

# Drinking Water Quality Assurance Rules Reporting Guidelines

Version 1.0



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## 1. Overview and purpose of this document

The [Drinking Water Quality Assurance Rules](#) (the Rules) set requirements for drinking water suppliers to conduct monitoring and reporting activities in relation to drinking water supplies. The Rules came into effect on 14 November 2022. We expect reporting to commence from 1 January 2023.

These guidelines are initially targeted toward suppliers operating supplies serving over 500 people (reporting from March 2023) and 100 people (reporting from April 2023). The guidance will be updated for supplies serving under 100 people in June 2023.

Taumata Arowai intends to provide further guidance for smaller suppliers and these guidelines will be refined over time.

This document aims to give drinking water suppliers clarity on what data they need to report and how they can report it. It describes how reporting should be conducted. It also proposes technology requirements for reporting. This document should be read in conjunction with the Rules, which prevail over this document in the event of any conflict.

## 2. Reporting guidelines

This document provides guidance to suppliers as to what information they must report to Taumata Arowai under the Rules.

This reporting is a limited subset of the overall monitoring data collected by suppliers in connection with their monitoring obligations, their assurance activities, and their overall obligation to provide safe drinking water.

The reporting requirements in the Rules are independent of the broader powers of Taumata Arowai to seek information from suppliers under the Water Services Act 2021.

Reporting requirements are determined by the Rule modules that drinking water suppliers must demonstrate compliance against. The Rules dictate which modules apply to particular supplies.

There are three kinds of rules to be aware of:

1. Monitoring rules which are sample based.
2. Monitoring rules which require continuous or on-line monitoring equipment (Continuous Monitoring).
3. Assurance rules which require reporting on particular activities.

Generally speaking (rule G4), reporting on all rules (assurance and monitoring) is conducted annually, however a small subset of rules require reporting at more regular intervals over shorter timeframes, specifically:

1. For level 1 supplier monitoring rules, rule G1 and table 3.
2. For level 2 supplier monitoring rules, rule G2 and table 4.
3. For level 3 supplier monitoring rules, rule G3 and tables 5, 6 and 7.

## 3. Rule modules for types of supplies

This document sets out the reporting requirements on a rule-by-rule basis. It is organised around the modules as set out in the Rules, being:

1. **Very Small Communities Module (VSC)** – includes microbiological monitoring requirements only, for supplies with a base population of 25 or fewer people.

2. **Source Water Modules (S1, S2, S3)** – three complexity levels dependant on the size of the supply (26-100 people, 101-500 people, more than 500 people), covering rules for source water sampling.
3. **Treatment System Modules (T1, T2, T3)** – three complexity levels dependant on the size of the supply, covering rules for bacterial compliance, protozoal compliance, chemical compliance and cyanotoxin compliance.
4. **Distribution System Modules (D1, D2, D3)** – three complexity levels dependant on the size of the supply, covering rules for backflow prevention, preventing recontamination of stored water, hygiene practices for maintenance and upgrades, monitoring FAC, disinfection by-products and microbial water quality.
5. **Water Carrier Services Module (WC)** – including rules which cover the transport of drinking water.
6. **Varying Population Module (VP)** – covers additional monitoring requirements that must be met when the usual base population of a drinking water supply increases for limited periods of time.
7. **Temporary Drinking Water Supplies Module (TDWS)** – including rules for source water testing, treatment and monitoring requirements.

## 4. When to report data

### Commencement of monitoring and reporting obligations

All supplies need to begin monitoring according to the Drinking Water Quality Assurance Rules from 1 January 2023.

Rule Module	Most Frequent Reporting Requirement	Due to Taumata Arowai	Within
Level 3 modules (serving >500 people)	Monthly	1 February 2023 <sup>1</sup>	10 working days
Level 2 modules (serving 101 - 500 people)	Quarterly	1 April 2023	20 working days
Level 1 modules (serving 26 - 100 people)	6 Monthly	1 July 2023	20 working days
Very Small Communities modules	Annual	1 January 2024	40 working days

1. Although Supplies following level 3 modules (serving >500 people) will have monthly reports due to Taumata Arowai from February 2023, they will be given additional time to prepare reports for January 2023. We anticipate that suppliers will be able to report from 1 March 2023.

For more details, please refer to the [Drinking Water Quality Assurance Rules](#).

## 5. How to report data

All reporting must be conducted through Hinekōrako.

In future you will be able to access this information via the Reporting page in Hinekōrako. There are two options for reporting data to Taumata Arowai.

## Data Reporting Options

### Via Excel template upload

Suppliers will be able to fill in an Excel template which they can upload through Hinekōrako.

Please refer to the companion file titled “DWQAR-Reporting-Template.xlsx” which shows a draft of this template.

### Via API

Suppliers who use monitoring and assurance software may be able automatically report to Taumata Arowai via a web-based API (Application Programming Interface).

