

Standard Operating Procedure	SOP.5.8.J
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	Issue number: 01
	Issued by: R.Bseiso
	Issue date: 01/01/2017
Holding Times	Approved by: A.Al-Katib

Scope

The times given in this document are **maximum** times and the laboratory makes every effort to analyze samples as soon as possible after being logged in. This is particularly important in the case of samples that are known, or suspected, to be unstable. It is also important to note that the samples should be held in appropriate containers, under the correct conditions and preserved appropriately where preservation is required.

Where refrigeration is the stated preservation method – samples and aliquots are stored as stated in the applicable reference document/ standard.

The ‘Holding Times’ are measured from the date of sampling until work on the sample is started.

If a sample undergoing accredited analysis is out of holding time then it will be reported as deviating sample.

To ensure integrity of samples is maintained any samples that have not been analyzed by the end of a shift and require preservation by refrigeration should be moved to appropriate refrigerated storage.

Accredited Waters Test Method Parameter	Relevant Test Method(s)	Preservative	Max Holding time	Reference
BOD	TM045	Refrigerate	24 Hours	APHA-5210 B
Total Dissolved Solids	TM237	Refrigerate	24 Hours	APHA2540-C
Dissolved Oxygen (titration)	TM187	Alkali-iodide –azide reagent	10 Days	APHA-45000 C
COD	TM107	Sulfuric Acid	28 Days	APHA 5220 D
pH	TM256	Refrigerate	24 Hours	APHA4500 H ⁺ -B
Phosphate	TM230	Freezer	24 Hours	APHA4500-P E
Total Suspended Solids	TM236	Refrigerate	24 Hours	APHA-2540 D
Alkalinity	TM232	Refrigerate	24 Hours	APHA-2320 B

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Accredited Waters Test Method Parameter	Relevant Test Method(s)	Preservative	Max Holding time	Reference
Nitrate HR	TM233	Refrigerate	24 Hours	APHA4500-NO ₃ E
Nitrite HR	TM228	Refrigerate	48 Hours	APHA4500-NO ₂ B
Electrical Conductivity	TM120	Refrigerate	24 Hours	HACH 10256
Color	TM261	Refrigerate	5 Days	APHA-2120 C
Sulphate	TM229	Refrigerate	28 Days	APHA4500-SO ₄ ²⁻ E
Total chlorine	TM227	-	-	APHA4500-Cl G
Turbidity	TM234	Refrigerate	48 Hours	APHA2130-B
TDS by Conductivity Probe	TM241	Refrigerate	24 Hours	HACH 8160
Flash point	TM254	Tightly close container	7 Days	ASTM D 93
Fluoride	TM243	-	28 Days	APHA 4500-F ⁻ C
Nitrate LR	TM246	Refrigerate	48 hours	HACH 8192
Nitrite LR	TM239	Refrigerate	48 hours	APHA 4500-NO ₂ B
DO by probe	TM245	-	Should be tested Immediately	HACH 10360
Ammonia	TM242	Sulfuric acid & Refrigerate	28 days	HACH 8038
Free Chlorine	TM238	-	Should be tested Immediately	HACH 10069

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Accredited Waters Test Method Parameter	Relevant Test Method(s)	Preservative	Max Holding time	Reference
Salinity	TM240	Refrigerate	24 hours	APHA-2520B
Moisture Content	TM251	-	Should be tested Immediately	ASTM D2216
Total Oil And Grease FTIR	TM 255	Sulfuric acid & Refrigerate	28 days	APHA-5520
Oil & Grease by Soxhlet	TM248	Sulfuric acid & Refrigerate	28 days	APHA-5520 D
Total Kjeldahl Nitrogen	TM 258	Sulfuric acid & Refrigerate	28 Days	AOAC 973.48
Total Organic Carbons (TOC)	TM 263	Sulfuric acid & Refrigerate	28 Days	APHA-5310 A
Total Nitrogen	TM 264	Sulfuric acid & Refrigerate	28 Days	APHA-5310 A
Pesticides (GC-MS)	TM 265	Refrigerate	14 Days	EPA-8270
Sulphide	TM 247	Zinc Acetate	7 Days	ISO EN5667-3:2012
Phenol	TM 257	Phosphoric Acid Refrigerate	24 Hours	HACH 8047
Cyanide	TM 250	Sodium hydroxide Refrigerate	14 Days	HACH 8027
Metals By ICP-OES	TM262	Nitric acid	6 months (182 days)	USEPA SW846 v4 2007 Chapter 3 Table
Mercury and Arsenic in water	TM 266	Hydrogen chloride	28 Days	USEPA