	1.2	0.0	1.3	2.5	0.1	1.1	40.8	1	10.8	52.8	437	61.4	6.0
JS8	70	7.6	118	11.34	8.86	<0.5	<0.5	0.8	1.6	0.6	0.9	3.1	0.4	2.4	36.2	1	7.6	46.6	462	62.5	5.1
JS9	80	7.5	118	11.28	8.53	<0.5	<0.5	0.4	2.3	1.3	0.9	4.4	0.0	9.0	31.0	<1	6.5	46.5	440	44.7	3.9
JS10	90	7.5	119	11.23	8.36	<0.5	<0.5	0.3	4.4	0.3	0.9	5.5	0.1	12.3	31.7	1	5.9	49.9	462	50.4	3.5
JS11	100	7.6	118	11.21	8.17	<0.5	<0.5	0.3	2.5	2.2	0.8	5.5	0.0	10.4	31.6	<1	5.5	47.5	415	54.1	3.7
JS12	110	7.5	118	11.18	8.05	<0.5	<0.5	0.2	5.0	0.8	0.7	6.5	0.1	16.1	32.8	<1	5.1	54.1	500	43.0	4.7
JS13	120	7.5	119	11.16	8.07	<0.5	<0.5	0.1	8.2	0.0	1.0	9.2	0.7	24.7	34.7	<1	3.4	63.4	474	28.1	3.1
JS14	130	7.5	119	11.14	7.68	<0.5	<0.5	0.1	6.2	1.7	1.0	8.8	0.0	25.7	38.3	1	3.5	67.5	503	48.0	2.9
JS15	140	7.4	119	11.14	7.23	<0.5	<0.5	0.1	11.1	0.8	1.4	13.2	0.0	30.5	37.4	<1	7.2	75.2	494	69.0	4.9
JS16	150	7.5	119	11.14	7.03	<0.5	<0.5	0.3	15.8	0.0	1.5	17.3	0.0	39.5	37.5	<1	4.9	81.9	563	61.7	4.9

NH₄, NO₃, DON, Urea all as N * = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Temp & DO data for 9 April are the average of profiles on 25 March and 21 April

No actual profile taken

Lake Taupo biannual nutrient database										2013-2014					Started 27 October 1994						
Collection date 7 November 2013					Secchi depth = 10.0 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		µS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
JK1	1	7.97	120	13.53	10.3	0.6	0.3	0.7	2.3	2.1	2.0	6.4	0.3	1.2	53.5	2	15.2	70.2	563	119.5	12.0
JK2	10	7.90	121	13.42	10.3	0.9	0.4	1.3	2.0	3.1	2.9	8.0	0.0	0.1	43.9	<1	21.0	65.0	570	168.5	17.4
JK3	20	7.84	120	13.12	10.1	0.8	0.4	1.3	1.8	2.1	2.9	6.8	0.0	0.0	45.0	<1	21.2	66.2	547	167.0	18.4
JK4	30	7.84	120	12.23	9.9	0.8	0.4	1.0	1.5	2.6	2.2	6.3	0.3	0.4	46.3	<1	13.5	60.5	512	109.5	10.4
JK5	40	7.77	119	11.81	9.7	0.7	0.3	1.1	1.9	2.7	2.2	6.8	1.0	0.8	37.2	1	13.2	52.2	487	83.4	7.7
JK6	50	7.73	119	11.55	9.7	0.6	0.2	1.2	2.3	1.7	2.4	6.4	0.5	1.2	36.3	1	13.7	51.7	496	101.9	9.4
JK7	60	7.79	121	11.42	9.5	0.6	0.2	1.2	3.3	0.9	2.5	6.7	0.3	6.2	34.5	<1	12.7	53.7	530	57.1	8.9
JK8	70	7.64	121	11.30	9.3	0.6	0.2	1.0	3.8	1.6	2.3	7.7	0.3	8.3	36.4	1	12.2	57.2	477	46.8	7.9
JK9	80	7.66	121	11.23	9.2	0.6	0.2	1.0	4.4	1.2	2.3	7.9	0.2	10.7	34.1	1	11.2	56.2	483	42.5	7.5
JK10	90	7.63	121	11.19	9.0	0.5	0.1	0.9	5.0	1.1	2.3	8.4	0.0	12.3	35.7	<1	10.9	58.9	479	44.4	6.6
JK11	100	7.73	123	11.17	8.9	0.5	0.1	0.9	4.5	2.5	2.2	9.2	0.6	12.5	33.9	1	11.1	58.1	485	68.9	6.3
JK12	110	7.66	121	11.15	8.7	0.4	0.1	0.8	5.3	1.4	2.1	8.8	0.2	13.2	28.6	1	10.0	52.0	484	49.1	7.1
JK13	120	7.69	120	11.14	8.5	0.5	0.1	1.0	4.2	1.2	2.2	7.6	0.2	12.2	35.6	<1	10.0	58.0	483	38.7	7.6
JK14	130	7.67	119	11.13	8.2	0.4	0.2	0.9	4.5	1.3	2.5	8.3	0.4	14.7	34.9	<1	11.8	61.8	484	43.5	7.3
JK15	140	7.69	120	11.12	8.1	0.4	0.1	0.9	5.3	2.0	2.1	9.4	0.0	15.7	38.3	2	10.1	64.1	485	41.7	5.9
JK16	150	7.66	121	11.12	8.0	0.6	0.1	0.9	5.5	1.7	2.2	9.4	0.0	16.1	37.9	<1	11.6	65.6	494	57.2	7.3
Collection date 9 April 2014					Secchi depth = 16.75 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		µS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
RQ1	1	7.91	119	18.56	9.2	<0.5	<0.5	0.6	0.6	1.4	1.0	3.0	1.9	0.1	75.0	10	11.4	88.4	721	120.5	8.8
RQ2	10	7.92	120	18.53	9.2	<0.5	<0.5	0.9	1.4	0.6	1.7	3.7	0.1	0.0	48.9	<2	16.4	65.4	672	133.5	12.1
RQ3	20	7.89	120	18.52	9.2	<0.5	<0.5	0.5	1.6	0.4	1.5	3.5	0.7	0.0	51.3	<2	14.1	66.1	697	113.0	11.4
RQ4	30	7.83	120	17.76	9.0	<0.5	<0.5	1.0	1.4	0.6	1.5	3.5	0.1	0.1	48.8	<2	14.1	63.1	644	134.5	11.0
RQ5	40	7.69	119	12.99	8.5	<0.5	<0.5	1.2	2.0	3.0	1.5	6.5	0.2	0.5	40.3	<2	13.3	54.3	497	79.7	6.8
RQ6	50	7.56	120	11.87	8.4	<0.5	<0.5	0.7	2.6	1.4	1.2	5.2	0.4	2.5	39.1	<2	8.0	50.0	457	66.8	6.1
RQ7	60	7.66	119	11.58	8.3	<0.5	<0.5	0.5	3.1	0.9	0.9	4.9	0.5	5.3	35.2	<2	5.5	46.5	462	56.5	4.8
RQ8	70	7.60	121	11.45	8.3	<0.5	<0.5	0.3	3.1	0.9	0.7	4.7	0.1	7.7	35.2	<2	4.6	47.6	434	45.5	3.6
RQ9	80	7.52	120	11.38	8.1	<0.5	<0.5	0.2	4.1	0.9	0.7	5.7	0.5	12.5	35.0	<2	5.1	53.1	433	37.8	3.5
RQ10	90	7.73	124	11.35	8.1	<0.5	<0.5	0.2	5.0	1.0	0.7	6.7	0.1	16.6	27.3	<2	5.0	49.0	440	40.4	2.9
RQ11	100	7.68	120	11.33	8.0	<0.5	<0.5	0.1	5.5	1.5	0.6	7.6	0.7	20.9	30.4	<2	4.7	56.7	443	31.2	3.5
RQ12	110	7.64	122	11.31	7.8	<0.5	<0.5	0.1	5.1	1.9	0.7	7.7	0.1	21.9	32.0	<2	4.4	58.4	436	33.2	3.1
RQ13	120	7.44	121	11.30	7.7	<0.5	<0.5	0.1	6.3	1.7	0.6	8.6	0.3	24.1	32.6	<2	4.9	61.9	461	30.3	2.7
RQ14	130	7.56	119	11.28	7.6	<0.5	<0.5	0.1	6.3	1.7	0.6	8.6	0.4	24.4	30.2	2	6.4	61.4	433	29.9	2.7
RQ15	140	7.36	122	11.27	7.2	<0.5	<0.5	0.1	7.9	1.1	0.7	9.7	0.5	32.0	30.5	<2	6.0	69.0	446	29.6	2.5
RQ16	150	7.35	122	11.26	6.7	<0.5	<0.5	0.1	8.3	1.7	1.0	11.0	0.2	35.7	33.1	<2	9.4	78.4	494	38.7	3.4

NH₄, NO₃, DON, Urea all as N * = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database					2012-2013										Started 27 October 1994						
Collection date 24 October 2012					Secchi depth = 13.6 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		µS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
RF1	1	7.70	118	12.29	9.63	<0.5	<0.5	0.4	1.3	0.7	1.3	3.3	0.4	1.5	36.1	3	9.6	47.6	502	94.8	9.5
RF2	10	7.66	118	11.59	9.74	0.9	<0.5	1.0	0.9	1.1	2.4	4.4	0.0	0.0	36.0	<3	14.6	50.6	509	170.5	17.9
RF3	20	7.56	119	11.55	9.68	0.9	<0.5	1.0	1.4	1.6	2.7	5.7	2.2	0.0	34.8	<3	17.2	54.2	751	159.5	17.1
RF4	30	7.63	119	11.52	9.64	0.9	<0.5	1.0	0.9	1.1	2.4	4.4	0.0	0.0	34.0	<3	15.7	49.7	608	196.5	18.1
RF5	40	7.62	118	11.51	9.51	0.9	<0.5	1.0	0.8	2.2	2.3	5.3	0.0	0.0	38.0	<3	13.2	51.2	543	161.0	17.0
RF6	50	7.72	118	11.49	9.55	0.8	<0.5	1.2	1.0	2.0	2.3	5.3	0.2	0.0	33.8	<3	13.7	47.7	530	155.5	16.8
RF7	60	7.60	119	11.43	9.34	1.4	0.7	1.3	1.5	1.5	2.5	5.5	0.1	0.0	34.9	<3	14.2	49.2	527	190.5	16.5
RF8	70	7.65	118	11.37	9.41	0.8	<0.5	1.5	1.1	0.9	2.4	4.4	0.0	0.2	31.8	<3	13.8	45.8	528	134.0	16.7
RF9	80	7.58	118	11.34	9.28	0.9	<0.5	1.6	1.3	1.7	2.5	5.5	0.2	0.5	34.3	<3	15.4	50.4	511	137.5	15.7
RF10	90	7.56	119	11.29	9.29	0.9	<0.5	1.5	1.3	0.7	2.5	4.5	0.3	0.2	40.5	<3	14.4	55.4	516	145.0	18.2
RF11	100	7.49	118	11.25	9.16	0.9	<0.5	1.7	1.4	0.6	2.7	4.7	0.6	0.1	34.3	<3	15.2	50.2	530	136.0	17.4
RF12	110	7.61	118	11.18	9.13	0.9	<0.5	1.7	1.5	1.5	2.5	5.5	0.0	0.8	55.2	<3	14.6	70.6	543	125.0	17.3
RF13	120	7.54	119	11.10	8.96	0.7	<0.5	1.6	2.0	1.0	2.3	5.3	1.6	3.4	42.0	<3	12.7	59.7	504	83.1	15.0
RF14	130	7.54	119	11.00	8.97	0.7	<0.5	1.6	1.7	0.3	2.3	4.3	1.1	3.2	33.7	<3	13.0	51.0	504	105.2	14.1
RF15	140	7.55	119	10.97	8.77	0.7	<0.5	1.6	2.0	1.0	3.1	6.1	0.7	2.7	33.6	<3	14.1	51.1	503	99.2	16.8
RF16	150	7.57	119	10.91	8.57	0.8	<0.5	1.6	1.8	1.2	3.0	6.0	0.0	0.7	36.3	<3	22.3	59.3	530	110.0	18.8
Collection date 4 April 2013					Secchi depth = 18.0 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		µS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
ZE1	1	8.12	119	19.58	9.11	0.3	0.3	1.5	0.0	2.9	1.5	4.4	0.8	0.4	59.8	<3	21.9	82.9	682	154.5	20.1
ZE2	10	7.97	120	19.48	13.37	0.4	0.3	1.4	0.2	2.2	1.4	3.8	0.0	0.2	51.8	<3	16.5	68.5	619	143.5	16.8
ZE3	20	7.96	120	19.45	9.73	0.3	0.3	1.4	0.3	2.0	1.2	3.5	0.0	0.0	49.0	<3	14.6	63.6	607	122.5	16.1
ZE4	30	7.85	121	15.96	10.07	0.4	0.3	1.2	0.3	2.1	1.7	4.1	0.8	0.9	49.3	<3	16.0	67.0	618	134.0	16.3
ZE5	40	7.73	119	12.95	9.90	0.3	0.2	1.0	0.5	1.4	1.0	2.9	0.5	0.2	42.3	<3	9.4	52.4	527	94.8	11.1
ZE6	50	7.63	122	11.88	9.38	0.1	0.1	0.6	1.9	0.8	0.7	3.4	0.0	3.9	39.1	<3	5.8	48.8	483	75.7	8.6
ZE7	60	7.68	120	11.52	9.08	-	-	0.5	2.7	0.5	0.8	4.0	0.0	4.2	35.8	<3	5.1	45.1	477	116.1	9.4
ZE8	70	7.80	120	11.32	8.74	0.2	0.1	0.5	3.4	0.4	0.9	4.7	0.0	5.6	36.4	<3	5.4	47.4	485	108.0	9.0
ZE9	80	7.61	120	11.21	8.71	0.2	0.1	0.4	3.6	0.1	0.8	4.5	0.0	7.0	35.0	<3	5.2	47.2	494	100.8	8.6
ZE10	90	7.53	120	11.13	8.28	0.2	0.1	0.2	4.9	0.0	0.8	5.7	0.0	11.3	34.7	<3	7.6	53.6	473	63.1	5.7
ZE11	100	7.55	120	11.09	8.06	0.1	0.1	0.2	5.9	0.0	0.8	6.7	0.0	15.7	37.3	<3	6.0	59.0	456	50.1	6.3
ZE12	110	7.47	120	11.06	7.86	0.1	0.1	0.1	6.9	0.0	0.8	7.7	0.0	18.4	35.6	<3	5.3	59.3	477	54.2	5.9
ZE13	120	7.50	121	11.05	7.73	0.2	0.1	0.1	9.7	0.0	0.9	10.6	0.0	24.6	36.4	<3	5.5	66.5	468	63.9	6.5
ZE14	130	7.48	120	11.03	7.69	0.3	0.1	0.1	12.4	0.0	1.4	13.8	0.0	29.9	38.1	<3	6.8	74.8	464	76.8	6.7
ZE15	140	7.46	120	11.02	7.57	0.3	0.1	0.1	14.4	0.0	1.7	16.1	0.3	32.8	42.9	<3	8.0	84.0	464	65.3	7.5
ZE16	150	7.58	123	11.00	7.23	0.3	0.1	0.1	13.2	0.0	1.4	14.6	0.0	30.7	35.3	<3	6.5	72.5	474	49.7	6.7

NH₄, NO₃, DON, Urea all as N * = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database					2011-2012										Started 27 October 1994						
Collection date 22 November 2011					Secchi depth = 18.0 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		μS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
ZH1	1	7.95	119.4	14.59	10.32	0.5	0.2	0.5	0.3	1.7	1.3	3.3	0.6	0.0	30.4	<2	10.8	41.8	550	147.4	8.7
ZH2	10	7.94	119.1	14.55	11.18	0.5	0.3	0.5	0.3	1.7	1.7	3.7	0.3	0.0	35.7	<2	11.6	47.6	552	129.9	7.1
ZH3	20	7.91	119.5	14.52	11.66	0.4	0.2	0.6	0.3	1.7	1.5	3.5	0.0	0.0	30.0	<2	11.9	41.9	555	122.8	13.1
ZH4	30	7.91	119.2	14.20	11.57	0.4	0.3	0.6	0.4	1.6	1.6	3.6	0.6	0.0	27.4	<2	12.3	40.3	550	124.9	13.5
ZH5	40	7.86	119.2	12.23	11.72	0.5	0.2	1.2	0.4	1.6	2.0	4.0	0.0	0.0	25.0	<2	14.1	39.1	542	107.6	9.6
ZH6	50	7.83	118.0	11.36	11.61	0.3	0.2	1.2	0.4	1.6	1.9	3.9	1.0	0.1	22.9	<2	13.0	37.0	526	105.2	18.2
ZH7	60	7.78	119.4	11.00	10.84	0.4	0.2	0.9	0.6	1.4	1.5	3.5	0.4	0.3	22.3	<2	11.3	34.3	523	92.2	9.6
ZH8	70	7.76	119.6	10.89	10.79	0.2	0.1	0.7	0.8	2.2	1.3	4.3	0.3	0.5	28.2	<2	9.7	38.7	528	65.6	5.9
ZH9	80	7.70	120.0	10.86	10.38	0.3	0.1	0.6	0.9	1.1	1.4	3.4	1.3	0.6	29.1	<2	7.4	38.4	502	61.9	7.7
ZH10	90	7.65	119.6	10.83	10.30	0.3	0.2	0.6	0.8	1.2	1.3	3.3	1.3	0.9	24.8	<2	7.5	34.5	522	49.7	9.5
ZH11	100	7.70	119.6	10.82	9.92	0.2	0.1	0.5	0.9	1.1	1.2	3.2	1.5	1.6	24.9	<2	8.3	36.3	478	52.1	10.1
ZH12	110	7.65	119.2	10.80	9.93	0.2	0.1	0.6	1.0	1	1.3	3.3	0.9	1.1	27.0	<2	8.1	37.1	527	47.3	12.6
ZH13	120	7.65	119.5	10.79	9.47	0.2	0.1	0.6	1.1	0.9	1.3	3.3	2.8	2.8	29.4	<2	7.2	42.2	516	39.6	6.6
ZH14	130	7.69	119.5	10.78	9.39	0.3	0.1	0.6	1.1	1.9	1.1	4.1	1.7	2.8	33.5	<2	7.6	45.6	513	44.9	9.1
ZH15	140	7.69	119.6	10.77	9.13	0.3	0.1	0.5	1.3	1.7	1.3	4.3	5.8	4.4	32.8	<2	7.6	50.6	515	41.5	6.3
ZH16	150	7.63	119.7	10.76	9.06	0.3	0.1	0.4	1.2	1.8	1.3	4.3	5.7	4.5	30.8	<2	3.7	44.7	544	50.7	6.6
Collection date 10 April 2012					Secchi depth = 17.0 m																
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		μS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
HC1	1	7.92	119	16.63	9.19	<0.5	<0.5	0.6	0.4	1.6	1.8	3.8	0.4	3.7	54.9	7	15.7	74.7	644	134.5	15.5
HC2	10	7.90	121	16.44	9.74	<0.5	<0.5	0.6	0.5	1.5	1.9	3.9	3.8	0.6	56.6	3	15.2	76.2	723	131.0	14.5
HC3	20	7.88	124	16.40	9.39	<0.5	<0.5	0.7	0.4	1.6	1.9	3.9	1.4	0.6	30.0	<2	15.6	47.6	635	131.5	14.8
HC4	30	7.86	120	16.17	9.44	<0.5	<0.5	0.9	0.5	1.5	1.5	3.5	0.0	0.4	40.6	<2	11.5	52.5	670	114.0	14.9
HC5	40	7.78	120	14.03	9.55	<0.5	<0.5	1.7	0.4	0.6	2.1	3.1	0.0	0.4	35.6	<2	16.4	52.4	605	134.0	17.1
HC6	50	7.65	120	11.67	9.34	<0.5	<0.5	1.2	1.6	0.4	2.0	4.0	0.0	1.8	31.2	<2	14.3	47.3	530	100.1	12.9
HC7	60	7.60	117	10.97	9.46	<0.5	<0.5	0.7	1.2	0.8	1.2	3.2	0.0	1.8	32.2	<2	9.3	43.3	497	66.5	8.2
HC8	70	7.54	118	10.80	9.37	<0.5	<0.5	0.5	2.4	0.6	1.1	4.1	0.0	6.7	32.3	<2	8.5	47.5	476	66.1	7.9
HC9	80	7.57	120	10.71	9.11	<0.5	<0.5	0.4	2.6	0.4	1.1	4.1	0.0	8.1	28.9	<2	8.5	45.5	481	53.5	6.7
HC10	90	7.51	116	10.64	8.83	<0.5	<0.5	0.3	3.5	0.5	1.0	5.0	0.0	11.6	41.4	<2	7.6	60.6	536	62.4	7.0
HC11	100	7.41	121	10.62	9.04	<0.5	<0.5	0.2	3.4	0.6	1.1	5.1	0.0	13.1	28.9	<2	8.2	50.2	489	48.7	6.0
HC12	110	7.25	121	10.59	8.55	<0.5	<0.5	0.2	3.8	0.2	0.8	4.8	0.0	13.6	26.4	3	5.0	45.0	557	41.3	4.9
HC13	120	7.38	112	10.56	8.94	<0.5	<0.5	0.2	4.0	1	0.9	5.9	0.0	15.4	27.6	<2	6.7	49.7	587	45.0	6.7
HC14	130	7.36	117	10.54	8.66	<0.5	<0.5	0.2	4.8	0.2	1.0	6.0	0.0	16.8	29.2	<2	7.2	53.2	585	50.8	5.7
HC15	140	7.42	119	10.54	8.72	<0.5	<0.5	0.2	6.3	0.7	1.2	8.2	0.0	22.2	28.8	<2	8.1	59.1	618	48.5	5.8
HC16	150	7.35	121	10.54	7.92	<0.5	<0.5	0.2	8.2	0	1.7	9.9	0.1	27.4	28.5	<2	8.7	64.7	596	52.2	5.7
					DO sensor failed; indicative data from 14 March																
NH ₄ , NO ₃ , DON, Urea all as N					* = PN by wet digestion method, ** = PN by combustion furnace method.																
Detection limits: DRP 0.5; NO ₃ -N 0.5; NH ₄ -N 1.0 mg m ⁻³																					
New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.																					
FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO ₃ -N, and NH ₄ -N below nominal detection limit.																					

Lake Taupo biannual nutrient database										2010-2011										Started 27 October 1994		
Collection date 10 November 2010					Secchi depth = 11.5 m																	
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**	SO ₄
	m		µS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
KD1	1	7.8	121	14.12	9.4	1.0	<0.5	0.7	0.9	2.1	4.6	7.6	0.0	0.2	49.8	<2	20.8	70.8	503	192.0	20.0	7.4
KD2	10	7.82	120	13.46	9.1	0.8	<0.5	0.7	0.6	2.4	2.0	5.0	0.0	0.1	41.9	<2	12.1	54.1	478	182.5	12.1	7.5
KD3	20	7.77	120	13.27	9.1	0.8	<0.5	0.8	0.6	1.4	2.1	4.1	0.0	0.0	42.0	<2	14.2	56.2	536	192.5	13.4	7.5
KD4	30	7.8	119	12.24	9.0	0.7	<0.5	1.1	0.5	1.5	2.2	4.2	0.2	0.0	40.8	<2	14.2	55.2	500	211.0	13.2	7.6
KD5	40	7.72	120	11.73	9.6	0.6	<0.5	1.3	0.7	1.3	2.5	4.5	0.2	0.0	41.8	<2	14.8	56.8	447	179.0	12.5	7.7
KD6	50	7.73	119	11.33	9.9	0.9	<0.5	1.6	1.0	1.0	2.6	4.6	0.0	0.0	42.0	<2	14.7	56.7	443	173.5	13.7	7.8
KD7	60	7.57	120	11.16	9.4	0.9	<0.5	2.3	1.8	1.2	2.8	5.8	0.0	0.2	30.8	<2	13.1	44.1	433	140.5	13.3	7.8
KD8	70	7.67	120	11.03	8.3	0.9	<0.5	2.5	0.8	2.2	2.8	5.8	0.0	0.2	44.8	<2	13.1	58.1	437	150.0	14.0	7.9
KD9	80	7.62	119	10.96	8.3	0.8	<0.5	2.0	0.8	2.2	2.9	5.9	0.0	0.2	40.8	<2	14.0	55.0	427	137.5	13.3	7.9
KD10	90	7.57	120	10.89	8.3	0.6	<0.5	2.2	0.8	3.2	2.7	6.7	0.0	1.6	39.4	<2	13.2	54.2	423	70.3	10.0	8.0
KD11	100	7.58	119	10.86	8.0	<0.5	<0.5	2.0	0.8	4.2	2.8	7.8	0.0	2.1	42.9	<2	10.5	55.5	436	72.5	9.6	8.2
KD12	110	7.54	120	10.83	8.0	0.5	<0.5	2.1	1.1	2.9	2.6	6.6	0.0	2.7	40.3	<2	11.7	54.7	428	73.4	9.9	8.0
KD13	120	7.6	119	10.82	7.9	0.5	<0.5	1.7	1.0	2.0	2.5	5.5	0.0	3.8	47.2	<2	11.3	62.3	440	74.9	9.6	8.6
KD14	130	7.62	120	10.80	8.1	3.3	<0.5	2.1	0.8	2.2	3.1	6.1	0.0	7.3	37.7	<2	12.8	57.8	432	83.7	10.9	8.6
KD15	140	7.57	119	10.79	7.8	0.6	<0.5	2.1	1.5	2.5	3.1	7.1	0.0	9.3	39.7	<2	13.5	62.5	430	72.0	12.0	8.1
KD16	150	7.55	120	10.80	8.1	0.8	<0.5	2.8	1.6	2.4	4.3	8.3	0.0	10.8	41.2	<2	17.0	69.0	442	87.1	14.8	8.0
(for summations <1 use 0.5)																						
Collection date 13 April 2011					Secchi depth = 17.0 m																	
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**	SO ₄
	m		µS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
RL1	1	7.84	116	17.62	9.2	0.4	0.3	0.46	2.0	0.0	0.8	2.8	0.0	0.1	44.7	<2	8.8	53.6	661	102.0	9.9	7.8
RL2	10	7.74	116	17.65	9.6	0.4	0.2	0.64	1.9	0.1	1.1	3.1	0.2	0.2	43.1	<2	10.8	54.3	684	109.5	9.5	7.8
RL3	20	7.73	116	17.62	9.9	0.4	0.3	0.65	1.5	0.5	1.7	3.7	0.0	0.1	40.1	<2	13.6	53.8	713	160.5	17.9	8.2
RL4	30	7.75	117	17.61	9.9	0.4	0.3	0.59	1.5	0.5	1.3	3.3	0.8	0.1	43.2	<2	12.1	56.2	669	139.0	14.7	8.1
RL5	40	7.63	117	12.52	10.2	0.2	0.1	0.74	3.2	0.8	1.1	5.1	0.0	1.2	29.2	<2	8.0	38.4	543	62.6	9.4	8.0
RL6	50	7.68	118	11.63	9.8	0.2	0.2	0.67	3.0	0.0	1.0	4.0	0.0	4.0	27.8	<2	7.3	39.1	587	58.7	5.0	7.9
RL7	60	7.56	118	11.29	9.7	0.3	0.2	0.46	2.6	0.4	0.9	3.9	0.0	6.1	28.0	<2	6.0	40.1	519	75.1	6.6	8.1
RL8	70	7.54	118	11.14	9.1	0.2	<0.1	0.18	2.7	0.3	1.0	4.0	0.0	8.7	25.8	<2	6.7	41.2	519	62.5	8.5	8.0
RL9	80	7.51	118	11.06	9.1	0.2	<0.1	0.16	2.9	0.1	0.8	3.8	0.0	11.8	31.4	<2	5.5	48.7	515	48.6	7.0	8.0
RL10	90	7.45	118	11.00	8.5	0.2	<0.1	0.15	3.4	0.6	0.9	4.9	0.9	14.0	26.3	<2	5.4	46.6	501	56.4	5.6	7.8
RL11	100	7.45	118	10.96	8.2	0.2	0.1	0.14	3.2	0.8	0.9	4.9	0.3	15.2	45.6	<2	5.5	66.6	517	86.8	8.0	8.3
RL12	110	7.40	118	10.92	8.1	0.2	<0.1	0.17	4.4	0.6	0.9	5.9	0.0	20.8	46.4	<2	4.1	71.3	512	41.0	4.2	7.8
RL13	120	7.43	118	10.90	7.9	0.1	<0.1	0.17	4.0	0.0	0.8	4.8	0.1	20.9	28.1	<2	4.5	53.6	512	51.4	5.8	7.9
RL14	130	7.45	118	10.88	7.5	0.2	0.1	0.16	4.5	0.5	1.0	6.0	0.8	23.4	43.4	<2	5.3	72.9	532	50.0		7.6
RL15	140	7.49	117	10.87	7.5	0.2	<0.1	0.17	5.1	0.9	1.0	7.0	0.2	25.1	33.3	<2	5.5	64.1	527	49.8	7.6	7.9
RL16	150	7.39	118	10.86	7.0	0.3	<0.1	0.27	6.1	0.0	1.4	7.5	0.3	28.7	28.3	<2	6.5	63.8	520	59.2	7.2	8.1
NH ₄ , NO ₃ , DON, Urea all as N					* = PN by wet digestion method, ** = PN by combustion furnace method.																	
Detection limits: DRP 0.5; NO ₃ -N 0.5; NH ₄ -N 1.0 mg m ⁻³																						
New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.																						
FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO ₃ -N, and NH ₄ -N below nominal detection limit.																						

