DWQAR aggregate compliance rate methodology

June 2025

## **Purpose**

To provide instructions on calculating an aggregate compliance rate from data reported under the Drinking Water Quality Assurance Rules (DWQAR)[[1]](#footnote-2)

## **Context**

The DWQAR requires drinking water suppliers to report against multiple rules for multiple supply components with varying reporting and compliance periods.

In order to produce an aggregate compliance rate for a supply and reporting period several steps are required.

## **Methodology**

### **3.1 Identify compliance period for relevant rules**

Each rule id has a different compliance period ranging from 1 day to a year. The first step is to identify the compliance period for each rule id you are required to report on. The rule summary list[[2]](#footnote-3) may be useful for this.

***Example 1:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | **compliance period** |
| T3.10 | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 5 | **1 Day** |
| T2.1-ecol | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 2 | **Monthly** |
| T1.8-ecol | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 3 | **3 Months** |
| T2.1-uvt | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 1 | **Annually** |

### **3.2 Calculate the compliance period units for each rule and reporting period**

Calculate the number of compliance periods in a reporting period according to the following table

|  |  |
| --- | --- |
| Compliance period | Description |
| 1 Day | The number of days in a reporting period |
| Monthly | The number of months in a reporting period |
| 3 Months | The number of months in a reporting period divided by 3 |
| Annually | The number of years in a reporting period |

***Example 2:***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | compliance period | **compliance period units** |
| T3.10 | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 5 | 1 Day | **366** |
| T2.1-ecol | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 2 | Monthly | **12** |
| T1.8-ecol | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 3 | 3 Months | **4** |
| T2.1-uvt | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 1 | Annually | **1** |

If the compliance period is shorter than the reporting period, just enter 1 for compliance period units

### **3.3 Calculate the number of days for each rule and reporting period**

Calculate the number of days for each rule and reporting period

***Example 3:***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | compliance period | compliance period units | **days in reporting period** |
| T3.10 | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 5 | 1 Day | 366 | **366** |
| T2.1-ecol | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 2 | Monthly | 12 | **366** |
| T1.8-ecol | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 3 | 3 Months | 4 | **366** |
| T2.1-uvt | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 1 | Annually | 1 | **366** |

### **3.4 Convert non-compliant periods into days**

In order to aggregate a compliance rate we need to convert the non-compliant periods into days as a common unit using the formula:

$$Non compliant periods in days=non compliant periods× \frac{days in reporting period}{compliance periods}$$

***Example 4:***

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | compliance period | compliance period units | days in reporting period | **non-compliant days** |
| T3.10 | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 5 | 1 Day | 366 | 366 | **5** |
| T2.1-ecol | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 2 | Monthly | 12 | 366 | **61** |
| T1.8-ecol | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 3 | 3 Months | 4 | 366 | **274.5** |
| T2.1-uvt | FAKE\_001 | FAKE\_TP001 | 1/01/2024 | 31/12/2024 | FALSE | 1 | Annually | 1 | 366 | **366** |

### **3.5 Calculate rule category compliance rate**

Now we can calculate a rule category compliance rate with the following formula:

$Rule category compliance rate=1- \frac{sum\left(non compliant days\right)}{sum\left(days in reporting period\right)} × 100$

Example 5:

The supply has reported against the following T3 bacterial rules for UV treatment

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | compliance period | compliance period units | days in reporting period | non-compliant days |
| T3.15-flow | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 5 | 1 Day | 365 | 365 | 5 |
| T3.15-sens | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 3 | Monthly | 12 | 365 | 91.25 |
| T3.15-turb | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 2 | 1 Day | 365 | 365 | 2 |
| T3.15-uvt | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 0 | 1 Day | 365 | 365 | 0 |
| T3.16 | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 0 | 1 Day | 365 | 365 | 0 |
| T3.17 | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 0 | 1 Day | 365 | 365 | 0 |
| T3.18 | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 0 | 1 Day | 365 | 365 | 0 |
|  |  |  |  |  |  |  |  | **Totals** | **2555** | **98.25** |

Their T3 bacterial compliance rate for the reporting period is calculated as:

$$1- \frac{\left(5+91.25+2\right)}{\left(7×365\right)}×100=1-\frac{98.25}{2555}×100=96.2\%$$

***Example 6:***

The supply has reported against the following T1 treatment rules, due to the amendment to the rules for very small to medium supplies[[3]](#footnote-4) they report against the old rules for the period 1/7/2024 to 31/12/2024 and the new rules from 1/1/2025 to 30/6/2025.

