

Guidance for reporting on the supplementary monitoring programmes and on the preliminary programmes of measures for substances newly identified under Directive 2008/105/EC on environmental quality standards

Purpose

Article 3 (1a (ii)) of Directive 2008/105/EC on environmental quality standards in the field of water policy, amended by Directive 2013/39/EU, requires Member States to establish and submit to the European Commission a supplementary monitoring programme and a preliminary programme of measures covering newly identified substances. The aim of this document is to provide concise guidance on the main elements required for the reporting of the above-mentioned programmes.

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1. Introduction

One of the aims of the Water Framework Directive¹ (WFD) is to ensure the good chemical status of surface water bodies across the European Union. This means that the concentrations of substances identified as posing a significant risk to/via the aquatic environment at EU level (also called priority substances) should not exceed the relevant environmental quality standards (EQS). EQS are set to protect the most sensitive species by direct toxicity, but also predators and humans against secondary poisoning and humans against contamination via drinking water.

Directive 2008/105/EC² on environmental quality standards in the field of water policy, as amended by Directive 2013/39/EU³, establishes the list of priority substances and their EQS. In particular, Directive 2013/39/EU identified new substances or groups of substances (see **Annex** to this guidance) which present a significant risk to or via the aquatic environment. According to the EQS Directive, Member States have the obligation to establish and submit to the Commission, by 22 December 2018, a supplementary monitoring programme and a preliminary programme of measures for those substances. A final programme of measures has to be established by 21 December 2021 (the date of submission of the 3rd River Basin Management Plans (RBMPs) and consequently the update of Programme of Measures) and become fully operational no later than 22 December 2024.

The aim of this document is to provide concise guidance on what the reporting of the supplementary monitoring programme and preliminary programme of measures for these newly identified substances should contain. This reporting is to be used by the Commission to assess whether the legal obligations as required by the Directive 2008/105/EC as amended by Directive 2013/39/EU are met. The conclusions drawn from this reporting and any implementation difficulties identified through it will feed into the discussions of the Working Group on Chemicals of the WFD Common Implementation Strategy. Last but not least, this effort will give the opportunity for the Member States to learn from each other in terms of which drivers are identified and which measures can be taken to address them at national level.

Chapter 2 describes the elements to be reported for the supplementary monitoring programme and a preliminary programme of measures.

Chapter 3 and the Annex present the schemas developed for this reporting, with guidance on how to fill them.

¹ Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy.

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32000L0060>

² Directive 2008/105/EC of the European Parliament and of the Council of 16 December 2008 on environmental quality standards in the field of water policy

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:348:0084:0097:en:PDF>

³ Directive 2013/39/EU of the European Parliament and of the Council as regards priority substances in the field of water policy <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:226:0001:0017:EN:PDF>

2. Contents of the reporting

Members of the Working Group on Data and Information sharing (WG DIS), as well as of WG Chemicals agreed that this reporting should follow as closely as possible the reporting of monitoring programmes and programmes of measures that was done as part of the 2016 reporting of the River Basin Management Plans (RBMPs).

It should be noted that reporting is due for each substance or group of substances in the Directive. When substances are part of a group, no reporting is expected on the individual substances.

A. Reporting of supplementary monitoring programme

Member States are expected to report on the supplementary monitoring programmes they put in place in order to be able to correctly measure the new priority substances and assess their status.

The information should, as a minimum, include:

- Name of the substance to be monitored and water category (e.g. lake, river etc) in which the monitoring takes place;
- Type of monitoring i.e. surveillance / operational / investigative, and coverage (e.g. in terms of percentage of water bodies);
- Timing/frequency of monitoring. The monitoring performed between 2019 and 2021 should allow Member States to assess the status of these newly identified substances in their third RBMPs. This monitoring should be done according to the requirements of the WFD;
- The matrix in which monitoring is done (i.e. water, sediment, biota) as well as the corresponding EQS;
- Whether the limits of quantification of the analytical methods are compliant with the requirements of Commission Directive 2009/90/EC⁴;
- Whether the monitoring will be used for status assessment or for the long-term trend analysis of concentrations of the priority substances that tend to accumulate in sediment and/or biota, particularly the substances numbered 34, 35, 36, 37, 43 and 44 listed in Part A of Annex I of Directive 2013/39/EU;
- If a substance is to be excluded from further monitoring, or if the EQS for another matrix is to be applied, an explanation of the reasons that led to those choices.

⁴ Commission Directive 2009/90/EC of 31 July 2009 laying down, pursuant to Directive 2000/60/EC of the European Parliament and of the Council, technical specifications for chemical analysis and monitoring of water status <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32009L0090&from=EN>

B. Reporting of preliminary programme of measures

Member States are expected to report on a preliminary programme of measures established for the new priority substances, with the aim of achieving good surface water chemical status in relation to those substances by 2027. The final programme of measures should be established by 22 December 2021, in accordance with Article 11 of the WFD.

