

## ENVIRONMENTAL METHODS LIST – UKAS Rev 7



Method Detection Limits are calculated using NS30 protocol (WRc UK)

ANALYTE	METHOD DESCRIPTION	METHOD NUMBER	METHOD DETECTION LIMIT	EQUIVALENCE
ALUMINIUM	Pyrocatechol violet [ $\alpha, \alpha$ -bis(3,4-dihydroxyphenyl) toluene-2, $\alpha$ -sultone] reaction	UKAS-509-A	0.011 mg Al/L (Range: 0.025 to 1.0 mg Al/L)	UK Blue Book Method
AMMONIA	Salicylate method with hypochlorite and sodium nitroprusside (indophenol blue)	UKAS-500-A	0.02 mg N/L (Range: 0.1 to 1.0 mg N/L)	UK Blue Book Method
		UKAS-501-A	0.16 mg N/L (Range: 2.0 to 10 mg N/L)	
		UKAS-502-A	0.32 mg N/L (Range: 10 to 50 mg N/L)	
AMMONIA	Salicylate method with hypochlorite and sodium nitroprusside (indophenol blue) This is a brackish method.	UKAS-503-A	0.01 mg N/L (Range: 0.025 to 0.5 mg/L)*	UK Blue Book Method
CHLORIDE	Mercuric TPTZ reaction	UKAS-510-A	0.67 mg Cl/L (Range: 10 to 100 mg Cl/L)	UK Blue Book Method
		UKAS-511-A	2.69 mg Cl/L (Range: 50 to 500 mg Cl/L)	
IRON (II)	Acidic 1,10-phenanthroline reaction	UKAS-504-A	0.004 mg Fe(II)/L (Range: 0.04 to 4.0 mg/L)*	UK Blue Book Method
IRON - TOTAL	Reduction of ferric iron followed by acidic 1,10-phenanthroline reaction	UKAS-507-A	0.008 mg Fe/L (Range: 0.04 – 4.0 mg Fe/L)*	UK Blue Book Method
NITRITE	Sulphanilimide reaction in the presence of N-(1-naphthylethylenediamine) dihydrochloride	UKAS-512-A	0.0013 mg N/L (Range: 0.01 to 0.1 mg N/L)	UK Blue Book Method
		UKAS-513-A	0.0032 mg N/L (Range: 0.2 to 2.0 mg N/L)	
NITRATE + NITRITE	Hydrazine reduction followed by sulphanilamide reaction in the presence of N-(1-naphthylethylenediamine) dihydrochloride	UKAS-505-A	0.14 mg N/L (Range: up to 20 mg N/L)	UK Blue Book Method
		UKAS-506-A	0.38 mg N/L (Range: up to 50 mg N/L)	

\* Method detection limit calculated using USEPA procedure 40 CFR, Part 136, Appendix B

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SILICA	Acidic molybdate with reduction (silicomolybdenum blue)	UKAS-514-A	0.002 mg Si/L (Range: 0.025 to 0.5 mg Si/L)*	UK Blue Book Method
SULPHATE	Barium chloride turbidimetric method	UKAS-515-A	2.4 mg SO <sub>4</sub> /L (Range: 10 to 100 mg SO <sub>4</sub> /L)	UK Blue Book Method

\* Method detection limit calculated using USEPA procedure 40 CFR, Part 136, Appendix B

*SEAL Analytical is continually developing methods. Please note that others may exist.*

*If you do not see your chosen method on this list, please consult your SEAL Analytical Technical Support Team at:*

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