This approach will be required for both the Level 1 and Level 2 Rules.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | compliance period | compliance period units | days in reporting period | non-compliant days |
| T1.8-ecol | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 31/12/2024 | FALSE | 1 | 3 Months | 2 | 184 | 92 |
| T1.8-coli | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 31/12/2024 | FALSE | 1 | 3 Months | 2 | 184 | 92 |
| T1.8-turb | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 31/12/2024 | FALSE | 0 | 3 Months | 2 | 184 | 0 |
| T1.1-a | FAKE\_001 | FAKE\_TP001 | 1/01/2025 | 30/06/2025 | FALSE | 0 | 3 Months | 2 | 181 | 0 |
| T1.1-b | FAKE\_001 | FAKE\_TP001 | 1/01/2025 | 30/06/2025 | FALSE | 0 | 3 Months | 2 | 181 | 0 |
| T1.1-c | FAKE\_001 | FAKE\_TP001 | 1/01/2025 | 30/06/2025 | FALSE | 1 | 3 Months | 2 | 181 | 90.5 |
|  |  |  |  |  |  |  |  | **Totals** | **1095** | **274.5** |

Their T1 Treatment compliance rate for the reporting period is calculated as:

$$1- \frac{274.5}{1095}×100=74.9\%$$

***Example 7:***

The supply has reported against the T3 protozoal rule for 3 treatment plants

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| rule id | supply id | component id | reporting period start | reporting period end | complies with rule | non-compliant periods | compliance period | compliance period units | days in reporting period | non-compliant days |
| T3.22 | FAKE\_001 | FAKE\_TP001 | 1/07/2024 | 30/06/2025 | FALSE | 1 | Annually | 1 | 365 | 365 |
| T3.22 | FAKE\_001 | FAKE\_TP050 | 1/07/2024 | 30/06/2025 | FALSE | 0 | Annually | 1 | 365 | 0 |
| T3.22 | FAKE\_001 | FAKE\_TP099 | 1/07/2024 | 30/06/2025 | FALSE | 0 | Annually | 1 | 365 | 0 |
|  |  |  |  |  |  |  |  | **Totals** | **1095** | **365** |

Their T3 protozoal compliance rate for the reporting period is calculated as:

$$1-\frac{365}{1095}×100=66.6\%$$

### **3.6 Alternate compliance rate for T3 Bacterial Rules**

The T3 bacterial rules span several treatment options and a council may opt to demonstrate compliance with more than one treatment process, for example using chlorine and UV disinfection. To account for this, a council may use an alternate approach to calculating their compliance rate.

The alternate approach is to calculate the percentage of days in the reporting period that **each** treatment plant was fully compliant with **at least one** bacterial treatment option set. A non-compliant day is recorded if all applicable treatment options were non-compliant for any treatment plant.

***Example 8:***

 The supply has one treatment plant and is using chlorine and UV, they recorded 2 days of non-compliance, one for each treatment option. As these were on different days one treatment option was always functioning, their compliance is therefore 365/365 = 100%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| T3 bacterial treatment disinfection option set | supply id | component id | non compliance recorded | description |
| Chlorine T3.1-T3.6 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | FAC below 0.2 |
| Ultraviolet light T3.15-T3.21 | FAKE\_001 | FAKE\_TP001 | 1/01/2025 | RED below 40 |

Conversely, if the non-compliance occurred on the same day, their compliance would be 364/365 = 99.7%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| T3 bacterial treatment disinfection option set | supply id | component id | non compliance recorded | description |
| Chlorine T3.1-T3.6 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | FAC below 0.2 |
| Ultraviolet light T3.15-T3.21 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | RED below 40 |