Authentication will be proved through an API Key. Further details on access and endpoints will be added to this document as they are designed. For an example of the data format for the API, please refer to the companion file titled “*sample-report-structure.json*”

Please contact your monitoring and assurance software provider to understand if they can support this option.

### Via Webform in Hinekōrako

If required, a web form may be developed to allow reporting data to be entered in Hinekōrako, particularly for supplies following the Very Small Communities module, which only will only report E. coli and Total Coliforms annually.

## Data Structure

To ensure data quality and reliability, there is a data structure of core fields.

Reporting is by supply, rule, then sample. For each reporting period, each supply will require a report. Each report can include multiple rules. Each rule report can include multiple samples if appropriate (Continuous Monitoring rules do not require Samples to be reported).

This data structure summarised below, but can also be reviewed in both “DWQAR-Reporting-Template.xlsx”, or (for the API only) “*sample-report-structure.json*”.

### Reporting Fields

Field Name	Example	Description
external_report_id	“your report id here”	The ID of the report in the suppliers’ systems
reporting_period_start	“2023-01-01”	The reporting period start date
reporting_period_end	“2023-12-31”	The reporting period end date
supply_id	“AHA300”	The Hinekōrako code of the Supplier
date_submitted	“2024-01-30”	The date the report was submitted
source_system	“Water Software Ltd”	The system that was the source of the report
email	“contact@example.com”	A supplier contact email for report
name	“Person who submitted”	A contact person for report
rules	[List of rules]	The rules being reported against

### Rule Fields

Field Name	Example	Description
rule_id	“T1.8”	The rule identifier if appropriate
supply_component_id	“TP04026”	The Hinekōrako code of the supply component
complies_with_rule	true	Statement of compliance
non_compliant_periods	3	The number of non-compliant periods

<b>notes</b>	"plain text notes"	Notes around compliance failures
<b>samples</b>	[List of samples]	An optional array of samples if appropriate

### Sample Fields

Suppliers submitting reports for continuous monitoring rules are not required to submit sample data when reporting on their compliance with those rules.

Field Name	Example	Description
<b>external_sample_id</b>	"your sample id here"	An optional identifier for the sample
<b>sample_date</b>	"2023-02-20"	The date the sample was taken
<b>parameter_determinand</b>	"Ecoli"	An optional description of the determinand being sampled. This is necessary for some rules.
<b>value_prefix</b>	">"	
<b>value</b>	999	The sample value as measured by a lab
<b>unit</b>	"mg/L"	The unit of the sample value
<b>complies_with_rule</b>	true	Is the sample considered compliant
<b>source_class</b>	"Class 1"	Required only when reporting against S3 rules, valid values are "Class 1", "Class 2", "Class 3" and null
<b>notes</b>	"plain text notes"	An optional set of notes associated with the sample

A tabulated view of the reporting requirements is set out in the Appendix and are also recorded in "DWQAR Summary List - DRAFT.xlsx".

## Appendix – Drinking Water Quality Assurance Rules Summary List

This Appendix provides a structured list of the Drinking Water Quality Assurance Rules (DWQAR) and can be found in Excel format in the companion file titled “DWQAR Summary List - DRAFT.xlsx”. The DWQAR will prevail over this document in the event of any conflict

### VSC – Very Small Communities Module

Rule ID	Type	Determinand	Sampling Frequency	Duration between samples	Compliance period	Reporting period	Report Timeframe
<b>VSC.1</b>	Monitoring		Every 6 Months	At least 5 Months	Annually	Annually	40 Working Days
<b>VSC.1-ecol</b>	Monitoring	E. coli	Every 6 Months	At least 5 Months	Annually	Annually	40 Working Days
<b>VSC.1-coli</b>	Monitoring	Total Coliforms	Every 6 Months	At least 5 Months	Annually	Annually	40 Working Days

### G – General Module

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>G1</b>	Monitoring	N/A	Varies	Varies	Varies
<b>G2</b>	Monitoring	N/A	Varies	Varies	Varies
<b>G3</b>	Monitoring	N/A	Varies	Varies	Varies
<b>G4</b>	Monitoring	N/A	Varies	Varies	Varies
<b>G5</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G6</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G7</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G8</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G9</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G10</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G11</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G12</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G13</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G14</b>	Assurance	N/A	Annually	Annually	40 Working Days

<b>G15</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G16</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>G17</b>	Monitoring	Every 30 Minutes (Minimum)	N/A	Annually	40 Working Days



