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*Supplement of*

## **Weekly water quality monitoring data for the River Thames (UK) and its major tributaries (2009–2013): the Thames Initiative research platform**

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Determinand	Limit of quantification	2 x standard deviations of replicate sample	Value of replicate sample
Water temperature (°C)		0.2	20
pH		0.04	4.5
Dissolved fluoride (mg l <sup>-1</sup> )	0.02	0.13	0.5
Dissolved chloride (mg l <sup>-1</sup> )	0.2	0.38	10
Dissolved bromide (mg l <sup>-1</sup> )	0.01	0.02	0.1
Dissolved sulphate (mg l <sup>-1</sup> -SO <sub>4</sub> )	0.5	1.1	30
Soluble reactive phosphorus (µg P l <sup>-1</sup> )	3	4.7	200
Total dissolved phosphorus (µg P l <sup>-1</sup> )	7	24	580
Total phosphorus (µg P l <sup>-1</sup> )	7	24	580
Dissolved nitrate (mg NO <sub>3</sub> l <sup>-1</sup> )	0.1	0.35	10
Dissolved nitrite (mg NO <sub>2</sub> l <sup>-1</sup> )	0.01	0.08	1
Ammonium (mg NH <sub>4</sub> l <sup>-1</sup> )	0.002	0.015	0.1
Total dissolved nitrogen (mg N l <sup>-1</sup> )	0.05	0.38	5
Dissolved organic carbon (mg l <sup>-1</sup> )	0.1	0.22	5
Dissolved reactive silicon (mg Si l <sup>-1</sup> )	0.01	0.014	6
Suspended solids (mg l <sup>-1</sup> )	0.1	0.6	20
Chlorophyll-a (µg l <sup>-1</sup> )	0.1	2.0	22
Dissolved sodium (mg l <sup>-1</sup> )	0.05	1.05	20
Dissolved potassium (mg l <sup>-1</sup> )	0.05	0.02	4
Dissolved calcium (mg l <sup>-1</sup> )	0.05	14	80
Dissolved magnesium (mg l <sup>-1</sup> )	0.1	0.06	7
Dissolved boron (µg l <sup>-1</sup> )	5	16	577
Dissolved iron (µg l <sup>-1</sup> )	15	2.6	224
Dissolved manganese (µg l <sup>-1</sup> )	3	2.1	50
Dissolved zinc (µg l <sup>-1</sup> )	5	7.8	175
Dissolved copper (µg l <sup>-1</sup> )	2	8.2	240