***Example 9:***

The supply has two treatment plants, one of which is using chlorine and UV and one is only using chlorine. The plant using chlorine and UV has 1 day where both options were non-compliant and the plant using chlorine only was non-compliant on the same day. The single days non-compliance is only counted once so their compliance rate is (365-1)/365 = 364/365 = 99.7%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| T3 bacterial treatment disinfection option | supply id | component id | non compliance recorded | description |
| Chlorine T3.1-T3.6 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | Turbidity spike over 1 NTU for 2 hours |
| Ultraviolet light T3.15-T3.21 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | Turbidity spike over 5 NTU for 2 hours |
| Chlorine T3.1-T3.6 | FAKE\_001 | FAKE\_TP002 | 1/12/2024 | Turbidity spike over 1 NTU for 2 hours |

### **3.7 Alternate compliance rate for T3 Protozoal Rules**

There are two methods to calculate a compliance rate with the T3 Protozoal Rules, the first is to simply calculate the percentage of treatment plants that were compliant with T3.22 over the reporting period as shown in example 7.

The alternate approach is to use the percentage of days in the reporting period that each treatment plant achieved the log credits required in accordance with the Protozoa Rules identified in the list.

One or more sets of protozoa rules may need to be fully complied with to achieve the required log credits for each day of the year. If two barriers are required to achieve log credits, but only one barrier was fully compliant for a day (e.g. only 3 log credits were achieved, when the source water requires 4 log treatment), the day should be considered as not being compliant and reported accordingly.

Example 10: The supply has one treatment plant and is using membrane filtration and UV, both processes achieve the log credits required for the source water. They recorded 2 days of non-compliance however because they were on different days their compliance is 365/365 = 100%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| T3 protozoal treatment option | supply id | component id | non compliance recorded | description |
|  Membrane filtration (up to 4.0 log) T3.73-T3.79 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | Turbidity spike over 1 NTU |
| Ultraviolet light (up to 4.0 log) T3.85-T3.91 | FAKE\_001 | FAKE\_TP001 | 1/01/2025 | UV dose insufficient for 1 hour  |

Example 11: The supply is using cartridge filtration and UV to treat water requiring 4 log credits. UV provides sufficient log credits on its own but not cartridge filtration, they record 2 days of non-compliance however only failed to meet their log credit requirement on the single day their UV failed. Their compliance rate is (365-1)/365 = 364/365 = 99.7%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| T3 protozoal treatment option | supply id | component id | non compliance recorded | description |
| Cartridge filtration (2.0 log) T3.63-T3.72 | FAKE\_001 | FAKE\_TP001 | 1/12/2024 | Turbidity spike over 1 NTU |
| Ultraviolet light (up to 4.0 log) T3.85-T3.91 | FAKE\_001 | FAKE\_TP001 | 1/01/2025 | UV dose insufficient for 1 hour  |

### **3.8 Assign performance rating for the category**

Assign a performance rating for the category based on the following thresholds:

|  |  |
| --- | --- |
| Compliance rate | Performance rating |
| 100% | All met |
| 95% to 99.99% | Almost met |
| 0.01% to 94.99% | Partially met |
| 0% | None met |

## **Schedule of rules for each category**

Note that level 1 and 2 rules have different rule sets depending on the reporting period

### **4.1 Level 1 Rules (note the amendment at 1 January 2025):**

**T1 Treatment Rules**

|  |  |  |
| --- | --- | --- |
| **Category** | **Rule ID** | **Applies to reporting period** |
| **T1 Treatment Rules** | T1.8-ecol | Until 31st of December 2024 |
| **T1 Treatment Rules** | T1.8-coli | Until 31st of December 2024 |
| **T1 Treatment Rules** | T1.8-turb | Until 31st of December 2024 |
| **T1 Treatment Rules** | T1.1-a | From 1st of January 2025 |
| **T1 Treatment Rules** | T1.1-b | From 1st of January 2025 |
| **T1 Treatment Rules** | T1.1-c | From 1st of January 2025 |

