

WATER RESOURCES ACT

(reg.102)

 (Cap.72:03)

 WATER RESOURCES REGULATIONS, 2018 **FORM L**

 WATER OR WASTEWATER QUALITY SAMPLING PROCEDURES

The procedures to be followed where water/wastewater quality sample is taken for prosecution purposes shall include:

1. The presence of the alleged polluter at the place and time of sampling;
2. Where the intended analysis is to determine compliance with physical and chemical parameters, then a sample shall be taken and divided into three portions, each contained in an appropriate capacity container and preserved according to standard practice.
3. Where the intended analysis is to determine compliance with microbiological parameters, then a sample shall be taken and divided into three portions, each contained in a sterile glass bottle and preserved according to standard practise;
4. All three portions will be sealed in the presence of the alleged polluter who is required to sign an acknowledgement that he has witnessed the sampling process and the sample(s) collected are representative;
5. One portion will be provided to the alleged polluter who may obtain his/her own independent analysis from a gazetted laboratory of his/her choice;
6. One portion shall be sent by the Authority to a gazetted laboratory for analysis; and
7. One portion shall be retained by the Authority for future reference provided that the storage of the sample is safe enough and the period of storage does not result in the deterioration of the sample.

**Types of preservation suitable for different determinants**

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| --- | --- | --- | --- |
| Determinant | Material of sample container | Method of preservations | Maximum time between sampling and analysis |
| CalciumChlorideConductivityFluorideHardnessMagnesiumPotassiumSodiumSulphateAlkalinityBOD5ColourNitrogen:AmmoniaNitriteNitrateOrganicOdourPhenolsPhosphorus:TotalOrthophosphateSilicaCODOil/GreaseNitrogen ammoniaNitriteNitrateOrganicMetals:Total metalsDissolved metalsMercuryCyanidePhenolsChlorineDissolved OxygenpHSolids:DissolvedTotalTurbidityRadiological TestsAlpha, beta and radiumPesticides Tests:Pesticides | P or GP or GP or GP P or GP or GP P P or GP or GGP or GP or GP or GP or GGGGP or GP or GPGGP or GP or GP or GGP P P P GGGP or GP or GP or GP or GP or GG, Teflon-cap | None neededNone neededNone neededNone neededNone neededNone neededNone neededNone neededNone neededRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CRefrigeration at 40CFilter on site, then refrigeration at 40CFilter on site, then refrigeration at 40CH2SO4, 1-2 ml/litre of sampleH2SO4, 1-2 ml/litre of sampleHgC12, 12-40 mg/litre of sampleHgC12, 12-40 mg/litre of sampleHgC12, 12-40 mg/litre of sampleHgC12, 12-40 mg/litre of sampleHNO3, 2-10ml/litre of sampleFilter on site, then add HNO3, 2-10ml/litre of sampleHNO3, 5-10ml/litre of sampleAdd NaOH to give pH 10-11CuSO4 5H2O), 1g/litre of sample then H3PO4 to give pH 4HNO3 to pH<2Cool, 40c, pH 5-9e | 7 days7 days7 days7 days7 days7 days7 days7 days7 days24 hours4-24 hours24 hours1-7 days1-7 days24 hours 24 hours6-24 hours24 hours1-7 days24 hours1-7 days1-7 days24 hours1-7 days1-7 days24 hours24 hoursMany weeksMany weeks7 days7 days24 hoursImmediatelyAnalyse as soon as possible, preferably on siteAnalyse as soon as possible, preferably on site24 hours7 days4-24 hours6 months7 days until extraction, 40 days after extraction |

1. P= Polyethylene; G = Glass
2. The times quoted are only rough indicators;
3. The maximum time depends on the type of sample;
4. Analysis can be started on site and completed in a laboratory

The pH adjustment may be performed upon receipt at the laboratory and may be omitted if the samples are extracted within 72 hours of collection. For the analysis of aldrin, add 0.008% Na2S2O3.