The information to be reported should contain, as a minimum, the following:

- Key Types of Measures that are expected to address significant pressures. Member States should be able to select one or more of the pre-defined KTMs. The concept of KTMs was explained and used extensively in the reporting of the 2nd RBMPs (see Section 10.1 of the WFD Reporting Guidance 2016⁵);
- Significant pressures associated with the new priority substances, e.g. point sources of pollution, diffuse sources of pollution, etc, and the corresponding drivers;
- An explanation of how the pressures have been identified (modelling /expert judgment/ monitoring / others)?
- Whether each substance has been identified at the risk of failing good status for all or some water bodies;
- If no measure are planned, an explanation of why that is the case;
- Information relating to how the cost of measures are expected to be covered, e.g. public funds, European funds such as Structural, Cohesion or CAP funds.

3. Information which the Commission expects to find in the background documents

The European Commission expects to find in the background documents the information mentioned in **Contents of the reporting** that is not part of the electronic schemas as well as all the other information Member States deem useful, preferably in English.

Similarly to the 2016 reporting of RBMPs, Member States will have two possibilities:

⁵ http://cdr.eionet.europa.eu/help/WFD/WFD_521_2016/Guidance/WFD_ReportingGuidance.pdf

- a) Upload a copy of the documents to WISE, including a clear reference (document and section) where required in the electronic data (guidance on the naming of files is included in the user manual for reporting to WISE that can be found at <http://icm.eionet.europa.eu/schemas/dir200060ec/resources/Reporting%20User%20Manual%20RBMP%20v2.0.pdf>); or
- b) Include a clear reference (document and section) and a URL to the document stored in a website in the Member State. Where this option is selected, the Member State must guarantee that the URL will remain active for a period of 6 years after reporting and that the document referred to will not be updated nor modified during that period.

4. Schema diagrams and guidance on completion of schema elements

Certain elements of the schemas will be pre-filled. As a general rule, these values cannot be modified unless indicated otherwise.

Spatial information for monitoring sites which have already been reported, either in WFD reporting or in WISE SoE reporting, does not have to be provided again. For any new monitoring sites, however, the spatial data needs to be provided in a GML file, which should be uploaded to the same envelope as the two XML files.

The descriptions below include a brief explanation of what should be reported under each schema element and, in the "Properties" field, the cardinality of each element. For the Classes, the cardinality is mentioned in the Class header.

Please note that the notation used for "many" (meaning that more than one value can be reported) is "-1", so a cardinality of "0..-1" for a Class or "maxOccurs = -1 minOccurs = 0" means that the Class or element has a cardinality of 0-to-many.

A minimum value of 1 means that the Class or element is required, while a minimum value of 0 for a Class means that the Class is optional and for an element means that the element is either optional or conditional. The distinction between these two cases is in the field "Guidance on completion of schema element", which also includes the conditions under which the reporting is required for conditional elements.

One particular case is the Class NewSubstance, in the schema for the preliminary programme of measures, which has a cardinality of 12N-to-12N, where N is the number of Sub-Units in the RBD. This means that the Class needs to be reported once for each new substance and for each Sub-Unit.

A. Reporting of supplementary monitoring programme

Figure 1 presents the schema sketch (UML diagram) of the supplementary monitoring programme reporting.