**D1 Distribution System Rules**

|  |  |  |
| --- | --- | --- |
| **Category** | **Rule ID** | **Applies to reporting period** |
| **D1.1 Distribution System Rules** | D1.1-ecol | Until 31st of December 2024 |
| **D1.1 Distribution System Rules** | D1.1-coli | Until 31st of December 2024 |
| **D1.1 Distribution System Rules** | D1.1-a | From 1st of January 2025 |
| **D1.1 Distribution System Rules** | D1.1-b | From 1st of January 2025 |

### **4.2 Level 2 Rules (note the amendment at 1 January 2025):**

**T2 Treatment Monitoring Rules**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| T2 Treatment Monitoring Rules | T2.1-turb | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.1-flow | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.1-ph | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.1-ecol | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.1-coli | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.1-uvt | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.2-coli | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.2-ecol | Until 31st of December 2024 |
| T2 Treatment Monitoring Rules | T2.1-a | From 1st of January 2025 |
| T2 Treatment Monitoring Rules | T2.1-b | From 1st of January 2025 |
| T2 Treatment Monitoring Rules | T2.2-a | From 1st of January 2025 |
| T2 Treatment Monitoring Rules | T2.2-b | From 1st of January 2025 |
| T2 Treatment Monitoring Rules | T2.2-c | From 1st of January 2025 |

**T2 Chlorine Rules**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| T2 Chlorine Rules | T2.18 | Until 31st of December 2024 |
| T2 Chlorine Rules | T2.19 | Until 31st of December 2024 |
| T2 Chlorine Rules | T2.20 | Until 31st of December 2024 |
| T2 Chlorine Rules | T2.21 | Until 31st of December 2024 |
| T2 Chlorine Rules | T2.6-b | From 1st of January 2025 |
| T2 Chlorine Rules | T2.6-c | From 1st of January 2025 |
| T2 Chlorine Rules | T2.9-b | From 1st of January 2025 |

**T2 Filtration Rules**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| T2 Filtration Rules | T2.3 | Until 31st of December 2024 |
| T2 Filtration Rules | T2.9 | Until 31st of December 2024 |
| T2 Filtration Rules | T2.7-a | From 1st of January 2025 |
| T2 Filtration Rules | T2.7-b | From 1st of January 2025 |
| T2 Filtration Rules | T2.7-c | From 1st of January 2025 |
| T2 Filtration Rules | T2.7-d | From 1st of January 2025 |
| T2 Filtration Rules | T2.6-a | From 1st of January 2025 |

**T2 UV Rules**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| T2 UV Rules | T2.10 | Until 31st of December 2024 |
| T2 UV Rules | T2.11 | Until 31st of December 2024 |
| T2 UV Rules | T2.12 | Until 31st of December 2024 |
| T2 UV Rules | T2.13 | Until 31st of December 2024 |
| T2 UV Rules | T2.14 | Until 31st of December 2024 |
| T2 UV Rules | T2.9-a | From 1st of January 2025 |
| T2 UV Rules | T2.10-d.i | From 1st of January 2025 |
| T2 UV Rules | T2.10-d.ii | From 1st of January 2025 |
| T2 UV Rules | T2.10-d.iii | From 1st of January 2025 |
| T2 UV Rules | T2.10-d.iv | From 1st of January 2025 |
| T2 UV Rules | T2.10-d.v | From 1st of January 2025 |
| T2 UV Rules | T2.10-c | From 1st of January 2025 |
| T2 UV Rules | T2.10-e.i | From 1st of January 2025 |
| T2 UV Rules | T2.10-e.ii | From 1st of January 2025 |

**D2.1 Distribution System Rule**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| D2.1 Distribution System Rule | D2.1-ecol | Until 31st of December 2024 |
| D2.1 Distribution System Rule | D2.1-coli | Until 31st of December 2024 |
| D2.1 Distribution System Rule | D2.1-a | From 1st of January 2025 |
| D2.1 Distribution System Rule | D2.1-b | From 1st of January 2025 |