### S1 – Source Water Module 1 (26-100 People)

Rule ID	Type	Determinand	Group	Sampling Frequency	Reporting period	Report Timeframe
<b>S1.1</b>	Monitoring			Varies	Annually	40 Working Days
<b>S1.1-ecol</b>	Monitoring	E. coli	Bacterial	Every 3 Months	Annually	40 Working Days
<b>S1.1-coli</b>	Monitoring	Total coliforms	Bacterial	Every 3 Months	Annually	40 Working Days
<b>S1.1-arse</b>	Monitoring	Arsenic	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.1-boro</b>	Monitoring	Boron	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.1-nitr</b>	Monitoring	Nitrate	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.1-iron</b>	Monitoring	Iron	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.1-mang</b>	Monitoring	Manganese	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.2</b>	Monitoring			Varies	Annually	40 Working Days
<b>S1.2-ecol</b>	Monitoring	E. coli	Bacterial	Every 3 Months	Annually	40 Working Days
<b>S1.2-coli</b>	Monitoring	Total Coliforms	Bacterial	Every 3 Months	Annually	40 Working Days
<b>S1.2-cadm</b>	Monitoring	Cadmium	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.2-copp</b>	Monitoring	Copper	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.2-zinc</b>	Monitoring	Zinc	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.2-lead</b>	Monitoring	Lead	Chemical	Every 3 Years	Annually	40 Working Days
<b>S1.2-benz</b>	Monitoring	Benzo [a] pyrene (collected in winter – June, July, or August).	Chemical	Every 3 Years	Annually	40 Working Days

### T1 – Treatment System Module 1 (26-100 People)

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T1.8</b>	Monitoring		Every 3 Months	3 Months	6 Months	20 Working Days
<b>T1.8-ecol</b>	Monitoring	E. coli	Every 3 Months	3 Months	6 Months	20 Working Days
<b>T1.8-coli</b>	Monitoring	Total Coliforms	Every 3 Months	3 Months	6 Months	20 Working Days
<b>T1.8-turb</b>	Monitoring	Turbidity	Every 3 Months	3 Months	6 Months	20 Working Days

### D1 – Distribution System Module 1 (26-100 People)

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>D1.1</b>	Monitoring		Every 3 Months	3 Months	6 Months	20 Working Days
<b>D1.1-ecol</b>	Monitoring	E. coli	Every 3 Months	3 Months	6 Months	20 Working Days
<b>D1.1-coli</b>	Monitoring	Total Coliforms	Every 3 Months	3 Months	6 Months	20 Working Days

## S2 – Source Water Module 2 (101-500 People)

Rule ID	Type	Determinand	Group	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>S2.1</b>	Monitoring			Varies	N/A	Annually	40 Working Days
<b>S2.1-ecol</b>	Monitoring	E. coli	Bacterial	Monthly	N/A	Annually	40 Working Days
<b>S2.1-coli</b>	Monitoring	Total Coliforms	Bacterial	Monthly	N/A	Annually	40 Working Days
<b>S2.1-ph</b>	Monitoring	pH	Physico-chemical	Every 6 Months	N/A	Annually	40 Working Days
<b>S2.1-turb</b>	Monitoring	Turbidity	Physico-chemical	Every 6 Months	N/A	Annually	40 Working Days
<b>S2.1-iron</b>	Monitoring	Iron	Physico-chemical	Annually	N/A	Annually	40 Working Days
<b>S2.1-mang</b>	Monitoring	Manganese	Physico-chemical	Annually	N/A	Annually	40 Working Days
<b>S2.1-nitr</b>	Monitoring	Nitrate	Physico-chemical	Annually	N/A	Annually	40 Working Days
<b>S2.1-arse</b>	Monitoring	Arsenic	Physico-chemical	Every 3 Years	N/A	Annually	40 Working Days
<b>S2.1-boro</b>	Monitoring	Boron	Physico-chemical	Every 3 Years	N/A	Annually	40 Working Days
<b>S2.2</b>	Monitoring			Varies	N/A	Annually	40 Working Days
<b>S2.2-ecol</b>	Monitoring	E. coli		Monthly	N/A	Annually	40 Working Days
<b>S2.2-coli</b>	Monitoring	Total Coliforms		Monthly	N/A	Annually	40 Working Days
<b>S2.2-cadm</b>	Monitoring	Cadmium		Every 3 Years	N/A	Annually	40 Working Days
<b>S2.2-copp</b>	Monitoring	Copper		Every 3 Years	N/A	Annually	40 Working Days
<b>S2.2-zinc</b>	Monitoring	Zinc		Every 3 Years	N/A	Annually	40 Working Days
<b>S2.2-lead</b>	Monitoring	Lead		Every 3 Years	N/A	Annually	40 Working Days
<b>S2.2-benz</b>	Monitoring	Benzo [a] pyrene (In winter – June, July, or August).		Every 3 Years	N/A	Annually	40 Working Days
<b>S2.3</b>	Monitoring			Additional	N/A	Annually	40 Working Days
<b>S2.4</b>	Assurance			N/A	Annually	Annually	40 Working Days
<b>S2.5</b>	Assurance			N/A	Annually	Annually	40 Working Days
<b>S2.6</b>	Monitoring			N/A	Monthly	Annually	40 Working Days
<b>S2.7</b>	Assurance			N/A	Annually	Annually	40 Working Days

