Work instruction Drinking water: calculation of 90-Percentile concentration
Updated version – from 2023 onwards

Since the former version of this working instruction, there have been several changes to the location and name of the drinking water abstraction points, which are processed in the current update.

- Request the raw data for the substance of interest via www.vewin.nl/stoffen
- Insert the following summarizing block below all measurements (start at column D, two lines below last entry).
  - Remove the data for Eijsden and Lobith (if reported) since these are not used as drinking water abstraction points and therefore do not need to be taken into account for the assessment of the 90-percentile.
  - Make sure the codes for the locations match the formulas
  - Make sure that the right row numbers are selected for each abstraction point. --> Please note that the order of abstraction points of the raw data is now alphabetical, but the order of the results table is still based on the grouping in catchment areas

Total no of measurements=	=COUNT(g2:gxxx)
Number of measurements exceeding the drinking water criterion=	=COUNTIF(j2:jxxx,"J")
Number of measurements exceeding the detection limit=	=COUNTIF(f2:fxxx,"+")
Maximum value=	=MAX(i2:ixxx)
Number of times that concentration is 0.1 µg/L =	=COUNTIF(i2:ixxx,"0.1")
Overall 90-percentile =	=PERCENTILE(i2:ixxx,0.9)

	Total	#>d.l.	#>0.1 µg/L	90-Percentile for each abstraction point
# measurements Andijk:	=COUNTIF(A$2:A$xxx,"And")	=COUNTIF(f2:fxx,"+")	=COUNTIF(j2:jxx,"J")	=PERCENTILE(i2:ixx,0.9)
# measurements Nieuwegein:	=COUNTIF(A$2:A$xxx,"Ngn")	=COUNTIF(fxx:fxxx,"+")	=COUNTIF(jxx:jxxx,"J")	=PERCENTILE(ixx:ixxx,0.9)
# measurements Amsterdam Rijn-Kanaal (=Nieuwersluis):	=COUNTIF(A$2:A$xxx,"Nsl")	Etc.	Etc.	Etc.
# measurements	=COUNTIF(A$2:A$xxx,"Bra")			

Brakel:

measurements Heel: =COUNTIF(A$2:A$xxx,"Hee")

measurements Bergsche Maas (formerly Keizersveer): =COUNTIF(A$2:A$xxx,"Bsm")

measurements Haringvliet (formerly Stellendam): =COUNTIF(A$2:A$xxx,"Hav")

measurements Drentsche Aa =COUNTIF(A$2:A$xxx,"Dra")

Totals =SUM(fxxx:fxxxx) =SUM(gxxx :gxxxx) =SUM(hxxx :hxxxx)

All available data of RIWA Rhine/Meuse and Drentsche Aa over period (e.g.) 2017-2021 are taken into account. Values below detection limit are transferred to 0.5* detection limit.

- The totals below should match the totals listed at the top
- Please take into account the number of decimals (final report should not contain additional decimals compared to the raw data and rounding should be done in the final stage only).
- Report the summary of the findings in the following format in the National Addendum assessment (Part B section 8, section 9.8.7.3 drinking water criterion) as follows

Table 9.8.7.3-1 **Monitoring data for [name] at drinking water abstraction points from surface water in the period [e.g., 2017 – 2021]**

Abstraction point	Number of measurements above detection limit/ Number of measurements [n/N]	Number of measurements above drinking water limit/ Number of measurements [n/N]	Overall 90-percentile [µg/L]
Andijk			
Nieuwegein			
Amsterdam-Rijn kanaal (Nieuwersluis)			
Brakel			
Heel			
Bergsche Maas*			
Haringvliet**			
Drentsche Aa (De Punt)			

* please note that from June 2021 onwards abstraction point Petrusplaat/Keizersveer is renamed to Bergsche Maas

** please note that from June 2017 onwards abstraction point Scheelhoek/Stellendam is renamed to Haringvliet

- In addition, please provide Ctgb with the spreadsheet calculations.