| Sydney | PHYTOPLANKTON | ANALYSIS | 1 | | Page 1 of 2 |
|-----------------------------------|---|-------------|-------------------------------|-----------------|--------------------|
| | REPORT Report no: | 287892 | Depth : | N/A | |
| WATEN | Supercedes Report No: | | Chlorophyll a: | NA | |
| | | | Microcystin equivalents: | NA | |
| | | | Date analysed: | 13/07/2023 | |
| Lims No: L23053899 | Date Sampled: | 27/06/2023 | Analyst: | | |
| Client ID: 235800 <i>Site:</i> | Address: | | | | |
| Client: Department of Planni | ng and Environment | | | | |
| <i>Method:</i> MA71CENT | Issued By : Sydney Waa Laboratory Services Issued On : 14/07/2023 | ter 3 | Disclaimer: Samp received. | les analysed as | |
| TAXA | Cells/ | | Significance | ASU/ | Biovolum |
| Cyanophyta (Rlua graan) | IIIL | | | IIIL | mm3/L |
| Coccoid Blue Green Picoplantton | | E'14 | 1 . 0 | 2 107 5 | |
| Movismonodia | 1151326 | Filter | clogging? | 2,187.5 | 0.519 |
| Planktohmohya | 10287 | T1 / | . . | 10.23 | 8 0.086 - |
| r iankioiyngoya Pseudanahaena | 3687 | Filter | clogging | 36.8 | / 0.294 |
| Spiruling | 347 | | | 2.7 | 0.003 |
| Spirauna | 719 | | | 10.78 | 8 0.002 |
| Synechococcus cj | 940 | | | 11.50 | 0.006 |
| Subtotal | 1167306 | | | 2,259.7 | 7 0.910 |
| | Cells/ mL | | | ASU/ mL | Biovolume mm3/L |
| Total Blue Green | 1167000 | | | 2260.00 | 0.910 |
| * Potentially Toxic Blue Green | 0 | | | 0.00 | 0.000 |

Debris present in the sample.

*Taxa with potential to produce toxins.

 $ASU: One \ ASU \ (Area \ Standard \ Unit) \ equals \ 400 \mu m^2 \ of \ algal \ cells \ (as \ cross \ sectional \ area)$

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.





| Sudnov | PHYTOPLANKTO | N ANALYSIS | 3 | | Page 1 of 2 |
|-----------------------------------|---|--------------|-------------------------------|-----------------|--------------------|
| | REPORT Report no: | 287892 | Depth : | N/A | |
| VAIEN | Supercedes Report No: | | Chlorophyll a: | NA | |
| | | | Microcystin equivalents: | NA | |
| | | | Date analysed: | 13/07/2023 | |
| Lims No: L23053900 | Date Sampled: | 27/06/2023 | Analyst: | | |
| Client ID: 235801 <i>Site:</i> | Address: | | | | |
| Client: Department of Pla | anning and Environment | | | | |
| <i>Method:</i> MA71CENT | Issued By : Sydney V Laboratory Services Issued On : 14/07/26 | Vater)23 | Disclaimer: Samp received. | les analysed as | |
| ТАХА | | | | | |
| - | Cell mI | ls/ | Significance | ASU/ mL | Biovolum mm3/L |
| <u>Cyanophyta (Blue green)</u> | | | | | |
| Anabaenopsis | 760 | Poten | tially toxic | 52.44 | 0.090 |
| Coccoid Blue Green Picoplank | kton 826176 | Filter | clogging? | 1,569.73 | 0.373 |
| Merismopedia | 24335 | | | 24.33 | 0.204 |
| Microcystis | 277 | Poten | tially toxic, taste & odour | 7.78 | 0.007 |
| Planktolyngbya | 12887 | Filter | clogging | 128.87 | 1.030 |
| Pseudanabaena | 2950 | | | 23.60 | 0.029 |
| Spirulina | 369 | | | 5.53 | 0.001 |
| Subtotal | 867754 | | | 1,812.28 | 1.734 |
| | Cells/ mL | | | ASU/ mL | Biovolume mm3/L |
| Total Blue Green | 867800 | | | 1812.00 | 1.730 |
| * Potentially Toxic Blue Gree | en 1040 | | | 60.20 | 0.097 |