## T2 – Treatment System Module 2 (101-500 People)

### Treatment Monitoring Rules

Rule ID	Type	Determinand	Sampling Frequency	Duration between samples	Compliance period	Reporting period	Report Timeframe
<b>T2.1</b>	Monitoring		Varies	Varies	Varies	Annually	40 Working Days
<b>T2.1-turb</b>	Monitoring	Turbidity (of water leaving the treatment plant)	2 per Week	At least 2 Days	Monthly	Annually	40 Working Days
<b>T2.1-uviu</b>	Monitoring	UVI or UV dose (at the reactor)	2 per Week	At least 2 Days	Monthly	Annually	40 Working Days
<b>T2.1-flow</b>	Monitoring	Flow (at the reactor)	2 per Week	At least 2 Days	Monthly	Annually	40 Working Days
<b>T2.1-fac</b>	Monitoring	FAC (of water leaving the treatment plant)	2 per Week	At least 2 Days	Monthly	Annually	40 Working Days
<b>T2.1-ph</b>	Monitoring	pH (of water leaving the treatment plant)	2 per Week	At least 2 Days	Monthly	Annually	40 Working Days
<b>T2.1-ecol</b>	Monitoring	E. coli (in water leaving the treatment plant)	Monthly	At least 12 Days	Monthly	Annually	40 Working Days
<b>T2.1-coli</b>	Monitoring	Total Coliforms (in water leaving the treatment plant)	Monthly	At least 12 Days	Monthly	Annually	40 Working Days
<b>T2.1-trea</b>	Monitoring	Any chemical used in the treatment process (excluding FAC and Fluoride)	Monthly	At least 12 Days	Monthly	Annually	40 Working Days
<b>T2.1-fluo</b>	Monitoring	Fluoride (if added, in water leaving the treatment plant)	2 per Week	At least 2 Days	Monthly	Annually	40 Working Days
<b>T2.1-uvt</b>	Monitoring	UVT	Every 3 Months	At least 70 Days	Annually	Annually	40 Working Days

<b>T2.1-chrt</b>	Monitoring	Chlorate (if sodium hypochlorite is used, in water leaving the treatment plant)	Every 3 Months	At least 70 Days	Annually	Annually	40 Working Days
<b>T2.2</b>	Monitoring		Monthly	N/A	Monthly	3 Months	20 Working Days
<b>T2.2-ecol</b>	Monitoring	E. coli (in water leaving the treatment plant)	Monthly	N/A	Monthly	3 Months	20 Working Days
<b>T2.2-coli</b>	Monitoring	Total Coliforms (in water leaving the treatment plant)	Monthly	N/A	Monthly	3 Months	20 Working Days

**Filtration Rules**

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
T2.3	Assurance	N/A	Annually	Annually	40 Working Days
T2.4	Assurance	N/A	Annually	Annually	40 Working Days
T2.5	Assurance	N/A	Annually	Annually	40 Working Days
T2.6	Assurance	N/A	Annually	Annually	40 Working Days
T2.7	Assurance	N/A	Annually	Annually	40 Working Days
T2.8	Assurance	N/A	Annually	Annually	40 Working Days
T2.9	Monitoring	Not Specified	Monthly	3 Months	20 Working Days

**UV Rules**

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
T2.10	Assurance	N/A	Annually	Annually	40 Working Days
T2.11	Assurance	N/A	Annually	Annually	40 Working Days
T2.12	Monitoring	Not Specified	Monthly	Annually	40 Working Days
T2.13	Monitoring	Not Specified	Monthly	3 Months	20 Working Days
T2.14	Monitoring	Not Specified	Monthly	Annually	40 Working Days
T2.15	Assurance	N/A	Annually	Annually	40 Working Days
T2.16	Assurance	N/A	Annually	Annually	40 Working Days
T2.17	Assurance	N/A	Annually	Annually	40 Working Days

**Chlorine Rules**

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
T2.18	Monitoring	Not Specified	Monthly	3 Months	20 Working Days
T2.19	Monitoring	Not Specified	Monthly	3 Months	20 Working Days
T2.20	Monitoring	Not Specified	Monthly	Annually	40 Working Days
T2.21	Monitoring	Not Specified	Monthly	Annually	40 Working Days

**Chemical Rules**

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
T2.22	Monitoring	Not Specified	Monthly	Annually	40 Working Days
T2.23	Monitoring	Event Based	Event Based	Annually	40 Working Days
T2.24	Assurance	N/A	Annually	Annually	40 Working Days