Lake Taupo biannual nutrient database

2009-2010

Started 27 October 1994

Collection date 9 October 2009

Secchi depth = 13.0 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor _a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
OT1	1	7.89	118	11.72	11.67	0.6	<0.5	0.3	4.0	<0.5	2.0	6.0	0.8	<0.5	36.0	3	13.2	50.2	553	227.0	18.4
OT2	10	7.87	121	11.25	12.13	0.7	<0.5	0.5	3.5	<0.5	2.2	5.7	0.5	<0.5	39.3	<1	14.0	54.0	538	267.0	20.2
OT3	20	7.78	120	11.24	11.79	0.6	<0.5	0.5	3.8	<0.5	2.2	6.0	0.2	<0.5	33.6	1	14.7	48.7	531	288.0	24.1
OT4	30	7.87	120	11.20	11.78	0.6	<0.5	0.5	4.0	<0.5	2.4	6.4	0.4	<0.5	31.4	1	14.4	46.4	531	264.0	21.3
OT5	40	7.86	120	10.98	11.24	0.6	<0.5	0.6	4.2	<0.5	2.0	6.2	0.4	<0.5	25.4	2	12.3	38.3	522	312.0	18.4
OT6	50	7.73	121	10.67	11.10	<0.5	<0.5	0.7	4.6	<0.5	2.0	6.6	1.0	<0.5	34.8	2	12.1	48.1	521	214.2	18.5
OT7	60	7.65	121	10.58	10.10	<0.5	<0.5	0.6	4.6	<0.5	1.7	6.3	0.9	<0.5	28.9	<1	11.2	41.2	508	161.6	17.4
OT8	70	7.70	121	10.53	10.02	<0.5	<0.5	0.5	4.6	<0.5	1.9	6.5	0.8	1.2	34.0	1	10.2	46.2	505	88.9	22.7
OT9	80	7.67	121	10.50	9.70	<0.5	<0.5	0.5	5.1	<0.5	1.7	6.8	0.8	2.7	30.5	1	9.9	43.9	514	129.3	10.3
OT10	90	7.62	122	10.49	9.72	<0.5	<0.5	0.4	4.9	<0.5	1.4	6.3	0.9	4.7	40.4	2	8.2	54.2	493	121.1	9.4
OT11	100	7.61	121	10.47	9.51	<0.5	<0.5	0.4	5.2	<0.5	1.5	6.7	0.5	7.3	44.2	1	8.1	60.1	493	117.6	8.6
OT12	110	7.62	121	10.46	9.50	<0.5	<0.5	0.2	5.7	<0.5	1.2	6.9	0.8	7.6	34.6	1	7.5	50.5	494	105.6	10.4
OT13	120	7.55	122	10.44	9.20	<0.5	<0.5	0.3	5.5	<0.5	7.7	13.2	0.6	9.3	37.1	2	8.1	55.1	517	114.7	9.1
OT14	130	7.62	122	10.43	9.18	<0.5	<0.5	0.3	5.9	<0.5	1.7	7.6	0.5	12.2	31.3	<1	9.6	53.6	504	125.3	10.1
OT15	140	7.41	122	10.41	8.82	<0.5	<0.5	0.3	6.5	<0.5	1.7	8.2	1.7	13.6	29.7	1	9.0	54.0	503	149.9	13.8
OT16	150	7.71	120	10.41	8.79	<0.5	<0.5	0.5	3.4	0.6	1.6	5.6	0.4	1.0	30.6	1	10	42.0	491	135.0	12.2

Collection date 8 April 2010

Secchi depth = 21.5 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor _a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
YZ1	1	7.76	115	17.36	9.48	1.0	<0.5	0.7	0.8	1.2	3.2	5.2	0.0	0.3	69.7	8	19.6	89.6	893	173.0	21.2
YZ2	10	7.78	119	17.35	10.17	<0.5	<0.5	0.6	0.8	1.2	1.6	3.6	0.0	0.2	50.8	<2	11.5	62.5	814	142.5	16.8
YZ3	20	7.83	118	17.35	9.66	0.6	<0.5	0.7	0.8	2.2	1.4	4.4	1.9	0.2	38.9	<2	12.8	53.8	683	121.5	14.2
YZ4	30	7.79	120	17.34	9.43	<0.5	<0.5	0.6	1.1	0.9	1.4	3.4	0.8	0.0	40.2	<2	12.2	53.2	710	115.0	12.6
YZ5	40	7.74	119	12.28	9.04	<0.5	<0.5	1.4	1.0	2.0	1.9	4.9	0.7	0.1	36.2	<2	16.0	53.0	593	117.0	23.8
YZ6	50	7.71	120	11.19	8.57	<0.5	<0.5	1.4	2.2	0.8	1.4	4.4	0.7	0.5	32.8	<2	11.5	45.5	545	88.1	9.4
YZ7	60	7.61	121	10.82	8.31	<0.5	<0.5	0.8	2.2	0.8	1.1	4.1	0.0	0.6	31.4	<2	7.6	39.6	496	53.5	7.7
YZ8	70	7.59	121	10.67	8.11	<0.5	<0.5	0.4	4.4	0.6	0.6	5.6	0.0	7.7	28.3	<2	4.7	40.7	525	62.2	6.4
YZ9	80	7.52	121	10.62	7.97	<0.5	<0.5	0.3	5.2	0.8	0.6	6.6	0.0	16.8	28.2	<2	4.0	49.0	491	43.3	6.3
YZ10	90	7.55	121	10.60	7.74	<0.5	<0.5	0.2	6.2	0.8	0.6	7.6	0.0	20.8	29.2	<2	3.9	53.9	496	42.1	10.1
YZ11	100	7.53	122	10.57	7.43	<0.5	<0.5	0.2	7.2	0.0	0.6	7.8	0.0	23.8	27.2	<2	3.5	54.5	491	38.2	7.8
YZ12	110	7.53	121	10.57	7.27	<0.5	<0.5	0.2	6.5	0.5	0.5	7.5	0.0	24.3	24.7	<2	2.9	51.9	481	26.7	5.9
YZ13	120	7.46	122	10.55	7.11	<0.5	<0.5	0.2	8.3	0.7	0.9	9.9	0.0	29.4	28.6	<2	6.0	64.0	505	43.6	7.3
YZ14	130	7.68	122	10.53	7.09	<0.5	<0.5	0.2	10.1	0.0	1.1	11.2	0.0	31.5	34.5	<2	5.6	71.6	519	43.2	8.1
YZ15	140	7.4	122	10.53	6.82	<0.5	<0.5	0.1	9.3	5.7	1.0	16.0	0.0	33.3	37.7	<2	5.3	76.3	517	48.2	6.6
YZ16	150	7.4	122	10.53	6.75	<0.5	<0.5	0.2	10.4	0.6	1.4	12.4	0.0	33.4	29.6	<2	6.6	69.6	514	49.5	8.5

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Collection date 14 October 2008

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	Secchi depth = 12.2 m										DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
							VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³									
SZ1	1	7.66	119	12.59	10.29	1.1	<0.5	0.7	1.0	2.0	4.2	7.2	4.1	0.0	70.9	26.1	101.1	816	235.0	24.6			
SZ2	10	7.70	121	12.09	10.29	0.7	<0.5	0.8	0.6	2.4	3.9	6.9	0.1	0.0	39.9	18.7	58.7	690	169.5	23.5			
SZ3	20	7.70	121	11.93	10.50	0.8	<0.5	0.8	0.7	2.3	7.8	10.8	0.0	0.0	59.0	32.7	91.7	638	250.0	33.1			
SZ4	30	7.70	120	11.85	10.46	1.0	0.6	0.7	0.7	2.3	5.6	8.6	0.0	0.0	65.0	24.2	89.2	632	195.5	31.8			
SZ5	40	7.70	120	11.75	10.34	0.7	<0.5	0.9	0.3	1.7	4.6	6.6	0.0	0.0	52.0	16.2	68.2	597	162.5	15.5			
SZ6	50	7.69	120	11.59	10.05	0.5	<0.5	0.9	0.4	2.6	4.5	7.5	0.5	0.0	48.5	15.6	64.6	602	139.5	29.2			
SZ7	60	7.56	120	10.90	9.89	0.8	0.5	0.8	1.0	2.0	5.0	8.0	0.7	1.6	69.7	16.7	88.7	603	94.0	18.2			
SZ8	70	7.52	121	10.76	9.86	0.6	<0.5	0.6	1.2	1.8	3.6	6.6	0.0	2.6	45.4	20.4	68.4	593	77.2	16.8			
SZ9	80	7.45	122	10.71	9.81	0.7	<0.5	0.4	1.3	2.7	3.1	7.1	0.0	4.7	36.3	9.5	50.5	589	61.8	25.9			
SZ10	90	7.49	121	10.69	9.85	0.7	<0.5	0.3	1.8	0.2	2.3	4.3	0.0	5.7	29.3	9.7	44.7	561	57.5	9.1			
SZ11	100	7.23	121	10.68	10.03	0.6	<0.5	0.2	1.5	0.5	2.5	4.5	2.2	6.6	33.2	9.2	51.2	605	71.8	23.1			
SZ12	110	7.32	121	10.66	10.13	<0.5	<0.5	0.3	1.5	1.5	2.2	5.2	3.5	7.4	33.1	8.0	52.0	617	46.8	10.6			
SZ13	120	7.36	122	10.64	10.09	0.7	<0.5	0.2	1.2	2.8	2.5	6.5	1.6	9.5	34.9	9.9	55.9	613	57.6	28.5			
SZ14	130	7.45	121	10.60	9.83	0.8	<0.5	0.2	2.6	0.4	2.1	5.1	1.6	11.7	34.7	7.5	55.5	652	56.6	27.2			
SZ15	140	7.43	120	10.59	9.76	<0.5	<0.5	<0.1	2.9	3.1	2.5	8.5	1.4	17.1	37.5	8.7	64.7	686	46.6	24.1			
SZ16	150	7.40	121	10.59	9.85	<0.5	<0.5	0.2	2.7	2.3	3.5	8.5	2.3	17.3	39.4	11.0	70.0	656	68.9	23.5			

Collection date 15 April 2009

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	Secchi depth = 18.0 m										DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
							VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³									
EU1	1	7.89	123	16.60	9.33	<0.5	<0.5	0.7	1.1	0.9	1.7	3.7	4.3	1.4	74.3	17	16.7	96.7	834	187.0	19.2		
EU2	10	7.84	122	16.59	10.11	<0.5	<0.5	0.8	1.3	1.7	2.0	5.0	0.1	0.0	26.9	<1	13.1	40.1	669	116.0	16.2		
EU3	20	7.83	121	16.59	10.76	<0.5	<0.5	0.9	1.2	2.8	2.0	6.0	0.3	0.0	29.7	1	17.2	47.2	691	152.0	18.4		
EU4	30	7.84	123	16.58	10.83	<0.5	<0.5	0.9	0.9	3.1	1.8	5.8	0.8	0.0	38.2	2	15.8	54.8	650	143.0	19.1		
EU5	40	7.8	121	12.53	10.39	<0.5	<0.5	1.0	1.4	6.6	1.5	9.5	0.7	0.1	37.3	1	13.0	51.1	627	81.9	13.2		
EU6	50	7.79	121	11.56	9.58	<0.5	<0.5	0.7	2.2	3.8	1.2	7.2	0.0	2.0	20.0	<1	9.3	31.3	574	79.5	12.1		
EU7	60	7.58	122	11.12	9.06	<0.5	<0.5	0.5	3.9	3.1	1.2	8.2	0.0	8.5	24.5	2	7.4	40.4	581	68.6	11.6		
EU8	70	7.49	123	10.98	8.84	<0.5	<0.5	0.3	5.5	4.5	1.1	11.1	0.7	18.7	14.6	2	8.7	42.7	553	59.6	15.2		
EU9	80	7.03	124	10.92	8.21	<0.5	<0.5	0.2	6.6	6.4	1.2	14.2	0.0	24.5	26.5	<1	9.3	60.3	635	51.7	11.8		
EU10	90	7.03	124	10.88	8.24	12	12	0.1	7.2	2.8	1.1	11.1	0.0	27.0	16.0	1	6.7	49.7	514	46.6	9.4		
EU11	100	7.16	123	10.86	8.07	<0.5	<0.5	0.1	6.3	5.7	0.9	12.9	0.0	24.7	32.3	1	5.1	62.1	554	35.9	8.8		
EU12	110	7.21	124	10.84	8.12	<0.5	<0.5	0.1	7.0	4	1.0	12.0	0.2	26.3	12.5	<1	6.9	45.9	562	42.7	10.1		
EU13	120	7.2	123	10.82	8.02	<0.5	<0.5	0.1	7.1	4.9	1.0	13.0	0.2	26.8	25.0	4	6.8	58.8	549	53.7	10.1		
EU14	130	7.61	123	10.79	8.15	<0.5	<0.5	<0.1	7.6	8.4	1.0	17.0	0.0	27.6	<1	2	7.2	34.8	562	45.4	11.8		
EU15	140	7.23	122	10.78	8.01	<0.5	<0.5	<0.1	8.1	4.9	1.1	14.1	0.0	29.0	8.0	<1	7.3	44.3	661	50.3	9.8		
EU16	150	7.22	122	10.78	7.55	<0.5	<0.5	<0.1	9.0	2	1.3	12.3	1.3	30.6	21.1	1	7.1	60.1	544	42.8	12.7		

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database

2007-2008

Started 27 October 1994

Collection date 30 October 2007

Secchi depth = 12.8 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
ZA1	1	7.80	119	12.84	10.18	0.7	<0.5	0.6	1.3	0.7	2.1	4.1	1.5	0.7	79.8	16	20.1	102.1	617	170.0	19.2
ZA2	10	7.83	120	11.83	10.27	<0.5	<0.5	1.0	0.9	1.1	2.5	4.5	0.0	0.0	42.0	<5	18.5	60.5	553	204.0	19.8
ZA3	20	7.79	115	11.76	10.25	0.5	<0.5	1.1	1.1	0.9	2.6	4.6	0.2	0.0	42.8	<5	19.0	62.0	405	169.0	19.4
ZA4	30	7.76	119	11.70	10.07	0.7	<0.5	1.2	0.8	1.2	2.5	4.5	0.0	0.0	49.0	<5	19.1	68.1	417	173.5	19.0
ZA5	40	7.72	120	11.64	10.02	0.7	<0.5	1.1	1.0	1.0	2.6	4.6	0.0	0.0	36.0	<5	16.8	52.8	417	131.5	17.4
ZA6	50	7.61	121	11.51	9.85	0.8	<0.5	1.4	0.9	1.1	3.3	5.3	0.0	0.0	39.0	<5	18.3	57.3	434	140.0	18.1
ZA7	60	7.54	120	11.43	9.52	0.9	<0.5	1.4	1.2	0.8	2.7	4.7	0.2	0.0	32.8	<5	19.5	52.5	414	127.5	17.1
ZA8	70	7.46	123	11.32	9.77	0.8	<0.5	1.5	1.5	0.5	2.7	4.7	0.1	0.3	46.6	<5	19.1	66.1	443	130.0	19.0
ZA9	80	7.42	122	11.23	9.58	0.8	<0.5	1.1	1.9	1.1	2.1	5.1	0.4	2.6	41.0	5	15.8	59.8	422	95.8	14.4
ZA10	90	7.42	121	11.16	9.42	0.7	<0.5	0.9	2.1	0.9	2.1	5.1	0.3	4.8	42.9	<5	13.3	61.3	410	92.0	13.0
ZA11	100	7.38	122	11.07	9.49	<0.5	<0.5	0.7	2.8	0.2	1.8	4.8	0.0	8.5	36.5	<5	11.2	56.2	400	64.0	11.0
ZA12	110	7.40	122	11.04	9.16	0.7	<0.5	0.7	2.9	0.1	1.8	4.8	0.0	9.2	56.8	<5	11.6	77.6	386	68.3	11.1
ZA13	120	7.38	122	11.02	9.27	0.7	<0.5	0.6	2.8	1.2	2.1	6.1	0.0	10.0	46.0	<5	12.7	68.7	359	105.3	12.5
ZA14	130	7.44	120	11.00	9.01	0.6	<0.5	0.6	2.6	1.4	1.9	5.9	0.0	10.4	35.6	<5	10.9	56.9	348	61.8	10.5
ZA15	140	7.44	121	10.98	9.11	0.6	<0.5	0.6	3.0	0.0	1.7	4.7	0.0	10.8	39.2	<5	10.3	60.3	351	64.1	11.2
ZA16	150	7.42	121	10.96	8.91	<0.5	<0.5	0.6	3.5	1.5	1.8	6.8	0.0	13.3	38.7	<5	10.8	62.8	305	63.1	10.6

Collection date 17 April 2008

Secchi depth = 17.8 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
KA1	1	7.79	122	17.88	9.49	<0.5	<0.5	0.4	0.8	0.2	0.7	1.7	2.8	0.4	64.8	14	13.3	81.3	656	138.5	8.4
KA2	10	7.87	121	17.87	8.97	<0.5	<0.5	0.8	0.5	0.5	0.7	1.7	1.1	0.3	48.6	<5	12.0	62.0	576	112.5	8.3
KA3	20	7.83	124	17.85	8.46	<0.5	<0.5	0.8	0.9	0.1	0.8	1.8	0.4	0.3	38.3	<5	13.7	52.7	528	142.0	9.4
KA4	30	7.71	122	15.58	8.52	<0.5	<0.5	0.5	1.0	0.0	0.9	1.9	3.1	0.1	27.8	<5	10.9	41.9	526	110.0	9.1
KA5	40	7.58	121	12.38	8.72	<0.5	<0.5	0.6	1.7	1.3	0.8	3.8	1.8	0.8	36.4	<5	14.6	53.6	459	107.0	6.7
KA6	50	7.38	121	11.72	8.48	<0.5	<0.5	0.5	1.9	2.1	0.6	4.6	0.2	3.4	29.4	<5	10.2	43.2	417	75.1	6.1
KA7	60	7.36	122	11.48	8.20	<0.5	<0.5	0.4	3.5	0.5	0.8	4.8	0.6	5.3	32.1	<5	9.6	47.6	353	84.9	6.7
KA8	70	7.31	122	11.34	7.84	<0.5	<0.5	0.3	3.5	1.5	0.7	5.7	0.9	10.8	42.3	<5	10.7	64.7	481	85.4	6.8
KA9	80	7.25	122	11.27	7.71	<0.5	<0.5	0.2	4.2	0.8	1.2	6.2	0.4	14.7	82.9	<5	9.5	107.5	347	97.5	4.9
KA10	90	7.19	122	11.20	7.57	<0.5	<0.5	0.1	5.1	0.0	0.7	5.8	0.3	19.8	43.9	<5	10.2	74.2	370	107.0	5.4
KA11	100	7.18	122	11.17	7.45	<0.5	<0.5	0.1	4.6	0.6	0.6	5.2	0.6	21.2	30.2	<5	8.6	60.6	412	59.8	4.0
KA12	110	7.12	123	11.14	7.29	<0.5	<0.5	<0.1	5.0	1.0	0.6	6.6	0.8	28.2	26.0	<5	4.5	59.5	346	44.6	3.3
KA13	120	7.07	123	11.15	7.29	0.6	<0.5	<0.1	7.4	0.0	0.8	8.2	0.1	30.2	29.7	<5	7.9	67.9	373	85.8	5.8
KA14	130	7.28	123	11.12	7.18	<0.5	<0.5	<0.1	5.6	1.4	0.8	7.8	1.1	29.5	26.4	<5	9.0	66.0	395	89.1	4.4
KA15	140	7.12	123	11.11	7.13	<0.5	<0.5	<0.1	8.4	1.6	1.5	11.5	1.1	36.8	27.1	<5	8.5	73.5	393	72.6	4.1
KA16	150	7.11	123	11.11	6.72	<0.5	<0.5	<0.1	8.3	0.7	1.5	10.5	0.4	36.4	27.2	<5	7.2	71.2	379	98.8	4.1

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database

2006-2007

Started 27 October 1994

Collection date 1 November 2006

Secchi depth = 14.5 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor _a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
HW1	1	7.79	118	12.43	10.2	0.5	<0.5	0.5	1.2	0.0	1.7	2.9	0.1	1.0	75.9		13.6	90.6	413	168.0	15.4
HW2	10	7.77	119	12.27	10.1	0.8	<0.5	0.6	1.0	0.0	1.9	2.9	0.0	0.1	61.9		13.8	75.8	419	187.0	13.8
HW3	20	7.77	120	12.25	10.1	0.7	<0.5	0.7	0.9	1.1	2.3	4.3	0.0	0.1	32.9		17.8	50.8	373	209.5	17.4
HW4	30	7.81	119	12.20	10.1	0.8	<0.5	0.6	1.0	0.0	2.7	3.7	0.3	0.0	38.7		22.3	61.3	456	215.5	18.1
HW5	40	7.78	119	12.10	10.1	0.9	<0.5	0.6	1.1	0.9	2.2	4.2	0.0	0.1	30.9		17.9	48.9	368	227.5	19.8
HW6	50	7.74	119	11.96	10.0	0.6	<0.5	0.7	1.2	0.0	1.9	3.1	0.0	0.2	29.8		14.0	44.0	468	169.0	13.9
HW7	60	7.67	120	11.34	9.7	0.7	<0.5	1.1	1.5	0.0	1.8	3.3	0.6	0.1	31.3		13.9	45.9	411	123.5	13.5
HW8	70	7.64	119	11.17	9.5	<0.5	<0.5	1.3	1.2	1.8	2.0	5.0	0.5	0.1	29.4		14.5	44.5	378	98.0	12.3
HW9	80	7.57	119	11.06	9.4	0.7	<0.5	1.3	1.3	0.7	2.2	4.2	2.5	1.8	27.7		14.1	46.1	330	91.5	11.2
HW10	90	7.56	119	10.99	9.3	<0.5	<0.5	1.3	1.2	0.8	2.2	4.2	2.7	2.3	52.0		14.4	71.4	352	122.5	15.3
HW11	100	7.56	119	10.94	9.3	0.5	<0.5	1.1	1.4	0.0	2.3	3.7	2.9	3.1	43.0		13.4	62.4	378	105.5	13.2
HW12	110	7.50	121	10.91	9.2	<0.5	<0.5	0.9	1.8	0.0	2.3	4.1	3.7	4.6	73.7		14.3	96.3	382	106.5	12.8
HW13	120	7.50	119	10.88	9.1	<0.5	<0.5	0.7	1.8	2.2	2.2	6.2	3.7	5.8	52.5		11.5	73.5	421	87.5	11.5
HW14	130	7.57	120	10.85	9.0	<0.5	<0.5	0.9	1.8	2.2	2.2	6.2	3.3	4.4	38.3		12.0	58.0	354	84.5	11.6
HW15	140	7.50	119	10.84	8.9	0.6	<0.5	0.8	1.4	0.6	2.3	4.3	3.0	4.5	43.5		13.4	64.4	428	110.5	12.9
HW16	150	7.49	120	10.84	8.7	<0.5	<0.5	0.7	2.0	3.0	2.4	7.4	4.7	7.6	52.7		12.8	77.8	368	98.0	10.7

Collection date 3 April 2007

Secchi depth = 19.0 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor _a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
HW17	1	7.94	119	18.04	9.4	<0.5	<0.5	0.7	1.6	2.4	1.4	5.4	4.7	0.9	62.4		14.9	82.9	567	122.0	18.4
HW18	10	8.09	119	18.03	9.5	<0.5	<0.5	0.8	1.1	3.9	1.8	6.8	0.0	0.1	59.9		14.9	74.9	522	317.5	19.2
HW19	20	8.09	119	17.94	9.4	<0.5	<0.5	0.8	1.2	2.8	1.6	5.6	0.0	0.2	65.8		14.8	80.8	498	177.5	16.8
HW20	30	7.95	119	16.72	9.3	<0.5	<0.5	1.2	1.0	4.0	2.0	7.0	0.0	0.1	63.9		17.5	81.5	481	133.0	19.6
HW21	40	7.73	119	13.50	8.9	<0.5	<0.5	1.2	1.8	2.2	1.6	5.6	0.0	0.3	55.7		12.3	68.3	444	76.4	12.1
HW22	50	7.62	120	12.33	8.9	<0.5	<0.5	0.8	1.5	4.5	1.3	7.3	0.1	0.8	53.2		9.0	63.1	419	68.1	10.1
HW23	60	7.54	119	11.65	8.8	<0.5	<0.5	0.7	1.2	3.8	1.5	6.5	0.1	3.4	51.5		7.7	62.7	393	49.9	6.3
HW24	70	7.48	120	11.28	8.8	<0.5	<0.5	0.9	2.0	2.0	1.3	5.3	0.0	9.7	70.2		6.4	86.3	434	68.3	8.6
HW25	80	7.43	115	11.22	8.5	<0.5	<0.5	0.6	2.0	3.0	1.2	6.2	0.0	14.6	52.4		6.4	73.4	436	58.0	8.3
HW26	90	7.39	121	11.11	8.5	<0.5	<0.5	0.3	1.7	3.3	1.0	6.0	0.1	16.3	54.7		7.1	78.2	460	62.7	8.4
HW27	100	7.35	121	11.10	8.2	<0.5	<0.5	0.3	2.5	1.5	1.1	5.1	0.0	19.4	50.5		7.0	76.9	469	48.9	6.7
HW28	110	7.31	121	11.04	8.2	<0.5	<0.5	0.2	2.7	2.3	0.9	5.9	1.5	20.9	47.1		5.9	75.4	437	40.4	7.5
HW29	120	7.32	120	11.04	8.0	<0.5	<0.5	0.2	3.0	2.0	0.9	5.9	0.0	23.8	57.7		4.9	86.4	452	48.5	7.8
HW30	130	7.73	121	11.01	8.1	<0.5	<0.5	0.2	2.7	3.3	0.9	6.9	0.0	24.8	51.2		3.8	79.8	389	42.7	6.7
HW31	140	7.30	118	11.00	7.7	<0.5	<0.5	0.2	3.7	2.3	1.3	7.3	0.0	24.6	47.4		3.8	75.8	413	43.2	6.4
HW32	150	7.25	121	10.99	7.4	<0.5	<0.5	0.2	4.5	3.5	1.6	9.6	0.0	30.5	50.5		6.1	87.1	439	51.7	9.5

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database

2005-2006

Started 27 October 1994

Collection date 25 October 2005

		Secchi depth = 15.0 m																			
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_α	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		mS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
QD1	1	7.81	119	13.40	10.1	<0.5	<0.5	0.4	1.0	3.0	1.3	5.3	0.6	0.3	51.1	4	8.5	60.5	613	132.5	11.0
QD2	10	7.88	119	12.88	10.0	<0.5	<0.5	0.5	0.7	2.3	1.9	4.9	0.1	0.0	52.9	3	12.8	65.8	623	169.0	13.5
QD3	20	7.74	119	12.17	10.1	0.6	<0.5	0.7	0.6	2.4	2.7	5.7	0.4	0.2	43.4	2	17.0	61.0	625	216.5	20.0
QD4	30	7.77	118	11.65	9.9	0.7	<0.5	0.6	0.6	5.4	2.6	8.6	0.7	0.0	57.3	2	17.3	75.3	566	212.0	16.0
QD5	40	7.68	119	11.49	9.8	<0.5	<0.5	0.9	0.6	3.4	3.1	7.1	0.0	0.2	49.8	2	22.2	72.2	581	229.5	20.5
QD6	50	7.59	119	11.29	9.5	<0.5	<0.5	1.4	0.8	1.2	2.2	4.2	1.4	0.1	35.5	2	15.9	52.9	599	172.5	14.0
QD7	60	7.46	120	11.18	9.2	0.7	<0.5	0.7	1.7	2.3	1.6	5.6	1.7	9.6	41.7	2	9.8	62.8	503	103.5	6.5
QD8	70	7.37	120	11.07	9.0	0.5	<0.5	0.8	1.9	2.1	1.5	5.5	1.6	12.8	56.6	2	9.2	80.2	482	101.5	6.0
QD9	80	7.35	120	11.01	8.8	0.6	<0.5	0.6	2.5	1.5	1.4	5.4	0.6	15.3	30.1	13	9.0	55.0	521	86.5	6.0
QD10	90	7.36	121	10.97	8.8	0.7	<0.5	0.4	2.8	1.2	1.4	5.4	0.3	17.1	47.6	2	7.3	72.3	478	62.5	4.0
QD11	100	7.29	121	10.97	8.6	<0.5	<0.5	0.5	2.8	1.2	1.4	5.4	0.4	17.4	39.2	2	7.8	64.8	476	77.5	4.5
QD12	110	7.34	120	10.94	8.5	<0.5	<0.5	0.5	3.0	1.0	1.3	5.3	1.5	18.7	48.8	2	7.4	76.4	462	92.5	3.0
QD13	120	7.29	121	10.94	8.5	<0.5	<0.5	0.5	2.8	2.2	1.2	6.2	0.8	20.4	42.8	2	6.2	70.2	549		5.0
QD14	130	7.32	120	10.93	8.4	<0.5	<0.5	0.5	2.7	1.3	1.3	5.3	0.1	20.3	35.6	3	5.9	61.9	504	69.5	6.0
QD15	140	7.34	121	10.93	8.4	<0.5	<0.5	0.6	3.0	2.0	1.4	6.4	1.4	20.9	34.7	1	7.8	64.8	352	77.5	6.5
QD16	150	7.26	120	10.92	8.2	<0.5	<0.5	0.5	3.8	1.2	1.5	6.5	0.9	23.5	29.6	3	7.1	61.1	533	66.0	6.0

Collection date 12 April 2006

		Secchi depth = 15.8 m																			
Code	Depth	pH	EC @25oC	Temp	DO	SS	VSS	Chlor_α	DRP	DOP	PP	TP	NH ₄ -N	NO ₃ -N	DON	UREA	PN*	TN	DOC	PC	PN**
	m		mS cm ⁻¹	°C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³
ZD1	1	7.9	119	16.72	9.6	<0.5	<0.5	1.2	1.1	0.9	1.9	3.9	0.0	0.2	50.8	2	19.2	70.2		213.5	19.0
ZD2	10	7.9	118	16.72	9.2	<0.5	<0.5	1.3	0.8	1.2	1.6	3.6	0.0	0.0	38.0	2	16.6	54.6		196.0	13.5
ZD3	20	7.9	116	16.72	9.0	0.5	<0.5	1.1	0.7	0.3	1.3	2.3	0.0	0.0	42.0	<1	15.65	57.7		235.0	15.5
ZD4	30	7.88	120	16.71	9.4	<0.5	<0.5	1.2	0.6	1.4	1.6	3.6	0.1	0.0	50.9	<1	15.45	66.5		172.0	13.5
ZD5	40	7.9	116	16.64	9.2	0.8	0.7	1.3	0.5	1.5	1.55	3.6	0.0	0.0	41.0	2	15.45	56.5		224.5	13.0
ZD6	50	7.6	119	12.11	8.7	<0.5	<0.5	1.0	0.7	2.3	1.2	4.2	0.0	0.1	33.9	8	11.4	45.4		133.0	8.5
ZD7	60	7.43	121	11.52	8.5	<0.5	<0.5	1.0	0.7	2.3	1.05	4.1	0.0	0.5	44.5	2	9.15	54.2		171.5	8.0
ZD8	70	7.49	121	11.31	8.3	<0.5	<0.5	0.9	0.7	2.3	1.15	4.2	0.0	0.7	37.3	6	9.55	47.6		130.5	9.0
ZD9	80	7.9	120	11.18	8.3	<0.5	<0.5	1.1	0.5	2.5	1.4	4.4	0.3	0.0	50.7	5	16.1	67.1		182.0	12.5
ZD10	90	7.31	122	11.11	8.1	<0.5	<0.5	0.2	3.0	1	0.45	4.5	0.0	23.0	28.0	2	4.1	55.1		62.5	6.0
ZD11	100	7.31	122	11.08	8.1	<0.5	<0.5	0.3	3.2	0.8	0.5	4.5	0.1	22.8	24.1	<1	4.95	52.0		68.5	6.5
ZD12	110	7.91	119	11.05	8.0	0.7	0.5	1.1	3.2	1.8	1.5	6.5	0.1	22.2	25.7	3	16.5	64.5		196.0	15.0
ZD13	120	7.42	122	11.03	7.9	<0.5	<0.5	0.3	3.1	1.9	0.5	5.5	0.0	21.6	27.4	<1	5.2	54.2		86.5	7.0
ZD14	130	7.5	121	11.02	7.7	<0.5	<0.5	0.3	3.0	2	0.55	5.6	0.0	19.9	32.1	2	5.45	57.5		69.5	6.5
ZD15	140	7.3	119	11.02	7.3	<0.5	<0.5	0.2	3.4	1.6	0.55	5.6	0.0	23.1	31.9	2	6.5	61.5		87.0	7.5
ZD16	150	7.24	122	11.02	7.2	<0.5	<0.5	0.3	2.9	1.1	0.55	4.6	0.2	21.0	28.8	5	5.85	55.9		77.5	7.0