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals $400 \mu m^2$ of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.





| Guda | | PHYTOPLANK | TON ANAL | YSIS | | Page 1 of 1 |
|-------------------------------|---------------------|--|-------------------------------|------------------------------|------------------|-------------------|
| | | REPORT Report no: | 287892 | Depth : | N/A | |
| VVA | ITN | Supercedes Report No | : | Chlorophyll a: | NA | |
| | | | | Microcystin equivalents | : NA | |
| | | | | Date analysed: | 13/07/2023 | |
| Lims No: | L23053901 | Date Sampled: | 27/06/202 | 3 Analyst: | | |
| Client ID: 23 <i>Site:</i> | 35802 | Address: | | | | |
| Client: D | Department of Pla | nning and Environment | | | | |
| <i>Method:</i> N | MA71CENT | Issued By : Syd Laboratory Serv Issued On : 14/0 | ney Water vices 07/2023 | Disclaimer: Sam received. | ples analysed as | |
| TAXA | | | | | | |
| | | | Cells/ mL | Significance | ASU/ mL | Biovolum mm3/L |
| <u>Cyanophyt</u> | a (Blue green) | | | | | |
| Coccoid Blue | e Green Picoplank | ton 2068 | 039 | Filter clogging? | 3,929. | 0.933 |
| Subtotal | | 2068 | 8039 | | 3,929. | 27 0.933 |
| | | С | 'ells/ | | ASU/ | Biovolume |
| | | 1 | mL | | mL | mm3/L |
| Total Blue | Green | 20680 | 00 | | 3929.00 | 0.933 |
| * Potentiall | ly Toxic Blue Greer | 1 | 0 | | 0.00 | 0.000 |

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm² of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.



| Sudnou | PHYTOPLANKTON | ANALYSI | S | | Page 1 of 2 |
|-----------------------------------|---|------------|-------------------------------|------------------|--------------------|
| | REPORT Report no: | 287892 | Depth : | N/A | |
| WAILI | Supercedes Report No: | | Chlorophyll a: | NA | |
| | | | Microcystin equivalents. | NA | |
| | | | Date analysed: | 13/07/2023 | |
| Lims No: L23053902 | Date Sampled: | 27/06/2023 | Analyst: | | |
| Client ID: 235803 <i>Site:</i> | Address: | | | | |
| Client: Department of Plannin | g and Environment | | | | |
| <i>Method:</i> MA71CENT | Issued By : Sydney Wat Laboratory Services Issued On : 14/07/2023 | ter | Disclaimer: Samp received. | oles analysed as | |
| ТАХА | Cells/ mL | | Significance | ASU/ mL | Biovolum mm3/L |
| <u>Cyanophyta (Blue green)</u> | | | | | |
| Coccoid Blue Green Picoplankton | 737353 | Filte | r clogging? | 1,400.97 | 0.332 |
| Merismopedia | 5162 | | | 5.10 | 6 0.043 |
| Microcystis | 1141 | Pote | ntially toxic, taste & odour | 32.00 | 6 0.031 |
| Pseudanabaena | 833 | | | 6.6 | 5 0.008 |
| Spirulina | 2452 | | | 36.78 | 3 0.009 |
| Synechococcus cf | 553 | | | 6.8 | 0.003 |
| Subtotal | 747494 | | | 1,488.4. | 3 0.426 |
| | Cells/ mL | | | ASU/ mL | Biovolume mm3/L |
| Total Blue Green | 747500 | | | 1488.00 | 0.426 |
| * Potentially Toxic Blue Green | 1140 | | | 32.10 | 0.031 |

Debris present in the sample.

*Taxa with potential to produce toxins.

