

**Table 2.** Methods of water-quality and algal analysis for samples from the North Umpqua River Basin, Oregon, July 2005

[Measurements made directly in the field included water temperature, specific conductance, pH, and dissolved oxygen; NA, not applicable; C, Celsius; uS/cm, microsiemens per centimeter; mg/L, milligrams per liter; QAPP, U.S. Forest Service Quality Assurance Project Plan; mg/m<sup>2</sup>, milligrams per square meter; g/m<sup>2</sup>, grams per square meter.]

Medium sampled	Parameter	Analytical method	Detection limit or resolution	Reporting limit	Sample preservation
Water, <i>in situ</i>	Water temperature	170.1 <sup>a</sup>	0.1°C	0.1°C	NA
Water, <i>in situ</i>	Specific conductance, field	120.1 <sup>a</sup>	1 uS/cm	1 uS/cm	NA
Water, <i>in situ</i>	pH, field	150.1 <sup>a</sup>	0.01 standard units	0.1 standard units	NA
Water, <i>in situ</i>	Dissolved oxygen, field	4500-O G <sup>b</sup>	0.01 mg/L	0.1 mg/L	NA
Water, filtered	Dissolved orthophosphate as P	4500-P E <sup>b</sup>	0.0004 mg/L	0.005 mg/L	None
	Dissolved organic carbon	5310 B <sup>b</sup>	NA	1 mg/L	H <sub>2</sub> SO <sub>4</sub>
	Dissolved arsenic	3120 B <sup>b</sup>	0.003 mg/L	0.01 mg/L	None
	Dissolved silica	3120 B <sup>b</sup>	0.003 mg/L	0.15 mg/L	None
Water, unfiltered	Ammonia as N	4500-NH <sub>3</sub> <sup>b</sup>	0.02 mg/L	0.02 mg/L	H <sub>2</sub> SO <sub>4</sub>
	Total Kjeldahl nitrogen as N (organic+ammonium N in QAPP)	351.2 <sup>a</sup>	0.1 mg/L	0.2 mg/L	H <sub>2</sub> SO <sub>4</sub>
	Nitrite plus nitrate as N	4500-NO <sub>3</sub> F <sup>b</sup>	0.001 mg/L	0.005 mg/L	H <sub>2</sub> SO <sub>4</sub>
	Total phosphorus as P	4500-P E <sup>b</sup>	0.003 mg/L	0.01 mg/L	H <sub>2</sub> SO <sub>4</sub>
	Total organic carbon	5310 B <sup>b</sup>	NA	1 mg/L	H <sub>2</sub> SO <sub>4</sub>
Algae, periphyton	Chlorophyll a and Pheophytin a	10200-H <sup>b</sup>	NA	0.1 mg/m <sup>2</sup>	Freezing
	Ash-free dry weight	10300 C <sup>b</sup>	0.1 g/m <sup>2</sup>	1 g/m <sup>2</sup>	Freezing

<sup>a</sup> U.S. Environmental Protection Agency, 1983

<sup>b</sup> American Public Health Association, 1992