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database

2004-2005

Started 27 October 1994

Collection date 21 October 2004

Secchi depth = 15.0 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
VZ1	1	7.88	122	11.75	10.4	0.6	0.5	0.6	1.3	2.7	1.6	5.6	0.1	0.4	39.5	19	9.7	49.7	500	110.0	8
VZ2	10	7.82	120	11.61	10.2	0.8	0.6	0.8	1.1	2.9	2.0	6.0	0.2	0.1	35.7	24	12.8	48.8	447	157.0	8.5
VZ3	20	7.87	120	11.59	10.1	0.9	0.7	0.8	1.0	3.0	1.9	5.9	0.0	0.0	33.0	16	11.3	44.3	440	153.0	8.5
VZ4	30	7.91	123	11.59	10.2	1.5	1.0	0.7	1.0	2.0	1.9	4.9	0.0	0.0	34.0	15	11.3	45.3	490	157.5	8
VZ5	40	7.82	117	11.58	10.1	1.1	0.6	0.7	1.4	3.6	2.0	7.0	0.2	0.1	33.7	7	11.2	45.2	445	155.0	10
VZ6	50	7.83	120	11.58	9.9	1.1	0.7	0.9	1.0	4.0	2.1	7.1	0.0	0.1	33.9	9	13.2	47.2	494	197.5	15
VZ7	60	7.79	119	11.15	9.9	1.1	0.7	1.0	1.6	2.4	2.3	6.3	0.5	0.4	34.1	11	26.0	61.0	585	167.0	16
VZ8	70	7.66	118	10.79	9.7	0.7	0.5	1.0	1.9	1.1	1.9	4.9	2.4	0.8	40.8	21	11.5	55.5	468	114.0	11.5
VZ9	80	7.63	118	10.74	9.6	0.6	<0.5	0.9	2.0	1.0	1.7	4.7	2.8	1.3	47.9	16	8.9	60.9	440	103.0	9.5
VZ10	90	7.61	119	10.72	9.5	0.6	<0.5	0.7	2.0	2.0	1.6	5.6	3.9	2.2	28.9	9	9.1	44.1	633	100.5	10
VZ11	100	7.53	118	10.70	9.4	0.7	0.5	0.7	2.3	1.7	1.5	5.5	5.1	3.6	34.3	7	9.0	52.0	570	93.0	10
VZ12	110	7.56	119	10.68	9.4	0.5	<0.5	0.7	2.0	5.0	1.6	8.6	5.3	2.8	28.9	9	9.2	46.2	514	101.5	9
VZ13	120	7.49	119	10.66	9.3	0.5	<0.5	0.7	2.1	1.9	1.5	5.5	5.3	3.9	35.8	6	8.5	53.5	391	91.5	11
VZ14	130	7.48	118	10.65	9.3	<0.5	<0.5	0.6	2.5	1.5	1.6	5.6	5.8	5.3	34.9	5	8.6	54.6	366	73.5	8.5
VZ15	140	7.58	118	10.61	9.2	<0.5	<0.5	0.6	2.9	1.1	1.6	5.6	5.9	7.3	33.8	13	9.1	56.1	491	93.5	10.5
VZ16	150	7.58	119	10.56	9.1	<0.5	<0.5	0.6	2.4	1.6	1.5	5.5	4.5	3.3	35.2	21	8.7	51.7	464	78.0	9

Collection date 14 April 2005

Secchi depth = 17.2 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
GC1	1	7.85	119	17.92	9.1	0.4	0.4	0.7	0.8	1.2	1.9	3.9	1.2	0.2	64.6	7	15.1	81.1	690	176.0	19.0
GC2	10	7.86	118	17.96	9.0	0.3	0.4	0.9	0.8	2.2	1.9	4.9	0.0	0.0	46	3	14.1	60.1	580	199.5	19.0
GC3	20	7.9	119	17.95	9.0	0.3	0.3	0.9	0.8	2.2	2.0	5.0	0.0	0.1	55.9	1	14.5	70.5	580	179.0	17.0
GC4	30	7.82	118	15.13	8.4	0.3	0.3	0.9	0.8	2.2	1.8	4.8	0.0	0.3	49.7	2	12.8	62.8	570	176.5	17.0
GC5	40	7.58	121	12.92	8.7	0.2	0.2	0.8	2.3	0.7	1.2	4.2	0.3	0.6	31.1	2	8.9	40.9	510	109.5	14.0
GC6	50	7.51	120	12.00	8.3	0.1	0.1	0.6	3.1	0.9	1.0	5.0	0.0	6.4	39.6	3	6.8	52.8	480	84.0	9.0
GC7	60	7.47	121	11.33	8.2	0.1	0.1	0.5	3.6	1.4	1.1	6.1	0.0	8.3	40.7	2	8.2	57.2	510	78.5	7.5
GC8	70	7.48	120	10.99	8.2	0.1	0.1	0.3	4.2	0.8	0.9	5.9	0.0	15.7	38.3	2	6.5	60.5	490	96.0	7.0
GC9	80	7.39	121	10.88	8.2	0.2	0.2	0.3	3.8	0.2	0.8	4.8	0.1	15.7	36.2	1	4.3	56.3	480	72.5	7.5
GC10	90	7.21	121	10.82	8.3	0.0	0.1	0.1	5.6	1.4	0.9	7.9	0.2	23.8	38	2	5.6	67.6	480	64.0	7.0
GC11	100	7.31	121	10.78	8.0	0.0	0.1	0.1	5.7	1.3	0.8	7.8	0.2	23.6	53.2	2	5.0	82.0	460	78.5	7.0
GC12	110	7.32	121	10.76	7.8	0.1	0.1	0.1	5.7	1.3	0.8	7.8	0.0	25.9	47.1	2	5.6	78.6	470	43.5	6.0
GC13	120	7.33	121	10.76	7.7	0.1	0.1	<0.1	6.4	1.6	0.8	8.8	0.3	26.8	37.9	1	4.9	69.9	450	56.0	6.5
GC14	130	7.33	121	10.74	7.7	0.1	0.1	<0.1	6.1	0	0.8	6.8	0.3	26.7	57	1	4.4	88.4	470	43.5	5.5
GC15	140	7.34	121	10.74	7.6	0.1	0.1	<0.1	6.6	0.4	0.9	7.9	0.2	28.8	39	2	5.8	73.8	490	54.5	6.0
GC16	150	7.36	121	10.72	7.5	0.3	0.1	0.1	7.8	0.2	1.1	9.1	0.0	32.1	51.9	1	6.9	90.9	490	46.0	7.5

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database

2003-2004

Started 27 October 1994

Collection date 19 November 2003

Secchi depth = 16.0 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
EU1	1	7.84	119	13.96	9.9	<0.5	<0.5	0.8	1.7	2.3	2.3	6.3	8.0	0.8	42.2	1	14.8	65.8	476	90.5	10.5
EU2	10	7.84	120	13.79	9.9	<0.5	<0.5	0.9	1.6	1.4	2.5	5.5	0.3	0.3	52.4	1	14.4	67.4	461	147.5	15.0
EU3	20	7.83	120	13.78	9.8	<0.5	<0.5	0.7	1.8	1.2	3.4	6.4	0.4	0.1	46.5	1	19.4	66.4	466	151.0	20.5
EU4	30	7.84	120	13.70	9.5	<0.5	<0.5	0.9	1.8	2.2	3.8	7.8	0.4	0.3	42.3	1	26.3	69.3	450	133.0	18.5
EU5	40	7.69	120	12.30	9.3	<0.5	<0.5	1.5	2.6	1.4	3.3	7.3	0.7	0.2	35.1	1	20.6	56.6	437	133.0	17.0
EU6	50	7.63	121	11.35	9.0	<0.5	<0.5	1.2	2.8	1.2	1.9	5.9	0.4	0.5	37.1	1	11.9	49.9	470	92.5	11.0
EU7	60	7.58	121	11.28	8.9	<0.5	<0.5	0.7	3.3	0.7	1.5	5.5	1.0	3.2	27.8	2	9.6	41.6	503	69.5	8.0
EU8	70	7.59	121	11.23	8.7	<0.5	<0.5	0.6	3.5	0.5	1.1	5.1	3.4	4.8	25.8	1	6.2	40.2	465	47.0	<6
EU9	80	7.6	121	11.19	8.6	<0.5	<0.5	0.5	3.6	0.4	1.1	5.1	0.6	5.9	29.5	2	5.1	41.1	430	65.0	<6
EU10	90	7.57	121	11.16	8.6	<0.5	<0.5	0.5	3.9	0.1	1.2	5.2	1.0	7.0	27	3	6.4	41.4	391	39.5	<6
EU11	100	7.59	121	11.15	8.6	<0.5	0.7	0.4	4.1	0.9	1.2	6.2	0.8	7.8	33.4	2	4.0	46.0	405	46.5	<6
EU12	110	7.6	121	11.12	8.4	<0.5	<0.5	0.4	4.1	0.9	1.1	6.1	1.1	11.8	29.1	3	3.4	45.4	428	45.5	<6
EU13	120	7.57	120	11.11	8.4	<0.5	<0.5	0.4	4.6	0.4	1.2	6.2	0.7	13.6	32.7	2	3.0	50.0	439	37.0	<6
EU14	130	7.53	121	11.09	8.3	<0.5	<0.5	0.3	5.1	0.4	1.2	6.7	0.8	16.1	32.7	3	3.7	53.3	408	33.0	<6
EU15	140	7.57	121	11.09	8.2	<0.5	<0.5	0.3	5.3	0.7	1.2	7.2	0.4	18.1	32.5	3	5.1	56.1	440	54.5	<6
EU16	150	7.54	120	11.09	8.0	0.5	<0.5	0.5	5.6	1.4	1.5	8.5	2.4	20.7	32.9	4	6.4	62.4	481	44.0	<6

Collection date 31 March 2004

Secchi depth = 16.0 m

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
MB1	1	7.86	118	16.49	9.2	<0.5	<0.5	0.7	0.9	4.1	1.4	6.4	1	0	69	-	9.7	79.7	622	91.0	-
MB2	10	7.83	118	16.29	9.1	<0.5	<0.5	1.2	0.5	3.5	2.0	6.0	0	0	47	-	12.4	59.4	548	141.5	17.0
MB3	20	7.83	118	16.23	9.0	<0.5	<0.5	1.1	0.6	3.4	2.1	6.1	1	0.2	47.8	-	14.8	63.8	561	140.5	17.0
MB4	30	7.83	118	16.19	9.0	<0.5	<0.5	1.1	0.8	3.2	1.9	5.9	1	0.2	50.8	-	13.5	65.5	749	131.5	15.5
MB5	40	7.66	118	16.15	8.9	<0.5	<0.5	0.9	1.5	1.5	1.9	4.9	1	2.8	71.2	-	11.6	86.6	560	114.5	14.0
MB6	50	7.46	120	12.51	8.2	<0.5	<0.5	0.5	3.3	2.7	1.5	7.5	1	12.1	58.9	-	7.2	79.2	467	109.0	7.5
MB7	60	7.41	121	11.59	8.0	<0.5	<0.5	0.3	4.7	2.3	1.0	8.0	1	18.0	41	-	4.2	64.2	394	54.5	7.0
MB8	70	7.36	121	11.40	8.0	<0.5	<0.5	0.2	4.5	1.5	0.8	6.8	1	19.1	36.9	-	3.7	60.7	404	45.0	<4
MB9	80	7.42	121	11.34	8.0	<0.5	<0.5	0.2	5.0	1.0	0.8	6.8	1	20.2	31.8	-	5.3	58.3	464	41.0	<4
MB10	90	7.36	121	11.30	7.9	<0.5	<0.5	0.1	5.2	1.8	0.7	7.7	3	22.1	35.9	-	3.9	64.9	453	52.0	<4
MB11	100	7.31	122	11.27	7.8	<0.5	<0.5	0.1	5.6	2.4	0.8	8.8	2	23.9	38.1	-	3.0	67.0	477	36.5	<4
MB12	110	7.29	122	11.26	7.7	<0.5	<0.5	<0.1	5.8	2.2	1.0	9.0	1	25.0	30	-	6.2	62.2	392	36.5	5.5
MB13	120	7.31	121	11.24	7.6	<0.5	<0.5	0.1	5.9	3.1	0.8	9.8	1	25.0	59	-	3.6	88.6	373	53.5	<4
MB14	130	7.3	121	11.22	7.5	<0.5	<0.5	<0.1	6.3	2.7	0.9	9.9	0	27.0	35	-	3.3	65.3	393	61.0	<4
MB15	140	7.3	121	11.21	7.4	<0.5	<0.5	<0.1	6.6	3.4	0.8	10.8	0	27.8	46.2	-	3.3	77.3	356	35.0	<4
MB16	150	7.31	120	11.21	7.1	<0.5	<0.5	0.1	7.2	2.8	1.0	11.0	0	30.1	48.9	-	4.0	83.0	394	34.0	<4

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient

2002-2003

Started 27 October 1994

Collection date 13 November 2002

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	Secchi depth = 18.0 m															
						SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
NZ1	1	7.87	122	12.58	10.2	0.6	<0.5	0.6	1.3	1.7	2.2	5.2	0.8	0.6	65.6	2	15.3	82.3	620	160.0	12.5
NZ2	10	7.86	120	12.58	10.3	0.5	<0.5	0.7	1.2	1.8	2.1	5.1	0.7	0.0	49.3	1	13.7	63.7	573	180.5	13.5
NZ3	20	7.93	120	12.49	10.2	1.0	<0.5	0.7	1.1	1.9	2.2	5.2	0.5	0.1	61.4	1	15.8	77.8	536	157.5	12.0
NZ4	30	7.85	121	12.38	10.2	<0.5	<0.5	0.8	0.9	3.1	2.6	6.6	0.7	0.5	74.8	2	17.7	93.7	657	242.0	14.0
NZ5	40	7.81	119	12.16	10.1	<0.5	<0.5	0.7	1.2	1.8	1.9	4.9	0.6	0.7	58.7	1	12.9	72.9	506	164.5	8.0
NZ6	50	7.83	120	12.00	10.1	<0.5	<0.5	0.7	1.6	1.4	1.7	4.7	1.6	0.0	55.4	1	11.5	68.5	505	170.0	9.5
NZ7	60	7.78	119	11.81	10.0	<0.5	<0.5	0.6	1.5	1.5	1.5	4.5	1.2	0.0	64.8	2	9.5	75.5	531	108.5	6.5
NZ8	70	7.72	120	11.51	9.9	<0.5	<0.5	0.6	2.8	1.2	1.3	5.3	3.4	2.2	42.4	7	7.1	55.1	514	53.5	5.0
NZ9	80	7.67	120	11.32	9.7	<0.5	<0.5	0.4	2.7	1.3	1.1	5.1	3.3	0.9	38.8	2	5.9	48.9	578	61.0	4.5
NZ10	90	7.77	121	11.13	9.6	<0.5	<0.5	0.4	2.8	1.2	1.0	5.0	3.7	0.4	44.9	4	6.6	55.6	487	41.0	<2
NZ11	100	7.53	122	11.08	9.4	<0.5	<0.5	0.2	3.0	2.0	0.8	5.8	4.2	3.7	65.1	5	6.1	79.1	525	31.0	<2
NZ12	110	7.64	121	11.05	9.4	<0.5	<0.5	0.1	3.3	1.7	0.7	5.7	3.4	5.4	57.2	4	4.4	70.4	472	38.0	<2
NZ13	120	7.55	122	11.01	9.3	<0.5	<0.5	0.2	3.6	0.4	1.0	5.0	3.0	7.0	51.0	6	5.9	66.9	473	64.5	4.0
NZ14	130	7.32	123	10.99	9.2	<0.5	<0.5	0.1	3.6	0.4	1.0	5.0	2.9	7.5	45.6	5	6.7	62.7	555	70.5	3.5
NZ15	140	7.47	121	10.97	9.1	0.5	<0.5	0.1	3.7	1.3	0.9	5.9	2.5	10.5	60.0	16	6.7	79.7	460	54.5	3.0
NZ16	150	7.46	121	10.96	9.0	<0.5	<0.5	0.2	4.3	1.7	1.0	7.0	0.5	12.9	58.6	4	6.4	78.4	461	52.5	3.0

Collection date 3 April 2003

Code	Depth m	pH	EC @25oC mS cm ⁻¹	Temp °C	DO g m ⁻³	Secchi depth = 13.5 m															
						SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
UJ1	1	8.01	119	19.20	8.8	3.0	0.5	0.7	0.8	3.2	1.8	5.8	5	0.4	75.6	5	18.8	99.8	546	219.0	19.5
UJ2	10	8.07	146	18.71	8.8	0.7	1.0	1.4	0.9	4.1	2.5	7.5	<1	0.6	45.4	1	24.0	70.0	511	304.5	29.0
UJ3	20	8.15	120	18.60	8.6	1.0	0.7	1.3	0.6	3.4	2.3	6.3	<1	0.6	40.4	1	23.7	64.7	520	270.0	31.5
UJ4	30	7.93	119	16.93	8.3	<0.5	<0.5	1.5	0.8	3.2	1.8	5.8	<1	0.3	39.7	1	20.4	60.4	503	181.0	39.0
UJ5	40	7.66	118	13.31	8.0	<0.5	<0.5	1.3	1.7	3.3	1.7	6.7	<1	0.8	39.2	1	12.2	52.2	443	115.0	54.0
UJ6	50	7.61	122	12.39	7.9	<0.5	1.0	0.7	2.9	2.1	1.3	6.3	<1	4.8	35.2	3	8.6	48.6	410	92.5	5.5
UJ7	60	7.57	138	11.80	7.7	<0.5	<0.5	0.5	3.9	2.1	1.1	7.1	<1	10.7	32.3	1	5.9	48.9	366	86.5	4.5
UJ8	70	7.42	121	11.50	7.6	<0.5	<0.5	0.2	4.4	1.6	0.9	6.9	<1	16.3	27.7	1	6.1	50.1	404	109.5	4.0
UJ9	80	7.39	121	11.32	7.5	<0.5	<0.5	0.1	4.5	1.5	1.0	7.0	<1	19.3	41.7	1	6.2	67.2	365	37.0	4.0
UJ10	90	7.32	121	11.20	7.3	<0.5	<0.5	0.1	4.7	1.3	0.8	6.8	<1	21.9	24.1	2	4.5	50.5	360	40.0	<4
UJ11	100	7.29	121	11.19	7.3	<0.5	<0.5	<0.1	5.3	2.7	0.9	8.9	<1	23.9	27.1	2	4.6	55.6	387	92.5	<4
UJ12	110	7.26	120	11.12	7.2	<0.5	<0.5	<0.1	5.5	0.5	0.7	6.7	<1	25.2	30.8	1	2.9	58.9	366	28.5	<4
UJ13	120	7.33	122	11.11	7.0	<0.5	<0.5	<0.1	6.6	0.4	0.7	7.7	<1	28.8	36.2	5	2.5	67.5	409	40.0	<4
UJ14	130	7.27	123	11.09	6.9	<0.5	<0.5	<0.1	7.7	0.3	0.9	8.9	<1	30.9	29.1	3	3.2	63.2	382	15.5	<4
UJ15	140	7.28	122	11.10	6.8	<0.5	<0.5	<0.1	7.6	0.4	0.8	8.8	<1	30.4	47.6	4	4.3	82.3	384	47.5	<4
UJ16	150	7.29	122	11.09	6.5	<0.5	<0.5	<0.1	9.0	5.0	1.6	15.6	<1	36.4	30.6	2	6.5	73.5	371	38.5	<4

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given as a better indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N below nominal detection limit.

Lake Taupo biannual nutrient database

2001-2002

Started 27 October 1994

Collection date 12 November 2001

Secchi depth = 15.5 m

Code	Depth m	pH	EC @25oC µS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH4-N mg m ⁻³	NO3-N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
XH1	1	7.85	122	14.23	9.5	0.5	<0.5	0.6	0.9	1.1	1.55	3.6	<1	<0.5	29	2	6	35	500	146.5	12.0
XH2	10	7.86	122	14.16	9.8	0.5	<0.5	0.7	1.1	0.9	4.3	6.3	<1	<0.5	32	2	16.5	49	520	212.0	31.3
XH3	20	7.82	119	13.37	9.4	<0.5	<0.5	1.0	1.1	<0.5	3.5	4.6	<1	<0.5	28	1	20	48	510	340.5	26.8
XH4	30	7.6	116	12.85	9.4	0.6	0.7	1.3	1.6	<0.5	3.1	4.7	<1	1.0	29	1	14.5	45	480	264.5	24.7
XH5	40	7.44	122	11.87	8.9	<0.5	<0.5	1.3	2.2	<0.5	2.8	5.0	1	2.5	25.5	2	11.5	41	470	200.5	21.7
XH6	50	7.46	121	11.57	9.0	<0.5	<0.5	0.9	2.6	<0.5	1.75	4.4	<1	7.2	26.8	2	6	40	470	136.5	12.6
XH7	60	7.41	121	11.24	8.7	1.3	1.2	0.7	2.6	<0.5	1.4	4.0	<1	8.0	24	2	<2	32	440	104.5	9.1
XH8	70	7.4	122	11.13	8.8	<0.5	<0.5	0.5	2.9	<0.5	1.15	4.1	<1	12.3	21.7	2	<2	34	450	142.0	7.2
XH9	80	7.38	122	11.03	8.6	<0.5	<0.5	0.4	3.2	<0.5	1.15	4.4	<1	13.6	29.4	4	<2	43	440	103.0	8.1
XH10	90	7.4	119	11.01	8.8	<0.5	<0.5	0.4	3.2	<0.5	1.05	4.3	<1	15.1	21.9	2	<2	37	420	79.0	6.2
XH11	100	7.35	120	10.99	8.6	<0.5	<0.5	0.3	3.8	<0.5	1.05	4.9	<1	17.8	25.2	2	4	47	460	98.0	6.6
XH12	110	7.36	122	10.97	8.6	<0.5	<0.5	0.3	4.0	<0.5	1.1	5.1	<1	19.5	24.5	2	<2	44	490	116.5	5.8
XH13	120	7.35	126	10.95	8.4	<0.5	<0.5	0.3	4.5	<0.5	1.3	5.8	<1	22.0	22	2	<2	44	490	93.5	5.6
XH14	130	7.38	127	10.94	8.4	<0.5	<0.5	0.3	4.4	<0.5	1.1	5.5	<1	21.1	21.9	2	<2	43	420	113.5	5.5
XH15	140	7.34	126	10.94	8.2	<0.5	<0.5	0.3	5.2	<0.5	1.3	6.5	<1	24.7	25.3	2	<2	50	440	93.5	7.3
XH16	150	7.38	127	10.94	8.1	1.3	0.6	0.3	5.3	<0.5	1.3	6.6	<1	25.2	26.8	3	<2	52	480	83.5	7.7

Collection date 4 April 2002

Secchi depth = 19.0 m

Code	Depth m	pH	EC @25oC µS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH4-N mg m ⁻³	NO3-N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
EJ1	1	7.91	119	17.45	8.8	<0.5	<0.5	0.72	0.5	0.5	1	2.0	1.1	0.3	44.6		7.85	53.9	0.5	187.0	10.0
EJ2	10	7.94	118	17.38	8.9	<0.5	<0.5	0.96	0.6	1.4	1.4	3.4	0.2	0.1	44.7		9.4	54.4	0.6	164.5	10.5
EJ3	20	7.88	119	17.18	8.8	<0.5	<0.5	1.02	0.5	1.5	1.35	3.4	<0.3	0.0	38.7		9.45	48.5	0.8	154.5	11.0
EJ4	30	7.85	119	16.83	8.7	<0.5	<0.5	0.95	0.7	2.3	1.45	4.5	0.4	0.1	40.5		8.4	49.4	0.5	136.5	10.5
EJ5	40	7.65	121	12.9	8.3	<0.5	<0.5	0.89	1.4	0.6	1.2	3.2	<0.4	0.8	32.8		7.95	42.0	0.4	100.0	8.0
EJ6	50	7.66	120	12.09	8.2	<0.5	<0.5	0.85	2.1	0.9	1.3	4.3	0.4	3.5	35.1		7.8	46.8	0.4	114.0	9.0
EJ7	60	7.60	123	11.51	8.1	<0.5	<0.5	0.50	3.9	2.1	1	7.0	0.9	12.3	30.8		5.7	49.7	0.4	75.0	6.0
EJ8	70	7.42	123	11.3	8.0	<0.5	<0.5	0.26	4.5	0.5	0.95	6.0	<0.0	20.9	30.1		5.65	56.7	0.5	49.5	4.0
EJ9	80	7.46	121	11.24	7.9	<0.5	<0.5	0.24	4.6	0.4	1.1	6.1	0.2	24.8	29		7.55	61.6	0.3	50.0	5.0
EJ10	90	7.38	121	11.19	7.8	<0.5	<0.5	0.19	5.3	<0.5	0.75	6.1	0.3	28.1	23.6		4.45	56.5	0.4	48.0	4.0
EJ11	100	7.33	121	11.17	7.8	<0.5	<0.5	0.11	5.4	0.6	0.8	6.8	0.1	28.6	30.3		5.05	64.1	0.3	76.0	5.5
EJ12	110	7.37	122	11.14	7.7	<0.5	<0.5	0.10	6.0	<0.5	0.8	6.8	0.5	31.7	23.8		6.15	62.2	0.6	67.5	7.5
EJ13	120	7.36	122	11.14	7.7	<0.5	<0.5	0.10	6.3	<0.5	0.6	6.9	0.2	32.2	24.6		3.25	60.3	0.3	46.5	4.0
EJ14	130	7.32	122	11.13	7.6	<0.5	<0.5	0.09	6.5	<0.5	0.45	7.0	0.1	32.2	26.7		0.8	59.8	0.5	48.0	5.5
EJ15	140	7.34	122	11.13	7.1	<0.5	<0.5	0.07	7.0	<0.5	0.7	7.7	1.1	34.0	29.9		4.9	69.9	0.4	44.0	4.0
EJ16	150	7.44	122	11.13	7.0	<0.5	<0.5	0.09	8.7	<0.5	0.9	9.6	0.8	36.3	24.9		4.45	66.5	0.4	75.5	4.0

NH₄, NO₃, DON, Urea all as N

* = PN by wet digestion method, ** = PN by combustion furnace method.

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

New Analytical instrument (Flow Injection Analysis) from January 2002, gives greatly improved resolution at low levels.

FIA instrument results are given for Autumn as an indication of likely absolute low levels of DRP, NO₃-N, and NH₄-N.

Lake Taupo biannual nutrient database

2000-2001

Started 27 October 1994

Collection date 26 October 2000

Code	Depth m	pH	EC @25°C µS cm ⁻¹	Temp °C	Secchi depth = 11 m				DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH4-N mg m ⁻³	NO3-N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
					DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³													
FX1	1	7.87	120	12.5	9.1	0.5	<0.5	0.4	<1	3	2	5.0	1	<1	25	4	9	35	0.5	104.5	4.0
FX2	10	7.85	120	11.5	8.7	0.8	0.5	1.1	1	4	3	8.0	<1	<1	33	2	23	56	0.5	196.0	12.0
FX3	20	7.79	120	11.4	8.7	<0.5	<0.5	1.3	<1	2	4	6.0	<1	<1	41	2	29	70	0.5	237.0	19.0
FX4	30	7.74	120	11.3	8.7	1.1	0.5	1.3	<1	2	3	5.0	<1	<1	36	1	24	60	0.5	183.0	11.0
FX5	40	7.69	119	11.3	9.1	0.9	0.5	1.5	<1	2	3	5.0	1	<1	38	2	18	57	0.5	90.5	7.0
FX6	50	7.63	120	11.3	9.1	0.8	<0.5	1.4	1	2	2	5.0	2	<1	64	2	14	80	0.4	79.5	6.0
FX7	60	7.54	120	11.3	8.7	0.9	<0.5	1.2	1	1	2	4.0	<1	<1	45	2	14	59	0.4	58.0	5.0
FX8	70	7.52	120	11.2	8.7	<0.5	<0.5	1.2	1	1	2	4.0	4	1	38	4	14	57	0.5	61.5	5.0
FX9	80	7.52	120	11.2	8.7	0.9	<0.5	1.1	2	2	2.5	6.5	5	2	44	2	13	64	0.5	44.5	<4
FX10	90	7.59	120	11.2	8.7	0.9	<0.5	1.1	2	2	2	6.0	6	3	37	2	14	60	0.5	58.5	5.5
FX11	100	7.47	120	11.1	8.7	<0.5	<0.5	1.4	1	1	3	5.0	3	4	39	4	16	62	0.4	48.5	6.0
FX12	110	7.41	121	11.1	8.7	0.9	<0.5	1.2	2	2	3	7.0	3	4	38	3	15	60	0.4	29.5	<4
FX13	120	7.40	121	11.0	8.2	0.5	<0.5	0.8	2	2	2	6.0	6	7	38	5	8	59	0.4	104.0	5.5
FX14	130	7.42	121	11.0	8.5	0.6	<0.5	0.2	2	2	2	6.0	6	7	41	4	11	65	0.4	71.0	6.5
FX15	140	7.36	121	11.0	8.6	0.8	<0.5	0.6	4	1	3	8.0	5	11	40	3	11	67	0.4	65.5	5.0
FX16	150	7.32	121	11.0	8.5	0.6	<0.5	1.4	4	2	4	10.0	8	13	47	9	18	86	0.4	110.5	8.0

Collection date 8 April 2001

Code	Depth m	pH	EC @25°C µS cm ⁻¹	Temp °C	Secchi depth = 13.5 m				DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH4-N mg m ⁻³	NO3-N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
					DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³													
NZ1	1	7.94	120	17.0	8.3	<0.5	<0.5	1.0	<1	2	2	4.0	2	1	40	7	20.0	63.0	0.6	201.0	15.5
NZ2	10	7.97	120	16.9	8.3	<0.5	<0.5	1.4	<1	1	2	3.0	<1	<1	29	1	19.0	48.0	0.6	189.0	13.0
NZ3	20	7.99	120	16.8	8.4	<0.5	<0.5	1.5	<1	1	2	3.0	<1	<1	36	1	19.0	55.0	0.6	208.5	14.5
NZ4	30	7.96	124	15.8	8.0	<0.5	<0.5	1.2	<1	2	2	4.0	1	<1	42	1	16.0	59.0	0.6	156.0	10.5
NZ5	40	7.76	120	13.1	7.8	<0.5	<0.5	1.2	<1	1	1.5	2.5	1	1	22	2	12.0	36.0	0.5	145.0	8.5
NZ6	50	7.69	119	12.4	7.5	<0.5	<0.5	1.0	2	0	1	3.0	1	2	22	2	10.0	35.0	0.5	100.0	5.5
NZ7	60	7.60	120	11.8	7.2	<0.5	<0.5	0.8	1	1	1	3.0	<1	9	16	2	7.0	32.0	0.5	82.0	<2
NZ8	70	7.57	120	11.7	7.1	<0.5	<0.5	0.4	3	0	<1	3.0	<1	19	25	2	5.5	49.5	0.4	80.5	<2
NZ9	80	7.44	121	11.5	6.9	<0.5	<0.5	0.3	3	0	<1	3.0	2	24	15	3	5.0	46.0	0.6	70.0	<2
NZ10	90	7.39	121	11.5	6.9	<0.5	<0.5	0.2	3	1	<1	4.0	2	26	14	4	4.0	46.0	0.5	57.5	<2
NZ11	100	7.38	122	11.4	6.8	<0.5	<0.5	0.2	4	0	<1	4.0	2	29	16	1	4.0	51.0	0.5	47.5	<2
NZ12	110	7.39	122	11.4	6.8	<0.5	<0.5	0.1	4	1	<1	4.0	2	31	18	4	3.5	54.5	0.5	42.5	<2
NZ13	120	7.41	121	11.3	6.7	<0.5	<0.5	0.1	5	0	<1	5.0	1	33	16	4	5.0	55.0	0.4	40.0	<2
NZ14	130	7.42	122	11.3	6.6	<0.5	<0.5	0.1	5	0	<1	5.0	1	33	20	4	5.0	59.0	0.5	42.5	<2
NZ15	140	7.34	123	11.3	6.4	<0.5	<0.5	0.1	6	1	<1	7.0	2	38	12	5	4.5	56.5	0.5	55.0	<2
NZ16	146	7.30	123	11.3	6.3	<0.5	<0.5	0.1	7	2	1	10.0	2	43	22	5	6.5	73.5	0.5	70.5	<2

NH₄, NO₃, DON, Urea all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = PN by wet digestion method, ** = PN by combustion furnace method.