**Cyanotoxin Rules**

Rule ID	Type	Compliance period	Reporting period	Report Timeframe
T2.25	Monitoring	Event Based	Annually	40 Working Days

## D2 - Distribution System Module 2 (101-500 People)

Rule ID	Type	Determinand	Sampling Frequency	Duration between samples	Compliance period	Reporting period	Report Timeframe
<b>D2.1</b>	Monitoring		Varies	Varies	Varies	Varies	20 Working Days
<b>D2.1-ecol</b>	Monitoring	E. coli	Monthly	At least 12 Days	Monthly	3 Months	20 Working Days
<b>D2.1-coli</b>	Monitoring	Total Coliforms	Monthly	At least 12 Days	Monthly	3 Months	20 Working Days
<b>D2.1-fac</b>	Monitoring	FAC	2 per Week	At least 2 Days	Monthly	Annually	20 Working Days
<b>D2.1-anti</b>	Monitoring	Antimony	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-cadm</b>	Monitoring	Cadmium	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-chro</b>	Monitoring	Chromium	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-copp</b>	Monitoring	Copper	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-lead</b>	Monitoring	Lead	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-merc</b>	Monitoring	Mercury	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-nick</b>	Monitoring	Nickel	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.1-zinc</b>	Monitoring	Zinc	Annually	At least 150 Days	Annually	Annually	20 Working Days
<b>D2.2</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D2.3</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D2.4</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D2.5</b>	Monitoring	FAC	2 per Week	N/A	Monthly	3 Months	20 Working Days
<b>D2.6</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D2.7</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days

## S3 – Source Water Module 3 (>500 People)



Rule ID	Type	Determinand	Group	Sampling Frequency	Compliance period	Reporting period	Class	Report Timeframe
<b>S3.1</b>	Assurance			N/A	Annually	Annually	N/A	40 Working Days
<b>S3.2</b>	Assurance			N/A	Annually	Annually	N/A	40 Working Days
<b>S3.3</b>	Monitoring			Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-ecol</b>	Monitoring	E. coli	Bacteria	2 per Month	N/A	Annually	N/A	40 Working Days
<b>S3.3-coli</b>	Monitoring	Total Coliforms	Bacteria	2 per Month	N/A	Annually	N/A	40 Working Days
<b>S3.3-iron</b>	Monitoring	Iron	Physico-chemical	Monthly	N/A	Annually	N/A	40 Working Days
<b>S3.3-mang</b>	Monitoring	Manganese	Physico-chemical	Monthly	N/A	Annually	N/A	40 Working Days
<b>S3.3-colo</b>	Monitoring	Colour	Physico-chemical	Monthly	N/A	Annually	N/A	40 Working Days
<b>S3.3-nitr</b>	Monitoring	Nitrate	Physico-chemical	Monthly	N/A	Annually	N/A	40 Working Days
<b>S3.3-alka</b>	Monitoring	Alkalinity	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-anti</b>	Monitoring	Antimony	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-arse</b>	Monitoring	Arsenic	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-bari</b>	Monitoring	Barium	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-cadm</b>	Monitoring	Cadmium	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-calc</b>	Monitoring	Calcium	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-chlo</b>	Monitoring	Chloride	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-chro</b>	Monitoring	Chromium	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-copp</b>	Monitoring	Copper	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-lead</b>	Monitoring	Lead	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-magn</b>	Monitoring	Magnesium	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-merc</b>	Monitoring	Mercury	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-nick</b>	Monitoring	Nickel	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-sodi</b>	Monitoring	Sodium	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-sulp</b>	Monitoring	Sulphate	Physico-chemical	Varies	N/A	Annually	N/A	40 Working Days
<b>S3.3-c1co</b>	Monitoring	Conductivity		Varies	N/A	Annually	1	40 Working Days
<b>S3.3-c1ph</b>	Monitoring	pH		Varies	N/A	Annually	1	40 Working Days

<b>S3.3-c1tu</b>	Monitoring	Turbidity		Varies	N/A	Annually	1	40 Working Days
<b>S3.3-cond</b>	Monitoring	Conductivity		Continuous	N/A	Annually	2 3 4	40 Working Days
<b>S3.3-ph</b>	Monitoring	pH		Continuous	N/A	Annually	2 3 4	40 Working Days
<b>S3.3-turb</b>	Monitoring	Turbidity		Continuous	N/A	Annually	2 3 4	40 Working Days
<b>S3.4</b>	Monitoring			Every 10 Years	N/A	Annually	N/A	40 Working Days
<b>S3.4-alpha</b>	Monitoring	Gross alpha activity	Radiological	Every 10 Years	N/A	Annually	N/A	40 Working Days
<b>S3.4-beta</b>	Monitoring	Gross beta activity	Radiological	Every 10 Years	N/A	Annually	N/A	40 Working Days
<b>S3.4-pota</b>	Monitoring	Potassium	Chemical	Every 10 Years	N/A	Annually	N/A	40 Working Days
<b>S3.5</b>	Monitoring			Event Based	N/A	Annually	N/A	40 Working Days
<b>S3.6</b>	Monitoring			Varies	Varies	Annually	N/A	40 Working Days
<b>S3.7</b>	Assurance			N/A	Annually	Annually	N/A	40 Working Days
<b>S3.8</b>	Assurance			N/A	Annually	Annually	N/A	40 Working Days
<b>S3.9</b>	Assurance			N/A	Annually	Annually	N/A	40 Working Days