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| Guda | not i | PHYTOPLANKTON | N ANALYS | SIS | | 1 | Page 1 of 2 |
|----------------------------|------------------------|---|------------|-----------------------------|----------------|------------|--------------------|
| | | REPORT Report no: | 287892 | Depth : | N/A | | |
| ~ ~ ~ | 1/20 | Supercedes Report No: | | Chlorophyll a: | NA | | |
| | | | | Microcystin equivaler | ıts: NA | | |
| | | | | Date analysed: | 13/07/20 | 23 | |
| Lims No: | L23053903 | Date Sampled: | 27/06/2023 | Analyst: | | | |
| Client ID: <i>Site:</i> | : 235804 | Address: | | | | | |
| Client: | Department of Planning | g and Environment | | | | | |
| Method: | MA71CENT | Issued By : Sydney Wa Laboratory Services Issued On : 14/07/202 | ıter 3 | Disclaimer: Sa received. | mples analysed | as | |
| TAXA | A | | | | | | |
| | | Cells/ mL | 1 | Significance | | ASU/ mL | Biovolum mm3/L |
| <u>Cyanoph</u> | iyta (Blue green) | | | | | | |
| Coccoid B | lue Green Picoplankton | 620434 | Fi | ilter clogging? | | 1,178.82 | 0.280 |
| Planktolyn | igbya | 2212 | Fi | ilter clogging | | 22.12 | 0.176 |
| Spirulina | | 2065 | | | | 30.97 | 0.007 |
| Subtotal | ! | 624711 | | | | 1,231.91 | 0.463 |
| | | Cells/ mL | | | ASU/ mL |] | Biovolume mm3/L |
| Total Blu | ue Green | 624700 | | | 1232.00 | | 0.463 |
| * Potent | ially Toxic Blue Green | 0 | | | 0.00 | | 0.000 |

Debris present in the sample.

*Taxa with potential to produce toxins.

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Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.

Coccoid Blue Green Picoplankton: Aphanocapsa; Aphanothece; Cyanogranis; Cyanonephron; Cyanocatena; Gloeocapsa; Gloeothece

; Cyanodictyon





| Gradmore | PHYTOPLANKTON ANALYSIS | | | | | |
|-----------------------------------|--|------------------------|-----------------------------|------------------|------------|--------------------|
| | REPORT Report no: | 287892 | Depth : | N/A | | |
| WAITN | Supercedes Report No: | | Chlorophyll a: | NA | | |
| | | | Microcystin equivale | nts: NA | | |
| | | | Date analysed: | 13/07/202 | 3 | |
| Lims No: L23053904 | Date Sampled: | 27/06/202 | 3 Analyst: | | | |
| Client ID: 235805 <i>Site:</i> | Address: | | | | | |
| Client: Department of Planning | and Environment | | | | | |
| <i>Method:</i> MA71CENT | Issued By : Sydne Laboratory Servic Issued On : 14/07, | y Water es /2023 | Disclaimer: Sa received. | mples analysed o | 75 | |
| ТАХА | | | | | | |
| | C | Cells/ mL | Significance | | ASU/ mL | Biovolum mm3/L |
| <u>Cyanophyta (Blue green)</u> | | | | | | |
| Coccoid Blue Green Picoplankton | 55472 | 29 | Filter clogging? | | 1,053.98 | 0.250 |
| Merismopedia | 663 | 37 | | | 6.63 | 0.055 |
| Subtotal | 56136 | 56 | | | 1,060.61 | 0.305 |
| | Cell mI | ls/ | | ASU/ mL | | Biovolume mm3/L |
| Total Blue Green | 561400 |) | | 1061.00 | | 0.305 |
| * Potentially Toxic Blue Green | 0 |) | | 0.00 | | 0.000 |

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm² of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.