Lake Taupo biannual nutrient database
Collection date 18 October 1999

1999-2000

Started 27 October 1994

Secchi depth = 14.9 m

Code	Depth m	pH	EC @25oC µS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a ⁺⁺ mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
PX1	1	7.71	119	12.8	8.9	0.5	<0.5	0.14	0.5	3	3.7	7.2	<1	<1	41	16	19.4	60.4	441	105.7	8.8
PX2	10	7.74	117	12.7	8.9	<0.5	<0.5	0.39	0.5	4	3.2	7.7	<1	<1	36	4	19.9	55.9	411	160.8	12.9
PX3	20	7.73	122	12.4	8.9	0.6	<0.5	0.80	1	2	5.5	8.5	<1	<1	34	1	37.8	71.8	437	254.7	37.3
PX4	30	7.76	120	11.6	8.9	<0.5	1.9	1.06	1	2	3.9	6.9	<1	<1	36	<1	26.7	62.7	413	198.3	24.2
PX5	40	7.57	117	11.4	8.8	<0.5	<0.5	3.14	2	2	2.4	6.4	5	<1	44	22	14.6	63.6	392	117.2	9.7
PX6	50	7.48	119	11.3	8.6	<0.5	<0.5	2.90	2.5	2	1.7	6.2	8	2	33	5	9.1	52.1	417	87.0	6.6
PX7	60	7.49	118	11.1	8.6	0.5	<0.5	1.45	3	1	1.5	5.5	7	9	36	5	12.6	64.6	449	95.0	11.1
PX8	70	7.41	117	11.1	8.6	<0.5	<0.5	0.65	3.5	1	1.5	6.0	4	15	27	9	5.6	51.6	421	49.9	4.9
PX9	80	7.39	117	11.0	8.5	<0.5	<0.5	0.75	3.5	2	1.4	6.9	4	17	31	7	5.7	57.7	398	42.7	5.7
PX10	90	7.36	118	11.0	8.6	<0.5	<0.5	0.54	4	2	1.3	7.3	3	17	29	2	5.8	54.8	393	51.2	5.7
PX11	100	7.36	118	11.0	8.6	<0.5	<0.5	0.63	4	1	1.6	6.6	4	18	30	2	7.3	59.3	492	56.1	5.8
PX12	110	7.35	118	11.0	8.6	0.5	<0.5	0.65	4	2	1.8	7.8	5	18	46	10	20.1	89.1	547	129.5	21.4
PX13	120	7.33	119	11.0	8.3	0.8	0.7	0.71	4	2	1.7	7.7	6	19	47	20	45.3	117.3	530	222.3	44.3
PX14	130	7.33	119	11.0	7.9	0.6	0.5	0.59	4	2	1.7	7.7	5	19	40	12	15.3	79.3	461	112.9	19.7
PX15	140	7.32	123	11.0	7.5	0.6	<0.5	0.90	4	1	2.3	7.3	4	19	53	12	16.5	92.5	514	84.5	9.7
PX16	150	7.29	119	11.0	7.5	1.6	<0.5	0.67	4.5	2	2.1	8.6	3	19	34	7	9.6	65.6	783	63.9	6.8

Collection date 12 April 2000

Secchi depth = 15 m

Code	Depth m	pH	EC @25oC µS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ -N mg m ⁻³	NO ₃ -N mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC mg m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
YX1	1	7.86	118	17.4	9.2	0.6		1.3	<1	4	2	6.0	6	2	72	8	16	96.0	542	255.0	31.0
YX2	10	7.88	118	17.3	9.2	1.1		1.3	<1	3	2	5.0	3	1	57	1	21	82.0	472	198.5	16.5
YX3	20	7.88	118	17.2	9.2	1.0		1.4	<1	3	2	5.0	1	<1	59	3	15.5	75.5	599	166.5	12.0
YX4	30	7.79	118	16.7	9.0	1.1		1.3	<1	3	2	5.0	1	<1	59	2	17	77.0	608	154.0	17.5
YX5	40	7.29	119	12.6	8.3	0.6		1.1	2	2	1	5.0	2	2	57	6	9.5	70.5	396	72.0	6.0
YX6	50	7.17	120	11.7	8.0	1.0		0.8	3	2	1	6.0	2	7	42	7	8.5	59.5	403	94.5	7.5
YX7	60	7.18	119	11.4	8.0	0.5		1.0	4	1	<1	5.0	1	16	44	1	4	65.0	402	48.5	<4
YX8	70	7.1	120	11.3	8.0	0.6	<0.1		6	1	<1	7.0	6	29	35	1	6.5	76.5	418	41.0	4.0
YX9	80	7.14	120	11.2	7.9	1.0	<0.1		6	1	<1	7.0	2	32	46	1	12	92.0	451	105.5	8.0
YX10	90	7.11	120	11.2	7.9	0.7	<0.1		7	<1	<1	7.0	1	35	34	2	11	81.0	428	67.5	5.0
YX11	100	7.12	125	11.2	7.7	0.7	<0.1		7	2	<1	9.0	2	37	41	1	8.5	88.5	417	68.5	<4
YX12	110	7.12	120	11.2	7.7	0.9	<0.1		7	2	<1	9.0	2	37	50	3	11	100.0	439	65.0	5.5
YX13	120	7.06	120	11.1	7.7	0.6	<0.1		8	1	<1	9.0	3	39	47	1	6.5	95.5	431	40.5	0.0
YX14	130	7.12	120	11.1	7.5	1.2	<0.1		8	1	<1	9.0	2	40	47	3	9	98.0	453	57.0	5.0
YX15	140	7.08	120	11.1	7.5	1.2	<0.1		9	<1	<1	9.0	2	42	45	2	8	97.0	415	50.5	<4
YX16	146	7.04	120	11.1	7.2	1.7		0.1	10	3	1	14.0	4	43	42	2	10	99.0	429	92.0	4.0

NH₄, NO₃, DON, Urea all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = PN by wet digestion method, ** = PN by combustion furnace method.

** = from calibrated chlorophyll fluorescence profiler (filters damaged)

Lake Taupo biannual nutrient database
Collection date 1 November 1998

1998-1999

Started 27 October 1994

Secchi depth = 13.5 m

Code	Depth m	pH	EC @25oC μS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH4-N mg m ⁻³	NO3-N mg m ⁻³	DON mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
DM1	1	7.91	118	13.6	10.4	0.8	<0.5	0.8	0.7	1.5	2.0	4.2	3.4	<0.5	35	10.8	49.2		133.5	12.0
DM2	10	7.87	117	13.2	10.7	0.8	<0.5	1.0	0.6	1.3	2.6	4.5	2.4	<0.5	36	15.2	53.6		180.5	15.0
DM3	20	7.82	118	12.7	10.7	0.5	<0.5	1.4	0.6	1.4	2.9	4.9	1.9	1.1	37	18.0	58.0		215.0	23.3
DM4	30	7.80	118	12.4	10.6	<0.5	<0.5	1.1	0.5	1.3	2.3	4.1	1.9	<0.5	34	14.1	50.0		128.0	13.5
DM5	40	7.75	118	12.4	10.4	<0.5	<0.5	0.6	0.6	1.2	1.7	3.5	2.5	<0.5	34	9.2	45.7		118.0	10.4
DM6	50	7.70	118	12.2	10.2	<0.5	<0.5	0.6	0.6	1.2	1.7	3.5	2.6	0.6	31	8.1	42.3		114.5	7.9
DM7	60	7.46	119	11.7	10.0	<0.5	<0.5	0.4	2.1	1.0	1.4	4.5	1.6	9.5	32	6.0	49.1		73.0	6.0
DM8	70	7.30	120	11.2	9.6	<0.5	<0.5	0.3	3.3	0.9	1.0	5.2	2.7	16.0	32	3.8	54.5		56.0	2.7
DM9	80	7.15	121	11.1	9.1	<0.5	<0.5	0.2	3.9	0.8	0.9	5.6	1.5	20.5	29	5.0	56.0		64.5	2.7
DM10	90	7.07	122	11.1	8.8	<0.5	<0.5	0.2	4.9	0.5	0.9	6.3	2.6	24.8	32	5.0	64.4		45.0	2.9
DM11	100	7.16	121	11.0	8.5	<0.5	<0.5	0.2	5.0	0.5	0.9	6.4	3.3	26.2	34	3.6	67.1		42.5	2.0
DM12	110	7.16	122	11.0	8.3	<0.5	<0.5	0.1	6.2	0.4	0.8	7.4	2.0	29.2	30	4.0	65.2		54.0	2.9
DM13	120	7.11	122	11.0	8.0	<0.5	<0.5	0.1	6.4	0.3	0.8	7.5	2.2	30.6	29	3.3	65.1		63.0	1.8
DM14	130	7.08	122	11.0	7.8	<0.5	<0.5	0.1	7.0	0.2	0.8	8.0	2.2	31.4	28	3.1	64.7		48.5	2.0
DM15	140	7.07	123	10.9	7.6	<0.5	<0.5	0.1	7.9	0.0	0.9	8.8	2.0	33.8	32	5.0	72.8		54.0	2.0
DM16	150	7.10	123	10.9	7.6	2.5	<0.5	0.2	8.2	0.4	3.7	12.3	2.7	35.4	34	12.8	84.9		140.5	10.5

Collection date 14 April 1999

Secchi depth = 13 m

Code	Depth m	pH	EC @25oC μS cm ⁻¹	Temp °C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH4-N mg m ⁻³	NO3-N mg m ⁻³	DON mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³
II1	1		119	18.3	8.9	<0.5	<0.5	1.2	0.6		1.8	2.4	3	<0.5	43	19.0	65.0	0.6	221.4	19.5
II2	10		118	18.3	8.8	<0.5	<0.5	1.2	0.5		1.8	2.3	1	<0.5	40	19.3	60.3	0.5	216.3	17.6
II3	20		118	18.3	8.8	<0.5	<0.5	1.2	0.5		1.7	2.2	1	2	41	19.0	63.0	0.5	132.3	8.9
II4	30		118	18.1	8.7	<0.5	<0.5	1.2	1.1		1.4	2.5	1	3	34	14.0	52.0	0.6	136.8	9.7
II5	40		118	12.9	8.4	<0.5	<0.5	0.7	2.3		0.9	3.2	1	6	31	8.9	46.9	0.7	91.2	6.5
II6	50		119	11.9	8.1	<0.5	<0.5	0.4	3.1		0.7	3.8	1	14	28	7.9	50.9	0.5	63.1	4.8
II7	60		121	11.6	8.0	<0.5	<0.5	0.3	4.3		0.7	5.0	1	19	33	7.3	60.3	0.6	42.3	5.0
II8	70		121	11.4	8.0	<0.5	<0.5	0.2	5.5		0.8	6.3	1	23	27	8.6	59.6	0.4	48.4	7.0
II9	80		122	11.3	7.8	<0.5	<0.5	0.1	5.9		0.8	6.7	2	28	29	8.3	67.3	0.5	51.5	6.1
II10	90		123	11.2	7.6	<0.5	<0.5	0.1	6.1		0.6	6.7	1	30	31	6.4	68.4	0.5	62.1	4.2
II11	100		122	11.2	7.4	<0.5	<0.5	0.1	6.1		0.5	6.6	2	27	28	6.1	63.1	0.6	33.1	1.5
II12	110		120	11.2	7.2	<0.5	<0.5	0.1	6.6		0.5	7.1	2	28	27	6.1	63.1	0.5	35.7	2.9
II13	120		122	11.2	7.1	<0.5	<0.5	0.1	6.4		0.5	6.9	2	24	26	5.2	57.2	0.6	34.1	2.2
II14	130		122	11.1	6.8	<0.5	<0.5	<0.1	7.5		0.5	8.0	2	28	31	6.3	67.3	0.6	46.9	5.5
II15	140		122	11.1	6.3	<0.5	<0.5	0.1	8.8		0.9	9.7	2	33	31	6.4	72.4	0.5	63.4	3.0
II16	150		116	11.1	5.9	<0.5	<0.5	<0.1	8.6		0.9	9.5	4	28	60	7.7	99.7	0.9	51.1	1.1

NH₄, NO₃, DON, Urea all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = PN by wet digestion method, ** = PN by combustion furnace method.

Lake Taupo biannual nutrient database

1997-1998

Started 27 October 1994

Collection Date 30 October 1997

Secchi depth = 12.5 m

ID	Depth m	pH	EC @25°C µS cm ⁻¹	Temp C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ mg m ⁻³	NO ₃ mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³	SO ₄ g m ⁻³
TT1	1	7.70	116.9	12.2	10.7	0.61	0.30	1.28	1.0	1.3	1.5	3.8	2.1	2.9	36	1.1	14.3	55.3	0.71	168.3	17.2	
TT2	10	7.71	117.8	12.0	10.2	0.54	0.29	1.49	0.7	1.9	1.9	4.5	1.3	7.3	32	1.1	18.7	59.7	0.82	160.7	18.8	
TT3	20	7.65	118.1	11.5	10.2	0.59	0.32	1.58	0.8	1.6	1.7	4.0	1.6	0.7	36	1.1	14.0	52.0	0.60	133.0	16.5	
TT4	30	7.64	118.2	11.5	10.0	0.52	0.25	1.19	0.4	1.5	1.9	3.8	1.5	1.3	31	0.9	15.8	49.8	0.60	146.9	16.0	
TT5	40	7.62	117.1	11.4	10.0	0.55	0.28	1.31	0.6	1.5	1.6	3.7	1.7	0.3	33	1.0	14.1	49.1	0.62	126.3	13.4	
TT6	50	7.63	116.9	11.1	9.9	0.37	0.20	1.10	0.4	1.5	1.4	3.2	2.2	0.3	32	0.8	12.3	46.3	0.51	112.1	12.1	
TT7	60	7.54	117.7	11.1	9.8	0.21	0.10	0.93	1.4	0.7	1.5	3.5	3.3	0.7	34	1.6	14.3	52.3	0.74	80.6	9.0	
TT8	70	7.45	117.8	10.8	9.8	0.41	0.12	0.79	1.1	1.1	1.1	3.2	8.2	1.3	31	1.5	7.9	47.9	0.65	58.4	4.8	
TT9	80	7.36	118.3	10.7	9.9	0.31	0.04	0.54	1.5	1.1	0.8	3.3	6.1	2.3	31	0.6	6.0	45.0	0.57	57.6	9.0	
TT10	90	7.48	117.8	10.6	9.3	0.44	0.27	0.74	1.1	1.2	1.2	3.5	7.9	4.8	33	0.7	12.4	58.4	0.52	69.3	12.2	
TT11	100	7.29	118.5	10.5	9.2	0.25	0.11	0.40	2.0	1.2	0.8	4.1	8.4	5.0	30	1.1	5.7	48.7	0.63	64.5	8.3	
TT12	110	6.97	119.3	10.4	9.0	0.21	0.06	0.29	2.3	1.0	1.1	4.3	10.8	5.6	29	2.5	6.7	51.7	0.59	53.0	5.5	
TT13	120	7.00	119.1	10.5	9.0	0.29	0.26	0.27	2.0	1.2	1.0	4.1	9.9	6.7	31	6.1	5.8	53.8	0.58	37.5	5.3	
TT14	130	6.80	119.8	10.5	8.8	0.28	0.26	0.28	2.2	1.2	1.3	4.7	10.6	7.1	32	1.5	8.2	58.2	0.56	49.0	6.4	
TT15	140	7.23	117.9	10.4	8.8	0.25	0.20	0.26	2.7	1.4	1.1	5.2	10.8	9.5	37	2.0	10.9	67.9	0.63	66.0	8.5	
TT16	150	7.29	118.9	10.4	8.8	0.50	0.27	0.32	2.5	1.1	1.0	4.5	11.6	9.6	37	3.0	7.6	65.6	0.54	69.0	9.2	

Collection Date:- 7 April 1998

Secchi depth = 13.5 m

ID	Depth m	pH	EC @25°C µS cm ⁻¹	Temp C	DO g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_a mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ mg m ⁻³	NO ₃ mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³	SO ₄ g m ⁻³
YE1	1	8.00	118	17.7	9.1	0.40	0.10	0.67	0.8	1.4	1.3	3.5	2.9	4.6	53	3.7	9.9	70.4	0.83	156.5	14.4	7.7
YE2	10	7.99	119	17.7	9.1	0.49	0.12	1.04	0.9	1.4	1.8	4.1	1.9	2.5	52	4.6	13.7	70.1	0.78	179.5	16.0	8.1
YE3	20	8.00	119	17.7	9.1	0.32	0.32	1.07	0.7	1.5	1.7	3.9	2.4	1.5	48	3.7	12.6	64.5	0.71	162.5	15.2	8.5
YE4	30	7.99	120	17.5	9.1	0.30	0.20	1.06	0.7	1.7	1.6	4.0	2.0	1.2	48	3.7	12.7	63.9	0.78	138.5	14.5	8.0
YE5	40	7.60	120	13.7	9.3	0.13	0.13	1.18	1.2	1.0	1.2	3.4	2.0	3.1	39	4.2	8.2	52.3	0.69	112.5	8.2	7.7
YE6	50	7.50	120	11.5	9.3	0.34	0.00	0.75	2.4	0.9	0.9	4.2	2.5	4.5	52	3.2	6.5	65.5	0.65	88.0	6.7	7.8
YE7	60	7.38	120	11.0	9.3	0.11	0.00	0.49	3.0	0.7	0.8	4.5	1.5	11.7	32	3.2	5.3	50.5	0.72	74.5	5.8	7.7
YE8	70	7.32	121	10.8	9.2	0.20	0.00	0.33	3.1	0.9	0.6	4.6	1.0	17.7	38	3.7	4.0	60.7	0.78	57.5	4.1	7.9
YE9	80	7.23	120	10.6	9.1	0.24	0.24	0.24	3.5	0.6	0.8	4.9	1.4	23.1	43	6.9	5.7	73.2	0.69	49.5	4.5	7.9
YE10	90	7.27	121	10.6	9.1	0.31	0.21	0.17	4.4	0.6	0.7	5.7	1.3	24.1	41	6.5	5.6	72.0	0.68	47.5	4.9	7.9
YE11	100	7.29	121	10.6	9.0	0.32	0.11	0.16	4.5	0.7	0.8	6.0	1.0	24.5	39	3.7	6.8	71.3	0.57	58.0	7.4	7.8
YE12	110	7.29	121	10.5	8.9	0.35	0.35	0.12	4.8	0.7	0.5	6.0	1.3	25.1	40	5.5	6.5	72.9	0.63	52.5	2.6	7.8
YE13	120	7.35	121	10.5	8.9	0.24	0.08	0.37	3.4	0.6	1.2	5.2	1.0	18.9	35	4.6	4.1	59.0	0.75	63.5	3.8	7.7
YE14	130	7.24	122	10.5	8.8	0.32	0.16	0.11	5.7	0.6	0.7	7.0	1.0	27.0	39	6.0	3.5	70.5	0.63	52.0	3.9	7.9
YE15	140	7.21	122	10.5	8.6	0.45	0.05	0.15	6.4	0.6	1.0	8.0	4.2	29.1	65	10.6	6.7	105.0	0.74	60.5	5.9	7.8
YE16	150	7.49	121	10.5	8.4	0.80	0.15	0.62	3.3	1.1	1.6	6.0	2.5	13.0	62	9.7	14.2	91.7	0.70	135.5	13.6	7.9

NH₄, NO₃, DON, Urea all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = PN by wet digestion method, ** = PN by combustion furnace method.

Lake Taupo biannual nutrient database

Collection Date 24 October 1996

		1996-1997														Started 27 October 1994						
		Secchi depth = 12.6 m																				
ID	Depth	pH	EC @25°C	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄	NO ₃	DON	UREA	PN*	TN	DOC	PC	PN**	SO4
	m		µS cm ⁻¹	C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	g m ⁻³
IG1	1			12.4	10.3	0.45	0.34	0.27	0.6	2.1	1.7	4.4	3.0	0.5	59.3	1.4	13.9	76.7	0.86	171	14.5	7.82
IG2	10			12.3	10.3	0.72	0.42	0.47	0.7	2.3	2.2	5.2	2.4	0.4	64.5	1.0	14.5	81.8	0.88	201	16.8	7.90
IG3	20			12.3	10.2	0.67	0.40	0.45	0.8	2.8	2.9	6.5	2.6	0.4	75.8	0.6	18.7	97.5	0.91	232	19.8	7.87
IG4	30			12.3	9.9	0.85	0.49	0.64	0.6	2.3	3.1	6.0	3.3	0.5	73.6	0.4	20.6	98.0	0.95	198	15.7	7.86
IG5	40			11.9	9.9	0.71	0.46	0.56	0.5	1.8	2.5	4.8	2.6	1.2	64.8	0.3	14.6	83.2	0.80	183	12.8	7.84
IG6	50			11.6	9.8	0.62	0.34	0.45	1.1	3.1	2.1	6.3	2.9	0.6	71.2	0.9	13.2	87.9	0.92	157	14.9	7.95
IG7	60			11.1	9.7	0.77	0.32	0.70	0.9	1.8	2.3	5.0	4.4	13.2	175.4	3.5	14.3	207.3	1.29	151	14.1	10.67
IG8	70			10.6	9.4	0.65	0.28	0.54	0.8	1.5	1.9	4.2	2.9	0.8	59.3	1.5	9.2	72.2	0.78	116	10.2	7.85
IG9	80			10.5	9.3	0.51	0.27	0.55	0.9	2.5	1.8	5.2	3.0	3.0	76.1	1.3	9.8	91.9	0.95	103	10.8	7.80
IG10	90			10.4	9.3	0.49	0.23	0.50	0.6	1.8	1.8	4.2	2.1	1.0	52.3	1.4	10.9	66.3	0.73	95	11.0	7.69
IG11	100			10.4	9.2	0.50	0.21	0.51	0.5	1.5	1.8	3.8	1.8	3.6	53.9	4.5	9.6	68.9	1.04	106	12.8	7.85
IG12	110			10.4	9.2	0.43	0.23	0.49	0.4	1.3	2.0	3.7	2.5	5.2	54.0	6.0	9.3	71.0	0.80	94	11.5	7.85
IG13	120			10.4	9.0	0.47	0.21	0.47	0.8	1.4	1.8	4.0	3.7	9.6	61.9	6.9	8.0	83.2	0.78	78	9.7	7.97
IG14	130			10.3	8.9	0.44	0.18	0.38	1.1	1.5	2.3	4.9	4.5	9.7	52.4	4.6	12.0	78.6	1.00	83	8.7	7.99
IG15	140			10.3	8.9	0.49	0.22	0.51	1.5	1.6	2.5	5.6	4.3	12.9	57.8	5.0	10.4	85.4	0.99	80	8.9	8.14
IG16	150			10.3	8.9	1.13	0.26	0.57	1.2	2.3	3.5	7.0	5.1	13.6	65.9	4.8	14.5	99.1	0.91	121	13.4	8.15

Collection Date:- 2 April 1997

		1996-1997														Started 27 October 1994						
		Secchi depth = 16.0 m																				
ID	Depth	pH	EC @25°C	Temp	DO	SS	VSS	Chlor_a	DRP	DOP	PP	TP	NH ₄	NO ₃	DON	UREA	PN*	TN	DOC	PC	PN**	SO4
	m		µS cm ⁻¹	C	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	g m ⁻³
NA1	1	8.02	118.4	17.3	9.4	0.30	0.30	0.63	0.9	2.2	1.5	4.6	4.0	0.6	67.4	4.9	18.1	90.1	0.82	186.5	17.3	7.80
NA2	10	8.01	118.3	17.3	9.2	0.20	0.10	0.69	0.9	1.3	1.6	3.8	1.7	0.3	51.0	3.3	14.4	67.4	0.77	190.0	17.1	7.86
NA3	20	8.03	118.2	17.2	8.9	0.40	0.30	0.63	0.6	1.2	1.6	3.4	1.8	0.3	51.8	2.2	17.6	71.5	0.75	192.0	19.1	7.85
NA4	30	7.98	118.4	17.2	8.8	0.40	0.40	0.52	0.7	1.0	1.5	3.2	2.5	0.6	47.5	2.7	15.2	65.8	0.56	207.5	20.3	7.90
NA5	40	7.52	118.5	14.2	8.8	0.20	0.20	0.72	0.8	1.8	1.4	4.0	2.7	0.3	53.2	4.1	13.3	69.5	0.69	158.0	15.2	7.91
NA6	50	7.32	119.3	11.3	8.6	0.00	0.00	0.39	1.5	1.4	1.0	3.9	11.2	3.1	54.7	4.5	9.7	78.7	0.62	116.5	10.6	7.88
NA7	60	7.18	120.2	10.9	8.6	0.20	0.20	0.16	1.7	1.3	0.8	3.8	3.7	10.1	48.9	2.1	10.5	73.2	0.86	100.0	13.8	7.88
NA8	70	7.13	119.6	10.6	8.5	0.10	0.10	0.12	1.9	1.7	0.8	4.4	4.3	11.8	58.3	2.2	8.0	82.4	0.83	75.0	8.7	7.87
NA9	80	7.12	120.1	10.5	8.5	0.10	0.10	0.05	3.3	1.4	0.7	5.4	6.9	26.9	82.4	16.9	6.7	122.9	0.98	77.5	9.9	7.90
NA10	90	7.12	120.4	10.5	8.5	0.00	0.00	0.25	3.6	2.2	0.7	6.5	28.9	22.9	108.3	7.4	8.1	168.2	0.63	110.5	8.8	8.00
NA11	100	7.10	120.4	10.5	8.4	0.20	0.20	0.04	4.4	1.2	0.8	6.4	10.7	22.5	72.0	5.2	7.1	112.3	0.85	71.0	8.3	7.97
NA12	110	7.07	120.6	10.4	8.3	0.20	0.20	0.02	3.7	2.0	0.8	6.5	2.9	21.9	52.5	3.8	6.4	83.7	1.01	77.0	9.6	7.93
NA13	120	7.07	120.5	10.4	8.2	0.30	0.20	0.02	3.3	2.4	0.8	6.5	6.4	22.8	56.4	4.2	13.0	98.6	0.70	113.5	15.4	7.88
NA14	130	7.08	120.4	10.4	8.0	0.20	0.20	0.01	4.3	1.6	0.8	6.7	6.2	27.9	56.7	6.2	8.2	99.0	0.81	118.5	11.0	7.97
NA15	140	7.10	121.1	10.4	7.6	0.40	0.40	0.04	4.5	1.7	1.2	7.4	3.9	28.9	58.5	7.9	24.7	116.0	0.80	212.5	28.8	7.91
NA16	150	7.10	122.1	10.4	7.5	1.20	0.40	0.07	5.0	1.0	2.7	8.7	8.6	29.0	61.5	11.8	20.2	119.3	2.07	234.5	22.1	7.97

NH₄, NO₃, DON, Urea all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = analysed by wet digestion method, ** = analysed by CHN combustion furnace method.

Lake Taupo biannual nutrient database

1995-1996

Collection Date:- 30 October 1995

Secchi depth = 13.0 m

ID	Depth	pH	EC @25°C	Temp	DO	BOD ₅	SS	VSS	Chlor _a	DRP	DOP	PP	TP	NH ₄	NO ₃	DON	UREA	PN*	TN	DOC	PC	PN**
	m		µS cm ⁻¹	C	g m ⁻³	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³
ZH1	1	7.40	115.1	13.7	10.3	0.80	0.60	0.38	0.45	<0.2	2.4	1.27	3.67	<0.2	<0.1	55.7	3	6.89	62.69	0.75	123	10.3
ZH2	10	7.59	116.1	11.9	10.5	0.40	0.95	0.53	0.96	<0.2	0.8	1.94	2.74	<0.2	<0.1	48.0	3	14.69	62.69	0.61	217	18.0
ZH3	20	7.39	117.8	11.4	10.6	-0.05	1.09	0.59	1.18	0.3	1.5	2.41	4.21	0.2	<0.1	51.5	4	19.47	71.17	0.58	285	22.3
ZH4	30	7.58	116.6	11.2	10.7	-0.15	1.15	0.58	1.26	0.2	0.7	2.21	3.11	<0.2	<0.1	44.6	2	17.83	62.43	0.45	242	19.4
ZH5	40	7.48	116.2	10.9	10.7	0.00	0.91	0.57	1.22	<0.2	1.1	1.88	2.98	<0.2	<0.1	41.9	2	13.00	54.90	0.44	183	15.8
ZH6	50	7.36	117.0	10.8	10.3	0.25	0.69	0.42	1.10	<0.2	0.8	1.71	2.51	<0.2	<0.1	41.7	3	8.55	50.25	0.43	116	10.3
ZH7	60	7.28	117.2	10.7	10.3	0.70	0.49	0.28	1.03	<0.2	0.8	1.55	2.35	<0.2	0.1	41.1	3	7.75	48.95	0.40	110	10.3
ZH8	70	7.25	117.8	10.5	10.2	0.50	0.64	0.43	1.03	<0.2	0.6	1.50	2.10	<0.2	0.2	40.4	2	7.27	47.87	0.38	108	9.9
ZH9	80	7.25	117.5	10.5	10.2	0.40	0.72	0.43	1.19	<0.2	0.8	1.58	2.38	<0.2	0.7	41.4	2	7.19	49.39	0.48	115	12.1
ZH10	90	7.30	118.0	10.5	10.1	0.00	0.72	0.40	1.27	0.3	0.6	1.59	2.49	<0.2	1.5	38.5	3	7.30	47.30	0.47	101	12.1
ZH11	100	7.25	117.5	10.5	10.0	0.15	0.71	0.39	1.30	<0.2	0.2	1.77	1.97	<0.2	2.4	36.4	3	10.67	49.47	0.49	107	12.5
ZH12	110	7.25	117.5	10.5	9.9	0.35	0.71	0.38	1.32	<0.2	0.9	1.69	2.59	0.5	4.6	44.3	3	10.26	59.66	0.52	93	13.1
ZH13	120	7.23	117.3	10.5	9.9	0.30	0.70	0.41	1.35	<0.2	1.3	1.55	2.85	0.5	5.6	51.3	9	7.99	65.39	0.51	99	12.9
ZH14	130	7.25	117.3	10.5	9.8	0.20	0.69	0.47	1.32	<0.2	0.4	1.89	2.29	1.3	6.6	49.7	7	13.42	71.02	0.55	112	18.5
ZH15	140	7.25	117.3	10.5	9.6	0.40	0.97	0.47	1.60	<0.2	0.2	2.54	2.74	5.7	11.7	60.6	9	11.77	89.77	0.57	113	15.8
ZH16	150	7.25	117.5	10.5	9.2	0.40	1.77	0.91	1.77	0.7	0.4	3.05	4.15	8.3	13.2	90.9	15	48.30	160.70	0.69	357	55.1

Collection Date:- 28 March 1996

Secchi depth = 14.6 m

ID	Depth	pH	EC @25°C	Temp	DO	BOD ₅	SS	VSS	Chlor _a	DRP	DOP	PP	TP	NH ₄	NO ₃	DON	UREA	PN*	TN	DOC	PC	PN**
	m		µS cm ⁻¹	C	g m ⁻³	g m ⁻³	g m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	mg m ⁻³	g m ⁻³	mg m ⁻³	mg m ⁻³
DR1	1	8.02	117.4	16.8	8.7	0.15	0.31	0.18	0.48	1.3	1.8	0.93	4.03	<0.2	4.7	91.0	1.4	12.69	108.39	0.35	118	9.7
DR2	10	8.02	117.4	16.7	8.7	0.20	0.44	0.25	0.81	1.3	1.5	1.43	4.23	<0.2	7.4	111.0	6.2	12.60	131.00	0.42	149	12.3
DR3	20	7.95	117.6	16.6	8.8	0.25	0.34	0.23	0.76	1.0	1.8	1.30	4.10	0.6	<0.1	60.0	2.0	11.70	72.30	0.35	126	11.7
DR4	30	7.59	119.0	13.7	9.0	0.25	0.39	0.15	1.13	1.5	1.7	1.51	4.71	0.5	0.2	64.0	2.0	11.72	76.42	0.26	101	12.8
DR5	40	7.43	118.9	12.4	8.8	0.25	0.35	0.16	0.97	1.3	1.4	1.41	4.11	1.1	<0.1	51.0	2.2	11.77	63.87	0.22	68	8.6
DR6	50	7.34	119.5	11.6	8.6	0.10	0.32	0.14	0.71	1.8	1.5	1.17	4.47	0.8	5.0	68.0	3.5	8.76	82.56	0.18	60	6.4
DR7	60	7.32	119.4	11.4	8.5	0.25	0.27	0.10	0.48	2.2	1.0	1.06	4.26	1.8	5.9	59.0	1.8	8.32	75.02	0.17	46	5.7
FR8	70	7.29	120.4	11.6	8.5	0.25	0.23	0.13	0.28	2.3	1.5	0.80	4.60	<0.2	14.1	87.0	3.4	6.65	107.75	0.26	48	6.4
DR9	80	7.20	120.8	11.2	8.3	0.20	0.30	0.14	0.17	2.9	1.3	0.83	5.03	1.5	10.0	68.0	1.4	5.15	84.65	0.23	45	5.5
DR10	90	7.20	121.2	11.3	8.2	0.20	0.39	0.14	0.12	2.7	2.1	0.89	5.69	2.5	11.5	55.0	1.4	5.34	74.34	0.17	51	6.7
DR11	100	7.24	121.3	10.9	8.2	0.05	0.45	0.19	0.10	2.8	1.8	0.93	5.53	2.2	11.4	72.0	8.1	9.25	94.85	0.22	46	6.9
DR12	110	7.32	122.1	10.8	8.1	0.25	0.25	0.15	0.08	2.7	1.8	0.88	5.38	1.0	11.5	68.0	1.6	5.86	86.36	0.23	52	8.1
DR13	120	7.39	120.2	10.7	8.3	0.15	0.24	0.11	0.09	2.8	1.2	0.74	4.74	2.2	11.2	75.0	3.8	3.91	92.31	0.26	34	5.3
DR14	130	7.47	120.3	10.7	8.3	0.25	0.31	0.15	0.08	3.1	1.5	0.70	5.30	1.5	12.4	70.0	2.5	3.43	87.33	0.27	45	3.8
DR15	140	7.43	121.1	10.7	8.0	0.15	0.33	0.15	0.08	4.6	1.4	0.96	6.96	2.9	16.0	88.0	5.7	4.28	111.18	0.26	51	7.4
DR16	150	7.52	120.1	10.6	7.8	0.75	0.75	0.63	0.07	4.7	1.5	2.13	8.33	3.2	15.9	140.0	32.4	69.74	228.84	0.52	349	70.7

NH₄, NO₃, DON, UREA all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = analysed by wet digest method, ** = analysed by CHN combustion furnace method.

