

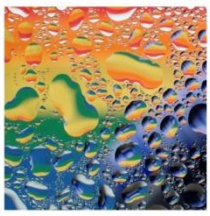

Contract No. 070311/2011/603663/ETU/D1 'Comparative Study of Pressures and Measures in the Major River Basin Management Plans' - Task 2c (Comparison of Specific Pollutants and EQS): Final Report

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1. Introduction

1.1 Background to the project

The Water Framework Directive (WFD) requires Member States (MS) to report their River Basin Management Plans (RBMPs) by March 2010. By December 2011, 22 Member States had reported their RBMPs through the Water Information System for Europe (WISE). The European Commission is currently assessing the compliance of RBMPs against the provisions of the WFD and carrying out a "bottom up" assessment of the plans.

In 2010, the European Parliament announced that it would make €1.5 million available for a "top down" assessment of the RBMPs to carry out a more in-depth analysis of certain identified subjects including governance, development of methodologies, integration in the WFD programme of measures, and economic aspects and integration. The outcome of this assessment will support the 2012 Blueprint to Safeguard Europe's Waters.

In order to support it in carrying out this work, the European Commission Directorate General Environment and Climate Action (Commission) issued Study Contract No. 070331/2011/603663/ETU/D1 'Comparative Study of Pressures and Measures in the Major River Basin Management Plans in the EU' in October 2011 to the WRc-led Consortium in response to the submitted proposal.

The Study Contract has the following overall objectives:

- To gather, in a structured way, information on various elements related to river basin management.

- To analyse and compare the collected information in order to provide conclusions at the European level.

Overall the project comprises 16 tasks related to the identified subject areas described above.

1.2 Background to Task 2c

Under the Water Framework Directive, Member States are required to set quality standards (according to Annex V Point 1.2.6) for rivers basin specific pollutants (RBSPs)(as listed in Annex VIII, Points 1-9) and to take action to meet those quality standards by 2015 as part of the ecological status assessment (Article 4, 11 and Annex V Point 1.3).

Annex VIII defines specific pollutants as substances that can have a harmful effect on biological quality, and which may be identified by Member States as being discharged to

water in “significant quantities”. The types of substances which can be considered to be specific pollutants according to Annex VIII points 1-9 are:

1. Organohalogen compounds and substances which may form such compounds in the aquatic environment.

2. Organophosphorous compounds.

3. Organotin compounds.

4. Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment.

5. Persistent hydrocarbons and persistent and bioaccumulable organic toxic substances.

6. Cyanides.

7. Metals and their compounds.

8. Arsenic and its compounds.

9. Biocides and plant protection products.

Substances not considered to be specific pollutants are

10. Materials in suspension.

11. Substances which contribute to eutrophication (in particular nitrates and phospates).

12. Substances which have an unfavourable influence on the oxygen balance (and can be measured using parameters such as BOD, COD, etc).

Available evidence indicates that where specific pollutants have been identified the majority of Member States used a two-tiered selection approach, in which the first tier involved the pre-selection of substances from the “universe of substances” according to existing legislation (such as the Dangerous Substances Directive 76/464/EEC and its "daughter directives" listed in Annex IX of the WFD, existing monitoring programmes, source identification, etc). The second tier involved the Member States selecting specific pollutants from the list of candidate substances that they identified in the first tier. However, this still resulted in considerable variability in the approaches adopted by MS (JRC-IEC 2010).

Currently available data from a range of different sources indicates that:

- Member States have identified different numbers of substances as River Basin Specific Pollutants (RBSPs) ranging from <10 to >100.

- The EQSs adopted for a particular substance can vary markedly even taking into account differences in the nature of the EQS (i.e. Annual Average or Maximum Allowable Concentration and whether it is expressed using the Total Risk or Added Risk approach).

However, the relevant information on the substances adopted as RBSPs and the EQSs applied is present in a series of different sources and no consolidated database is currently available. In addition it is evident that different information may be given in the different sources. Furthermore, there has been no assessment to date of the potential consequences of these differences in approach between Member States. These activities are the subject of the Task 2c work programme of the 'Comparative Study of Pressures and Measures in the Major River Basin Management Plans in the EU'.

1.3 Deliverables from Task 2c

The deliverables from this Task as described in the original project specification are:

- Stage 1 - An overview of standards across EU as regards the specific pollutants.

- Stage 2 - A methodology to look at the consequences of differences between standards for the same substances in terms of ecological status classifications of water bodies.