### T3 – Treatment System Module 3 (>500 People)

#### Bacterial Rules

*Bacterial Rules for Water Disinfected with Chlorine*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.1</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.1-fac</b>	Continuous Monitoring	FAC	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-ph</b>	Continuous Monitoring	pH	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-leve</b>	Continuous Monitoring	Water level in the contact tank (if used)	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-face</b>	Continuous Monitoring	FACE	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-t10</b>	Continuous Monitoring	T10 Contact Time	Continuous	1 Day	Annually	40 Working Days
<b>T3.1-c.t</b>	Continuous Monitoring	C.t	Continuous	1 Day	Annually	40 Working Days
<b>T3.2</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.3</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.4</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.5</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.6</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days

*Bacterial Rules for Water Disinfected with Chlorine Dioxide*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.7</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.7-fac</b>	Continuous Monitoring	FAC	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-ph</b>	Continuous Monitoring	pH	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-leve</b>	Continuous Monitoring	Water level in the contact tank (if used)	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-face</b>	Continuous Monitoring	FACE	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-t10</b>	Continuous Monitoring	T10 Contact Time	Continuous	1 Day	Annually	40 Working Days
<b>T3.7-c.t</b>	Continuous Monitoring	C.t	Continuous	1 Day	Annually	40 Working Days
<b>T3.8</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.9</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.10</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.11</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days

*Bacterial Rules for Water Disinfected with Ozone*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.12</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.12-ozon</b>	Continuous Monitoring	Ozone Residual	Continuous	1 Day	Annually	40 Working Days
<b>T3.12-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.12-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.12-leve</b>	Continuous Monitoring	Water level in the contact tank (if used)	Continuous	1 Day	Annually	40 Working Days
<b>T3.12-t10</b>	Continuous Monitoring	T10 Contact Time	Continuous	1 Day	Annually	40 Working Days

<b>T3.12-c.t</b>	Continuous Monitoring	C.t (Ozone x T10 Contact Time).	Continuous	1 Day	Annually	40 Working Days
<b>T3.13</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.14</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days

*Bacterial Rules for Water Disinfected with Ultraviolet Light*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.15</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.15-uvt</b>	Continuous Monitoring	UVT	Continuous	1 Day	Annually	40 Working Days
<b>T3.15-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.15-uvi</b>	Continuous Monitoring	UVI or dose	Continuous	1 Day	Annually	40 Working Days
<b>T3.15-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.15-sens</b>	Assurance		N/A	Monthly	Annually	40 Working Days
<b>T3.15-red</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.16</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.17</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.18</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.19</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.20</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.21</b>	Assurance		N/A	Annually	Annually	40 Working Days

**Protozoal Rules**

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.22</b>	Assurance		N/A	Annually	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation and Sedimentation without Filtration [0.5-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.23</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.24</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.25</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.25-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation, and Direct Filtration [2.5-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.26</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.27</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.28</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.29</b>	Assurance			Annually	Annually	40 Working Days
<b>T3.29-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.29-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation, and Direct Filtration [3.0-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.30</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.31</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.32</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.33</b>	Assurance			Annually	Annually	40 Working Days
<b>T3.33-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.33-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation, and Direct Filtration [3.5-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.34</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.35</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.36</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.37</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.37-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.37-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation, Sedimentation, and Filtration [3-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.38</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.39</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days



<b>T3.40</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.41</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.41-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.41-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation, Sedimentation, and Filtration [3.5-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.42</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.43</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.44</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.45</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.45-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.45-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Coagulation, Flocculation, Sedimentation, and Filtration [4-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.46</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.46</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.46</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.46</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.49-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.49-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Second Stage Filtration [0.5-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.50</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.51</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.52</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.53</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.53-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.53-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Slow Sand Filtration [2.5-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.54</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.55</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.56</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.57</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.58</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.59</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.60</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.61</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.62</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.62-temp</b>	Continuous Monitoring	Temperature	Continuous	1 Day	Annually	40 Working Days
<b>T3.62-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.62-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.62-surf</b>	Continuous Monitoring	Surface loading rate.	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Cartridge Filtration [2.0-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.63</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.64</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.65</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.66</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.67</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.68</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.69</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.70</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.71</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.72</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.72-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.72-pres</b>	Continuous Monitoring	Differential Pressure	Continuous	1 Day	Annually	40 Working Days
<b>T3.72-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.72-sers</b>	Continuous Monitoring	Service State	Continuous	1 Day	Annually	40 Working Days
<b>T3.72-cert</b>	Assurance		N/A	Annually	Annually	40 Working Days