Lake Taupo biannual nutrient database

1994-1995

Collection date:- 27 October 1994

Secchi Depth = 11.7 m

ID	Depth m	Temp C	DO g m ⁻³	BOD ₅ g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ mg m ⁻³	NO ₃ mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³	LEAD mg m ⁻³
MM1	1	11.7	10.5	0.30	0.93	0.55	1.16	1.6	0.7	2.5	4.8	1.1	0.2	61	0.1	16.6	78.9	0.67	193.3	20.3	0.22
MM2	10	11.5	10.6	0.35	0.86	0.49	0.97	1.5	0.4	2.5	4.4	2.2	0.1	50	<0.1	15.2	67.5	0.42	203.8	19.0	
MM3	20	11.5	10.8	0.70	0.87	0.58	0.92	1.2	1.1	2.8	5.1	5.1	<0.1	49	0.2	17.4	71.5	0.40	254.5	19.6	
MM4	30	11.3	10.7	0.30	0.86	0.54	0.99	1.2	0.0	2.3	3.5	<0.4	2.5	88	8.3	13.7	104.2	0.64	199.1	18.9	
MM5	40	10.9	10.5	0.05	0.83	0.49	0.97	1.0	1.4	2.1	4.5	0.4	<0.1	49	1.6	12.4	61.8	0.55	193.7	17.5	
MM6	50	10.9	10.4	0.15	0.85	0.48	0.83	1.0	0.9	2.2	4.1	<0.4	1.1	70	6.4	14.9	86.0	0.37	182.0	16.6	
MM7	60	10.8	10.4	0.00	1.04	0.53	0.88	1.1	0.9	2.1	4.1	<0.4	<0.1	47	1.0	13.6	60.6	0.46	184.6	20.0	
MM8	70	10.7	10.4	0.10	1.23	0.54	1.18	1.1	1.2	2.3	4.6	2.6	0.4	57	1.6	14.7	74.7	0.96	198.7	23.0	
MM9	80	10.6	10.4	0.35	1.07	0.45	1.37	1.0	1.4	2.4	4.8	1.2	0.1	47	1.0	15.3	63.6	0.51	154.4	22.6	
MM10	90	10.5	10.4	0.10	1.24	0.48	1.79	1.0	1.1	1.9	4.0	1.5	<0.1	43	1.3	15.6	60.1	0.48	152.0	22.0	
MM11	100	10.5	10.2	0.10	1.22	0.49	1.76	1.2	1.0	2.5	4.7	1.5	0.4	58	1.8	17.9	77.8	1.21	183.7	33.9	
MM12	110	10.5	10.3	0.45	1.15	0.48	1.78	1.4	0.4	3.0	4.8	1.4	0.4	52	1.9	16.8	70.6	0.65	105.8	28.4	
MM13	120	10.4	10.2	0.00	0.96	0.41	1.94	1.1	0.7	2.8	4.6	<0.4	0.6	61	1.6	16.7	78.4	1.00	106.7	29.8	
MM14	130	10.4	9.8	0.00	1.07	0.41	2.37	1.0	1.2	2.6	4.8	6.8	0.9	73	5.5	20.8	101.5	0.53	157.6	23.7	
MM15	140	10.4	9.8	0.00	1.63	0.57	2.32	1.1	1.1	2.3	4.5	3.7	0.9	61	1.9	20.6	86.2	0.44	176.0	19.2	0.36
MM16	150	10.3	9.9	0.25	1.73	0.75	2.49	1.8	0.8	2.3	4.9	4.2	1.9	60	12.1	39.6	105.7	0.57	303.6	44.0	1.09

MM17 Tube

Secchi Depth = 16.1 m

ID	Depth m	Temp C	DO g m ⁻³	BOD ₅ g m ⁻³	SS g m ⁻³	VSS g m ⁻³	Chlor_α mg m ⁻³	DRP mg m ⁻³	DOP mg m ⁻³	PP mg m ⁻³	TP mg m ⁻³	NH ₄ mg m ⁻³	NO ₃ mg m ⁻³	DON mg m ⁻³	UREA mg m ⁻³	PN* mg m ⁻³	TN mg m ⁻³	DOC g m ⁻³	PC mg m ⁻³	PN** mg m ⁻³	LEAD mg m ⁻³	
MM17					0.99	0.53	0.84	1.3	1.0	2.0	4.3	0.5	0.2	39	3.1	15.9	55.6	0.53				
SZ1	1	18.4	9.2	0.10	0.22	0.22	0.95	3.3	1.7	1.3	6.3	3.6	0.9	83	7.7	14.6	102.1	0.70	160.5	16.8	<0.5	
SZ2	10	18.2	9.3	0.15	0.28	0.28	0.89	2.2	1.2	1.5	4.9	2.0	0.8	59	6.5	13.5	75.3	0.68	189.0	18.1	<0.5	
SZ3	20	18.2	9.2	0.25	0.24	0.24	0.80	1.3	0.0	1.4	2.7	1.0	1.0	56	4.5	10.7	68.7	0.60	153.5	14.5		
SZ4	30	16.5	9.3	0.50	0.26	0.26	1.35	1.3	1.0	1.6	3.9	1.2	0.7	55	8.4	13.4	70.3	0.60	151.5	14.7	<0.5	
SZ5	40	12.5	9.7	0.45	0.16	0.16	0.98	1.1	0.2	1.2	2.5	2.0	1.0	47	4.4	8.0	58.0	0.60	111.0	8.6		
SZ6	50	11.6	9.5	0.60	0.10	0.10	0.86	2.0	0.5	1.2	3.7	1.7	1.3	47	5.3	8.8	58.8	0.60	119.0	10.5		
SZ7	60	11.1	9.5	0.30	0.07	0.07	0.73	1.0	1.1	1.2	3.3	0.5	5.4	40	5.3	7.0	52.9	0.50	83.8	9.0		
SZ8	70	10.9	9.5	0.55	0.04	0.04	0.45	1.4	0.7	1.3	3.4	0.5	7.7	39	6.2	8.7	55.9	0.55	97.4	11.1		
SZ9	80	10.8	9.0	0.40	0.10	0.10	0.35	1.6	0.0	1.0	2.6	0.5	11.3	36	3.2	6.1	53.9	0.53	75.5	8.2		
SZ10	90	10.7	8.7	0.30	0.07	0.07	0.25	1.3	0.5	1.4	3.2	0.5	15.7	40	6.1	9.8	66.0	0.50	92.5	9.6		
SZ11	100	10.7	8.6	0.75	0.01	0.01	0.23	2.8	0.1	0.8	3.7	0.4	18.4	37	6.3	8.2	64.0	0.60	68.7	6.3		
SZ12	110	10.7	8.3	0.50	0.09	0.09	0.20	2.1	1.0	1.3	4.4	0.5	20.4	41	4.4	12.4	74.3	0.55	99.0	14.0		
SZ13	120	10.7	8.2	0.40	0.05	0.05	0.16	2.5	0.0	0.9	3.4	0.5	22.0	37	3.5	4.8	64.3	0.50	62.1	4.5		
SZ14	130	10.7	8.0	0.70	0.00	0.00	0.17	3.1	0.0	1.0	4.1	0.6	26.5	45	3.5	5.9	78.0	0.55	77.0	7.4		
SZ15	140	10.6	7.8	1.00	0.28	0.25	0.17	4.1	0.0	1.7	5.8	0.5	30.7	44	3.6	11.2	86.4	0.60	133.5	12.4	<0.5	
SZ16	150	10.6	7.5	2.05	49.47	5.58	64.05	38.9	1.4	*	40.3	1.7	40.9	48	11.4	*	90.6	0.75	*	*	<0.5	

Surficial sediment

* = Sediment contamination, sample not filtered for analysis.

NH₄, NO₃, DON, UREA all as N

Detection limits: DRP 0.5; NO₃-N 0.5; NH₄-N 1.0 mg m⁻³

* = analysed by wet digestion method, ** = analysed by CHN combustion furnace method.

Appendix 4. Phytoplankton data

In this report phytoplankton abundance is reported in cell counts per ml and as biovolume (cubic microns per ml). Units of biomass are listed as “ μm^3 ” in the following tables. The units are actually μm^3 /mL. In the reporting system used until 2007 algal dominance (rank 1 = dominant to rank 10 = rare) was calculated from algal biovolume.

Cell counts may be reported as “0” despite a large biovolume where the algal species is large or colonial, e.g., *Botryococcus braunii*.

The 2015-2016 algal data has been added to this report and compiled with the data from the previous years, as has been done with temperature, DO, and nutrient data.

Name changes: The genus of planktonic species of *Anabaena* has changed to *Dolichospermum* as of August 2009.

From August 2008 phytoplankton data have been provided from a depth of 50m, which generally coincides with the deep chlorophyll *a* maxima in the lake. These samples were collected by van Dorn bottle and are placed in a separate table from the 10-m tube samples.

Lake Taupo phytoplankton enumeration (50 m van Dorn) 2014-15

Sample code		W03	W03	W06	W06	XZ3	XZ3	XZ6	XZ6	ZJ3	ZJ3	AP3	AP3	AP6	AP6	BY3	BY3	BY6	BY6	DY3	DY3	FE3	FE3	FE6	FE6	GN3	GN3	HE3	HE3	HN3	HN3	HW6	HW6	JA3	JA3	JA6	JA6	KS3	KS3	KS6	KS6	MW3	MW3											
Sampling date	Sampling date	1/07/2014	1/07/2014	21/07/2014	21/07/2014	11/08/2014	11/08/2014	27/08/2014	27/08/2014	30/08/2014	30/08/2014	8/10/2014	8/10/2014	20/10/2014	20/10/2014	28/10/2014	28/10/2014	5/11/2014	5/11/2014	25/11/2014	25/11/2014	15/01/2015	15/01/2015	29/01/2015	29/01/2015	29/01/2015	29/01/2015	12/02/2015	12/02/2015	26/02/2015	26/02/2015	26/02/2015	26/02/2015	9/03/2015	9/03/2015	23/03/2015	23/03/2015	30/04/2015	30/04/2015	22/04/2015	22/04/2015	11/05/2015	11/05/2015	27/05/2015	27/05/2015	18/06/2015	18/06/2015							
Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume	Cell	Biovolume							
(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)	(per ml)	(µm ³)									
Species composition by class																																																						
Blue greens (Cyanophyceae)																																																						
<i>Dolichospermum cf. lewinianum</i> (formerly <i>Anabaena cf. lewinianum</i>)																																																						
10.9	1260	0.2	17	1.3	154	1.0	115	1.1	122	2.2	252	0.3	29	10.5	1215	4.8	557	3.6	421	0.0	0	0.0	0	1.7	195	0.1	9	1.8	203	99.6	11554	0.7	79	0.2	19	4.2	492	3.6	421	6.4	738													
<i>Dolichospermum planctonicum</i> (formerly <i>Anabaena planctonica</i>)																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1.4	222	0.2	32	0.0	0	0.3	48	0.0	0	0.3	42	0.0	0	0.4	69	0.4	69											
<i>Plankolyngbya</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0									
<i>Dolichospermum</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0							
<i>Dolichospermum cicinalis</i>																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0							
<i>Chroococcus</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.1	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0							
<i>Aphanocapsa</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0							
<i>Microcystis</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
<i>Scenedesmus</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
<i>Phormidium</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1.0	20	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.7	14	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
<i>Aphanocapsa</i> sp.																																																						
0.0	0	2.5	23	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
<i>Aphanocapsa</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
<i>Pseudanabaena</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
<i>Gloeocapsa</i> sp.																																																						
0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0					
Greens (Chlorophyceae)																																																						
<i>Actinastrum hamzschali</i>																																																						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Microcystium</i> sp.																																																						
22	934	40	1695	72	3022	90	3784	53	2211	19	811	35	1450	9	369	32	1351	75	3145	93	3920	2	92	5	231	3	115	20	853	0	0	11	461	142	5972	111	4681	158	6618	39	1637													
<i>Silicodictyon concolor</i>																																																						
23	421	16	295	93	1674	74	1327	77	1390	7	126	16	295	9	168	21	379	27	484	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Kribsarella concolor</i>																																																						
0	0	0	0	0	154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Botryococcus braunii</i> (green phase)																																																						
0	0	0.0	0	0	0	0	0	0	0	0	0	1563	0	0	0	4630	0	0	0	0	0	0	0	0	0	50	0	0	0	0	34200	0	0	0	13775	0	5200	0	10400	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Chlamydomonas</i> sp.																																																						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Crucigeniella</i> sp.																																																						
1	76	0	0	8	494	0	0	4	228	2	152	4	228	2	152	2	152	2	152	0	0	0	0	0	0	0	0	0	0	0	0	0	16	2	143	2	143	4	250	4	285	2	143	2	143	0	0	0	0					
<i>Dicystopygium</i> sp.																																																						
26	1448	25	1351	0	0	0	0	0	0	0	0	0	16	869	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Gloeoxyceon planctonicum</i>																																																						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Elakabovius gelatinosa</i>																																																						
2	246	8	799	2	246	8	799	0	0	0	0	1	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Eudorina elegans</i>																																																						
0	0	0	0	0	0	0	0	0	0	32	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Pandora</i> sp.																																																						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Legleriella</i> sp.																																																						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nephrocystum aquaticum</i>																																																						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nephrocystum lunatum</i>																																																						

Lake Taupo phytoplankton enumeration (10-m tube) 2009-10

Cell counts and biovolume

Cells per ml numbers may be affected by rounding

Sample code Sampling date	PH1	PH1	QJ1	QJ1	TT1	TT1	VA1	VA1	VA3	VA3	XF1	XF1	ZD1	ZD1	BX1	BX1	CU1	CU1	CU3	CU3	
	19/10/2009	19/10/2009	12/11/2009	12/11/2009	13/01/2010	13/01/2010	2/02/2010	2/02/2010	18/02/2010	18/02/2010	10/03/2010	10/03/2010	8/04/2010	8/04/2010	20/05/2010	20/05/2010	3/06/2010	3/06/2010	23/06/2010	23/06/2010	
Species composition by class	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	
Blue greens (Cyanophyceae)																					
<i>Dolichospermum c.f. lemmermannii</i> (formerly: <i>Anabaena c.f. lemmermannii</i>)	0.0	0	77.4	6964	3.0	270	17.6	1582	182.5	21172	4.2	492	5.6	652	3.6	418	4.6	531	1.9	218	
<i>Dolichospermum planctonicum</i> (formerly: <i>Anabaena planktonica</i>)	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.3	100	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Dolichospermum sp.</i> (formerly: <i>Anabaena sp.</i>)	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Dolichospermum circinalis</i> (formerly: <i>Anabaena circinalis</i>)	6.9	1429	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Chroococcus sp.</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.8	11	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Microcystis sp.</i>	0.0	0	0.6	13	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Leptolyngbya sp.</i>	17.1	188	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.6	7	0.0	0	0.0	0	
<i>Snowella sp.</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Pseudanabaena sp.</i>	0.7	14	0.0	0	0.2	4	0.0	0	0.0	0	0.1	2	0.1	1	0.8	15	0.0	0	0.4	7	
<i>Phormidium sp.</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.2	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Aphanocapsa sp.</i>	4.0	36	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.0	18	
<i>Aphanothece sp.</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
<i>Aphanizomenon sp.</i>	0.3	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	
Greens (Chlorophyceae)																					
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	67	2818	32	1341	5	227	21	863	0	0	2	68	18	750	14	591	27	1113	11	477	
<i>Stichococcus contortus</i>	11	204	0	0	0	0	9	166	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Botryococcus braunii (colonies)</i>	0	0	0.002	3900	0.000	1950	0	0	0	0	0	0	0	0	0	0	0.0	3248	0.0	1570	
<i>Chlamydomonas sp.</i>	2	341	0	1	227	0	0	0	0	0	0	0	0	0	2	454	0	0	3	568	
<i>Elakotothrix gelatinosa</i>	4	454	3	341	1	114	4	454	0	0	1	114	0	15	1591	6	682	2	170	0	
<i>Eudorina elegans</i>	8	2077	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nephrocytium lunatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Oocystis sp.</i>	9	1229	12	1690	22	3150	36	5070	45	6376	10	1383	34	4840	11	1613	11	1613	6	845	
<i>Tetradon gracile</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Paulschulzia sp.</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Dictyosphaerium</i>	45	0	0	0	6	0	8	0	0	0	0	0	0	0	0	0	4	238	0	0	
<i>Crucigeniella sp.</i>	17	1090	18	1160	77	4993	48	3095	8	492	0	0	0	0	0	0	1	70	0	0	
<i>Kirchneriella contorta</i>	10	321	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	214	0	0	
<i>Planktosphaeria gelatinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
<i>Scenedesmus sp.</i>	0	0	0	0	4	225	0	0	0	0	0	0	0	0	0	0	4	225	0	0	
<i>Volvox aureus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	19476	173	10387	498	29863	
Diatoms (Bacillariophyceae)																					
<i>Asterionella formosa</i>	186	51958	31	8786	3	757	0	0	0	0	4	1060	0	0	4	1212	10	2727	9	2575	
<i>Aulacoseira granulata</i>	21	6541	23	7044	6	2013	0	0	0	0	0	0	0	12	3857	9	2683	9	2851	0	
<i>Aulacoseira granulata var. angustissima</i>	54	13925	4	1125	1	281	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aulacoseria sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cyclotella stelligera</i>	10	1558	3	519	4	606	2	346	1	173	0	0	0	0	0	0	0	0	2	346	
<i>Fragilaria crotonensis</i>	158	56554	121	43190	60	21498	98	35249	8	2905	15	5229	12	4261	22	7941	57	20336	135	48226	
<i>Nitzschia sp.</i>	2	844	1	211	2	633	3	1266	0	0	1	211	2	844	7	2743	2	633	0	0	
<i>Synedra sp.</i>	1	426	0	0	1	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Amphora sp.</i>	0	0	0	0	2	849	0	0	0	0	0	0	0	0	0	0	1	566	1	283	
<i>Cocconeis</i>	1	566	0	0	0	0	2	849	0	0	6	3112	0	0	6	3395	8	3961	7	3678	
Small unknown diatom sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	238	1	60	1	119	
Desmids (Mesotaeniaceae, Desmidiaceae)																					
<i>Closterium aciculare</i>	0	0	1	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Closterium acutum var. variable</i>	1	408	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	204	1	408	
<i>Staurastrum sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	74	1	74	0	0	
Chrysophyta (Chrysophyceae)																					
<i>Dinobryon sp.</i>	98	5809	289	17077	16	926	37	2202	29	1692	4	223	4	223	25	1468	0	0	6	383	
<i>Cryptomonas sp.</i>	1	78	0	0	1	78	0	0	0	0	1	156	0	0	1	78	2	234	1	156	
Dinoflagellates (Dinophyceae)																					
<i>Ceratium hirundinella</i>	0	0	0	0	1	11361	1	22722	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gymnodinium sp. 1</i>	0	0	0	0	0	0	0	0	1	1190	0	0	0	0	1	595	1	595	0	0	
<i>Gymnodinium sp. 2</i>	0	0	0	0	2	40575	0	0	1	27050	0	0	0	5410	0	0	0	0	0	0	
<i>Peridinium sp.</i>	0	0	0	0	0	0	0	0	0	0	4	15148	0	0	3	12984	0	0	1	2164	
<i>Gonyaulax sp.</i>	0	0	0	0	0	0	0	0	1	2164	0	0	3	6492	0	0	0	0	0	0	
Flagellates 5µm																					
Flagellates < 5µm/unicells	153	5340	61	2140	43	1496	42	1477	85	2973	34	1193	33	1155	29	1004	23	795	36	1269	

Lake Taupo phytoplankton enumeration (10-m tube) 2009-10 (continued)

Cell counts and biovolume		Cells per ml numbers may be affected by rounding			
Sample code	EX1	EX1	FY1	FY1	
Sampling date	13/07/2010	13/07/2010	10/08/2010	10/08/2010	
Species composition by class	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	
Blue greens (Cyanophyceae)					
<i>Dolichospermum c.f. lemmermannii</i> (formerly; <i>Anabaena c.f. lemmermannii</i>)	0.2	22	0.8	87	
<i>Dolichospermum planctonicum</i> (formerly; <i>Anabaena planktonica</i>)	0.0	0	0.0	0	
<i>Dolichospermum sp.</i> (formerly; <i>Anabaena sp.</i>)	0.0	0	0.0	0	
<i>Dolichospermum circinalis</i> (formerly; <i>Anabaena circinalis</i>)	0.0	0	0.3	67	
<i>Chroococcus sp.</i>	0.0	0	0.0	0	
<i>Microcystis sp.</i>	0.0	0	0.4	8	
<i>Leptolyngbya sp.</i>	0.0	0	1.3	14	
<i>Snowella sp.</i>	0.0	0	0.0	0	
<i>Pseudanabaena sp.</i>	0.5	9	0.0	0	
<i>Phormidium sp.</i>	0.3	5	0.0	0	
<i>Aphanocapsa sp.</i>	2.4	22	1.0	9	
<i>Aphanothece sp.</i>	0.0	0	0.0	0	
<i>Aphanizomenon sp.</i>	0.0	0	0.0	0	
Greens (Chlorophyceae)					
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	68	2863	72	3022	
<i>Stichococcus contortus</i>	0	0	29	526	
<i>Botryococcus braunii (colonies)</i>	0.0	0	0.0	6160	
<i>Chlamydomonas sp.</i>	0	0	2	341	
<i>Elakotothrix gelatinosa</i>	6	625	6	682	
<i>Eudorina elegans</i>	0	0	16	4155	
<i>Nephrocytium lunatum</i>	0	0	0	0	
<i>Oocystis sp.</i>	4	538	3	384	
<i>Tetraedon gracile</i>	0	0	0	0	
<i>Paulschucia sp.</i>	0	0	0	0	
<i>Dictyosphaerium</i>	0	0	9	506	
<i>Crucigeniella sp.</i>	0	0	3	211	
<i>Kirchneriella contorta</i>	0	0	0	0	
<i>Planktosphaeria gelatinosa</i>	0	0	0	0	
<i>Scenedesmus sp.</i>	2	113	0	0	
<i>Volvox aureus</i>	87	5194	0	0	
Diatoms (Bacillariophyceae)					
<i>Asterionella formosa</i>	39	11058	155	43323	
<i>Aulacoseira granulata</i>	23	7044	52	16268	
<i>Aulacoseira granulata var. angustissima</i>	0	0	57	14910	
<i>Aulacoseria sp.</i>	17	0	0	0	
<i>Cyclotella stelligera</i>	8	1212	11	1818	
<i>Fragilaria crotonensis</i>	62	22273	108	38542	
<i>Nitzschia sp.</i>	1	422	3	1266	
<i>Synedra sp.</i>	1	213	6	2345	
<i>Amphora sp.</i>	0	0	0	0	
<i>Cocconeis</i>	4	2264	5	2829	
	4	417	4	417	
Desmids (Mesotaeniaceae, Desmidiaceae)					
<i>Closterium aciculare</i>	0	0	2	1296	
<i>Closterium acutum var. variable</i>	0	0	0	0	
<i>Staurastrum sp.</i>	0	0	0	0	
Chrysophyta (Chrysophyceae)					
<i>Dinobryon sp.</i>	0	0	5	287	
<i>Cryptomonas sp.</i>	4	623	3	390	
Dinoflagellates (Dinophyceae)					
<i>Ceratium hirundinella</i>	0	0	0	0	
<i>Gymnodinium sp. 1</i>	1	595	0	0	
<i>Gymnodinium sp. 2</i>	0	0	0	0	
<i>Peridinium sp.</i>	0	0	0	0	
<i>Gonyaulax sp.</i>	0	0	0	0	
Flagellates 5µm					
Flagellates < 5µm/unicells	59	2064	70	2443	

Lake Taupo phytoplankton enumeration (10-m tube) 2008-09

Cell counts and biovolume

Cells per ml numbers may be affected by rounding

Sample code	RL4 16/09/2008	RL4 16/09/2008	SV2 14/10/2008	SV2 14/10/2008	UP4 26/11/2008	UP4 26/11/2008	XE2 22/12/2008	XE2 22/12/2008	XZ2 13/01/2009	XZ2 13/01/2009	XZ1 28/01/2009	XZ1 28/01/2009	AH2 11/02/2009	AH2 11/02/2009	AH4 25/02/2009	AH4 25/02/2009	DU1 26/03/2009	DU1 26/03/2009	EW2 15/04/2009	EW2 15/04/2009	GV2 7/05/2009	GV2 7/05/2009	Sampling date	
																							Species composition by class	Cell (per ml)
Blue greens (Cyanophyceae)																								
<i>Anabaena lemmermannii</i>	0.0	0	0.0	0	46.5	1905	16.3	670	1.3	116	1.3	120	7.4	669	75.6	41	1.4	126	27.7	2495	13.6	1226		
<i>Pseudanabaena limnetica</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.1	2	0.0	0	4.4	83	0.0	0	0.0	0		
<i>Anabaena planktonica</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.8	299	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0		
<i>Anabaena</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0		
<i>Anabaena circinilis</i>	0.0	0	8.9	581	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0		
<i>Chroococcus</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0		
<i>Microcystis</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0		
<i>Leptolyngbia</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.1	23
<i>Snowella</i> sp.																	0.0	0	0.0	0	0.0	0		
Greens (Chlorophyceae)																								
<i>Monoraphidium</i> sp./ <i>Ankistrodesmus falcatus</i>	94	3956	4	172	4	172	16	688	53	2236	139	5848	56	2359	0	0	0	0	1	49	5	221		
<i>Stichococcus contortus</i>	12	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Botryococcus braunii</i>	0.0	218	0.0	0	0.0	8877	0.0	127636	0.0	0	0.0	1908	0.0	0	0.0	543	0	0	0.0	4213	0.0	6058		
<i>Chlamydomonas</i> sp.	0	0	1	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Elakothrix gelatinosa</i>	4	369	0	0	0	0	0	0	5	491	12	1229	16	1720	18	1843	0	0	1	114	0	0		
<i>Eudorina elegans</i>	0	0	0	0	0	0	0	0	6	1647	0	0	0	0	0	0	0	0	3	674	0	0		
<i>Nephrocium lunatum</i>	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Oocystis</i> sp.	14	1994	8	1163	5	748	5	665	0	0	2	249	5	665	0	0	0	0	5	748	4	498		
<i>Tetraodon gracile</i>	0	0	0	0	0	0	20	2252	9	1030	1	64	0	0	0	0	0	0	0	0	0	0		
<i>Paulschulzia</i> sp.	0	0	0	0	0	0	0	0	18	0	7	0	0	0	0	0	0	0	0	0	0	0		
<i>Dictyosphaerium</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0		
<i>Crucigeniella</i> sp.	0	0	0	0	7	456	4	228	2	152	0	0	0	0	0	0	0	0	30	1969	53	3422		
Diatoms (Bacillariophyceae)																								
<i>Asterionella formosa</i>	64	18018	42	11794	29	8190	3	819	22	6061	35	9828	5	1310	1	328	4	1147	11	3112	19	5242		
<i>Aulacoseira granulata</i>	15	4534	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2539	0	0	0	0	0		
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	1	304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Aulacoseira</i> sp.	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Cyclotella stelligera</i>	15	2340	2	374	7	1123	0	1	187	1	187	1	187	0	1	187	1	187	4	187	4	655		
<i>Fragilaria crotonensis</i>	37	13194	33	11728	99	35603	66	23456	70	25132	21	7539	48	17173	16	5864	2	838	21	7539	8	2723		
<i>Nitzschia</i> sp.	0	0	0	0	0	0	4	1369	0	0	4	1597	2	913	2	913	0	0	0	0	0	0		
<i>Synedra</i> sp.	1	230	0	0	0	0	2	691	0	0	0	0	0	0	0	1	230	0	0	0	0	0		
<i>Anphora</i> sp.	0	0	0	0	0	0	1	306	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Cocconeis</i>	1	306	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Desmids (Mesotaeniaceae, Desmidiaceae)																								
<i>Closterium aciculare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Closterium acutum</i> var. <i>variable</i>	1	441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Chrysophyta (Chrysophyceae)																								
<i>Dinobryon</i> sp.	0	0	53	3106	313	18466	23	1381	0	0	2	104	38	2243	53	3141	0	0	11	621	13	794		
<i>Cryptomonas</i> sp.	0	0	0	0	1	168	0	0	0	0	0	0	1	84	0	0	0	0	0	0	0	0		
Dinoflagellates (Dinophyceae)																								
<i>Ceratium hirundinella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Gymnodinium</i> sp. 1	0	0	0	0	1	205	1	205	1	205	4	4505	4	4505	3	3218	0	0	1	1287	1	644		
<i>Gymnodinium</i> sp. 2	0	0	0	0	1	14625	0	0	0	0	0	0	0	0	0	0	150	0	0	50	0	25		
<i>Peridinium</i> sp.	0	0	0	0	0	0	0	0	0	0	2	4680	1	2340	0	0	0	0	1	2340	0	0		
<i>Gonyaulax</i> sp.																	1	1170	1	1170	0	0		
Flagellates 5µm																								
Flagellates < 5µm/unicells	113	3972	68	2375	78	2723	249	8722	182	6368	57	2007	51	1781	83	2907	37	1290	51	1781	145	5078		