### **4.3 Level 3 Rules**

**T3 Bacterial Rules**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| T3 Bacterial Rules | T3.10 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.11 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.12-c.t | From 1st of January 2023 |
| T3 Bacterial Rules | T3.12-flow | From 1st of January 2023 |
| T3 Bacterial Rules | T3.12-ozon | From 1st of January 2023 |
| T3 Bacterial Rules | T3.12-t10 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.12-turb | From 1st of January 2023 |
| T3 Bacterial Rules | T3.13 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.14 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.15-flow | From 1st of January 2023 |
| T3 Bacterial Rules | T3.15-sens | From 1st of January 2023 |
| T3 Bacterial Rules | T3.15-turb | From 1st of January 2023 |
| T3 Bacterial Rules | T3.15-uvt | From 1st of January 2023 |
| T3 Bacterial Rules | T3.16 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.17 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.18 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-c.t | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-fac | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-face | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-flow | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-ph | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-t10 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.1-turb | From 1st of January 2023 |
| T3 Bacterial Rules | T3.2 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.3 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.4 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.5 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.6 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-c.t | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-clo2 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-fac | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-face | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-flow | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-ph | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-t10 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-todi | From 1st of January 2023 |
| T3 Bacterial Rules | T3.7-turb | From 1st of January 2023 |
| T3 Bacterial Rules | T3.8 | From 1st of January 2023 |
| T3 Bacterial Rules | T3.9 | From 1st of January 2023 |

**T3 Protozoal Rules**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| T3 Protozoal Rules | T3.22 | From 1st of January 2023 |

**T3 Alternate Protozoal Rules**

|  |  |  |
| --- | --- | --- |
| **Category** | **Rule ID** | **Applies to reporting period** |
| **T3 Protozoal Rules - alternate** | T3.23 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.24 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.25-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.25-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.26 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.27 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.28 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.29-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.29-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.29-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.29-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.30 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.31 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.32 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.33-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.33-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.33-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.33-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.34 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.35 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.36 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.37-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.37-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.37-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.37-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.38 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.39 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.40 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.41-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.41-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.41-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.41-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.42 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.43 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.44 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.45-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.45-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.45-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.45-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.46 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.47 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.48 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.49-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.49-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.49-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.49-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.50 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.51 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.52 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.53-lmts | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.53-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.53-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.54 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.55 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.56 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.57 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.58 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.59 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.60 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.61 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.62-flow | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.62-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.62-surf | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.62-temp | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.62-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.63 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.64 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.65 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.66 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.67 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.68 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.69 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.70 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.71 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.72-cert | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.72-flow | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.72-pres | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.72-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.72-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.73 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.74 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.75 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.76 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.77 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.78 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.79-cert | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.79-recy | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.79-sers | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.79-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.80 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.81 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.82 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.83 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-c.t | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-flow | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-leve | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-ozon | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-t10 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-temp | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.84-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.85 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.86 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.87 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.88 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.89 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.90 | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-cert | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-dose | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-flow | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-sens | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-turb | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-uvi | From 1st of January 2023 |
| **T3 Protozoal Rules - alternate** | T3.91-uvt | From 1st of January 2023 |

**D3.29 Microbiological Monitoring Rule**

|  |  |  |
| --- | --- | --- |
| Category | Rule ID | Applies to reporting period |
| D3.29 Microbiological Monitoring Rule | D3.29-coli | From 1st of January 2023 |
| D3.29 Microbiological Monitoring Rule | D3.29-ecol | From 1st of January 2023 |
| D3.29 Microbiological Monitoring Rule | D3.29 | From 1st of January 2023 |

End of document.

1. [Drinking Water Quality Assurance Rules](https://www.taumataarowai.govt.nz/assets/Drinking-Water-Supplier/Drinking-Water-Quality-Assurance-Rules-2022-Released-25-July-2022.pdf) [↑](#footnote-ref-2)
2. https://www.taumataarowai.govt.nz/assets/Portal/DWQAR-summary\_list.xlsx [↑](#footnote-ref-3)
3. [Drinking-Water-Quality-Assurance-Very-Small-to-Medium-Drinking-Water-Supplies-Amendment-Rules-2024.pdf](https://www.taumataarowai.govt.nz/assets/Drinking-Water-Supplier/Drinking-Water-Quality-Assurance-Very-Small-to-Medium-Drinking-Water-Supplies-Amendment-Rules-2024.pdf?t=t) [↑](#footnote-ref-4)