*T3 Protozoal Rules for Membrane Filtration [up to 4.0-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.73</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.74</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.75</b>	Assurance		N/A	Annually	Annually	40 Working Days

<b>T3.76</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.77</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.78</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.79</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.79-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.79-sers</b>	Continuous Monitoring	Service State (of membrane filtration)	Continuous	1 Day	Annually	40 Working Days
<b>T3.79-memb</b>	Monitoring	Membrane integrity	Non-Continuously Monitored	N/A	Annually	40 Working Days

*T3 Protozoal Rules for Ozone Disinfection [0.25 to 3.0-Log]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.80</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.81</b>	Monitoring	Water temperature (degrees celsius)	Continuous	1 Day	Monthly	10 Working Days
<b>T3.82</b>	Monitoring	Water temperature (degrees celsius)	Continuous	1 Day	Annually	40 Working Days
<b>T3.83</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.84</b>	Monitoring		Continuous	Annually	Annually	40 Working Days
<b>T3.84-ozon</b>	Continuous Monitoring	Ozone Residual	Continuous	1 Day	Annually	40 Working Days
<b>T3.84-temp</b>	Continuous Monitoring	Temperature	Continuous	1 Day	Annually	40 Working Days
<b>T3.84-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.84-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.84-leve</b>	Continuous Monitoring	Water level in the contact tank (if used)	Continuous	1 Day	Annually	40 Working Days
<b>T3.84-t10</b>	Continuous Monitoring	T10 Contact Time	Continuous	1 Day	Annually	40 Working Days
<b>T3.84-c.t</b>	Continuous Monitoring	C.t (Ozone x T10 Contact Time).	Continuous	1 Day	Annually	40 Working Days

*T3 Protozoal Rules for Ultraviolet Light Disinfection [up to 4-Log as determined by the validation/certification of the reactor]*

Rule ID	Type	Determinand	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.85</b>	Assurance		N/A	Annually	Annually	40 Working Days
<b>T3.86</b>	Monitoring		Continuous	1 Day	Monthly	10 Working Days
<b>T3.87</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.88</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.89</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.90</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.91</b>	Monitoring		Continuous	1 Day	Annually	40 Working Days
<b>T3.91-uvt</b>	Continuous Monitoring	UVT	Continuous	1 Day	Annually	40 Working Days
<b>T3.91-turb</b>	Continuous Monitoring	Turbidity	Continuous	1 Day	Annually	40 Working Days
<b>T3.91-uvi</b>	Continuous Monitoring	UVI or UV dose	Continuous	1 Day	Annually	40 Working Days
<b>T3.91-flow</b>	Continuous Monitoring	Flow	Continuous	1 Day	Annually	40 Working Days
<b>T3.91-uvis</b>	Assurance	UVI sensor checking and standardisation	N/A	Monthly	Annually	40 Working Days
<b>T3.91-uvc</b>	Assurance	UV certification/validation	N/A	Annually	Annually	40 Working Days

**Chemical Rules**

Rule ID	Type	Determinand	Sampling Frequency	Duration between samples	Compliance period	Reporting period	Report Timeframe
<b>T3.92</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>T3.93</b>	Monitoring		N/A	Varies	Varies	Annually	40 Working Days
<b>T3.93-stan</b>	Monitoring		Annually (Minimum)	N/A	Annually	Annually	40 Working Days
<b>T3.93-elev</b>	Monitoring		Monthly (Minimum)	N/A	Monthly	Annually	40 Working Days
<b>T3.93-chlo</b>	Monitoring	Chlorate	Weekly (Minimum)	N/A	Monthly	Annually	40 Working Days
<b>T3.93-fac</b>	Continuous Monitoring	FAC	Continuous (Minimum)	N/A	Monthly	Annually	40 Working Days
<b>T3.93-fluo</b>	Continuous Monitoring	Fluoride	Continuous (Minimum)	N/A	Monthly	Annually	40 Working Days
<b>T3.94</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>T3.95</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>T3.96</b>	Monitoring		Event Based	N/A	Varies	Annually	40 Working Days

**Cyanotoxin Rules**

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>T3.97</b>	Monitoring	Varies	Monthly	Annually	40 Working Days