However, before and during the kick-off meeting it was clarified that Stage 2 should focus on actually looking at the consequences of differences between the RBSP designations and standards in different MS.

The deliverables for this Task will not feed directly into the European Commission 2012 Blueprint Report.

1.4 Objectives of Task 2c

1.4.1 Stage 1 – Prepare an overview of standards across the EU as regards the specific pollutants

This stage of the Task aims to provide the Commission with a complete comprehensive searchable Excel database which enables the following questions to be answered:

1. Which substances have been identified as River Basin Specific Pollutants in each Member State (MS) under Annex XIII of the Water Framework Directive?

2. What Environmental Quality Standards have been adopted by the MS for the RBSPs identified?

3. Is there information about how those specific pollutants have been identified and is it transparent?

4. Are there any substances which it would be expected that certain MS would have identified as RBSPs (and derived EQSs for) based for example on their production and use in those MS and/or when compared with the situation in other MS? If so, what are the reasons for their not having been identified?

5. If there are significant differences in the EQS set by different MS, what are the reasons for the differences? (This point represents the lowest priority of the objectives under Stage 1.)

The database provided in this element of the work programme will consolidate the information that is available from a range of documents and templates (see Section 2.1.3) into a single source.

1.4.2 Stage 2 – Assess the consequences of such differences in standards regarding ecological status classification of water bodies.

It was agreed at the kick-off meeting that this second stage of the work programme should focus on identifying differences between MS approaches to RBSPs but should be specified in more detail once Stage 1 is complete and the database is available. The approach taken should be kept simple and it should not be overly ambitious but rather focus on substances of particular concern.

It was agreed at the kick-off meeting that the analysis does not have to be comprehensive but present obvious issues, obvious gaps and identify best practices. It should provide evidence through case studies rather than an EU-wide assessment.

1.5 Scope of the report

This report describes the work carried out for Stages 1 and 2 of Task 2c and accompanies the Excel spreadsheet. The information given relates to that available at the time the Draft Final Report was completed in August 2012.

2. Stage 1 – Prepare an overview of standards across the EU as regards the specific pollutants

2.1 Approach taken

The approach taken to Stage 1 of Task 2c is summarised in Table 2.1 and consisted of four elements. The approach taken for each of these elements is described in the following sections.

Table 2.1 Elements of the Stage 1 work programme

Element	Description
1	Collation of all the available data on River Basin Specific Pollutants for the EU 27 Member States as well as Norway and Switzerland.
2	Clarification of the available data where inconsistencies are identified in the collated data.
3	Development of a searchable Excel database for the identified River Basin Specific Pollutants for the EU 27 Member States as well as Norway and Switzerland. Initial evaluation of the data within the Excel spreadsheet.
4	Identification of apparent gaps for RBSPs selected by MS based on data on production and use and/or comparison with the situation in other MS and clarification of the appropriateness of the omission.

2.2 Collation of all the available data on River Basin Specific Pollutants for the EU 27 Member States as well as Norway and Switzerland

To assess which River Basin Specific Pollutants have been designated by each of the EU 27 Member States as well as Norway and Switzerland information was collated from a range of sources which included:

- The currently available River Basin Management Plans (RBMPs) for each country, particularly information relating to any national regulation(s) under which the RBSPs were implemented.
- Section 3 – Classification of Status in the Summary of the Wise Electronic Delivery of River Basin Management Plans and Completeness Checking (2010 Reporting)
- Information given in the templates for assessing the RBMPs (Question 6) regarding MS selection of RBSPs and the development of EQSs.

- The pressures and impacts analyses carried out by MS that should have explained their selection of substances, including those in Directive 76/464/EEC.

- The information given in WFD CIS ECOSTAT Working Group A Report (*Comparison of Limits of Catchment Basin Specific Pollutants set for the Demands of the European Water Framework Directive in Streams and Rivers*) (Claussen *et al* 2012). This report provided information on 25 Member States and updated the information that was given in a previous version (Arle *et al* 2010) which included summary data for 14 MS.

- Information available from the Workshop on River Basin Specific Pollutants: Identification and Monitoring prepared as a collaboration between the NORMAN (Network of Reference Laboratories for the Monitoring of Emerging Environmental Substances) Project and JRC IES (European Commission, Joint Research Centre, Institute for Environment and Sustainability)(JRC-IES 2010).