Lake Taupo phytoplankton enumeration (10-m tube) 2008-09 continued

Sample code Sampling date	GV4	GV4	JO1	JO1	KI1	KI1	NEW NAMES INTRODUCED August 2009	LT1	LT1	ND1	ND1
	27/05/2009	27/05/2009	18/06/2009	18/06/2009	6/07/2009	6/07/2009		13/08/2009	13/08/2009	7/09/2009	7/09/2009
Species composition by class	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)		Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)
Blue greens (Cyanophyceae)											
Blue greens (Cyanophyceae)											
<i>Anabaena lemmermannii</i>	9.4	849	5.8	41	0.3	28	<i>Dolichospermum c.f. lemmermannii</i> (formerly; <i>Anabaena c.f. lemmermannii</i>)	0.1	10	0.1	11
<i>Pseudanabaena limnetica</i>	0.0	0	0.0	0	1.0	19	<i>Pseudanabaena sp.</i>	0.0	0	0.0	0
<i>Anabaena planktonica</i>	0.2	88	0.0	0	0.0	0	<i>Dolichospermum planktonicum</i> (formerly; <i>Anabaena planktonica</i>)	0.0	0	0.0	0
<i>Anabaena sp.</i>	2.1	188	0.3	23	0.5	46	<i>Dolichospermum sp.</i> (formerly; <i>Anabaena sp.</i>)	0.0	0	0.0	0
<i>Anabaena circinalis</i>	0.0	0	0.0	0	0.0	0	<i>Dolichospermum circinalis</i> (formerly; <i>Anabaena circinalis</i>)	0.0	0	0.0	0
<i>Chroococcus sp.</i>	0.1	1	0.0	0	0.0	0	<i>Chroococcus sp.</i>	0.2	2	0.8	11
<i>Microcystis sp.</i>	0.0	0	0.0	0	0.0	0	<i>Microcystis sp.</i>	0.0	0	2.5	53
<i>Leptolyngbya sp.</i>	0.6	6	0.1	2	0.0	0	<i>Leptolyngbya sp.</i>	0.0	0	120.0	1320
<i>Snowella sp.</i>	0.1	3	0.0	0	0.0	0	<i>Snowella sp.</i>	3.3	83	222.9	5572
Greens (Chlorophyceae)											
Greens (Chlorophyceae)											
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	14	590	42	1744	42	1750	<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	24	1022	225	9459
<i>Stichococcus contortus</i>	0	0	3	53	0	0	<i>Stichococcus contortus</i>	19	351	63	1141
<i>Botryococcus braunii</i>	0.0	15954	0.0	14315	0.0	30946	<i>Botryococcus braunii (colonies)</i>	0.0	0	0.0	205716
<i>Chlamydomonas sp.</i>	0	0	0	0	0	0	<i>Chlamydomonas sp.</i>	0	0	0	0
<i>Elakotothrix gelatinosa</i>	0	0	0	0	0	0	<i>Elakotothrix gelatinosa</i>	1	114	8	819
<i>Eudorina elegans</i>	0	0	0	0	0	0	<i>Eudorina elegans</i>	0	0	0	0
<i>Nephrocystium lunatum</i>	0	0	0	0	0	0	<i>Nephrocystium lunatum</i>	0	0	0	0
<i>Oocystis sp.</i>	0	0	4	498	0	0	<i>Oocystis sp.</i>	15	2151	0	0
<i>Tetraodon gracile</i>	0	0	0	0	0	0	<i>Tetraodon gracile</i>	0	0	0	0
<i>Paulschulzia sp.</i>	0	0	0	0	0	0	<i>Paulschulzia sp.</i>	0	0	0	0
<i>Dictyosphaerium sp.</i>	0	0	0	0	0	0	<i>Dictyosphaerium sp.</i>	0	0	12	295
<i>Crucigeniella sp.</i>	36	2358	11	722	9	598	<i>Crucigeniella sp.</i>	2	141	0	0
Diatoms (Bacillariophyceae)											
Diatoms (Bacillariophyceae)											
<i>Asterionella formosa</i>	10	2785	22	6143	55	15299	<i>Asterionella formosa</i>	366	102400	215	60333
<i>Aulacoseira granulata</i>	7	2176	0	0	102	31529	<i>Aulacoseira granulata</i>	30	9392	18	5441
<i>Aulacoseira granulata var. angustissima</i>	0	0	15	3955	0	0	<i>Aulacoseira granulata var. angustissima</i>	0	0	4	1014
<i>Aulacoseria sp.</i>	0	0	0	0	0	0	<i>Aulacoseria sp.</i>	0	0	0	0
<i>Cyclotella stelligera</i>	1	187	9	1404	2	346	<i>Cyclotella stelligera</i>	5	866	21	3432
<i>Fragilaria crotonensis</i>	18	6492	35	12566	24	8716	<i>Fragilaria crotonensis</i>	0	0	34	12217
<i>Nitzschia sp.</i>	1	456	2	913	2	844	<i>Nitzschia sp.</i>	5	2110	1	380
<i>Synedra sp.</i>	0	0	0	0	0	0	<i>Synedra sp.</i>	1	213	0	0
<i>Amphora sp.</i>	0	0	0	0	0	0	<i>Amphora sp.</i>	0	0	0	0
<i>Cocconeis</i>	0	0	1	306	0	0	<i>Cocconeis</i>	0	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)											
Desmids (Mesotaeniaceae, Desmidiaceae)											
<i>Closterium aciculare</i>	0	0	1	350	0	0	<i>Closterium aciculare</i>	0	0	0	0
<i>Closterium acutum var. variabile</i>	0	0	0	0	1	204	<i>Closterium acutum var. variabile</i>	0	0	1	368
Chrysophyta (Chrysophyceae)											
Chrysophyta (Chrysophyceae)											
<i>Dinobryon sp.</i>	8	449	0	0	0	0	<i>Dinobryon sp.</i>	0	0	0	0
<i>Cryptomonas sp.</i>	0	0	1	84	1	78	<i>Cryptomonas sp.</i>	0	0	0	0
Dinoflagellates (Dinophyceae)											
Dinoflagellates (Dinophyceae)											
<i>Ceratium hirundinella</i>	0	0	0	0	0	0	<i>Ceratium hirundinella</i>	0	0	0	0
<i>Gymnodinium sp. 1</i>	1	1287	1	644	2	1785	<i>Gymnodinium sp. 1</i>	0	0	0	0
<i>Gymnodinium sp. 2</i>	0	0	0	2925	0	0	<i>Gymnodinium sp. 2</i>	0	0	0	0
<i>Peridinium sp.</i>	0	0	0	0	0	0	<i>Peridinium sp.</i>	0	0	0	0
<i>Gonyaulax sp.</i>	1	2340	1	1170	0	0	<i>Gonyaulax sp.</i>	0	0	0	0
Flagellates 5µm											
Flagellates 5µm											
Flagellates < 5µm/unicells	67	2334	51	1781	76	2651	Flagellates < 5µm/unicells	328	11494	193	6757

Lake Taupo phytoplankton enumeration (10-m tube) 2007-08

Cell counts and biovolume

Cells per ml numbers may be affected by rounding

Sample code Sampling date	TZ2 8/08/2007	TZ2 8/08/2007	TZ4 23/08/2007	TZ4 23/08/2007	WF2 11/09/2007	WF2 11/09/2007	XX1 9/10/2007	XX1 9/10/2007	XX4 30/10/2007	XX4 30/10/2007	AM1 15/11/2007	AM1 15/11/2007	BM1 4/12/2007	BM1 4/12/2007	BM3 20/12/2007	BM3 20/12/2007	DT1 17/01/2008	DT1 17/01/2008	E01 31/01/2008	E01 31/01/2008	E03 14/02/2008	E03 14/02/2008	E05 27/02/2008	E05 27/02/2008
Species composition by class	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)
Blue greens (Cyanophyceae)																								
<i>Anabaena lemmermannii</i>	2	64	3	108	1	27	17	696	51	2100	18	725	1	27	29	1175	28.7	1175	21.3	875	25.0	1025	85.8	3518
<i>Pseudanabaena limnetica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2	0.0	0	0.0	0	0.5	9
<i>Clostridium</i> sp.	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>Microcystis</i> sp.	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>c.f. Rivularia</i> sp.	0	0	0	0	1	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aphanizomenon</i> sp.	0	0	1	15	0	1	0	0	0	0	0	0	0	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>Aphanizomenon</i> sp.	2	30	0	0	0	0	0	0	0	0	2	32	3	48	4	78	0.0	0	0.0	0	0.0	0	4.0	76
<i>Lepolyngbya</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0.0	0	0.0	0	0.0	0	0.0	0
Greens (Chlorophyceae)																								
<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>	20	839	17	695	3	123	6	247	10	418	28	1189	18	737	114	4785	66	2764	0	0	0	0	0	0
<i>Stichococcus contortus</i>	175	0	97	1749	25	453	0	0	0	0	0	3	53	0	0	0	0	0	0	0	0	0	0	0
<i>Kirchneriella contorta</i>	0	0	0	0	56	1853	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Botrydium limneticum</i>	0	0	0	4800	0	0	0	0	0	0	0	0	0	1100	1	92840	0	0	0	0	0	0	0	259720
<i>Chlamydomonas</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elakotricha gelatinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	5	532	0	0	0	0	0	0	0	2	246
<i>Eudorina elegans</i>	0	0	0	0	0	0	0	0	1	300	0	0	0	0	0	0	2	624	4	1108	0	0	3	749
<i>Lagerheimia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oocystis</i> sp.	0	0	0	1	166	5	758	5	665	0	1	166	6	839	2	277	0	0	0	0	0	0	0	0
<i>Planktosphaeria gelatinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Quadrifida lacustris</i>	0	0	5	788	3	480	0	0	0	0	0	0	0	3	554	0	0	0	0	0	0	0	0	0
<i>Westella botryoides</i>	10	634	29	1909	0	0	0	0	9	608	0	0	0	0	0	0	17	1077	0	0	0	0	0	0
<i>Fauvelia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diatoms (Bacillariophyceae)																								
<i>Asterionella formosa</i>	275	77123	292	81787	753	210974	124	34838	62	17363	15	4187	4	983	2	473	50	14060	11	3181	0	0	2	655
<i>Aulacoseira granulata</i>	0	0	0	0	13	3990	0	0	16	5078	3	993	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	52	13436	11	2777	0	0	0	0	3	761	0	0	0	0	0	2	507	0	0	0	0	0	0	0
<i>Cyclotella stelligera</i>	14	2184	11	1709	8	1310	9	1452	11	1685	0	0	0	0	1	156	0	0	0	0	0	0	0	0
<i>Fragilaria crotonensis</i>	57	20419	27	9750	0	0	0	0	2	574	1	209	9	3224	19	6806	5	1743	0	0	0	13	4607	0
<i>Nitzschia</i> sp.	0	0	5	2083	1	228	0	0	0	0	1	456	14	5596	1	380	0	0	0	0	0	2	684	0
<i>Synedra</i> sp.	1	0	0	0	1	1638	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small unknown diatom sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	60	0	0	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)																								
<i>Chlosterium aciculare</i>	0	0	0	0	0	0	0	160	0	0	1	320	1	350	1	506	0	0	0	0	0	0	0	0
<i>Chlosterium acutum</i> var. <i>variable</i>	1	551	1	201	1	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chrysophyta (Chrysophyceae)																								
<i>Dinobryon</i> sp.	21	1266	2	126	0	0	146	8633	297	17534	81	4789	76	4487	8	448	7	431	6	383	32	1915	73	4314
<i>Cryptomonas</i> sp.	0	0	1	77	0	0	1	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mallomonas</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinoflagellates (Dinophyceae)																								
<i>Gymnodinium</i> sp. 1	0	1463	0	0	0	0	1	3204	1	1755	0	0	1	1755	1	2532	0	0	6	17853	4	10820	16	49140
<i>Gymnodinium</i> sp. 2	0	12188	1	13350	0	0	0	6675	0	0	0	0	0	7313	3	63300	0	6094	0	0	0	3	73125	0
Flagellates > 5µm																								
Flagellates < 5µm/unicells	153	6582	296	10354	112	3911	129	4504	93	3256	78	2729	125	4382	526	18403	83	2901	99	3465	39	1373	60	2109

Sample code	HT1	HT1	HT3	HT3	KB1	KB1	LB1	LB1	LB3	LB3	MW1	MW1	MW3	MW3	OL1	OL1	OL3	OL3	QA2	QA2	QA4	QA4	RL2	RL2
Sampling date	13/03/2008	13/03/2008	26/03/2008	26/03/2008	17/04/2008	17/04/2008	7/05/2008	7/05/2008	22/05/2008	22/05/2008	5/06/2008	5/06/2008	18/06/2008	18/06/2008	17/07/2008	17/07/2008	15/07/2008	15/07/2008	7/08/2008	7/08/2008	20/08/2008	20/08/2008	4/09/2008	4/09/2008
Species composition by class	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)	Cell (per ml)	Biovolume (µm ³)
Blue greens (Cyanophyceae)																								
<i>Anabaena lemmermannii</i>	92	3778	7.0	288	56.6	2319	120.6	4946	2.2	91	1.1	46	1.7	71	12.2	500	9.8	403	0.8	32	0.2	7	0.9	37
<i>Pseudanabaena limnetica</i>	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.8	53	0.3	5	0.0	0	0.0	0
<i>Chroococcus</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>Microcystis</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>c.f. Rivularia</i> sp.	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aphanothece</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>Aphanizomenon</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
<i>Leptolyngbya</i> sp.	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1.4	16	0.0	0
Greens (Chlorophyceae)																								
<i>Monoraphidium</i> sp./ <i>Ankistrodesmus falcatulus</i>	0	0	0	0	0	0	5	197	0	0	0	0	0.0	0	188	7907	0	0	73	3047	73	3071	130	5479
<i>Sitochococcus contortus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0.0	0	0	0	26	474
<i>Kirchneriella contorta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0.0	0	0	0	0	0
<i>Botryococcus braunii</i>	0.1	469151	0	14435	0.04	259837	0	104870	0	28871	0	132806	0.0	3609	0	5774	0.1	226456	0.0	5413	0	0	0.0	17746
<i>Chlamydomonas</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Elakotothrix gelatinosa</i>	2	246	6	676	1	123	4	369	2	246	1	123	0	0	1	114	0	0	0	0	0	0	0	0
<i>Eudorina elegans</i>	8	2097	0	0	0	0	0	0	0	0	11	2696	0	0	0	0	0	0	0	0	9	2246	0	0
<i>Lagerheimia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1797
<i>Oocystis</i> sp.	0	0	0	0	1	166	5	665	2	332	0	0	0	0	6	914	0	0	5	665	7	997	0	0
<i>Planktopharcia gelatinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1412
<i>Quadrigula lacustris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Westella botryoides</i>	0	0	0	0	0	0	15	951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pantuschia</i> sp.	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diatoms (Bacillariophyceae)																								
<i>Asterionella formosa</i>	19	5242	12	3276	5	1310	10	2785	28	7862	25	6880	22	6061	25	7043	102	28501	191	53399	79	22113	94	26208
<i>Aulacoseira granulata</i>	0	0	0	0	0	0	2	725	12	3808	13	4171	2	725	0	35	10700	151	46788	0	0	18	5622	
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	0	0	0	0	4	913	0	0	0	0	0	0	25	6388	0	0	0	57	14754	0	0	
<i>Cyclotella stelligera</i>	0	0	0	0	0	0	3	468	1	187	2	374	1	94	4	562	1	94	1	187	12	1872	18	2902
<i>Fragilaria crotonensis</i>	0	0	15	5445	4	1466	0	57	20315	61	21781	84	29948	46	16545	30	10890	18	6283	49	17592	59	20943	
<i>Nitzschia</i> sp.	1	228	1	342	3	1141	2	684	2	913	0	0	1	228	4	1369	4	456	0	0	0	2	684	
<i>Synedra</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small unknown diatom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)																								
<i>Closterium aciculare</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1051
<i>Closterium acutum</i> var. <i>variable</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	221	0	0	1	441	0	0	0	0
Chrysophyta (Chrysophyceae)																								
<i>Dinobryon</i> sp.	26	1519	2	104	4	242	8	483	8	466	9	518	0	9	518	0	0	0	0	0	0	0	20	1208
<i>Cryptomonas</i> sp.	1	84	0	0	1	84	1	168	1	84	1	84	2	337	0	2	337	0	0	0	0	0	0	0
<i>Mallomonas</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1053	0	0	0	0	0	0	0	0
Dinoflagellates (Dinophyceae)																								
<i>Gymnodinium</i> sp. 1	6	19305	42	126360	12	36855	5	1843	35	12285	5	1638	4	1229	0	6	2048	0	0	0	0	0	0	0
<i>Gymnodinium</i> sp. 2	0	0	0	0	0	0	0	0	0	0	1	29250	0	7313	0	0	1	14625	0	0	0	0	0	0
Flagellates 5µm																								
Flagellates < 5µm/unicells	57	1986	56	1945	73	2539	131	4586	47	1638	63	2191	111	3890	121	4238	115	4013	87	3030	207	7228	104	3645

Lake Taupo phytoplankton dominance plus enumeration (10-m tube) 2006-07

Dominance by biovolume (rank 1 = dominant,...rank 10 = rare), plus cell counts and biovolume from May 2007

	Sample code	EM8	EM10	EM13	EM17	EM20	EM23	EM27	EM29	EM31	EM34	EM36	EM38	EM40	EM40	EM40	EM42	EM42	EM42	RY2	RY2	RY2	RY5	RY5	RY5
	Sampling date	26/09/2006	18/10/2006	1/11/2006	5/12/2007	14/12/2007	9/01/2007	8/02/2007	21/02/2007	21/03/2007	3/04/2007	19/04/2007	8/05/2007	22/05/07	22/05/07	22/05/07	14/06/07	14/06/07	14/06/07	27/06/07	27/06/07	27/06/07	18/07/2007	18/07/2007	18/07/2007
Species composition by class	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Biovolume (µm ³)	cell (per ml)	Rank	Biovolume (µm ³)	cell (per ml)	Rank	Biovolume (µm ³)	cell (per ml)	Rank	Biovolume (µm ³)	cell (per ml)
Blue greens (Cyanophyceae)																									
<i>Anabaena lemmermannii</i>	5	5	5	5	9	5	9	9	9	3	4	5	4	6	303	10	8	450	15	5	1091	36	4	3652	17
<i>Anabaena</i> sp.															0	0		0	0	10	29	0		0	0
<i>Aphanizomenon</i> sp.							8	8	8	7	7	9	9	10	5	0		0	0		0	0	10	27	1
<i>Phormidium</i> sp.										10	10	10			0	0		0	0		0	0		0	0
Greens (Chlorophyceae)																									
<i>Ankistrodesmus falcatus/ Schroederia</i> sp.																				9	120	5		0	0
<i>Botryococcus braunii</i>	7	2	2	3	3	1	1	1	1	1	1	5	3	1	1014600	0	1	38448	1	8	438	0		0	0
<i>Chlorosarcinopsis</i> sp.	10	10																							
<i>Elakotothrix gelatinosa</i>														6	342	4		0	0		0	0		0	0
<i>Eudorina elegans</i>	9	9	10	10	10			10	10	10	10		10		0	0		0	0		0	0		0	0
<i>Kirchneriella contorta</i>															0	0	10	157	7		0	0	10	21	1
<i>Monoraphidium</i> sp/ <i>Ankistrodesmus falcatus</i>	10	10	10	10	10	10	10	10	10	8	8	9	7	5	561	19	2	20456	259	2	5061	46	5	2574	12
<i>Oocystis</i> sp.	7	8	9	9	9	10	10	7	7	10	10	10		9	43	1	6	3210	11	4	1605	5	9	293	1
<i>Quadrigula lacustris</i>	9														0	0		0	0		0	0		0	0
<i>Stichococcus contortus</i>															0	0		0	0	7	534	4	6	1073	5
<i>Westella botryoides</i>	9	9	9	10	10	10	10	10							0	0		0	0		0	0		0	0
Diatoms (Bacillariophyceae)																									
<i>Asterionella formosa</i>	2	2	6	4	4			4	5						0	0	6	3173	10	3	4414	14	2	25087	81
<i>Aulacoseira granulata</i>	3	1	1	1	2	9	6	2	2	2	2	1			0	0	4	6760	22	1	7863	25	2	29167	94
<i>Aulacoseira granulata</i> var. <i>angustissima</i>													2	3	5590	8		0	0		0	0		0	0
<i>Cyclotella stelligera</i>	5	5	9	7	6	6	5	6							0	0	8	427	3	10	71	0	8	468	3
<i>Fragilaria crotonensis</i>	1	4	7				6	7	6	6			7	4	2294	6	3	13382	37	10	33	0	1	109152	107
<i>Gomphonema</i> sp.																	5	5559	14	5	1042	3	7	952	2
<i>Nitzschia</i> sp.	10	10	10	10	10	10	10	10	10	10	10	7		8	155	1					0	0		0	0
unknown diatom sp.												8			0	0		0	0		0	0		0	0
Desmids (Mesotaeniaceae, Desmidiaceae)																									
<i>Closterium acutum</i>	9	10	10	9	9	7	8	8	10	10					0	0	7	1335	3	6	668	1		0	0
<i>Closterium acutum</i> var. <i>variable</i>	10	10	10	9	8	8	8	8							0	0		0	0		0	0	7	731	1
<i>Mougeotia</i> sp.															0	0		0	0		0	0		0	0
<i>Staurastrum</i> sp.	10	10				10						9	6		0	0		0	0		0	0		0	0
Chrysophyta (Chrysophyceae)																									
<i>Cryptomonas</i> sp.	10	10	10				10	10	10	10	10	10			0	0	9	267	1	9	196	1	9	293	1
<i>Dinobryon</i> sp.	9	3	3	2	1	2	6	8	3	5	2	1	7		256	1		0	0		0	0		0	0
Dinoflagellates (Dinophyceae)																									
<i>Ceratium hirundinella</i>		10	10	10	10			4	1	3					0	0		0	0		0	0		0	0
<i>Gymnodinium</i> sp.	5	7	4	3	5	7	3	3	4	6	4			2	11748	1		0	0		0	0		0	0
<i>Gymnodinium</i> sp. 2													8		0	0		0	0	3	4450	0		0	0
Flagellates 5µm																									
Flagellates < 5µm/unicells	3	6	8	6	6	6	2	4	5	4	3	4	4	4	2138	50	3	16227	381	1	7521	177	3	4133	97

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2015-2016													
From Site A (Mid Lake) 2/11/2015													
	Surface	10m	20m	50m	100m	150m	Surface	10m	20m	50m	100m	150m	
	UK1	UK2	UK3	UK6	UK11	UK16	UK1	UK2	UK3	UK6	UK11	UK16	
	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	2/11/2015	
	Cell	Cell	Cell	Cell	Cell	Cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	
	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	
Blue greens (Cyanophyceae)													
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	1.7	1.0	10.8	0.0	0.0	0.0	194	115	0	0	0	0	0
<i>Dolichospermum sp.</i>	0.0	0.0	0.0	0.0	0.4	0.0	0	0	0	0	61	0	0
<i>Aphanocapsa sp.</i>	0.0	0.0	0.0	0.0	0.0	1.6	0	0	0	0	0	14	0
<i>Snowella sp.</i>	0.0	0.2	0.0	0.0	0.0	1.2	0	4	0	0	0	30	0
Greens (Chlorophyceae)													
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	49	51	32	62	38	39	2068	2138	1351	2604	1597	1646	0
<i>Stichococcus contortus</i>	2	1	0	0	6	0	39	21	0	0	105	0	0
<i>Botryococcus braunii</i> (colonies)	0.0	0.0	0.0	0.0	0.0	0.0	0	2509	0	2509	0	0	0
<i>Crucigeniella sp</i>	3	5	2	4	5	1	211	304	152	228	304	76	0
<i>Dictyosphaerium</i>	0	2	0	0	0	0	0	129	0	0	0	0	0
<i>Elakothrix gelatinosa</i>	3	6	1	3	0	0	341	676	123	307	0	0	0
<i>Eudorina elegans</i>	0	12	0	0	0	0	0	3145	0	0	0	0	0
<i>Oocystis sp.</i>	22	16	13	12	5	6	3073	2243	1828	1661	748	914	0
<i>Scenedesmus sp.</i>	0	0	0	0	5	0	0	0	0	0	243	0	0
<i>Sphaerocystis Schroeteri</i>	0	9	9	9	0	0	0	0	0	0	0	0	0
<i>Asterionella formosa</i>	11	6	5	20	8	5	3030	1802	1310	5569	2129	1310	0
<i>Aulacoseira granulata</i>	27	22	18	33	75	52	8218	6891	5622	10156	23213	16140	0
<i>Aulacoseira granulata var. angustissima</i>	4	5	24	15	2	2	985	1369	6236	3803	608	608	0
<i>Aulacoseria sp.</i>	0	0	0	8	0	0	0	0	0	0	0	0	0
<i>Cyclotella stelligera</i>	4	6	6	8	10	9	692	936	936	1217	1591	1404	0
<i>Fragilaria crotonensis</i>	0	34	0	7	9	17	0	12147	0	2513	3351	6073	0
<i>Fragilaria sp.</i>	1	0	1	0	0	0	387	0	209	0	0	0	0
<i>Nitzschia sp.</i>	0	0	0	4	2	1	0	0	0	1597	913	228	0
<i>Synedra sp.</i>	1	0	0	0	2	2	213	0	0	0	691	691	0
<i>Amphora sp.</i>	0	0	0	0	0	1	0	0	0	0	0	306	0
<i>Eunotia sp.</i>	0	0	0	0	0	1	0	0	0	0	0	0	0
Small unknown diatom sp.	0	1	1	1	0	0	0	129	64	64	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
<i>Closterium acutum var. variable</i>	1	0	1	0	0	1	204	0	221	0	0	441	0
Chrysophyta (Chrysophyceae)													
<i>Dinobryon sp.</i>	52	46	21	12	0	0	3096	2727	1243	725	0	0	0
<i>Cryptomonas sp.</i>	0	0	1	1	2	0	0	0	84	168	253	0	0
Dinoflagellates (Dinophyceae)													
<i>Ceratium hirundinella</i>	0	0	0	0	0	0	0	0	0	420	0	0	0
<i>Gymnodinium sp. 1</i>	0	0	0	0	0	1	0	0	0	0	0	644	0
<i>Peridinium sp.</i>	0	1	0	0	0	0	0	2340	0	0	0	0	0
Flagellates 5μm													
Flagellates < 5 μm /unicells	42	42	42	26	6	7	1458	1474	1474	921	225	246	0

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2014-2015													
From Site A (Mid Lake) 25/4/2015													
	Surface	10m	20m	50m	100m	150m		Surface	10m	20m	50m	100m	150m
	JS1	JS2	JS3	JS6	JS11	JS16		JS1	JS2	JS3	JS6	JS11	JS16
	22/04/2015	22/04/2015	22/04/2015	22/04/2015	22/04/2015	22/04/2015		22/04/2015	22/04/2015	22/04/2015	22/04/2015	22/04/2015	22/04/2015
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3
Blue greens (Cyanophyceae)													
<i>Dolichospermum c.f. lemmermannii</i> (formerly <i>Anabaena c.f. lemmermannii</i>)	7.9	9.8	1.1	0.5	0.0	0.2		913	1131	0	58	5	27
<i>Leptolyngbya</i> sp.	0.0	0.0	6.6	0.0	0.0	0.0		0	0	73	0	0	0
<i>Dolichospermum</i> sp.	6.9	0.3	0.0	0.0	0.0	0.0		1101	53	0	0	0	0
Greens (Chlorophyceae)													
<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>	7	11	13	63	23	6		295	467	565	2654	983	246
<i>Stichococcus contortus</i>	0	14	9	16	9	0		0	253	168	295	168	0
<i>Botryococcus braunii</i> (colonies)	0	0.0	0.0	0.0	0.0	0.0		0	0	0	18152	18152	0
<i>Chlamydomonas</i> sp.	0	0	1	0	1	1		0	0	246	0	123	123
<i>Crucigeniella</i> sp.	0	1	0	2	1	0		0	76	0	152	76	0
<i>Elakatothrix gelatinosa</i>	5	1	1	0	0	0		553	123	123	0	0	0
<i>Eudorina elegans</i>	6	0	14	0	0	0		1647	0	3594	0	0	0
<i>Oocystis</i> sp.	10	5	5	9	2	2		1412	748	665	1246	332	332
<i>Sphaerocystis schroeteri</i>	19	5	5	15	12	0		0	0	0	0	0	0
unidentified Colonial green	0	0	0	1	0	0		0	0	0	0	0	0
Diatoms (Bacillariophyceae)													
<i>Asterionella formosa</i>	0	4	0	16	10	22		0	1147	0	4423	2785	6224
<i>Aulacoseira granulata</i>	0	6	7	2	6	22		0	1814	2176	725	1995	6891
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	0	0	0	9		0	0	0	0	0	2434
<i>Cocconeis</i>	0	0	0	0	0	1		0	0	0	0	0	612
<i>Cyclotella stelligera</i>	2	1	3	1	2	10		374	187	468	187	281	1591
<i>Fragilaria crotonensis</i>	2	0	0	0	0	4		838	0	0	0	0	1466
<i>Fragilaria</i> sp.	0	15	0	0	0	0		0	5236	0	0	0	0
<i>Nitzschia</i> sp.	6	4	5	0	3	2		2510	1369	2053	0	1141	913
<i>Synedra</i> sp.	0	0	1	4	4	1		0	0	230	1383	1383	461
<i>Amphora</i> sp.	1	0	0	0	0	0		306	0	0	0	0	0
Small unknown diatom sp.	1	0	1	1	1	0		64	0	129	64	64	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
<i>Closterium acutum</i> var. <i>variable</i>	1	0	0	2	3	1		221	0	0	662	1103	441
<i>Staurastrum</i> sp.	0	0	0	0	0	0		0	0	0	14	0	0
Chrysophyta (Chrysophyceae)													
<i>Dinobryon</i> sp.	0	5	0	0	0	0		0	276	0	0	0	0
<i>Cryptomonas</i> sp.	0	0	1	3	1	1		0	0	168	421	84	84
Dinoflagellates (Dinophyceae)													
<i>Ceratium hirundinella</i>	0	0	0	0	0	0		0	210	210	0	0	0
<i>Gymnodinium</i> sp. 1	3	2	3	1	1	0		3218	2574	3218	1287	644	0
<i>Gymnodinium</i> sp. 2	0	0	0	0	0	0		0	0	0	0	0	0
<i>Peridinium</i> sp.	4	2	6	7	0	0		16380	7020	25740	28080	0	0
Flagellates 5μm													
Flagellates < 5 μm /unicells	35	26	30	43	13	15		1229	921	1044	1495	471	512

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2014-2015												
From Site A (Mid Lake) 25/11/2014												
	Surface	10m	20m	50m	100m	150m	Surface	10m	20m	50m	100m	150m
	CK1	CK2	CK3	CK6	CK11	CK16	CK1	CK2	CK3	CK6	CK11	CK16
	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014	25/11/2014
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3
Blue greens (Cyanophyceae)												
<i>Dolichospermum c.f. lemmermannii</i> (formerly <i>Anabaena c.f. lemmermannii</i>)	11.9	30.5	33.3	10.4	0.0	0.0	1379	3543	3863	1211	0	0
Greens (Chlorophyceae)												
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	11	15	14	22	13	13	477	614	590	909	541	541
<i>Stichococcus contortus</i>	4	2	0	27	13	9	78	42	0	484	242	168
<i>Botryococcus braunii</i> (colonies)	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	18152	18152	
<i>Crucigeniella sp</i>	2	0	4	1	2	2	141	0	228	76	152	152
<i>Elakathrix gelatinosa</i>	0	3	1	0	0	0	0	307	123	0	0	0
<i>Eudorina elegans</i>	0	0	5	0	0	0	0	0	1198	0	0	0
<i>Oocystis sp.</i>	9	8	7	6	5	1	1306	1163	997	831	748	166
<i>Scenedesmus sp.</i>	0	0	5	0	0	0	0	0	243	0	0	0
<i>Sphaerocystis Schroeteri</i>	23	26	17	5	0	5	0	0	0	0	0	0
Diatoms (Bacillariophyceae)												
<i>Asterionella formosa</i>	8	16	13	11	3	2	2121	4586	3767	2948	819	655
<i>Aulacoseira granulata</i>	0	14	14	41	40	72	0	4352	4352	12695	12332	22306
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	2	22	7	0	3	7	563	5780	1825	0	761	1825
<i>Cocconeis</i>	1	0	1	1	1	0	283	0	306	306	306	0
<i>Cyclotella stelligera</i>	3	13	11	6	6	6	519	2153	1778	936	1030	936
<i>Fragilaria crotonensis</i>	22	36	93	16	4	10	7941	12775	33299	5864	1257	3560
<i>Nitzschia sp.</i>	2	3	1	0	1	1	633	1141	456	0	228	228
<i>Synedra sp.</i>	1	1	1	2	1	1	213	230	461	922	230	461
<i>Amphora sp.</i>	0	2	1	0	0	0	0	1224	306	0	0	0
<i>Eunotia sp.</i>	0	0	1	0	0	0	0	0	0	0	0	0
Small unknown diatom sp.	2	2	1	4	1	2	179	257	129	386	129	193
Desmids (Mesotaeniaceae, Desmidiaceae)												
<i>Closterium acutum</i> var. <i>variable</i>	0	0	0	1	1	1	0	0	0	441	221	441
<i>Cerasterias staurastroides</i>	1	0	0	0	0	0	0	0	0	0	0	0
Chrysophyta (Chrysophyceae)												
<i>Dinobryon sp.</i>	101	145	82	11	0	0	5969	8560	4832	656	0	0
<i>Cryptomonas sp.</i>	0	2	2	1	0	0	0	253	253	84	0	0
Dinoflagellates (Dinophyceae)												
<i>Ceratium hirundinella</i>	0	0	0	0	0	0	0	210	420	0	0	0
<i>Gymnodinium sp. 1</i>	1	0	0	1	0	1	1190	0	0	1287	0	644
<i>Gymnodinium sp. 2</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Peridinium sp.</i>	3	2	2	0	1	0	10820	9360	9360	0	2340	0
Flagellates 5μm												
Flagellates < 5 μm /unicells	15	36	28	26	5	8	530	1269	983	901	164	266