### D3 – Distribution System Module 3 (>500 People)

#### Backflow Protection Rules

Rule ID	Type	Compliance period	Reporting period	Report Timeframe
D3.1	Assurance	Annually	Annually	40 Working Days
D3.2	Assurance	Annually	Annually	40 Working Days
D3.3	Assurance	Annually	Annually	40 Working Days
D3.4	Assurance	Annually	Annually	40 Working Days
D3.5	Assurance	Annually	Annually	40 Working Days
D3.6	Assurance	Annually	Annually	40 Working Days

#### New and Repaired Watermains Hygiene Procedures Rules

Rule ID	Type	Compliance period	Reporting period	Report Timeframe
D3.7	Assurance	Annually	Annually	40 Working Days
D3.8	Assurance	Annually	Annually	40 Working Days
D3.9	Assurance	Annually	Annually	40 Working Days
D3.10	Assurance	Annually	Annually	40 Working Days
D3.11	Assurance	Annually	Annually	40 Working Days

#### Facilities Operation, Maintenance and Disinfection Rules

Rule ID	Type	Compliance period	Reporting period	Report Timeframe
D3.12	Assurance	Annually	Annually	40 Working Days
D3.13	Assurance	Annually	Annually	40 Working Days
D3.14	Assurance	Annually	Annually	40 Working Days
D3.15	Assurance	Annually	Annually	40 Working Days
D3.16	Assurance	Annually	Annually	40 Working Days

<b>D3.17</b>	Assurance	Annually	Annually	40 Working Days
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**Residual Disinfection, Disinfection By-product, and Plumbosolvent Metal Rules**

Rule ID	Type	Determinand	Sampling Frequency	Duration between samples	Compliance period	Reporting period	Report Timeframe
<b>D3.18</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D3.19</b>	Monitoring		See Rule	N/A	Monthly	Monthly	10 Working Days
<b>D3.20</b>	Monitoring		Varies	Varies	Monthly	Annually	40 Working Days
<b>D3.21</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D3.22</b>	Monitoring	Disinfection By-products	1 per Quarter	N/A	Annually	Annually	40 Working Days
<b>D3.23</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days
<b>D3.24</b>	Monitoring		Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-anti</b>	Monitoring	Antimony	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-cadm</b>	Monitoring	Cadmium	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-chro</b>	Monitoring	Chromium	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-copp</b>	Monitoring	Copper	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-lead</b>	Monitoring	Lead	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-merc</b>	Monitoring	Mercury	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-nick</b>	Monitoring	Nickel	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.24-zinc</b>	Monitoring	Zinc	Every 6 Months	N/A	Annually	Annually	40 Working Days
<b>D3.25</b>	Monitoring		N/A	N/A	Annually	Annually	40 Working Days
<b>D3.26</b>	Assurance		Varies	N/A	Annually	Annually	40 Working Days
<b>D3.27</b>	Assurance		N/A	N/A	Annually	Annually	40 Working Days



### Microbiological Monitoring Rules

Rule ID	Type	Sampling Frequency	Compliance period	Reporting period	Report Timeframe
<b>D3.28</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>D3.29</b>	Monitoring	Varies	Monthly	Monthly	10 Working Days
<b>D3.30</b>	Assurance	N/A	Annually	Annually	40 Working Days
<b>D3.31</b>	Assurance	N/A	Annually	Annually	40 Working Days

### VP – Varying Population Module

Rule ID	Type	Determinand	Sampling Frequency	Duration between samples	Compliance period	Reporting period	Report Timeframe
<b>VP.1</b>	Monitoring		See Rule	See Rule	Monthly	Annually	40 Working Days
<b>VP.2</b>	Monitoring		See Rule	See Rule	Monthly	Annually	40 Working Days
<b>VP.3</b>	Monitoring		Varies	Varies	Varies	Annually	40 Working Days
<b>VP.3-ttur</b>	Monitoring	Turbidity (of water leaving the treatment plant)	Daily	12 Hours	1 Day	Annually	40 Working Days
<b>VP.3-tfac</b>	Monitoring	FAC (of water leaving the treatment plant)	Daily	12 Hours	1 Day	Annually	40 Working Days
<b>VP.3-tph</b>	Monitoring	pH (of water leaving the treatment plant)	Daily	12 Hours	1 Day	Annually	40 Working Days
<b>VP.3-teco</b>	Monitoring	E. coli (in water leaving the treatment plant)	Weekly	4 Days	Monthly	Annually	40 Working Days
<b>VP.3-tcol</b>	Monitoring	Total Coliforms (in water leaving the treatment plant)	Weekly	4 Days	Monthly	Annually	40 Working Days
<b>VP.3-dfac</b>	Monitoring	FAC	Daily	12 Hours	1 Day	Annually	40 Working Days
<b>VP.3-deco</b>	Monitoring	E. coli	Weekly	4 Days	Monthly	Annually	40 Working Days
<b>VP.3-dcol</b>	Monitoring	Total Coliforms	Weekly	4 Days	Monthly	Annually	40 Working Days