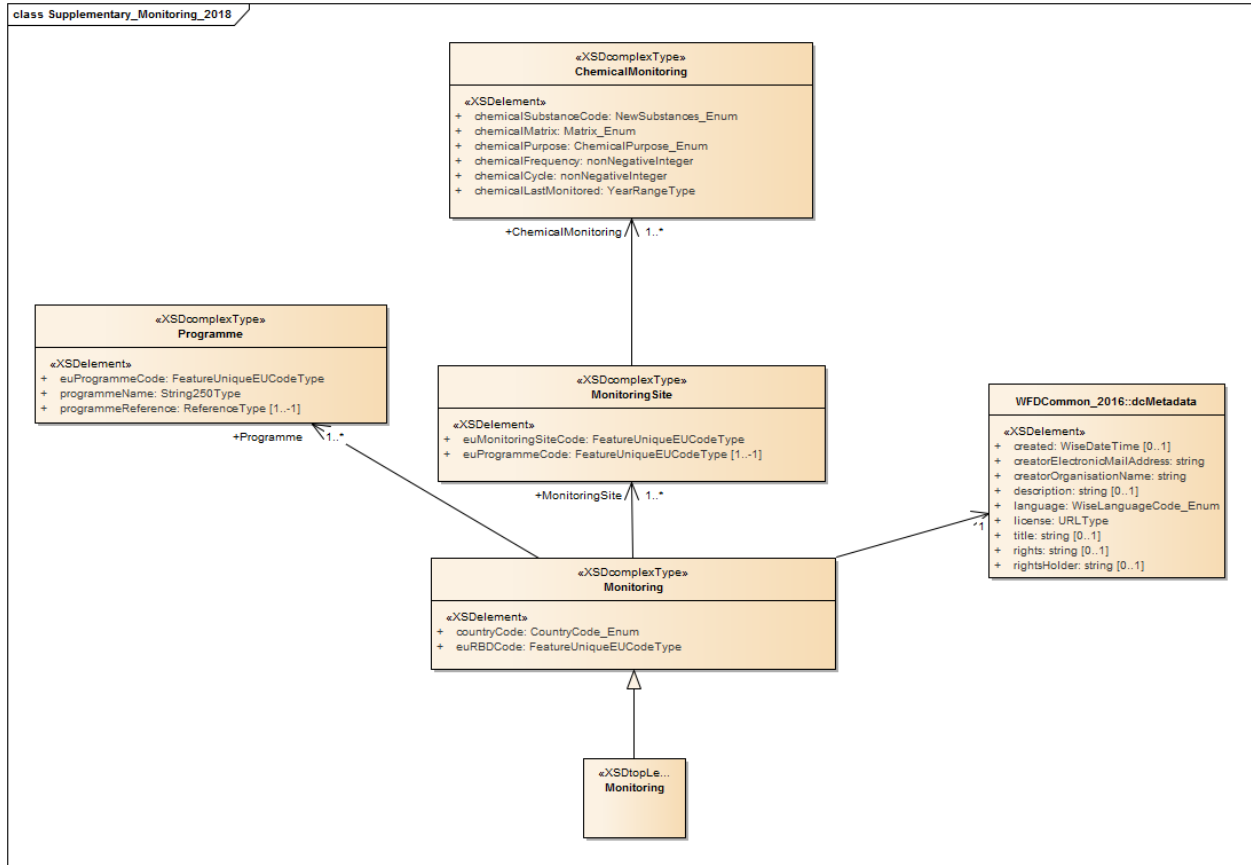


Figure 1 UML Diagram supplementary monitoring programme schema

CLASS: Monitoring Cardinality: 1..1
ATTRIBUTES
<p>Schema element: countryCode Field type / facets: CountryCode_Enum Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required. Two-letter ISO country code</p> <p>This element can be prefilled.</p>
<p>Schema element: euRBDCoDe Field type / facets: FeatureUniqueEUCoType Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required. Unique EU code of the River Basin District. Prefix the RBD's national, unique code with the Member State's 2-alpha character ISO country code. Quality checks: Element check: First 2 characters must be the Member State's 2-alpha</p>

character ISO country code. Cross-schema check: The reported euRBDCCode must be consistent with the codes reported in RBDSUCA/RBD/euRBDCCode in the 2016 WFD reporting.

This element can be prefilled.

CLASS: Programme

Cardinality: 1..-1

ATTRIBUTES

Schema element: euProgrammeCode

Field type / facets: FeatureUniqueEUCodeType

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Unique EU code of the monitoring programme. Prefix the monitoring programme's national, unique code with the Member State's 2-alpha character ISO country code. The same code reported in 2007, 2010 and 2016 should be used for monitoring programmes still in existence. Quality checks: Element check: First 2 characters must be the Member State's 2-alpha character ISO country code. Within-schema check: euProgrammeCode must be unique. If euProgrammeCode has not been reported before, a 'warning' is generated. The data provider needs to check whether he/she is indeed reporting a new Monitoring Programme, otherwise correct the code to correspond to the one previously reported.

Schema element: programmeName

Field type / facets: String250Type

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Readily understandable name of the monitoring programme in English that is meaningful outside of the RBD or Member State. It should reflect its purpose, such as surveillance, operational, investigative or drinking water monitoring programme, and the water categories in which it is undertaken.

Schema element: programmeReference

Field type / facets: ReferenceType

Properties: maxOccurs = -1 minOccurs = 1

Guidance on completion of schema element:

Required. Provide references or hyperlinks to the documents and sections where relevant information relating to the monitoring programmes can be found. Guidance on what should be included in this document is provided in Section 4.3.4 of the WFD 2016 Reporting Guidance.

CLASS: MonitoringSite

Cardinality: 1..-1

ATTRIBUTES

Schema element: euMonitoringSiteCode

Field type / facets: FeatureUniqueEUCodeType

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Unique EU code of the surface water monitoring site. Prefix the surface water monitoring site's national, unique code with the Member State's 2-alpha character ISO country code. Quality checks: Element check: First 2 characters must be the Member State's 2-alpha character ISO country code. Within-schema check: euMonitoringSiteCode must be unique.

euMonitoringSiteCode must exist in the spatial information. If a site has not been reported, its spatial information needs to be reported in a GML file in the same envelope.

