Cyanobacterial dynamics and toxins concentrations in Lake Alto Flumendosa, Sardinia, Italy

Mara Stefanelli,¹,² Simona Scardala,² Piera Angela Cabras,³ Andrea Orrù,³ Susanna Vichi,² Emanuela Testai,² Enzo Funari,² Maura Manganelli²*

¹INAIL (National Institute for Insurance against Accidents at Work), Via Roberto Ferruzzi 38/40, 00143 Rome
²Istituto Superiore di Sanità (National Health Institute), Department of Environment and Health, Viale Regina Elena 299, 00161 Rome
³Istituto Zooprofilattico Sperimentale della Sardegna (Experimental Zootechnic Institute of Sardinia), Via Fratelli Kennedy 2, 08100 Nuoro, Italy

*Corresponding author: maura.manganelli@iss.it
Supplementary Tab. 1. MCs congeners concentrations (µg L\(^{-1}\)) in discrete samples in the three sampling sites.

| Date of sampling | Site | RR  | dem-RR | LR  | dem-LR | LA  | TOT  |
|------------------|------|-----|--------|-----|--------|-----|------|
| 5 Oct 2011       | S1   | 0.000 | 0.000 | 0.185 | 0.000 | 0.141 | 0.326 |
| 8 Nov 2011       | S1   | 0.004 | 0.049 | 0.046 | 0.005 | 0.011 | 0.116 |
| 14 Dec 2011      | S1   | 0.001 | 0.054 | 0.006 | 0.006 | 0.001 | 0.068 |
| 24 Jan 2012      | S1   | 0.000 | 0.084 | 0.000 | 0.009 | 0.000 | 0.092 |
| 28 Feb 2012      | S1   | 0.000 | 0.138 | 0.000 | 0.017 | 0.000 | 0.155 |
| 26 Mar 2012      | S1   | 0.000 | 0.109 | 0.000 | 0.010 | 0.000 | 0.119 |
| 23 Apr 2012      | S1   | 0.000 | 0.206 | 0.000 | 0.011 | 0.000 | 0.217 |
| 22 May 2012      | S1   | 0.000 | 0.032 | 0.000 | 0.000 | 0.000 | 0.032 |
| 26 Jun 2012      | S1   | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 Jul 2012      | S1   | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25 Sep 2012      | S1   | 0.000 | 0.006 | 0.021 | 0.000 | 0.008 | 0.035 |
| 24 Oct 2012      | S1   | 0.000 | 0.006 | 0.029 | 0.000 | 0.012 | 0.046 |
| 5 Dec 2012       | S1   | 0.000 | 0.065 | 0.004 | 0.000 | 0.000 | 0.070 |
| 29 Jan 2013      | S1   | 0.000 | 0.018 | 0.000 | 0.000 | 0.000 | 0.018 |
| 5 Mar 2013       | S1   | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 9 Apr 2013       | S1   | 0.000 | 0.017 | 0.000 | 0.000 | 0.000 | 0.017 |
| 14 May 2013      | S1   | 0.000 | 0.015 | 0.000 | 0.000 | 0.000 | 0.015 |
| 5 Oct 2011       | S2   | 0.000 | 0.000 | 0.148 | nd    | 0.098 | 0.246 |
| 8 Nov 2011       | S2   | 0.002 | 0.057 | 0.047 | 0.006 | 0.009 | 0.121 |
| 14 Dec 2011      | S2   | 0.001 | 0.066 | 0.008 | 0.007 | 0.001 | 0.084 |
| 24 Jan 2012      | S2   | 0.000 | 0.061 | 0.000 | 0.006 | 0.000 | 0.066 |
| 28 Feb 2012      | S2   | 0.000 | 0.184 | 0.000 | 0.019 | 0.000 | 0.203 |
| 26 Mar 2012      | S2   | 0.000 | 0.114 | 0.000 | 0.011 | 0.000 | 0.125 |
| 23 Apr 2012      | S2   | 0.000 | 0.230 | 0.000 | 0.013 | 0.000 | 0.243 |
| 22 May 2012      | S2   | 0.000 | 0.035 | 0.000 | 0.000 | 0.000 | 0.035 |
| 26 Jun 2012      | S2   | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 Jul 2012      | S2   | 0.000 | 0.007 | 0.000 | 0.000 | 0.000 | 0.007 |
| 25 Sep 2012      | S2   | 0.000 | 0.007 | 0.026 | 0.000 | 0.012 | 0.045 |
| 24 Oct 2012      | S2   | 0.000 | 0.005 | 0.027 | 0.000 | 0.014 | 0.046 |
| 29 Jan 2013      | S2   | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.013 |
| 9 Apr 2013       | S2   | 0.000 | 0.011 | 0.000 | 0.000 | 0.000 | 0.011 |
| 14 May 2013      | S2   | 0.000 | 0.009 | 0.000 | 0.000 | 0.000 | 0.009 |
| 5 Oct 2011       | S3   | 0.000 | 0.000 | 0.233 | 0.000 | 0.134 | 0.367 |
| 8 Nov 2011       | S3   | 0.010 | 0.059 | 0.096 | 0.007 | 0.019 | 0.192 |
| 14 Dec 2011      | S3   | 0.001 | 0.069 | 0.007 | 0.008 | 0.001 | 0.087 |
| 24 Jan 2012      | S3   | 0.000 | 0.095 | 0.000 | 0.012 | 0.000 | 0.107 |