It was evident that there were differences in the RBSPs and the resulting EQS values given in different documents with some datasets containing some of the 33 substances or groups of substances on the list of Priority Substances (and Priority Hazardous Substances) or certain other pollutants identified under the Dangerous Substances Directive and/or general water quality parameters. Therefore, it was important to review all potential data sources to obtain a consistent view of the approach adopted by each MS. It was also important to separate the substances that could be considered Specific Pollutants from existing WFD Priority Substances that are relevant to the assessment of chemical status and general water quality parameters (e.g. ammonia, nitrates, phosphates, calcium and magnesium) that are relevant to the assessment of general chemical and physico-chemical quality elements.

A summary sheet has been prepared for each country, where information is available, and these are included in Appendix A. These sheets detail:

1. The key source(s) of information used in the identification of the RBSPs;

2. The application of the RBSPs to the identified River Basin Districts (i.e. have the same EQS values been derived for all RBDs.

3. The EQS values applied to the different RBSPs for different environmental compartments (i.e. water column, sediments and biota) and different water categories (i.e. rivers, lakes, transitional waters and coastal waters).

Additional information on the nature of the EQS values was also provided, where available, for example whether the values were expressed as:

- Annual averages (AA), 95%iles or Maximum Allowable Concentrations (MACs)

- Dissolved or total concentrations

- Total risk (accounting for background concentrations) or added risk (not accounting for background concentrations)

- Having a dependence on physico-chemical parameters such as water pH or hardness

Table 2.2 summarises the type of data that was collated and confirmed for each country for ten environmental compartment and water category combinations (see Section 2.3) when the Draft Final Report was completed in August 2012. It is evident from Table 2.2 that of the EU 27 Member States, Estonia, Greece, and Portugal have not identified any RBSPs at present. Malta has identified RBSPs but not derived any EQS values, a situation that also applies to Norway and Switzerland. As a result information on RBSPs and EQS values is only available for 23 Member States. For a number of land locked countries (Austria, Czech Republic, Hungary, Slovakia and Switzerland) no RBSPs are required for transitional waters and coastal waters.

It is evident from the River Basin Specific Pollutant Summary Sheets in Appendix A that for the 23 Member States of the EU-27 where information is available on the process used to derive the EQS values that:

- All or some of the EQS for RBSPs identified by 8 Member States (namely: Czech Republic, Finland, Ireland, Netherlands, Slovakia, Slovenia, Sweden and the United Kingdom) were derived using the procedure in WFD Annex V 1.2.6.

- All of the EQS for RBSPs identified by 1 Member State (namely: Bulgaria) were not derived using the procedure in WFD Annex V 1.2.6.

- It is not clear whether the procedure in WFD Annex V 1.2.6 was used by 14 Member States in deriving EQS values for RBSPs (namely: Austria, Belgium, Cyprus, Denmark, France, Germany, Hungary, Italy, Latvia, Lithuania, Luxembourg, Poland, Romania and Spain). It appears that in certain of these Member States the substances adopted as RBSPs and the EQS values applied had been derived for previous legislation which may have been enacted before the WFD methodology was developed. As a result these substances may have not been specifically identified as Specific Pollutants using a selection process based on the criterion that they are expected to be discharged to water bodies in significant quantities.

2.3 Clarification of the available data where inconsistencies are identified in the collated data

If there were any inconsistencies in the collated data for a particular country then these were clarified in consultation with appropriate staff for that country. Discussions were conducted with the Czech Republic and the Netherlands to confirm the RBSPs and EQS values applied.

Table 2.2 Summary of the number of RBSPs adopted by different countries (EU 27 Members States, Norway and Switzerland)