Schema element: euProgrammeCode

Field type / facets: FeatureUniqueEUCodeType

Properties: maxOccurs = -1 minOccurs = 1

Guidance on completion of schema element:

Required. Report the EU monitoring programme code under which the monitoring site is. Quality check: Element check: First 2 characters must be the Member State's 2-alpha character ISO country code. Within-schema check: the code must be included in Monitoring/Programme/euProgrammeCode

CLASS: ChemicalMonitoring

Cardinality: 1..-1

ATTRIBUTES

Schema element: chemicalSubstanceCode

Field type / facets: NewSubstances_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Report each chemical substance, of the new substances added in the 2013 EQS Directive, which is monitored at this site. Quality checks: Each substance has to be reported for at least one site.

Schema element: chemicalMatrix

Field type / facets: Matrix_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Report the matrix in which the chemical substance is monitored. If a substance is monitored in more than one matrix, then the whole class should be reported more than once for the same substance.

Schema element: chemicalPurpose

Field type / facets: ChemicalPurpose_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Report if the chemical monitoring is used for status assessment, trend assessment or both.

Schema element: chemicalFrequency

Field type / facets: nonNegativeInteger

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Report the frequency at which the chemical substance is monitored at this monitoring site. Further guidance on what should be reported is provided in the glossary in section 4.3.5 of the WFD 2016 Reporting Guidance.

Schema element: chemicalCycle

Field type / facets: nonNegativeInteger

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Report the monitoring cycle relating to the chemical substance monitored at this monitoring site. Further guidance on what should be reported is provided in the glossary in section 4.3.5 of the WFD 2016 Reporting Guidance. The links between cycle and frequency are explained in the same glossary.

Schema element: chemicalLastMonitored

Field type / facets: YearRangeType

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Report the most recent year in the format YYYY that the chemical substance was monitored at this monitoring site. Enter 9999 if the chemical substance has yet to be measured.

B. Reporting of preliminary programme of measures

Figure 2 presents the schema sketch (UML diagram) of the preliminary programme of measures reporting.

