

**Table S1:** Analytical methods used in the analysis of water chemistry parameters in the Dehtár pond

Variable	Method description	Reference
Total carbon (TC) (mg l <sup>-1</sup> )	High-temperature combustion method on analyser Multi N/C 2100 (Analytik Jena AG, Germany) with unfiltered water samples	ISO 8245 (1999)
Total inorganic carbon (TIC) (mg l <sup>-1</sup> )	Low-temperature acidification method on analyser Multi N/C 2100 (Analytik Jena AG, Germany) with unfiltered water samples	ISO 8245 (1999)
Total organic carbon (TOC) (mg l <sup>-1</sup> )	TOC = TC - TIC	ISO 8245 (1999)
Dissolved carbon (DC) (mg l <sup>-1</sup> )	High-temperature combustion method on analyser Multi N/C 2100 (Analytik Jena AG, Germany) with water samples filtered through pre-washed and pre-combusted glass-fibre Whatman GF/F filters with nominal porosity of 0.7 µm	ISO 8245 (1999)
Dissolved inorganic carbon (DIC) (mg l <sup>-1</sup> )	Low-temperature acidification method on analyser Multi N/C 2100 (Analytik Jena AG, Germany) with water samples filtered through pre-washed and pre-combusted glass-fibre Whatman GF/F filters with nominal porosity of 0.7 µm	ISO 8245 (1999)
Dissolved organic carbon (DOC) (mg l <sup>-1</sup> )	DOC = DC - DIC	ISO 8245 (1999)
Particulate organic carbon (POC) (mg l <sup>-1</sup> )	POC = TOC - DOC	ISO 8245 (1999)
Total nitrogen (TN) (mg l <sup>-1</sup> )	High-temperature combustion method with conversion of all nitrogen species to nitrogen oxides on an analyser Multi N/C 2100 (Analytik Jena AG, Germany) with unfiltered water samples	DIN EN 12260 (2003)
N-NH <sub>4</sub> <sup>+</sup> (mg l <sup>-1</sup> )	Spectrophotometry (Shimadzu UV-1650 PC)	ISO 7150-1 (1984)
N-NO <sub>3</sub> <sup>-</sup> (mg l <sup>-1</sup> )	Ion chromatography (Dionex ICS-1000)	ISO 10304-1 (2007)
Total phosphorus (TP) (µg l <sup>-1</sup> )	Inductively coupled plasma spectrometry (Agilent 8800 ICP-MSQ) with unfiltered water samples	ISO 17294-2 (2003)
Dissolved phosphorus (DP) (µg l <sup>-1</sup> )	Inductively coupled plasma spectrometry (Agilent 8800 ICP-MSQ) with water samples filtered through Gelman Acrodisc syringe filters with nominal porosity of 0.45 µm	ISO 17294-2 (2003)
Particulate phosphorus (PP) (µg l <sup>-1</sup> )	PP = TP - DP	ISO 17294-2 (2003)
Soluble reactive phosphorus (SRP) (µg l <sup>-1</sup> )	Spectrophotometric ammonium molybdate method (Shimadzu UV-1650 PC) with water filtered samples through Gelman Acrodisc syringe filters with nominal porosity of 0.45 µm	ISO 6878 (2004)
Chlorophyll <i>a</i> (Chl <i>a</i> ) (µg l <sup>-1</sup> )	Spectrometry (Shimadzu UV-1650 PC) after hot ethanol extraction of seston particles	ISO 10260 (1992)

	trapped on glass-fibre Whatman GF/F filters with nominal porosity of 0.7 µm	
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## References

DIN EN 12260, 2003. Water quality – Determination of nitrogen – Determination of bound nitrogen (TNb), following oxidation to nitrogen oxides (DIN EN 12260:2003). Deutsches Institut für Normung E.V. (DIN), Berlin, 11 p.

ISO 10304-1, 2007. Water quality – Determination of dissolved anions by liquid chromatography of ions – Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate (ISO 10304-1:2007). Int. Organ. for Standardisation (ISO), Geneva, 15 p.

ISO 10260, 1992. Water quality – Measurement of biochemical parameters – Spectrometric determination of chlorophyll-a concentration (ISO 10260:1992). Int. Organ. for Standardisation (ISO), Geneva, 6 p.

ISO 17294-2, 2003. Water quality – Application of inductively coupled plasma mass spectrometry (ICP-MS) – Part 2: Determination of 62 elements (ISO 17294-2:2003). Int. Organ. for Standardisation (ISO), Geneva, 6 p.

ISO 6778, 2004. Water quality – Determination of phosphorus – Ammonium molybdate spectrometric method (ISO 6778:2004). Int. Org. for Standardisation (ISO), Geneva, 21 p.

ISO 7150-1, 1984. Water quality – Determination of ammonium – Part 1: Manual spectrometric method (ISO 7150-1:1984). Int. Organ. for Standardisation (ISO), Geneva, 7 p.

ISO 8245, 1999. Water quality – Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC) (ISO 8245:1999). Int. Organ. for Standardisation (ISO), Geneva, 11 p.