Member State	Number of EQS values for River Basin Specific Pollutants									Comments
	Water column EQS				Sediment EQS				Biota	
	Rivers	Lakes	Transitional Waters	Coastal Waters	Rivers	Lakes	Transitional Waters	Coastal Waters		
Austria (AT)	33	33	Not required	Not required	0	0	Not required	Not required	0	See Table A1
Belgium (BE)	116	116	116	2	0	0	0	3	1	See Table A2
Bulgaria (BG)	18	13	16	0	0	0	0	0	0	See Table A3
Cyprus (CY)	3	6	0	0	0	0	0	0	0	See Table A4
Czech Republic (CZ)	86	86	Not required	Not required	0	0	Not required	Not required	0	See Table A5
Denmark (DK)	25	0	0	0	20	34	28	28	58	See Table A6
Estonia (EE)	0	0	0	0	0	0	0	0	0	-
Finland (FI)	13	13	13	13	0	0	0	0	0	See Table A7
France (FR)	10	10	0	0	0	0	0	0	1	See Table A8
Germany (DE)	133	133	133	139	13	13	13	14	0	See Table A9
Greece (EL)	0	0	0	0	0	0	0	0	0	-
Hungary (HU)	4	4	Not required	Not required	0	0	Not required	Not required	0	See Table A10
Ireland (IE)	16	16	14	14	0	0	0	0	0	See Table A11
Italy (IT)	51	51	51	51	0	0	6	6	0	See Table A12
Latvia (LV)	11	0	0	0	0	0	0	0	0	See Table A13
Lithuania (LT)	6	6	5	5	0	0	0	0	0	See Table A14
Luxembourg (LU)	55	0	Not required	Not required	0	0	Not required	Not required	0	See Table A15
Malta[a] (MT)	0	0	0	0	0	0	0	0	0	See Table A16
Netherlands (NT)	151	151	48	48	7	0	0	0	0	See Table A17
Norway[b] (NO)	0	0	0	0	0	0	0	0	0	See Table A18
Poland (PO)	20	20	20	20	0	0	0	0	0	See Table A19
Portugal (PT)	0	0	0	0	0	0	0	0	0	-
Romania (RO)	105	105	99	99	0	0	0	3	2	See Table A20
Slovakia (SK)	25	0	Not required	Not required	0	0	Not required	Not required	0	See Table A21
Slovenia (SV)	37	37	0	0	6	6	0	0	0	See Table A22
Spain (ES)	16	15	13	14	0	0	0	0	0	See Table A23
Sweden (SE)	29	29	10	10	4	4	0	4	4	See Table A24
Switzerland[c] (CH)	0	0	Not required	Not required	0	0	Not required	Not required	0	-
United Kingdom (UK)	18	18	18	18	0	0	0	0	0	See Table A25

Notes: Not required relates to the fact that the country is land locked and has not transitional or coastal waters

[a] - Identified 8RBSPs but no EQS values have been derived, [b] - Identified 21RBSPs but no EQS values have been derived, [c] – Identified a number of candidate RBSPs these have not yet been ratified

2.4 Development of a searchable Excel database for the identified River Basin Specific Pollutants for the EU 27 Member States as well as Norway and Switzerland and initial evaluation of the data

2.4.1 Development of the searchable database

The information gathered in elements 1 and 2 has been entered into an Excel spreadsheet to provide a searchable database. The spreadsheet has separate worksheets for the following ten environmental compartment and water category combinations:

- Water column – Rivers
- Water column – Lakes
- Water column – Transitional waters
- Water column – Coastal waters
- Sediments – Rivers
- Sediments – Lakes
- Sediments - Transitional waters
- Sediments – Coastal waters
- Sediments – Equilibrium partitioning approach
- Biota

A total group of 381 substances have been identified for which one or more countries have derived an EQS in one or more of the environmental compartment and water category combinations. Each substance has also been identified by CAS Number where one is available. The substances have been grouped into the following seven categories:

1. Inorganic non-metallic substances
2. Metals and metalloids
3. Organic chemicals (other than defined groups)
4. Pesticides

5. Pharmaceuticals

6. Polycyclic aromatic hydrocarbons and hydrocarbons

7. Polychlorinated biphenyls

The worksheet for each environmental compartment/water category provides the following summary information:

- The number of EQS values derived by a particular country.
- The number of countries for which an EQS has been derived for a particular substance.
- The lowest and highest EQS values for substances where different countries have identified them as RBSPs and the mean value for the range of values.

The spreadsheet represents the information that was available at the time of collation (i.e. up to August 2012). However, it should be recognised that MS have on-going programmes of developing or refining their RBSPs and the EQS values applied.

2.4.2 Initial assessment of the data in the Excel spreadsheet

An initial assessment of the data in the Excel spreadsheet (and the information in Table 2.2) indicates that the vast majority of the EQS values derived are for the water column for rivers, lakes, transitional waters and coastal waters. Only limited numbers of EQS values have been derived for sediments and biota.