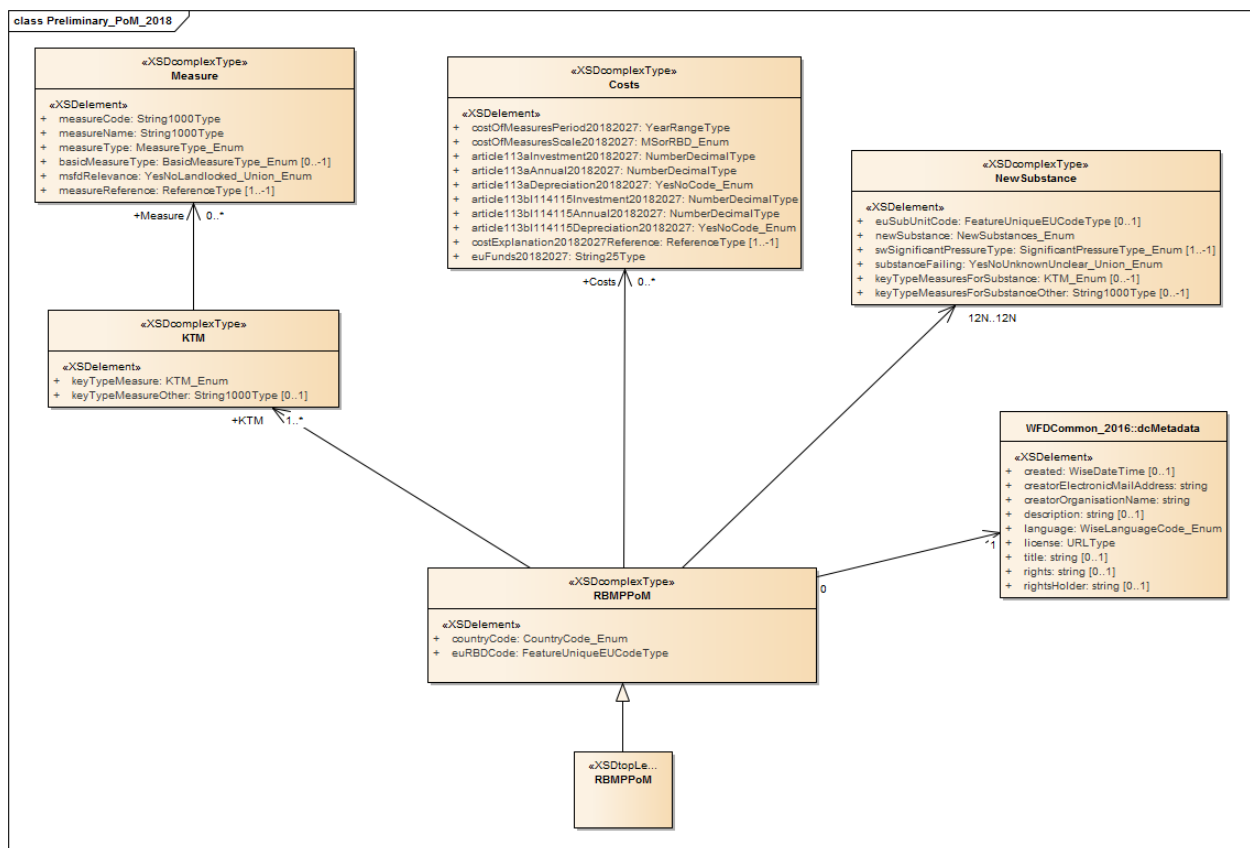


Figure 2 UML Diagram of preliminary programme of measures schema

CLASS: RBMPPoM

Cardinality: 1..1

ATTRIBUTES

Schema element: countryCode

Field type / facets: CountryCode_Enum
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. Two-letter ISO country code .

This element can be pre-filled.

Schema element: euRBDCode
Field type / facets: FeatureUniqueEUCodeType
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. Unique EU code of the River Basin District. Prefix the RBD's national, unique code with the Member State's 2-alpha character ISO country code. Quality checks: Element check: First 2 characters must be the Member State's 2-alpha character ISO country code. Cross-schema check: The reported euRBDCode must be consistent with the codes reported in RBDSUCA/RBD/euRBDCode in the 2016 WFD reporting.

This element can be prefilled.

CLASS: KTM

Cardinality: 1..-1

ATTRIBUTES

Schema element: keyTypeMeasure
Field type / facets: KTM_Enum
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. Select each appropriate pre-defined Key Type of Measure (KTM) or 'KTM99 – Other key type measure reported under PoM' in turn from the enumeration list used to reduce significant pressures in the RBD linked to one or more of the new substances introduced in the 2013 EQS Directive. Quality checks: Element check: keyTypeMeasure must be reported. A valid option must be selected from the enumeration list.

Schema element: keyTypeMeasureOther
Field type / facets: String1000Type
Properties: maxOccurs = 1 minOccurs = 0
Guidance on completion of schema element:
Conditional. Report the name of Key Types of Measures (KTMs) if the pre-defined KTMs are not appropriate. Quality checks: Conditional check: report if 'KTM99 – Other key type measure reported under PoM' is reported in keyTypeMeasure, otherwise do not report.

CLASS: Measure

Cardinality: 0..-1

Conditional: The Class Measure is optional. If you do not have information on individual measures do not report the whole Class. If you report the Class, you need to provide the whole set of information for which it is stated that it is "required when the measure is reported". measureType='Basic'). The option is therefore between not reporting at all or reporting the complete set of data.

ATTRIBUTES

Schema element: measureCode
Field type / facets: String1000Type
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:

Required when the measure is reported. For each pre-defined or new KTM report the unique code of each national or RBD specific measure incorporated into the KTM.

Schema element: measureName

Field type / facets: String1000Type

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the measure is reported. Provide the name for each national or RBD measure. This should reflect the pressure that is being tackled by the measure.

Schema element: measureType

Field type / facets: MeasureType_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the measure is reported. For each pre-defined or new KTM indicate whether each national or RBD specific measure incorporated into the KTM is a basic measure as required under Article 11(3)(a) or Article 11(3)(b-1), or a supplementary measure as required under Article 11.4 when basic measures are not enough to tackle specific significant pressures.

Schema element: basicMeasureType

Field type / facets: BasicMeasureType_Enum

Properties: maxOccurs = -1 minOccurs = 0

Guidance on completion of schema element:

Conditional. For each national or RBD specific measure incorporated into the KTM which is a basic measure, select from the enumeration list to which type of basic measure it corresponds. See glossary in Section 10.1.10 of WFD 2016 Reporting Guidance for further guidance on the roles of basic and supplementary measures in the achievement of WFD Environmental Objectives. 'Urban Waste Water' = Urban Waste Water Treatment Directive (91/271/EEC) 'Nitrates' = Nitrates Directive (91/676/EEC) 'IPPC IED' = Integrated Pollution Prevention Control Directive (96/61/EC) and the Industrial Emissions Directive (2010/75/EU) 'Habitats or Birds' = Habitats Directive (92/43/EEC) or Birds Directive (2009/147/EC) 'Cost recovery water services' = Article 11(3)(b): Measures for the recovery of cost of water services (Article 9) 'Efficient water use' = Article 11(3)(c): Measures to promote efficient and sustainable water use. 'Protection water abstraction' = Article 11(3)(d): Measures for the protection of water abstracted for drinking water (Article 7) including those to reduce the level of purification required for the production of drinking water. 'Controls water abstraction' = Article 11(3)(e): Controls over the abstraction of fresh surface water and groundwater and impoundment of fresh surface waters including a register or registers of water abstractions and a requirement for prior authorisation of abstraction and impoundment. 'Recharge augmentation groundwaters' = Article 11(3)(f): Controls, including a requirement for prior authorisation of artificial recharge or augmentation of groundwater bodies. 'Point source discharges' = Article 11(3)(g): Requirement for prior regulation of point source discharges liable to cause pollution. 'Pollutants diffuse' = Article 11(3)(h): Measures to prevent or control the input of pollutants from diffuse sources liable to cause pollution. 'Hydromorphology' = Article 11(3)(i): Measures to control any other significant adverse impact on the status of water, and in particular hydromorphological impacts. 'Pollutants direct groundwater' = Article 11(3)(j): Prohibition of direct discharge of pollutants into groundwater. 'Surface Priority Substances' = Article 11(3)(k): Measures to eliminate pollution of surface waters by Priority Substances and to reduce pollution from other substances that would otherwise prevent the achievement of the objectives laid down in Article 4. 'Accidental pollution' = Article 11(3)(l): Any measures required to prevent significant losses of pollutants from technical installations and to prevent and/or reduce the impact of accidental pollution incidents.