| Sydr | nev | PHYTOPLANK | TON ANAL | LYSIS | | Pa | age 1 of 2 |
|-----------------------------|--------------------------|--|-------------------------------|-----------------------|---------------------|------------|-------------------|
| N/ | | REPORT Report no: | 287892 | Depth : | N/A | | |
| | 1720 | Supercedes Report No |): | Chlorophyll a. | : NA | | |
| | | | | Microcystin eq | quivalents: NA | | |
| | | | | Date analysed | !: 13/07/ | 2023 | |
| Lims No: | L23053905 | Date Sampled: | 27/06/20 | Analyst: | | | |
| Client ID: <i>Site</i> : | : 235806 | Address: | | | | | |
| Client: | Department of Plannin | ng and Environment | | | | | |
| Method: | MA71CENT | Issued By : Sydi Laboratory Serv Issued On : 14/ | ney Water vices 07/2023 | Disclaim received. | ier: Samples analys | sed as | |
| TAXA | A | | | | | | |
| | - | | Cells/ mL | Significance | | ASU/ mL | Biovolum mm3/L |
| <u>Cyanoph</u> | <u>iyta (Blue green)</u> | | | | | | |
| Anabaenop | psis | | 208 | Potentially toxic | | 14.35 | 0.024 |
| Coccoid Bl | lue Green Picoplankton | 811 | 354 | Filter clogging? | | 1,541.57 | 0.366 |
| Merismope | edia | 1 | 475 | | | 1.47 | 0.012 |
| Spirulina | | 1 | 493 | | | 22.39 | 0.005 |
| Subtotal | ! | 814 | 1530 | | | 1,579.78 | 0.407 |
| | | C | Cells/ mL | | ASU/ mL | Bi | iovolume mm3/L |
| Total Blu | ue Green | 8145 | 500 | | 1580.00 | | 0.407 |
| * Potenti | tially Toxic Blue Green | 2 | 208 | | 14.40 | | 0.024 |

Debris present in the sample.

*Taxa with potential to produce toxins.

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Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.





| Sudnov | | PHYTOPI | PHYTOPLANKTON ANALYSIS | | | | | |
|----------------------------|-----------------------|----------------------------------|---|------------|------------------|--------------------------|------------|--------------------|
| Syu | ney ATSD | REPORT Report no: | | 287892 | Depth : | ٦ | V/A | |
| | 4/20 | Supercedes Re | port No: | | Chlorophyl | la: N | NA | |
| | | | | | Microcystin | n equivalents: N | NA | |
| | | | | | Date analys | sed: 1 | .3/07/2023 | |
| Lims No: | L23053906 | Date Sampled: | | 27/06/2023 | Analyst: | | | |
| Client ID: <i>Site:</i> | : 235807 | Address: | | | | | | |
| Client: | Department of Pla | anning and Environme | ent | | | | | |
| Method: | MA71CENT | Issued E Laborate Issued C | By : Sydney Wate ory Services On : 14/07/2023 | er | Discla receiv | uimer: Samples a. ed. | nalysed as | |
| TAX | 4 | | | | | | | |
| | | | Cells/ mL | | Significance | | ASU/ mL | Biovolum mm3/L |
| <u>Cyanoph</u> | iyta (Blue green) | | | | | | | |
| Coccoid B | lue Green Picoplant | kton | 784622 | Fi | Iter clogging? | | 1,490.78 | 3 0.354 |
| Spirulina | | | 737 | | | | 11.05 | , 0.002 |
| Subtotal | ! | | 785359 | | | | 1,501.83 | 3 0.356 |
| | | | Cells/ mL | | | ASU mL | 7 | Biovolume mm3/L |
| Total Bl | ue Green | | 785400 | | | 1502. | 00 | 0.356 |
| * Potent | ially Toxic Blue Gree | n | 0 | | | 0. | 00 | 0.000 |

Debris present in the sample.

*Taxa with potential to produce toxins.

ASU : One ASU (Area Standard Unit) equals 400µm² of algal cells (as cross sectional area)

Biovolume : Biovolume is calculated from cell linear dimensions. Guidelines based on Biovolume.