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2013-2014													
From Site A (Mid Lake) 9/04/2014													
	Surface	10m	20m	50m	100m	150m		Surface	10m	20m	50m	100m	150m
	RQ1	RQ2	RQ3	RQ6	RQ11	RQ16		RQ1	RQ2	RQ3	RQ6	RQ11	RQ16
	9/04/2014	9/04/2014	9/04/2014	9/04/2014	9/04/2014	9/04/2014		9/04/2014	9/04/2014	9/04/2014	9/04/2014	9/04/2014	9/04/2014
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		μm^3	μm^3	μm^3	μm^3	μm^3	μm^3
Blue greens (Cyanophyceae)													
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	15.3	18.7	24.2	2.2	0.0	0.4		1778	2174	2805	260	0	45
<i>Pseudanabaena sp.</i>	0.0	0.0	0.0	0.0	0.0	3.4		0	0	0	0	0	64
Greens (Chlorophyceae)													
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	1	3	1	31	4	1		45	123	49	1302	172	25
<i>Stichococcus contortus</i>	0	0	0	7	9	0		0	0	0	126	168	0
<i>Botryococcus braunii (colonies)</i>	0.01	0.00	0.00	0.00	0.00	0.00		22337	0	0	0	0	0
<i>Crucigeniella sp</i>	2	0	2	2	1	0		141	0	152	152	76	0
<i>Dictyosphaerium</i>	6	0	3	0	0	0		357	0	161	0	0	0
<i>Elakotothrix gelatinosa</i>	0	0	1	0	0	0		0	0	123	0	0	0
<i>Oocystis sp.</i>	9	12	11	6	1	2		1229	1661	1578	831	83	332
<i>Sphaerocystis Schroeteri</i>	2	0	4	0	0	0		0	0	0	0	0	0
Diatoms (Bacillariophyceae)													
<i>Asterionella formosa</i>	0	2	0	12	3	5		0	655	0	3440	819	1310
<i>Aulacoseira granulata</i>	0	0	5	4	5	4		0	0	1451	1269	1451	1269
<i>Aulacoseira granulata var. angustissima</i>	0	0	0	0	0	3		0	0	0	0	0	761
<i>Cyclotella stelligera</i>	3	5	5	5	1	0		433	842	842	749	94	0
<i>Fragilaria crotonensis</i>	75	87	207	104	21	30		26921	31205	73929	37279	7539	10681
<i>Fragilaria sp.</i>	0	0	0	6	0	0		0	0	0	2094	0	0
<i>Nitzschia sp.</i>	0	1	1	0	0	0		0	456	228	0	0	0
<i>Small unknown diatom sp.</i>	0	1	0	0	0	0		0	64	0	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
<i>Closterium acutum var. variable</i>	0	0	0	2	1	0		0	0	0	882	221	0
Chrysophyta (Chrysophyceae)													
<i>Dinobryon sp.</i>	17	0	11	0	0	0		989	0	621	0	0	0
<i>Cryptomonas sp.</i>	0	0	1	1	0	0		0	0	84	84	0	0
Dinoflagellates (Dinophyceae)													
<i>Ceratium hirundinella</i>	0	0	0	0	0	0		0	0	210	0	0	0
<i>Gymnodinium sp. 1</i>	0	1	2	0	0	0		0	1287	1931	0	0	0
<i>Gymnodinium sp. 2</i>	0	0	0	0	0	0		0	0	0	0	0	0
<i>Peridinium sp.</i>	1	0	1	1	0	0		4328	0	2340	2340	0	0
Flagellates 5μm													
<i>Flagellates < 5μm/unicells</i>	24	29	37	17	9	9		833	1003	1290	594	328	328

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2013-2014													
From Site A (Mid Lake) 7/11/2013													
	Surface JK1	10m JK2	20m JK3	50m JK6	100m JK11	150m JK16		Surface JK1	10m JK2	20m JK3	50m JK6	100m JK11	150m JK16
	7/11/2013	7/11/2013	7/11/2013	7/11/2013	7/11/2013	7/11/2013		7/11/2013	7/11/2013	7/11/2013	7/11/2013	7/11/2013	7/11/2013
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3
Blue greens (Cyanophyceae)													
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	19.4	31.6	31.7	0.1	0.0	0.0		2249	3670	3680	48	0	0
<i>Pseudanabaena sp.</i>	0.0	0.0	0.0	0.0	1.8	2.3		0	0	0	0	35	44
Greens (Chlorophyceae)													
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	18	9	14	5	5	11		750	393	590	221	221	467
<i>Stichococcus contortus</i>	8	9	0	5	13	9		136	168	0	84	232	168
<i>Botryococcus braunii (colonies)</i>	0.00	0.00	0.01	0.01	0.00	0.00		0	0	18152	18152	0	0
<i>Chlamydomonas sp.</i>	0	0	0	1	0	0		0	0	0	123	0	0
<i>Dictyosphaerium</i>	0	9	0	0	0	0		0	515	0	0	0	0
<i>Eudorina elegans</i>	0	0	0	0	0	0		20	0	0	0	0	0
<i>Oocystis sp.</i>	13	25	13	10	3	5		1844	3572	1828	1412	415	748
<i>Scenedesmus sp.</i>	0	0	5	5	0	5		0	0	243	243	0	243
<i>Sphaerocystis Schroeteri</i>	35	46	60	25	0	0		0	0	0	0	0	0
<i>Tetraedon gracile</i>	1	1	0	1	0	0		60	129	0	64	0	0
<i>Volvox aureus</i>	0	4	0	0	0	0		0	216	0	0	0	0
<i>unidentified Colonial green</i>	14	9	0	0	0	0		0	0	0	0	0	0
Diatoms (Bacillariophyceae)													
<i>Asterionella formosa</i>	29	22	40	5	6	0		8028	6061	11302	1474	1638	0
<i>Aulacoseira granulata</i>	29	27	17	85	39	43		8889	8523	5259	26477	12150	13420
<i>Aulacoseira granulata var. angustissima</i>	2	0	6	13	11	13		422	0	1673	3346	2890	3346
<i>Cyclotella stelligera</i>	4	4	6	11	5	11		606	562	936	1685	749	1778
<i>Fragilaria crotonensis</i>	58	57	28	27	1	4		20724	20524	10053	9843	419	1257
<i>Fragilaria sp.</i>	0	16	0	0	7	0		0	5864	0	0	2513	0
<i>Nitzschia sp.</i>	5	11	1	2	1	1		1899	4335	456	913	456	228
<i>Synedra sp.</i>	1	0	1	2	1	0		426	0	230	922	230	0
<i>Eunotia sp.</i>	0	0	1	1	0	0		0	0	0	0	0	0
<i>Small unknown diatom sp.</i>	2	2	1	0	1	0		179	193	129	0	64	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
<i>Closterium acutum var. variable</i>	3	2	1	1	1	2		1224	662	441	441	441	662
Chrysophyta (Chrysophyceae)													
<i>Dinobryon sp.</i>	38	21	0	0	0	0		2234	1243	0	0	0	0
<i>Cryptomonas sp.</i>	0	2	5	4	1	2		0	337	674	505	168	253
Dinoflagellates (Dinophyceae)													
<i>Ceratium hirundinella</i>	0	0	0	0	0	0		0	210	210	420	0	0
<i>Gymnodinium sp. 1</i>	0	2	1	1	0	0		0	2574	644	644	0	0
<i>Peridinium sp.</i>	8	4	4	1	1	0		32460	16380	14040	2340	2340	0
Flagellates $5\mu\text{m}$													
<i>Flagellates < 5μm/unicells</i>	48	49	54	15	6	8		1685	1720	1884	532	225	287

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2012-2013										
From Site A (Mid Lake) 22/04/2013										
	Surface ZE1	10m ZE2	50m ZE6	100m ZE11	150m ZE16	Surface ZE1	10m ZE2	50m ZE6	100m ZE11	150m ZE16
	22/04/2013	22/04/2013	22/04/2013	22/04/2013	22/04/2013	22/04/2013	22/04/2013	22/04/2013	22/04/2013	22/04/2013
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	μm^3	μm^3	μm^3	μm^3	μm^3
Blue greens (Cyanophyceae)										
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	25.6	26.4	5.6	5.6	2.0	2968	3065	645	644	226
<i>Aphanocapsa</i> sp.	0.0	0.0	0.0	0.0	1.3	0	0	0	0	11
<i>Phormidium</i> sp.	0.0	0.0	0.0	0.0	0.2	0	0	0	0	5
<i>Pseudanabaena</i> sp.	0.3	0.0	0.0	0.0	2.4	5	0	0	0	45
Greens (Chlorophyceae)										
<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>	0	0	4	1	1	0	0	147	49	49
<i>Stichococcus contortus</i>	0	0	0	0	2	0	0	0	0	32
<i>Elakotothrix gelatinosa</i>	8	5	0	0	1	795	491	0	0	61
<i>Oocystis</i> sp.	17	23	5	4	2	2458	3240	748	581	332
<i>Volvox aureus</i>	0	10	0	0	0	0	570	0	0	0
unidentified Colonial green	0	0	2	6	2	0	0	0	0	0
Diatoms (Bacillariophyceae)										
<i>Asterionella formosa</i>	0	0	8	0	2	0	0	2293	0	491
<i>Aulacoseira granulata</i>	3	6	1	6	8	1006	1995	363	1995	2539
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	4	6	1	0	0	913	1673	304
<i>Aulacoseria</i> sp.	5	0	0	0	0	0	0	0	0	0
<i>Cocconeis</i>	1	0	0	0	1	283	0	0	0	306
<i>Cyclotella stelligera</i>	0	1	2	1	1	0	94	281	187	94
<i>Fragilaria crotonensis</i>	15	11	2	19	5	5423	3770	838	6911	1675
<i>Fragilaria</i> sp.	0	0	9	0	0	0	0	3141	0	0
<i>Nitzschia</i> sp.	2	4	1	1	1	844	1369	456	228	456
<i>Synedra</i> sp.	0	1	0	0	1	0	230	0	0	230
<i>Amphora</i> sp.	0	1	1	0	1	0	306	612	0	306
Small unknown diatom sp.	2	1	1	0	1	179	129	129	0	64
Desmids (Mesotaeniaceae, Desmidiaceae)										
<i>Closterium acutum</i> var. <i>variable</i>	0	0	1	1	1	0	0	221	441	221
Chrysophyta (Chrysophyceae)										
<i>Dinobryon</i> sp.	88	61	0	1	0	5171	3624	0	69	0
<i>Cryptomonas</i> sp.	1	4	3	1	0	156	590	421	84	0
Dinoflagellates (Dinophyceae)										
<i>Ceratium hirundinella</i>	0	0	0	0	0	0	0	420	210	210
<i>Gymnodinium</i> sp. 1	1	0	0	0	0	1190	0	0	0	0
<i>Peridinium</i> sp.	2	2	0	0	1	8656	9360	0	0	2340
Flagellates $5\mu\text{m}$										
Flagellates $< 5\mu\text{m}$ /unicells	31	42	16	8	9	1079	1474	553	266	307

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2012-2013													
From Site A (Mid Lake) 24/10/2012													
	Surface RF1	10m RF2	20m RF3	50m RF6	100m RF11	150m RF16		Surface RF1	10m RF2	20m RF3	50m RF6	100m RF11	150m RF16
	24/10/2012	24/10/2012	24/10/2012	24/10/2012	24/10/2012	24/10/2012		24/10/2012	24/10/2012	24/10/2012	24/10/2012	24/10/2012	24/10/2012
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3	Biovolume μm^3
Blue greens (Cyanophyceae)													
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	31.1	38.8	20.9	15.0	4.1	2.7		3610	4501	2429	1735	473	312
<i>Aphanocapsa sp.</i>	1.5	0.9	0.0	1.6	2.4	2.5		13	8	0	15	22	23
<i>Pseudanabaena sp.</i>	0.0	0.0	0.0	0.0	1.5	12.8		0	0	0	0	28	242
Greens (Chlorophyceae)			0							0			
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	21	29	5	15	14	9		863	1229	197	614	590	393
<i>Stichococcus contortus</i>	2	0	5	0	0	0		29	0	84	0	0	0
<i>Botryococcus braunii (colonies)</i>	0.0	0.0	0.0	0.0	0.0	0.0		58590	0	0	51006	0	0
<i>Crucigeniella sp</i>	4	0	0	0	0	0		281	0	0	0	0	0
<i>Elakotothrix gelatinosa</i>	2	2	2	6	2	0		227	184	246	614	246	0
<i>Eudorina elegans</i>	0	29	13	9	20	0		10	7488	3295	2396	5092	0
<i>Nephrocytium lunatum</i>	0	0	0	0	0	2		0	0	0	0	0	0
<i>Oocystis sp.</i>	5	11	5	17	4	5		768	1495	748	2409	581	748
<i>Scenedesmus sp.</i>	0	5	0	0	0	0		0	243	0	0	0	0
<i>Westella botryoides</i>	0	32	23	27	25	0		8	2053	1521	1749	1635	0
<i>unidentified Colonial green</i>	6	4	0	6	5	0		0	0	0	0	0	0
Diatoms (Bacillariophyceae)													
<i>Asterionella formosa</i>	104	101	147	85	107	122		29236	28337	41114	23915	29975	34234
<i>Aulacoseira granulata</i>	0	46	105	74	95	84		0	14327	32643	23031	29560	25933
<i>Aulacoseira granulata var. angustissima</i>	13	32	16	40	14	4		3376	8366	4107	10495	3650	913
<i>Cyclotella stelligera</i>	6	4	2	7	5	10		952	562	374	1123	842	1591
<i>Fragilaria sp.</i>	0	1	0	0	0	0		0	209	0	0	0	0
<i>Nitzschia sp.</i>	0	0	1	1	1	2		0	0	228	228	456	913
<i>Closterium acutum var. variable</i>	1	1	0	1	1	0		204	221	0	221	221	0
Chrysophyta (Chrysophyceae)													
<i>Dinobryon sp.</i>	34	39	34	50	6	16		2011	2313	2002	2968	380	966
<i>Cryptomonas sp.</i>	0	0	0	2	1	0		0	0	0	337	84	0
Dinoflagellates (Dinophyceae)			0							0			
<i>Ceratium hirundinella</i>	0	0	0	0	0	0		0	420	0	210	420	0
<i>Gymnodinium sp. 2</i>	0	0	0	0	0	0		0	200	1600	400	2400	0
Flagellates 5μm													
Flagellates < 5μm/unicells	28	147	148	109	68	82		985	5160	5180	3808	2396	2867

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2011-2012

From Site A (Mid Lake) 10/04/2012

	Surface HC1	10m HC2	50m HC6	100m HC11	150m HC16	Surface HC1	10m HC2	50m HC6	100m HC11	150m HC16
	10/04/2012	10/04/2012	10/04/2012	10/04/2012	10/04/2012	10/04/2012	10/04/2012	10/04/2012	10/04/2012	10/04/2012
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	μm^3	μm^3	μm^3	μm^3	μm^3
Blue greens (Cyanophyceae)										
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	16.66	5.5	0.8	0	0.3	1933	636	92	0	32
<i>Anabaena planktonica</i>	0	0	1.1	0	0	0	0	439	0	0
<i>Anabaena sp.</i>	0	0	0	0	0.6	0	0	0	0	51
<i>Snowella sp.</i>	0	0	0.2	0.1	0	0	0	5	3	0
<i>Phormidium sp.</i>	0	0	0.7	0	0.1	0	0	14	0	3
<i>Aphanothece sp.</i>	0	0.7	0	0	0	0	6	0	0	0
<i>Pseudanabaena sp.</i>	2.8	0	0	0	0.2	54	0	0	0	3
Greens (Chlorophyceae)										
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	49	45	35	3	4	2039	1892	1474	123	147
<i>Botryococcus braunii (colonies)</i>	0	0	0	0	0	0	38315	0	0	0
<i>Dictyosphaerium</i>	0	0	0	0	0	0	10	7	0	0
<i>Elakotothrix gelatinosa</i>	0	0	1	0	0	0	0	123	0	0
<i>Eudorina elegans</i>	0	4	0	0	0	0	899	0	0	0
<i>Nephrocytium lunatum</i>	0	2	0	0	0	0	0	0	0	0
<i>Oocystis sp.</i>	7	8	6	0	1	997	1163	831	0	166
<i>Scenedesmus sp.</i>	0	0	0	0	1	0	0	0	0	61
Diatoms (Bacillariophyceae)										
<i>Asterionella formosa</i>	8	0	9	3	4	2293	0	2457	819	1147
<i>Aulacoseira granulata</i>	0	0	9	0	15	0	0	2720	0	4534
<i>Aulacoseira granulata var. angustissima</i>	0	4	0	2	17	0	1065	0	608	4411
<i>Cyclotella stelligera</i>	1	0	1	0	1	94	0	187	0	187
<i>Fragilaria crotonensis</i>	47	111	13	31	41	16754	39792	4817	11100	14660
<i>Nitzschia sp.</i>	8	10	18	6	8	2966	3879	7073	2282	2966
<i>Synedra sp.</i>	1	0	0	0	0	230	0	46	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)										
<i>Closterium aciculare</i>	0	0	0	0	1	0	0	0	0	350
<i>Closterium acutum var. variable</i>	1	1	1	2	1	221	221	221	662	441
Chrysophyta (Chrysophyceae)										
<i>Dinobryon sp.</i>	11	20	5	0	0	621	1208	276	0	0
<i>Cryptomonas sp.</i>	0	1	1	0	0	0	168	168	0	0
Dinoflagellates (Dinophyceae)										
<i>Gymnodinium sp. 1</i>	1	2	0	0	0	644	2574	0	0	0
<i>Gymnodinium sp. 2</i>	0	0	0	0	0	0	0	260	0	20
<i>Gonyaulax sp.</i>	4	4	0	0	0	7020	7020	0	0	0
Flagellates 5μm										
Flagellates < 5μm/unicells	94	178	75	12	22	3276	6245	2641	410	778

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2011-2012													
From Site A (Mid Lake) 25/10/2011													
	Surface	10m	20m	50m	100m	150m		Surface	10m	20m	50m	100m	150m
	ZH1	ZH2	ZH16	ZH3	ZH6	ZH11		ZH1	ZH2	ZH16	ZH3	ZH6	ZH11
	25/10/2011	25/10/2011	25/10/2011	25/10/2011	25/10/2011	25/10/2011		25/10/2011	25/10/2011	25/10/2011	25/10/2011	25/10/2011	25/10/2011
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		μm^3	μm^3	μm^3	μm^3	μm^3	μm^3
Blue greens (Cyanophyceae)													
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	4.1	0.0	0.0	4.6	0.0	0.1		478	0	0	529	0	10
Greens (Chlorophyceae)													
<i>Monoraphidium sp./ Ankistrodesmus falcatus</i>	0	1	3	3	27	3		0	25	123	123	1155	123
<i>Stichococcus contortus</i>	0	0	0	0	36	0		0	0	0	0	653	0
<i>Botryococcus braunii (colonies)</i>	0.0	0.0	0.0	0.0	0.0	0.0		0	18152	0	0	0	18152
<i>Dictyosphaerium</i>	0	0	0	2	0	0		0	0	0	129	0	0
<i>Elakothrix gelatinosa</i>	1	1	0	2	2	1		114	123	0	246	184	123
<i>Oocystis sp.</i>	5	2	0	3	4	5		768	332	0	415	498	665
<i>Sphaerocystis Schroeteri</i>	0	0	0	0	24	10		0	0	0	0	0	0
unidentified Colonial green	4	2	0	2	2	0		0	0	0	0	0	0
Diatoms (Bacillariophyceae)													
<i>Asterionella formosa</i>	4	4	0	2	9	6		1060	1147	0	655	2621	1802
<i>Aulacoseira granulata</i>	6	6	11	23	25	16		1845	1995	3446	7073	7617	5078
<i>Aulacoseira granulata var. angustissima</i>	17	24	11	26	30	20		4501	6236	2738	6692	7757	5171
<i>Cocconeis</i>	0	1	0	0	0	0		0	306	0	0	0	0
<i>Cyclotella stelligera</i>	10	7	5	6	14	11		1645	1123	842	1030	2246	1685
<i>Fragilaria crotonensis</i>	13	18	0	31	20	11		4648	6283	0	11100	7121	3770
<i>Nitzschia sp.</i>	1	1	1	0	2	3		422	456	228	0	913	1141
<i>Synedra sp.</i>	0	0	1	1	1	2		0	0	230	230	461	922
<i>Amphora sp.</i>	0	0	1	0	0	1		0	0	306	0	0	306
Small unknown diatom sp.	0	0	0	1	1	1		0	0	0	129	64	129
Desmids (Mesotaeniaceae, Desmidiaceae)													
<i>Closterium acutum var. variable</i>	1	0	2	1	1	0		204	0	662	221	221	0
Chrysophyta (Chrysophyceae)													
<i>Dinobryon sp.</i>	14	32	0	30	12	0		798	1898	0	1795	725	0
<i>Cryptomonas sp.</i>	0	0	0	2	1	1		0	0	0	337	168	168
Dinoflagellates (Dinophyceae)													
<i>Ceratium hirundinella</i>	0	0	0	0	0	0		210	0	0	210	0	0
Flagellates 5μm													
Flagellates < 5 μm /unicells	23	25	11	24	22	8		795	880	389	839	778	287

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2010-2011													
From Site A (Mid Lake) 10/11/2010													
Sample code	KD1	KD2	KD3	KD6	KD11	KD16		KD1	KD2	KD3	KD6	KD11	KD16
	Surface	10m	20m	50m	100m	150m		Surface	10m	20m	50m	100m	150m
Depth	10/11/2010	10/11/2010	10/11/2010	10/11/2010	10/11/2010	10/11/2010		10/11/2010	10/11/2010	10/11/2010	10/11/2010	10/11/2010	10/11/2010
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		μm^3	μm^3	μm^3	μm^3	μm^3	μm^3
Blue greens (Cyanophyceae)													
<i>Anabaena c.f. lemmermannii</i>	11.4	48.7	25.5	6.1	0.0	0.0		1023	4387	2293	547	0	0
<i>Aphanocapsa sp.</i>	0.0	0.0	0.0	0.0	0.0	8.2		0	0	0	0	0	74
<i>Pseudanabaena sp.</i>	0.0	0.0	0.0	0.0	0.1	40.6		0	0	0	0	3	772
Greens (Chlorophyceae)													
<i>Actinastrum hantschii</i>	0	0	0.0	0	0	0.2		0	0	0	0	0	0
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	382	539	235	115	38	0.4		16042	22631	9884	4817	1593	15
<i>Stichococcus contortus</i>	0	0	0	18	9	0.0		0	0	0	321	160	0
<i>Botryococcus braunii (colonies)</i>	0.0	0	0	0	0	0		0	0	0	0	110	0
<i>Dictyosphaerium sp.</i>	1	20	2	9	0	0		0	0	0	0	0	0
<i>Eudorina elegans</i>	1	1	1	1	0	0		277	150	138	300	0	0
<i>Oocystis sp.</i>	4	2	2	9	2	0		615	332	307	1246	229	0
<i>Scenedesmus sp.</i>	0	2	0	2	0	10		0	122	0	122	0	504
Diatoms (Bacillariophyceae)													
<i>Asterionella formosa</i>	102	129	73	104	10	6		28630	36036	20450	29156	2711	1582
<i>Aulacoseira granulata</i>	18	137	76	235	88	140		5534	42436	23479	72903	27390	43274
<i>Aulacoseira granulata var. angustissima</i>	0	0	0	18	5	0		0	0	0	4715	1259	0
<i>Cyclotella stelligera</i>	2	2	2	4	0	4		346	374	346	655	0	581
<i>Fragilaria crotonensis</i>	16	15	6	4	0	0		5810	5236	2130	1257	0	0
<i>Nitzschia sp.</i>	0	5	3	2	4	4		0	1825	1266	684	1573	1731
<i>Synedra sp.</i>	3	0	0	1	1	0		1279	0	0	461	318	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
<i>Closterium acutum var. variable</i>	0	0	0	2	0	1		0	0	0	662	152	456
<i>Mougeotia sp.</i>	0	0	0	2	0	0		0	0	0	0	0	0
<i>Staurastrum tangaroaii</i>	0	1	1	0	0	0		0	0	0	0	0	0
Chrysophyta (Chrysophyceae)													
<i>Dinobryon sp.</i>	62	191	145	13	0	0		3639	11252	8554	759	0	0
<i>Cryptomonas sp.</i>	0	0	0	1	1	0		0	0	0	168	116	0
Dinoflagellates (Dinophyceae)													
<i>Gymnodinium sp. 1</i>	0	1	1	0	0	1		0	644	1190	0	0	888
<i>Gymnodinium sp. 2</i>	0	0	1	1	0	0		0	0	27050	14625	0	0
<i>Gonyaulax sp.</i>	207	2	4	0	0	0		413324	4680	7574	0	0	0
Flagellates 5μm													
Flagellates < 5μm/unicells	214	205	188	147	26	28		7498	7166	6589	5160	918	988

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2010-2011											
From Site A (Mid Lake) 13/04/2011											
Sample code	RL1	RL2	RL6	RL11	RL16		RL1	RL2	RL6	RL11	RL16
Depth	0m	10m	50m	100m	150m		0m	10m	50m	100m	150m
	13/04/2011	13/04/2011	13/04/2011	13/04/2011	13/04/2011		13/04/2011	13/04/2011	13/04/2011	13/04/2011	13/04/2011
	Cells/ml	Cells/ml	Cells/ml	Cells/ml	Cells/ml		μm^3	μm^3	μm^3	μm^3	μm^3
Blue greens (Cyanophyceae)											
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	16.7	5.0	0.4	0.0	0.0		1933	580	42	0	0
<i>Gloeocapsa sp.</i>	0.0	0.0	0.2	0.0	0.0		0	0	2	0	0
<i>Snowella sp.</i>	0.0	0.0	0.0	0.2	0.0		0	0	0	5	0
<i>Pseudanabaena sp.</i>	2.8	0.0	0.0	0.0	0.0		54	0	0	0	0
Greens (Chlorophyceae)											
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	2	1	5	1	2		74	49	217	49	74
<i>Botryococcus braunii (colonies)</i>	0	1	0	0	0		8760	512447	0	0	0
<i>Dictyosphaerium</i>	2	2	2	0	0		97	97	97	0	0
<i>Elakotothrix gelatinosa</i>	2	0	0	0	0		227	0	0	0	0
<i>Eudorina elegans</i>	0	0	0	0	0		18	0	0	0	0
<i>Oocystis sp.</i>	44	55	1	0	0		6223	7808	166	0	0
Diatoms (Bacillariophyceae)											
<i>Asterionella formosa</i>	3	3	2	1	2		746	819	655	328	655
<i>Aulacoseira granulata</i>	6	1	4	2	2		1753	363	1088	544	725
<i>Aulacoseira granulata var. angustissima</i>	0	3	18	19	15		0	760	4563	4867	3802
<i>Cyclotella stelligera</i>	3	2	1	2	1		420	374	187	281	94
<i>Fragilaria crotonensis</i>	14	23	0	0	0		4889	8377	0	0	0
<i>Fragilaria sp.</i>	0	0	1	0	0		0	0	209	0	0
<i>Nitzschia sp.</i>	0	0	1	0	0		0	0	228	0	0
<i>Synedra sp.</i>	0	1	0	0	0		0	230	0	0	0
<i>Rhoicosphenia sp.</i>	0	0	1	0	0		0	0	306	0	0
Small unknown diatom sp.	0	0	1	0	0		0	0	129	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)											
<i>Closterium acutum var. variable</i>	0	1	1	0	0		0	221	221	0	0
Chrysophyta (Chrysophyceae)											
<i>Dinobryon sp.</i>	13	13	0	1	1		751	794	0	35	35
<i>Cryptomonas sp.</i>	0	1	2	0	0		0	84	253	0	0
Dinoflagellates (Dinophyceae)											
<i>Gymnodinium sp. 1</i>	1	1	0	0	0		595	643	0	0	0
Flagellates 5μm											
Flagellates < 5 μm /unicells	35	32	28	6	3		1214	1106	983	225	102

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2009-2010
From Site A (Mid Lake) 19/10/2009

Sample code	OT1	OT2	OT3	OT6	OT8	OT11	OT16	OT1	OT2	OT3	OT6	OT8	OT11	OT16
Depth	Surface	10m	20m	50m	70m	100m	150m	Surface	10m	20m	50m	70m	100m	150m
	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Blue greens (Cyanophyceae)														
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)														
	27.4	6.8	1.1	0.4	0.0	0.0	0.1	2470	610	99	40	0	0	9
<i>Chroococcus</i> sp.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2	0	0	0	0	0	0
<i>Microcystis</i> sp.	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0	19	0	0	0	0	0
<i>Dictyosphaerium</i> sp.	18.0	31.6	31.3	7.4	2.7	0.4	0.0	451	789	782	186	67	11	0
<i>Phormidium</i> sp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0
<i>Pseudanabaena</i> sp.	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0	0	0	0	4	0	0
Greens (Chlorophyceae)														
<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>														
	2	4	0	0	12	0	0	68	147	0	0	491	0	0
<i>Botryococcus braunii</i> (colonies)	0.0	0	0	0	0	0	0	30946	0	950	0	0	0	1900
<i>Crucigeniella</i> sp	4	8	0	0	2	0	0	281	494	0	0	0	152	0
<i>Dictyosphaerium</i> sp.	0	0	0	0	0	0	9	0	0	0	0	0	0	658
<i>Eudorina elegans</i>	0	0	0	11	0	0	0	0	0	0	2696	0	0	0
<i>Nephrocytium agardhianum</i>	0	11	5	0	0	0	0	0	790	351	0	0	0	0
<i>Oocystis</i> sp.	0	7	5	0	2	2	0	0	997	665	0	332	332	0
<i>Westella botryoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paulschulzia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diatoms (Bacillariophyceae)														
<i>Asterionella formosa</i>	128	218	97	78	26	4	43	35749	60934	27191	21785	7207	983	12121
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	17	49	43	21	65	40	36	4360	12624	11103	5476	16883	10343	9278
<i>Cyclotella stelligera</i>	4	5	1	2	11	15	18	692	842	187	374	1778	2340	2808
<i>Fragilaria crotonensis</i>	267	467	352	153	76	32	47	95677	167335	126077	54871	27226	11519	16754
<i>Nitzschia</i> sp.	1	0	1	0	0	0	0	422	0	228	0	0	0	0
<i>Synedra</i> sp.	1	2	0	0	0	0	2	213	922	0	0	0	0	691
Desmids (Mesotaeniaceae, Desmidiaceae)														
<i>Closterium aciculare</i>	0	1	1	0	0	0	0	0	350	350	0	0	0	0
<i>Closterium acutum</i> var. <i>variable</i>	2	1	0	1	2	1	1	612	441	0	441	662	221	441
Chrysophyta (Chrysophyceae)														
<i>Dinobryon</i> sp.	23	70	140	89	3	0	0	1373	4142	8284	5246	173	0	0
<i>Cryptomonas</i> sp.	0	0	0	1	1	0	0	0	0	0	84	168	0	0
Dinoflagellates (Dinophyceae)														
<i>Gymnodinium</i> sp. 1	1	0	0	0	0	0	0	595	0	0	0	0	0	0
<i>Gymnodinium</i> sp. 2	0	0	0	0	0	0	0	0	0	2925	2925	0	0	0
<i>Peridinium</i> sp.	0	0	0	0	0	0	0	0	0	0	1170	0	0	0
<i>Gonyaulax</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flagellates 5μm														
Flagellates < 5 μm /unicells	144	294	211	172	159	79	102	5037	10299	7371	6020	5569	2764	3583