'Other' = Other Directives mentioned in Part A of Annex VI of the WFD.

Quality checks: Conditional check: Report if measureType is 'Basic'.

Schema element: msfdRelevance

Field type / facets: YesNoLandlocked_Union_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the measure is reported. For each national or RBD specific measure incorporated into the KTM, report if it is relevant for the purpose of the Marine Strategy Framework Directive or not.

Schema element: measureReference

Field type / facets: ReferenceType

Properties: maxOccurs = -1 minOccurs = 1

Guidance on completion of schema element:

Required when the measure is reported. Provide references or hyperlinks to the relevant documents and sections where specific information on the national or RBD specific measures can be found. Guidance on what should be included in this document is provided in Section 10.1.9 of the WFD2016 Reporting Guidance.

CLASS: NewSubstance

Cardinality: 12N..12N

ATTRIBUTES

Schema element: euSubUnitCode

Field type / facets: FeatureUniqueEUCodeType

Properties: maxOccurs = 1 minOccurs = 0

Guidance on completion of schema element:

Conditional. If applicable, report the unique EU code of the Sub-unit. If there are no sub-units this element does not need to be reported and the reporting of the information is done at RBD level. Quality checks: Conditional. Report if sub-units are reported. Element check: First 2 characters must be the Member State's 2-alpha character ISO country code. Cross-schema check: euSubUnitCode must be consistent with codes reported in WFD2016

This element can be pre-filled.

Schema element: newSubstance

Field type / facets: NewSubstances_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Select in turn each of the new priority substances added in the 2013 EQS Directive. Quality checks: Information on all new substances should be provided. Each substance should be chosen only once.

This element can be pre-filled.

Schema element: swSignificantPressureType

Field type / facets: SignificantPressureType_Enum

Properties: maxOccurs = -1 minOccurs = 1

Guidance on completion of schema element:

Required. Indicate the significant pressure type(s) from the enumeration list which is/are related with the chemical substance being reported.

If a combination of pressure-driver is not significant on its own but it is in combination with others, select all the relevant pressures of that type that are present which make the overall pressure significant (e.g. if abstraction from industry or agriculture is not relevant on their own but they are relevant in combination, select both).

Quality checks: Within-schema check: the option 'No significant pressure' is not compatible with any other. 'Not applicable' is not a valid option.

Schema element: substanceFailing

Field type / facets: YesNoUnknownUnclear_Union_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required. Indicate whether the substance being reported is likely to cause failure of good chemical status, therefore leading to the need for measures to be put in place so that the Environmental Objectives can be met.

Schema element: keyTypeMeasuresForSubstance

Field type / facets: KTM_Enum

Properties: maxOccurs = -1 minOccurs = 0

Guidance on completion of schema element:

Conditional. If substanceFailing is 'Yes', report the Key Types of Measures that will contribute to addressing the problems created by the substance being reported. Quality checks: Conditional check: Report if substanceFailing is 'Yes', otherwise do not report. Cross-check: The KTM99 reported here must also be reported in Class KTM.

Schema element: keyTypeMeasuresForSubstanceOther

Field type / facets: String1000Type

Properties: maxOccurs = -1 minOccurs = 0

Guidance on completion of schema element:

Conditional: If "KTM99 – Other key type measure reported under PoM" is reported, report

"keyTypeMeasuresForSubstanceOther. Conditional check: Report if KTM99 is reported, otherwise do not report. Cross-check: The KTM99 reported here must also be reported in Class KTM

CLASS: Costs

Cardinality: 0..1

Conditional: The Class Costs is optional. If you do not have information on costs do not report the whole Class. If you report the Class, you need to provide the whole set of information for which it is stated that it is "required when the cost is reported".