| 28 Feb 2012      | S3   | 0.000 | 0.132 | 0.000 | 0.014 | 0.000 | 0.146 |
| 26 Mar 2012      | S3   | 0.000 | 0.143 | 0.000 | 0.017 | 0.000 | 0.160 |
| 23 Apr 2012      | S3   | 0.000 | 0.093 | 0.000 | 0.008 | 0.000 | 0.101 |
| 22 May 2012      | S3   | 0.000 | 0.030 | 0.000 | 0.000 | 0.000 | 0.030 |
| 26 Jun 2012      | S3   | 0.000 | 0.007 | 0.000 | 0.000 | 0.000 | 0.007 |
| 30 Jul 2012      | S3   | 0.000 | 0.007 | 0.005 | 0.000 | 0.035 | 0.047 |
| Date        | Code | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 |
|------------|------|---------|---------|---------|---------|---------|---------|
| 25 Sep 2012| S3   | 0.000   | 0.000   | 0.020   | 0.000   | 0.009   | 0.030   |
| 24 Oct 2012| S3   | 0.000   | 0.000   | 0.019   | 0.000   | 0.007   | 0.026   |
| 14 Dec 2011| P1   | 0.001   | 0.044   | 0.007   | 0.006   | 0.000   | 0.058   |
| 24 Jan 2012| P1   | 0.000   | 0.067   | 0.000   | 0.009   | 0.000   | 0.076   |
| 28 Feb 2012| P1   | 0.000   | 0.136   | 0.000   | 0.011   | 0.000   | 0.147   |
| 26 Mar 2012| P1   | 0.000   | 0.244   | 0.000   | 0.018   | 0.000   | 0.262   |
| 23 Apr 2012| P1   | 0.000   | 0.312   | 0.000   | 0.015   | 0.000   | 0.327   |
| 22 May 2012| P1   | 0.000   | 0.113   | 0.000   | 0.009   | 0.000   | 0.122   |
| 26 Jun 2012| P1   | 0.000   | 0.064   | 0.000   | 0.006   | 0.000   | 0.070   |
| 30 Jul 2012| P1   | 0.000   | 0.095   | 0.000   | 0.008   | 0.000   | 0.103   |
| 25 Sep 2012| P1   | 0.000   | 0.010   | 0.000   | 0.000   | 0.000   | 0.010   |
| 24 Oct 2012| P1   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 14 Dec 2011| P2   | 0.001   | 0.054   | 0.009   | 0.006   | 0.002   | 0.072   |
| 24 Jan 2012| P2   | 0.000   | 0.078   | 0.000   | 0.009   | 0.000   | 0.088   |
| 28 Feb 2012| P2   | 0.000   | 0.070   | 0.000   | 0.006   | 0.000   | 0.076   |
| 26 Mar 2012| P2   | 0.000   | 0.242   | 0.000   | 0.020   | 0.000   | 0.262   |
| 23 Apr 2012| P2   | 0.000   | 0.239   | 0.000   | 0.012   | 0.000   | 0.251   |
| 22 May 2012| P2   | 0.000   | 0.104   | 0.000   | 0.009   | 0.000   | 0.113   |
| 26 Jun 2012| P2   | 0.000   | 0.128   | 0.000   | 0.011   | 0.000   | 0.139   |
| 30 Jul 2012| P2   | 0.000   | 0.114   | 0.000   | 0.009   | 0.000   | 0.123   |
| 25 Sep 2012| P2   | 0.000   | 0.008   | 0.000   | 0.000   | 0.000   | 0.008   |
| 24 Oct 2012| P2   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 29 Jan 2013| P2   | 0.000   | 0.015   | 0.000   | 0.000   | 0.000   | 0.015   |
| 9 Apr 2013  | P2   | na      | na      | na      | na      | na      | na      |
| 14 May 2013 | P2   | 0.000   | 0.012   | 0.000   | 0.000   | 0.000   | 0.012   |

nd, not detected; na, not available.
Supplementary Tab. 2. Average of nutrient concentrations in the sampling sites (computed from data from the report of Cabras et al., 2013). Data refer to the period of the monitoring activities described in this paper.

| Sites | Nitrogen Tot (mg L⁻¹) | Phosphorus Tot (mg L⁻¹) |
|-------|-----------------------|------------------------|
|       | Min-Max, average (s.d.) | n=number of samples |
| S1    | 0.027-0.699           | 0.018-0.040            |
|       | 0.283 (0.205) n=11    | 0.029 (0.007) n=11     |
| S2    | 0.074-0.442           | 0.020-0.041            |
|       | 0.231 (0.130) n=9     | 0.027 (0.006) n=9      |
| S3    | 0.076-0.689           | 0.022-0.043            |
|       | 0.274 (0.202) n=8     | 0.030 (0.007) n=8      |
| P1    | 0.253-0.684           | 0.018-0.041            |
|       | 0.480 (0.150) n=8     | 0.027 (0.008) n=8      |
| P2    | 0.364-0.593           | 0.024-0.059            |
|       | 0.469 (0.092) n=6     | 0.038 (0.012) n=6      |

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