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2009-2010

From Site A (Mid Lake) 7/04/2010

	Sample code	YZ1	YZ2	YZ3	YZ6	YZ11	YZ16	YZ1	YZ2	YZ3	YZ6	YZ11	YZ16
	Depth	Surface	10m	20m	50m	100m	150m	Surface	10m	20m	50m	100m	150m
		Cell	Cell	Cell	Cell	Cell	Cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
		(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Blue greens (Cyanophyceae)													
	<i>Anabaena c.f. lemmermannii</i>	10.2	27.6	15.4	5.3	0.3	0.6	921	2482	1390	475	27	53
	<i>Dolichospermum planctonicum</i> (formerly; <i>Anabaena planktonica</i>)	0.6	0.0	0.0	0.0	0.0	0.0	242	0	0	0	0	0
	<i>Aphanocapsa</i> sp.	0.0	0.0	0.0	0.0	0.4	0.0	0	0	0	0	4	0
	<i>cf Heteroleibleinia</i> sp.	0.0	0.0	0.3	0.0	0.0	0.0	0	0	5	0	0	0
	<i>Phormidium</i> sp.	0.0	0.0	0.0	0.0	0.0	0.4	0	0	0	0	0	8
	<i>Pseudanabaena</i> sp.	0.0	0.0	0.0	0.0	2.3	0.3	0	0	0	0	44	6
Greens (Chlorophyceae)													
	<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>	0	0	0	111	0	0	0	0	0	4643	0	0
	<i>Botryococcus braunii</i> (colonies)	0.0	0	0	0	0	0	1200	76	6621	0	76	76
	<i>Elakotothrix gelatinosa</i>	1	0	0	0	0	0	157	0	0	0	0	0
	<i>Eudorina elegans</i>	0	0	4	0	0	0	96	0	930	0	0	0
	<i>Nephrocytium agardhianum</i>	10	2	2	2	0	0	0	182	0	0	0	0
	<i>Nephrocytium lunatum</i>	0	5	0	0	0	0	784	387	121	121	0	0
	<i>Oocystis</i> sp.	16	28	12	23	2	15	2225	4010	1719	3208	344	2177
	<i>Quadrigula lacustris</i>	1	0	0	0	0	0	245	0	0	0	0	0
	<i>Scenedesmus</i> sp.	0	2	0	3	0	0	0	84	0	168	0	0
Diatoms (Bacillariophyceae)													
	<i>Asterionella formosa</i>	0	0	0	0	1	0	0	0	0	0	226	0
	<i>Aulacoseira granulata</i>	0	0	0	0	0	8	116	0	0	0	0	2626
	<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	0	1	5	0	0	0	0	210	1259	0
	<i>Cocconeis</i>	0	0	0	0	0	0	0	0	211	0	0	0
	<i>Cyclotella stelligera</i>	4	0	0	2	0	1	716	0	0	323	0	194
	<i>Fragilaria crotonensis</i>	0	23	7	8	2	1	134	8088	2600	2744	578	433
	<i>Nitzschia</i> sp.	2	4	4	0	1	0	873	1416	1416	0	315	0
	<i>Eunotia</i> sp.	4	0	0	0	0	0	0	0	0	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
	<i>Closterium acutum</i> var. <i>variable</i>	0	0	0	1	1	0	0	0	0	304	456	152
	<i>Staurastrum</i> sp.	0	0	0	0	0	0	0	0	0	1	0	0
Chrysophyta (Chrysophyceae)													
	<i>Dinobryon</i> sp.	42	13	61	6	0	0	2487	738	3618	381	0	0
	<i>Cryptomonas</i> sp.	0	0	0	2	0	0	0	0	58	232	0	0
Dinoflagellates (Dinophyceae)													
	<i>Ceratium hirundinella</i>	0	0	2	4	0	0	126	147	246	369	0	0
	<i>Gymnodinium</i> sp. 1	0	1	0	0	0	0	0	888	0	0	444	0
	<i>Gymnodinium</i> sp. 2	0	1	0	0	0	0	0	20172	0	0	0	0
	<i>Gonyaulax</i> sp.	6	5	3	0	0	0	12686	10490	5648	0	0	0
Flagellates 5μm													
	Flagellates < 5 μm /unicells	47	59	56	40	11	19	1658	2062	1949	1384	395	650

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2008-2009
From Site A (Mid Lake) 15/04/2009

Sample code	SZ1	SZ2	SZ3	SZ6	SZ11	SZ16	SZ1	SZ2	SZ3	SZ6	SZ11	SZ16
Depth	Surface	10m	20m	50m	100m	150m	Surface	10m	20m	50m	100m	150m
	Cell	Cell	Cell	Cell	Cell	Cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Species composition by class												
Blue greens (Cyanophyceae)												
<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	0.0	1.3	0.0	0.8	0.0	0.0	0	51	0	31	0	0
<i>Aphanothece sp.</i>	0.0	0.0	0.0	0.0	7.3	0.0	0	0	0	0	66	0
<i>Pseudanabaena sp.</i>	0.0	0	0.0	0.0	22.2	5.3	0	0	0	0	422	100
Greens (Chlorophyceae)												
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	68	71	0.5	55	13	6	2875	2998	22	2318	545	273
<i>Stichococcus contortus</i>	0	0	0.0	0	17	15	0	0	0	0	302	263
<i>Kirchneriella contorta</i>	0	0	0.0	1	0	0	0	0	0	36	0	0
<i>Botryococcus braunii (colonies)</i>	0.0	0	0.0	0.0	0	0	0	0	21653	16240	76507.95	0
<i>Elakothrix gelatinosa</i>	5	10	2	2	0	0	491	1044	227	227	0	0
<i>Nephrocytium agardhianum</i>	2	0	0	0	0	0	0	0	0	0	0	0
<i>Oocystis sp.</i>	6	1	4	1	4	1	831	166	581	166	498	166
<i>Quadrigula lacustris</i>	2	0	0	0	0	0	384	0	0	0	0	0
Diatoms (Bacillariophyceae)												
<i>Asterionella formosa</i>	94	71	102	71	6	2	26372	19820	28501	19984	1802	655
<i>Aulacoseira granulata</i>	0	0	0	1	3	1	0	0	0	363	907	363
<i>Aulacoseira granulata var. angustissima</i>	1	22	8	8	0	0	304	5628	2129	1977	0	0
<i>Cyclotella stelligera</i>	5	4	11	4	2	2	842	562	1685	562	374	281
<i>Fragilaria crotonensis</i>	151	42	9	183	15	7	54033	14870	3141	65552	5236	2513
<i>Synedra sp.</i>	1	0	0	0	0	0	0	0	0	0	0	0
<i>Eunotia sp.</i>	0	1	0	0	0	0	0	0	0	0	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)												
<i>Closterium aciculare</i>	1	1	0	1	0	0	701	701	0	701	0	0
<i>Closterium acutum var. variable</i>	0	0	1	0	1	1	0	0	221	0	221	221
Chrysophyta (Chrysophyceae)												
<i>Dinobryon sp.</i>	1	0	32	3	0	0	69	0	1898	173	0	0
<i>Cryptomonas sp.</i>	0	1	0	1	0	0	0	84	0	84	0	0
Dinoflagellates (Dinophyceae)												
<i>Gymnodinium sp. 2</i>	1	0	1	0	0	0	14625	0	14625	0	0	0
Flagellates 5μm												
Flagellates < 5 μm /unicells	132	201	111	140	24	13	4607	7023	3870	4914	839	450

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2008-2009

From Site A (Mid Lake) 14/10/2008

	Sample code	EU1	EU2	EU6	EU8	EU11	EU16	EU1	EU2	EU6	EU8	EU11	EU16
	Depth	Surface	10m	50m	70m	100m	150m	Surface	10m	50m	70m	100m	150m
		Cell	Cell	Cell	Cell	Cell	Cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
		(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Species composition by class													
Blue greens (Cyanophyceae)													
	<i>Dolichospermum c.f. lemmermannii</i> (formally; <i>Anabaena c.f. lemmermannii</i>)	1.2	8.5	1.6	0.0	0.0	0.0	104	767	143	4	0	0
	<i>Dolichospermum sp.</i> (formally; <i>Anabaena sp.</i>)	0.5	0.9	0.0	0.0	0.0	0.0	49	83	0	0	0	0
	<i>Pseudanabaena sp.</i>	0.0	0.0	0.0	1.7	0.3	0.6	0	0	0	33	5	11
Greens (Chlorophyceae)													
	<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	0	0	54	2	19	2	0	0	2260	66	786	82
	<i>Botryococcus braunii</i> (colonies)	0.0	1	0	0	1	0	123784	1111500	370500	0	741000	0
	<i>Crucigeniella sp.</i>	52	53	5	3	0	0	3399	3448	304	203	0	0
	<i>Elakothrix gelatinosa</i>	1	0	0	0	0	0	76	0	0	0	0	0
	<i>Eudorina elegans</i>	0	11	2	0	0	0	0	2796	599	0	0	0
	<i>Oocystis sp.</i>	3	0	2	0	1	0	410	0	222	0	111	0
	<i>Westella botryoides</i>	0	5	3	2	0	0	0	304	203	152	0	0
	<i>Paulschulzia sp.</i>	2	0	0	0	0	0	0	0	0	0	0	0
Diatoms (Bacillariophyceae)													
	<i>Asterionella formosa</i>	3	6	4	4	1	1	707	1638	1201	1092	218	218
	<i>Aulacoseira granulata</i>	0	2	4	9	5	1	0	605	1209	2660	1693	242
	<i>Aulacoseira granulata var. angustissima</i>	0	2	6	0	0	2	0	507	1622	0	0	406
	<i>Cyclotella stelligera</i>	1	1	4	1	0	0	115	187	686	125	62	62
	<i>Fragilaria crotonensis</i>	6	10	0	0	0	1	2066	3630	0	0	0	419
	<i>Nitzschia sp.</i>	0	0	0	0	0	0	70	152	0	0	0	152
Desmids (Mesotaeniaceae, Desmidiaceae)													
	<i>Closterium aciculare</i>	0	0	0	0	0	0	0	0	117	0	0	0
	<i>Closterium acutum var. variable</i>	0	0	0	2	0	0	0	0	147	735	0	0
Chrysophyta (Chrysophyceae)													
	<i>Dinobryon sp.</i>	7	2	0	0	0	0	426	138	0	0	0	0
	<i>Cryptomonas sp.</i>	0	0	1	0	0	0	0	0	168	0	0	0
Dinoflagellates (Dinophyceae)													
	<i>Gymnodinium sp. 1</i>	0	2	0	0	0	0	0	2145	0	0	0	0
	<i>Gymnodinium sp. 2</i>	0	1	0	0	0	0	0	19500	0	0	0	0
	<i>Gonyaulax sp.</i>	1	1	0	0	0	0	2164	1560	0	0	0	0
Flagellates 5μm													
	Flagellates < 5 μm /unicells	34	46	27	22	10	9	1174	1611	956	778	355	300

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2007-2008
From Site A (Mid Lake) 30/10/2007

Sample code Depth	ZA1	ZA2	ZA3	ZA6	ZA8	ZA11	ZA16	ZA1	ZA2	ZA3	ZA6	ZA8	ZA11	ZA16	
	Surface	10m	20m	50m	70m	100m	150m	Surface	10m	20m	50m	70m	100m	150m	
Species composition by class	cell (per ml)	cell (per ml)	cell (per ml)	cell (per ml)	cell (per ml)	cell (per ml)	cell (per ml)	Biovolume (μm^3)	Biovolume (μm^3)	Biovolume (μm^3)	Biovolume (μm^3)	Biovolume (μm^3)	Biovolume (μm^3)	Biovolume (μm^3)	
Blue greens (Cyanophyceae)															
<i>Anabaena lemmermannii</i>	18.7	22.0	2.9	0.4	0.0	0.0	1.6	1683	1976	257	33	0	0	140	
<i>Chroococcus</i> sp.	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0	0	0	1	0	0	0	
<i>Aphanocapsa</i> sp.	0.0	0.0	0.0	6.9	0.0	5.8	6.6	0	0	0	62	0	52	59	
<i>Planktolyngbya</i> sp.	21.3	0.0	0.0	0.0	0.0	0.0	0.0	192	0	0	0	0	0	0	
<i>Pseudanabaena</i> sp.	0.0	0.0	0.0	0.0	0.0	4.9	0.3	0	0	0	0	0	94	6	
Greens (Chlorophyceae)															
<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>	52	21	29	15	6	0	0	2187	885	1229	614	270	0	0	
<i>Stichococcus contortus</i>	39	6	13	15	6	2	4	706	116	242	274	116	42	63	
<i>Botryococcus braunii</i> (colonies)	0	0	0	1	0	0	0	0	0	0	235139	0	804	0	
<i>Eudorina elegans</i>	13	3	7	0	0	0	0	3295	749	1797	0	0	0	0	
<i>Crucigeniella</i> sp.	0	2	8	5	5	0	0	0	152	532	304	304	0	0	
<i>Nephrocytium agardhianum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Oocystis</i> sp.	9	4	0	1	0	9	1	1246	498	0	166	0	1246	166	
Diatoms (Bacillariophyceae)															
<i>Asterionella formosa</i>	33	73	102	62	34	4	14	9173	20311	28665	17363	9500	983	3931	
<i>Aulacoseira granulata</i>	15	37	91	25	9	25	13	4715	11606	28109	7617	2902	7617	4171	
<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	0	0	0	3	0	0	0	0	0	0	761	0	
<i>Cyclotella stelligera</i>	6	8	22	9	5	9	10	1030	1217	3557	1404	842	1404	1591	
<i>Fragilaria crotonensis</i>	11	14	22	7	7	20	2	3770	5026	7958	2513	2513	7330	838	
<i>Nitzschia</i> sp.	0	0	0	0	0	1	0	0	0	0	0	0	228	0	
Desmids (Mesotaeniaceae, Desmidiaceae)															
<i>Closterium aciculare</i>	1	1	0	1	1	1	1	701	350	0	526	526	350	350	
<i>Closterium acutum</i> var. <i>variable</i>	1	1	0	0	0	0	0	221	265	0	44	0	0	0	
Chrysophyta (Chrysophyceae)															
<i>Dinobryon</i> sp.	275	182	227	135	108	1	0	16222	10734	13392	7938	6351	69	0	
<i>Cryptomonas</i> sp.	0	0	1	1	0	0	0	0	0	168	168	0	0	0	
Dinoflagellates (Dinophyceae)															
<i>Gymnodinium</i> sp. 1	0	1	1	1	1	0	0	0	3510	3510	1755	1755	0	0	
<i>Gymnodinium</i> sp. 2	0	1	0	1	0	0	0	0	14044	26750	1463	0	0	0	
Flagellates 5μm															
Flagellates < 5 μm /unicells	139	404	406	243	144	25	13	4853	14148	14210	8497	5037	860	450	

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2007-2008
From Site A (Mid Lake) 17/04/2008

Species composition by class	Sample code	KA1	KA2	KA3	KA6	KA11	KA16	KA1	KA2	KA3	KA6	KA11	KA16
	Depth	Surface	10m	20m	50m	100m	150m	Surface	10m	20m	50m	100m	150m
		cell	cell	cell	cell	cell	cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
		(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Blue greens (Cyanophyceae)													
	<i>Anabaena lemmermannii</i>	44.8	46.9	24.3	0.0	6.5	1.4	4031	4220	2183	0	584	16
	<i>Pseudanabaena</i> sp.	0.0	0.0	0.0	0.0	0.0	17.4	0	0	0	0	0	331
Greens (Chlorophyceae)													
	<i>Monoraphidium</i> sp./ <i>Ankistrodesmus falcatus</i>	14	3	8	8	0	1	590	123	344	344	0	49
	<i>Stichococcus contortus</i>	6	26	6	0	0	0	116	463	116	0	0	0
	<i>Botryococcus braunii</i> (colonies)	0	0	0	0	0	1	54	31352	6431	26908	1608	156759
	<i>Elakothrix gelatinosa</i>	0	1	1	0	1	0	0	154	123	0	123	0
	<i>Eudorina elegans</i>	0	6	0	0	0	0	75	1498	75	0	0	0
	<i>Crucigeniella</i> sp.	0	0	0	1	0	0	0	0	0	76	0	0
	<i>Oocystis</i> sp.	2	10	2	0	2	1	332	1412	332	0	332	83
	<i>Westella botryoides</i>	0	0	0	0	0	0	0	0	0	8	0	0
Diatoms (Bacillariophyceae)													
	<i>Asterionella formosa</i>	12	23	32	12	3	4	3276	6552	8935	3276	819	983
	<i>Aulacoseira granulata</i>	5	16	5	12	5	9	1484	4946	1484	3808	1632	2720
	<i>Cyclotella stelligera</i>	2	6	2	5	1	1	340	936	340	749	94	94
	<i>Fragilaria crotonensis</i>	4	10	39	1	1	1	1523	3427	14089	419	419	209
	<i>Nitzschia</i> sp.	0	0	22	0	0	0	0	0	8442	0	0	0
	Small unknown diatom sp.	0	0	0	0	1	0	0	0	0	0	64	0
Desmids (Mesotaeniaceae, Desmidiaceae)													
	<i>Closterium aciculare</i>	0	1	0	0	1	0	105	701	105	0	350	4
	<i>Closterium acutum</i> var. <i>variable</i>	0	1	2	2	0	0	0	221	662	662	0	22
Chrysophyta (Chrysophyceae)													
	<i>Dinobryon</i> sp.	64	164	101	0	0	0	3797	9664	5971	0	0	0
	<i>Cryptomonas</i> sp.	1	1	1	3	0	0	84	84	84	421	0	0
Dinoflagellates (Dinophyceae)													
	<i>Gymnodinium</i> sp. 1	1	1	1	0	0	0	3191	3191	3191	0	0	0
	<i>Gymnodinium</i> sp. 2	0	0	0	0	0	0	0	0	0	146	134	0
Flagellates 5μm													
	Flagellates < 5 μm /unicells	46	126	196	37	7	3	1619	4411	6850	1290	246	102

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2006-2007
From Site A (Mid Lake) 1/11/2006

	Sample code	HW1	HW3	HW6	HW11	HW16	HW1	HW3	HW6	HW11	HW16
	Depth	surface	20 m	50 m	100 m	150 m	surface	20 m	50 m	100 m	150 m
		cell	cell	cell	cell	cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
		(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Species composition by class											
Blue greens (Cyanophyceae)											
	<i>Anabaena lemmermannii</i>	63	25	0	0	0	3488.1	1367	25	15	0
	<i>Aphanocapsa</i> sp.	0	0	2	3	0	0	0	14	31	0
Greens (Chlorophyceae)											
	<i>Botryococcus braunii</i> (colonies)	0	0	0	0	0	5151	5901	7321	0	0
	<i>Chlorosarcinopsis</i> sp.	3	0	2	2	0	259	0	182	208	0
	<i>Eudorina elegans</i>	2	5	6	0	0	621	1198	1498	0	0
	<i>Kirchneriella contorta</i>	5	4	0	0	0	176	116	0	0	0
	<i>Lagerheimia</i> sp.	0	1	1	0	0	0	125	166	0	0
	<i>Monoraphidium</i> sp. / <i>Ankistrodesmus falcatus</i>	3	0	0	0	0	143	0	0	0	0
	<i>Oocystis</i> sp.	7	6	6	6	3	1034	872	831	831	415
	<i>Westella botryoides</i>	0	0	7	0	0	0	0	0	0	0
Diatoms (Bacillariophyceae)											
	<i>Asterionella formosa</i>	14	8	7	8	2	3806	2129	1884	2211	573
	<i>Aulacoseira granulata</i>	63	54	49	47	54	19413	16866	15052	14689	16594
	<i>Aulacoseira granulata</i> var. <i>angustissima</i>	0	0	2	3	0	0	0	456	837	0
	<i>Cyclotella stelligera</i>	46	8	4	7	4	7301	1264	562	1123	655
	<i>Fragilaria crotonensis</i>	5	0	2	8	3	1912	0	628	2723	1047
	<i>Nitzschia</i> sp.	2	1	1	0	0	947	342	342	0	0
Desmids (Mesotaeniaceae, Desmidiaceae)											
	<i>Closterium aciculare</i>	0	0	0	0	0	0	35	175	0	0
	<i>Closterium acutum</i> var. <i>variable</i>	0	0	0	0	0	0	0	110	0	0
Chrysophyta (Chrysophyceae)											
	<i>Dinobryon</i> sp.	8	4	6	0	0	458	242	362	0	0
Dinoflagellates (Dinophyceae)											
	<i>Gymnodinium</i> sp. 1	0	1	0	0	0	0	2633	1316	0	88
	<i>Gymnodinium</i> sp. 2	0	0	0	0	0	6068	0	0	0	0
Flagellates 5μm											
	Flagellates < 5 μm /unicells	50	19	31	23	4	1750	676	1085	788	143

Lake Taupo phytoplankton species composition and biovolume (μm^3) 2006-2007
From Site A (Mid Lake) 2/04/2007

Sample code	HW17	HW18	HW19	HW22	HW27	HW32	HW17	HW18	HW19	HW22	HW27	HW32
Depth	surface	10 m	20 m	50 m	100 m	150 m	surface	10 m	20 m	50 m	100 m	150 m
	cell	cell	cell	cell	cell	cell	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume	Biovolume
	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(per ml)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)	(μm^3)
Species composition by class												
Blue greens (Cyanophyceae)												
<i>Anabaena lemmermannii</i>	36	65	56	0	2	0	1493	2655	2286	5	86	10
Greens (Chlorophyceae)												
<i>Botryococcus braunii (colonies)</i>	1	0	0	0	0	0	27630	0	0	41446	0	0
<i>Monoraphidium sp. / Ankistrodesmus falcatus</i>	49	17	17	0	1	0	2064	725	725	0	25	0
<i>Oocystis sp.</i>	2	1	1	0	1	0	332	166	125	0	166	0
<i>Stichococcus contortus</i>	0	0	0	0	0	1	0	0	0	0	0	21
Diatoms (Bacillariophyceae)												
<i>Asterionella formosa</i>	0	0	1	0	0	1	0	82	246	0	0	164
<i>Aulacoseira granulata</i>	2	0	0	5	11	8	544	0	0	1541	3264	2630
<i>Aulacoseira granulata var. angustissima</i>	0	0	0	0	7	2	0	0	0	76	1901	608
<i>Cyclotella stelligera</i>	1	1	1	1	2	1	168	94	94	234	374	140
<i>Eunotia sp.</i>	0	0	0	0	4	0	0	0	0	0	0	0
<i>Fragilaria crotonensis</i>	0	0	0	0	0	1	0	0	0	0	0	209
<i>Nitzschia sp.</i>	2	0	1	0	0	0	799	114	228	0	0	0
Small unknown diatom sp.	0	0	0	0	1	0	0	0	0	0	64	0
Desmids (Mesotaeniaceae, Desmidiaceae)												
<i>Closterium aciculare</i>	0	0	0	1	4	0	0	0	0	350	2453	0
<i>Closterium acutum var. variable</i>	0	0	0	1	0	0	0	0	0	331	0	0
Chrysophyta (Chrysophyceae)												
<i>Cryptomonas sp.</i>	0	1	1	4	0	0	0	211	126	590	0	0
<i>Dinobryon sp.</i>	0	0	0	1	0	0	0	0	0	86	0	0
Dinoflagellates (Dinophyceae)												
<i>Gymnodinium sp. 1</i>	1	0	0	0	0	0	2106	878	878	176	0	0
<i>Gymnodinium sp. 2</i>	1	1	1	0	0	0	14625	21938	14625	0	0	0
Flagellates 5μm												
Flagellates < 5 μm /unicells	185	97	84	127	16	10	6470	3389	2928	4433	573	338

Appendix 5. Historical data

Historical data held by NIWA have frequently been referred to and included in analysis or comparison with the data from the long-term monitoring programme. To ensure that these data are always readily available, the relevant historical data are included in this report. These data are the spring and autumn profiles of NO₃-N and DRP from 1974 to 1990. The nitrate data for 27 September 1979 was taken from Vincent (1983). The more recent data can be found in the previous appendices.

The profiles given are separated by season with the spring data above the data of the following autumn. The earlier profiles were to a depth of 110 m rather than 150 m. Also, as there was no March or April data collected in 1976, for completeness the last available profile in that series (12 January 1976) has been included.

The elapsed time given is the number of days between the spring profile in about October and the autumn profile in March/April of the following year.

The historical data also include an un-paired profile from July 1987. As there were no data for April 1987 and the lake was still stratified in July, when the next period of monitoring began, the July 1987 data may be used to indicate the total mass of nutrients accumulated in the hypolimnion in that year.

Historical data from Site A in Lake Taupo

Nitrate concentrations (mg m⁻³)

Spring

Date	18/11/1974	16/10/1975	4/10/1977	10/10/1978	27/09/1979	5/10/1987	17/10/1988	6/10/1989
Depth (m)								
0	0.8	0.3	1.1	0.0	0.0	0.3	2.6	1.2
10	0.3	0.4	1.2	1.4	0.0	0.4	2.7	1.8
20	0.0	0.0	0.6	0.8	0.5	0.5	2.8	1.0
30	0.3	0.4	0.0	0.7	0.5	0.4	2.8	1.4
40	0.8	0.0	0.1	0.6	1.0	0.6	3.0	1.3
50	2.1	0.3	0.6	0.7	1.0	0.8	2.9	1.0
60	4.9	0.0	1.0	0.8	0.5	1.2	2.5	0.8
70	4.1	0.4	1.1	0.8	1.0	1.0	2.9	1.6
80	5.3	0.0	3.2	1.2	1.5	1.4	2.9	1.6
90	5.4	0.0	1.3	1.2	1.0	1.5	2.5	1.7
100	8.4	1.8	3.3	1.4	1.5	1.2	2.6	1.7
110	12.0	4.1	2.8	1.4	1.5	6.0	2.4	0.8
120			2.8	1.7	2.5	0.7	2.7	1.6
130			2.7	2.1	5.0	1.2	2.7	1.1
140			1.7	2.1	6.0	1.2	3.1	1.1
150			1.4	2.5	7.0	1.1	2.4	0.3

Autumn

Date	14/04/1975	12/01/1976	14/03/1978	10/04/1979	10/03/1980	7/07/1987	5/04/1988	4/04/1989	10/04/1990
Depth (m)									
0	0.8	0.5	0.0	0.3	0.0	2.0	1.1	2.1	0.1
10	0.4	1	0.0	0.0	0.3	1.6	1.3	2.5	0.6
20	0.2	0.2	0.0	0.0	0.0	1.0	1.3	2.4	1.3
30	0.1	0	0.0	0.0	0.0	0.2	1.1	2.5	1.2
40	0.3	0.2	0.0	0.3	0.2	0.9	2.2	2.4	1.7
50	0.5	0.3	0.0	1.0	0.8	1.1	4.0	4.9	4.9
60	4.2	1.3	0.0	7.3	4.9	14.5	12.3	5.2	3.4
70	5.6	1.5	2.2	11.1	6.2	16.4	14.6	5.1	12.0
80	9.2	8.3	4.9	12.7	9.4	16.1	16.9	10.9	11.2
90	11.2	11.1	5.8	13.5	13.5	18.5	19.0	13.5	12.4
100	12.4	14	7.4	15.0	14.4	19.8	20.7	17.1	17.1
110	16.0		9.2	14.8	15.7	20.2	19.1	20.4	16.2
120			10.1	15.0	16.7	20.9	18.6	23.3	18.2
130			8.0	16.6	18.9	21.9	21.5	24.2	17.9
140			11.0	17.3	19.4	22.1	25.4	27.1	22.4
150			14.2	19.7	19.9	21.5	27.0	28.6	24.2

DRP concentrations (mg m⁻³)

Spring

Date	18/11/1974	16/10/1975	4/10/1977	10/10/1978	5/10/1987	17/10/1988	6/10/1989
Depth (m)							
0	8.7	1.1	0.3	0.6	0.2	0.2	0.0
10	8.0	1.2	0.0	0.6	0.1	0.1	0.2
20	8.3	1.1	0.1	0.5	0.2	0.0	0.1
30	7.5	0.9	0.0	0.3	0.3	0.1	0.0
40	8.4	0.8	0.3	0.2	0.2	0.1	0.0
50	7.6	0.8	0.2	0.3	0.4	0.1	0.0
60	8.3	0.7	0.0	0.3	0.3	0.2	0.0
70	7.7	0.7	1.1	0.4	0.3	0.2	0.0
80	8.1	0.8	0.7	0.5	0.3	0.2	0.3
90	7.9	1.0	0.8	0.4	0.2	0.3	0.1
100	8.5	1.7	0.4	0.4	0.2	0.3	0.1
110	9.8	1.6	0.4	0.4	0.4	0.5	0.1
120			0.5	0.4	0.4	0.4	0.0
130			0.4	0.3	0.4	0.4	0.2
140			0.6	0.3	0.4	0.5	0.3
150			0.5	0.4	0.3	0.5	0.2

Autumn

Date	14/04/1975	12/01/1976	14/03/1978	10/04/1979	10/03/1980	7/07/1987	5/04/1988	4/04/1989	10/04/1990
Depth (m)									
0	0.8	1.4	0.2	0.1	0.7	1.9	0.1	0.0	0.2
10	0.5	1.4	0.2	0.1	0.4	2.2	0.1	0.0	0.0
20	0.5	7.0	0.2	0.1	0.3	0.9	0.2	0.0	0.1
30	0.5	2.5	0.2	0.1	0.2	1.0	0.2	0.0	0.2
40	0.5	0.2	0.2	0.4	0.5	0.9	0.6	0.2	0.5
50	0.5	0.9	0.7	1.0	0.7	0.7	1.1	0.5	1.1
60	1.0	0.1	0.7	1.6	1.0	3.4	2.0	0.6	0.9
70	1.0	0.8	1.0	2.0	1.1	3.7	2.2	0.9	1.9
80	1.7	1.2	1.5	2.2	1.6	3.6	2.7	1.1	1.7
90	2.0	2.0	1.8	2.4	2.2	4.1	2.9	1.3	1.8
100	2.2	3.3	1.9	2.7	2.4	4.6	3.1	1.9	2.6
110	2.9		2.4	2.8	2.6	4.5	2.9	2.7	2.1
120			2.7	2.9	2.7	4.7	3.0	3.4	2.5
130			2.1	3.0	3.7	5.1	3.4	3.8	2.4
140			2.8	3.6	3.6	5.3	4.4	4.5	3.5
150			0.9	3.8	3.8	5.0	4.6	4.8	4.0

Elapsed period (days)

	147	88	161	182	165	270*	183	169	186
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??? = possible analytical problem (e.g., Si interference)

* = average period of 165 days plus 3 months