ATTRIBUTES

Schema element: costOfMeasuresPeriod20182027

Field type / facets: YearRangeType

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the costs are reported. Report the reference year (in the format YYYY) or period (in the format YYYY-YYYY) used as the basis of the calculation of costs. Quality checks: Element check: Reference year must be reported in the format YYYY. Reference period must be reported in the format YYYY-YYYY and be between 2018 and 2027.

Schema element: costOfMeasuresScale20182027

Field type / facets: MSorRBD_Enum

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the costs are reported. Indicate whether the costs reported refer to this specific RBD or for the Member State as a whole.

Schema element: article113aInvestment20182027

Field type / facets: NumberDecimalType

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the costs are reported. Report the total investment expenditure (in millions of Euros) of planned measures under Article 11.3.a. Expenditure should not be annualised. Total investment expenditure should include, for example, expenditure on construction of waste water treatment plants.

Schema element: article113aAnnual20182027

Field type / facets: NumberDecimalType

Properties: maxOccurs = 1 minOccurs = 1

Guidance on completion of schema element:

Required when the costs are reported. Report the total annual operational and maintenance costs, and any other costs, (in millions of Euros) of planned measures under Article 11.3.a. Total annual costs should exclude depreciation. Indicate whether this is the case in article113aDepreciation20182027.

<p>Schema element: article113aDepreciation20182027 Field type / facets: YesNoCode_Enum Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required when the costs are reported. Indicate whether depreciation has been included in the total annual costs reported in article113aAnnual20182027. The default selection should be 'No' (i.e. it has been excluded).</p>
<p>Schema element: article113b114115Investment20182027 Field type / facets: NumberDecimalType Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required when the costs are reported. Report the total investment expenditure (in millions of Euros) of planned measures under Articles 11.3.b-1 and Articles 11.4 and 11.5. Expenditure should not be annualised. Total investment expenditure should include, for example, expenditure on infrastructure to control over-abstraction.</p>
<p>Schema element: article113b114115Annual20182027 Field type / facets: NumberDecimalType Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required when the costs are reported. Report the total annual operational and maintenance costs, and any other costs, (in millions of Euros) of planned measures under Articles 11.3.b-1, and 11.4 and 11.5. Total annual costs should exclude depreciation. Indicate whether this is the case in article113b114115Depreciation20182027.</p>
<p>Schema element: article113b114115Depreciation20182027 Field type / facets: YesNoCode_Enum Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required when the costs are reported. Indicate whether depreciation is included in the total annual costs reported in article113b114115Annual20182027. The default selection should be 'No' (i.e. it has been excluded).</p>
<p>Schema element: costExplanation20182027Reference Field type / facets: ReferenceType Properties: maxOccurs = -1 minOccurs = 1 Guidance on completion of schema element: Required when the costs are reported. Provide references or hyperlinks to the relevant documents and sections where specific information can be found on how the costs reported have been calculated. Guidance on what should be included in this document is provided in Section 10.3.3.3 of the WFD2016.</p>
<p>Schema element: euFunds20182027 Field type / facets: String25Type Properties: maxOccurs = 1 minOccurs = 1 Guidance on completion of schema element: Required when the costs are reported. Report the estimated total investment expenditure for the Programme of Measures until the end of the third planning cycle which are expected to be financed by EU funds, as an estimated cost or range.</p>

CLASS: dcMetadata

Cardinality 1..1

ATTRIBUTES

Schema element: title
Field type / facets: string
Properties: maxOccurs = 1 minOccurs = 0
Guidance on completion of schema element:
Name given to the dataset.

Schema element: description
Field type / facets: string
Properties: maxOccurs = 1 minOccurs = 0
Guidance on completion of schema element:
Optional. Description of the dataset.

Schema element: creatorOrganisationName
Field type / facets: string
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. Organisation responsible for the dataset.

Schema element: creatorElectronicMailAddress
Field type / facets: EmailType
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. Email address of the point of contact in the organisation responsible for the dataset.

Schema element: created
Field type / facets: WiseDateTime
Properties: maxOccurs = 1 minOccurs = 0
Guidance on completion of schema element:
Optional. Date of creation of the dataset.

Schema element: language
Field type / facets: WiseLanguageCode_Enum
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. Code of the language of the file.

This element can be pre-filled.

Schema element: license
Field type / facets: URLType
Properties: maxOccurs = 1 minOccurs = 1
Guidance on completion of schema element:
Required. A legal document giving official permission to do something with the resource. Provide the URL to the licence text of a CC BY compatible licence. Use a persistent identifier to an English or multilingual version of the licence agreement.

Schema element: rights
Field type / facets: string
Properties: maxOccurs = 1 minOccurs = 0
Guidance on completion of schema element:

Optional. Information about rights held in and over the resource. If necessary, provide the attribution text required by the licence, or other relevant information.

