

WISE SoE Reportnet Guidance

Short note on WISE-4 - Update of units

Introduction

This document explains how and why the units were changed for selected observed properties (determinands) in the WISE-4 (Water quality) data flow. The changes are valid starting with the WISE SoE data call 2016 and were applied to the vocabulary [QCCombinationTableObserved propertyUom](#) that defines the correct units for the observed properties in the given WISE SoE DD tables. This vocabulary is used for automatic QC and checks for valid combination of observed property and unit.

Rationale

Some inconsistencies between observed properties and units were found by countries during reporting under 2015 data call for WISE-4. This is corrected for the 2016 data call. The changes are given in **Table 1**. The changes are related to observed properties (compounds that are dioxin-like substances) that were reported for the water phase and where the requested unit was ug{TEQ}/kg and where the toxic equivalency factors (WHO2005 TEFs) don't exist at the moment. These observed properties must now be reported in ug/L. The laboratories should use the correct WHO2005 TEFs for dioxin like compounds provided by WHO for remaining observed properties requested in ug{TEQ}/kg (e.g. see Van den Berg, Martin, et al. "The 2005 World Health Organization reevaluation of human and mammalian toxic equivalency factors for dioxins and dioxin-like compounds." *Toxicological sciences* 93.2 (2006): 223-241.)

The changes affects data reported in the WISE-4 tables aggregatedData and disaggregatedData.

List of changes

Table 1. List of changes in the vocabulary QCCombinationTableObserved propertyUom

observedObserved propertyCode	Preferred label	resultUom (old)	resultUom (new - change)
CAS_12767-79-2	Aroclor	ug{TEQ}/kg	ug/L
CAS_1336-36-3	Polychlorinated biphenyls	ug{TEQ}/kg	ug/L
CAS_136677-10-6	Polychlorinated dibenzofurans (10 PCDFs)	ug{TEQ}/kg	ug/L
CAS_2051-24-3	PCB 209 (5,5',6,6'-decachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_262-12-4	Dibenzodioxin	ug{TEQ}/kg	ug/L
CAS_35065-27-1	PCB 153 (2,2',4,4',5,5'-hexachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_35065-28-2	PCB 138 (2,2',3,4,4',5'-hexachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_35065-29-3	PCB 180 (2,2',3,4,4',5,5'-heptachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_35065-30-6	PCB 170 (1,2,3,4-tetrachloro-5-(2,3,4-trichlorophenyl)benzene)	ug{TEQ}/kg	ug/L
CAS_35693-99-3	PCB 52 (2,2',5,5'-tetrachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_35694-08-7	PCB 194 (1,2,3,4-tetrachloro-5-(2,3,4,5-tetrachlorophenyl)benzene)	ug{TEQ}/kg	ug/L

CAS_37680-73-2	PCB 101 (2,2',4,5,5'-pentachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_41464-42-0	PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_60145-21-3	PCB 103 (2,2',4,5',6-pentachlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_7012-37-5	PCB 28 (2,4,4'-trichlorobiphenyl)	ug{TEQ}/kg	ug/L
CAS_70362-41-3	PCB 106 (2,3,3',4,5'-pentachlorobiphenyl)	ug{TEQ}/kg	ug/L
EEA_33-38-5	Polychlorinated biphenyls (7 PCB: 28,52,101,118,138,153,180)	ug{TEQ}/kg	ug/L