Schema element: rightsHolder

Field type / facets: string

Properties: maxOccurs = 1 minOccurs = 0

Guidance on completion of schema element:

Optional. A person or organization owning or managing rights over the resource. This element can be provided if the rights holder reserved rights (e.g. should to be contacted for specific uses), or if the rights holder is not the organisation responsible for the dataset.

Annex

The enumeration lists used in this reporting are the same as the ones used in the WFD Reporting Guidance 2016. One new enumeration list includes the new priority substances that are the object of this reporting:

NewSubstances Enum:

1. Dicofol CAS 115-32-2
2. Perfluorooctane sulfonic acid and its derivatives (PFOS) CAS 1763-23-1
3. Quinoxifen CAS 124495-18-7
4. Dioxins and dioxin-like compounds EEA_33-58-9: this refers to the following compounds:
 - 7 polychlorinated dibenzo-p-dioxins (PCDDs):
 - 2,3,7,8-T4CDD (CAS 1746-01-6),
 - 1,2,3,7,8-P5CDD (CAS 40321-76-4),
 - 1,2,3,4,7,8- H6CDD (CAS 39227-28-6),
 - 1,2,3,6,7,8-H6CDD (CAS 57653-85-7),
 - 1,2,3,7,8,9-H6CDD (CAS 19408-74-3),
 - 1,2,3,4,6,7,8-H7CDD (CAS 35822-46-9),
 - 1,2,3,4,6,7,8,9-O8CDD (CAS 3268-87-9)
 - 10 polychlorinated dibenzofurans (PCDFs):
 - 2,3,7,8-T4CDF (CAS 51207-31-9),
 - 1,2,3,7,8-P5CDF (CAS 57117-41-6),
 - 2,3,4,7,8-P5CDF (CAS 57117-31-4),
 - 1,2,3,4,7,8-H6CDF (CAS 70648-26-9),
 - 1,2,3,6,7,8-H6CDF (CAS 57117-44-9),
 - 1,2,3,7,8,9-H6CDF (CAS 72918- 21-9),
 - 2,3,4,6,7,8-H6CDF (CAS 60851-34-5),
 - 1,2,3,4,6,7,8-H7CDF (CAS 67562-39-4),
 - 1,2,3,4,7,8,9-H7CDF (CAS 55673-89-7),
 - 1,2,3,4,6,7,8,9-O8CDF (CAS 39001-02-0)
 - 12 dioxin-like polychlorinated biphenyls (PCB-DL):
 - 3,3',4,4'-T4CB (PCB 77, CAS 32598-13-3),
 - 3,3',4',5'-T4CB (PCB 81, CAS 70362- 50-4),
 - 2,3,3',4,4'-P5CB (PCB 105, CAS 32598-14-4),
 - 2,3,4,4',5'-P5CB (PCB 114, CAS 74472-37-0),
 - 2,3',4,4',5'-P5CB (PCB 118, CAS 31508-00-6),
 - 2,3',4,4',5'-P5CB (PCB 123, CAS 65510-44-3),
 - 3,3',4,4',5'-P5CB (PCB 126, CAS 57465-28-8),
 - 2,3,3',4,4',5'-H6CB (PCB 156, CAS 38380-08-4),
 - 2,3,3',4,4',5'-H6CB (PCB 157, CAS 69782-90-7),
 - 2,3',4,4',5',5'-H6CB (PCB 167, CAS 52663-72-6),
 - 3,3',4,4',5',5'-H6CB (PCB 169, CAS 32774-16-6),
 - 2,3,3',4,4',5,5'-H7CB (PCB 189, CAS 39635-31-9).
5. Aclonifen CAS 74070-46-5
6. Bifenox CAS 42576-02-3

7. Cybutryne CAS 28159-98-0
8. Cypermethrin CAS 52315-07-8 refers to an isomer mixture of cypermethrin:
 - alpha-cypermethrin (CAS 67375-30-8),
 - beta-cypermethrin (CAS 65731-84-2),
 - theta-cypermethrin (CAS 71697-59-1) and
 - zeta-cypermethrin (52315-07-8).
9. Dichlorvos CAS 62-73-7
10. Hexabromocyclododecane EEA_33-57-8 (HBCDD) refers to:
 - 1,3,5,7,9,11-Hexabromocyclododecane (CAS 25637-99-4),
 - 1,2,5,6,9,10- Hexabromocyclododecane (CAS 3194-55-6),
 - α -Hexabromocyclododecane (CAS 134237-50-6),
 - β -Hexabromocyclododecane (CAS 134237-51-7) and
 - γ - Hexabromocyclododecane (CAS 134237-52-8).
11. Heptachlor CAS 76-44-8 and heptachlor epoxide CAS 1024-57-3 (EEA_33-50-1),
12. Terbutryn CAS 886-50-0