The following specific conclusions have been drawn for the different EQS types:

EQS types	Key conclusions
Water column	The number of EQS values derived by Member States ranges markedly from 3 to 151 for rivers, from 0 to 151 for lakes, from 0 to 133 for transitional waters and from 0 to 139 for coastal waters. The distribution of RBSPs (and EQSs) across the Member States was bimodal such that the vast majority of RBSPs were only applied by one or two Member States. However, a small number of RBSPs (e.g. certain metals and metalloids and organic chemicals) were applied by >70% of the Member States for which data was available.
Sediment	Only 8 Member States (namely: Belgium, Denmark, Germany, Italy, Netherlands, Romania, Slovenia, and Sweden) have evidently derived sediment EQS values for RBSPs. The number of RBSPs for which sediment EQSs have been derived

	is between 3 and 34 for different MS. The RBSPs for which sediment EQS have been applied relate to metals and metalloids, pesticides, polycyclic aromatic hydrocarbons and hydrocarbons and polychlorinated biphenyls.
Biota	Only 5 Member States (namely: Belgium, Denmark, France, Romania and Sweden) have derived biota EQS values for RBSPs. The number of RBSPs for which biota EQSs have been derived is between 1 and 58 for different MS. The RBSPs for which biota EQS have been applied relate to metals and metalloids, pesticides and polychlorinated biphenyls.

The review of the data indicates that there are differences in the EQS values for RBSPs which undoubtedly reflect the approach used to derive the values. A key reason for these differences undoubtedly is due to whether the EQS values were derived using the methodology described in Annex V 1.2.6 or an alternative approach. The summary sheets in Appendix A show that only eight MS evidently used the Annex V 1.2.6 methodology whilst for the vast majority of MS it is not clear what methodology was used.

However, it should also be recognised that even those MS using the Annex V 1.2.6 methodology may have derived different EQS values for a particular RBSP for a number of reasons including:

- Derivation of quality standards for different receptors (e.g water column, sediment, biota).
- Use of different extrapolation techniques (i.e. deterministic or probabilistic) to derive quality standards for a particular receptors (e.g water column, sediment, biota).
- Use of different datasets resulting in different lowest toxicity values.
- Use of assessment (safety) factors of different magnitudes.

To address the key sources of variability in EQS for certain Specific Pollutants, particularly when derived using the Annex V 1.2.6 methodology, an investigation with the Environment Agency of England and Wales and EAWAG/EPFL of Switzerland is being carried out for a series of 10 substances. The outcome of this work will be described in the section of the report describing Stage 2 of Task 2c. In this activity further work is being carried out to clarify the use of the methodology described in Annex V 1.2.6 or an alternative approach by MS where the procedure adopted is currently unclear.

2.5 Identification of apparent gaps for RBSPs selected by MS based on data on production and use and/or comparison with the situation in other MS and clarification of the appropriateness of the omission

2.5.1 Background

Annex VIII defines specific pollutants as substances that can have a harmful effect on biological quality, and which may be identified by Member States as being discharged to water in "significant quantities". Therefore, there is an expectation that each Member State will have identified its River Basin Specific Pollutants by considering the concentrations of different substances of (eco)toxicological concern that could be present in water bodies based on either measured data from monitoring programmes or estimated data from modelling exercises which consider production, use and emission data. The assessment should ideally consider potential releases of substances from both point sources (which will relate for example to chemicals produced or used in industrial processes) and diffuse sources (which will relate in particular to the intermittent use of plant protection products for agriculture).

Information for 2010 (Eurostat, 2010) indicated that the production of industrial chemicals in the EU 27 Member States was 339 million tonnes. The production of chemicals is largely concentrated in western Europe, with Germany being the largest producer, followed by France, Italy and the United Kingdom. These four Member States collectively generated two thirds of the EU-27's chemical production in 2010 and when Spain, the Netherlands, Belgium and Ireland were added the overall share of these eight Member States was 88 %.

The data in Eurostat (2010) breaks down the production of environmentally harmful chemicals, into five environmental impact classes, namely: severe chronic effects, significant chronic effects, moderate chronic effects, chronic effects and significant acute effects. This environmental indicator focuses on impacts to aquatic toxicity. It seeks to take into account the inherent ecotoxicity of the chemical substances, their potential for bioaccumulation and their persistence in the environment. For this purpose, substance-specific data on ecotoxicity, biodegradability and bioaccumulation potential have been used. It is mainly based on the official environmental classification of the substances. Certain R-phrases related to chronic human toxicity are also included. In total 184 million tonnes of the 339 million tonnes of chemicals produced in the EU-27 were environmentally hazardous chemicals (54.3%) and the tonnage in each of the five categories is given in Table 2.3.

For the production of toxic chemicals the data were broken down into five toxicity classes, namely: Carcinogenic, mutagenic and reprotoxic (CMR) chemicals, chronic toxic chemicals, very toxic chemicals, toxic chemicals and harmful chemicals. In total 205 million tonnes of the 339 million tonnes of chemicals produced in the EU-27 were toxic chemicals (60.5%) and the tonnage in each of the five categories is given in Table 2.3.

Table 2.3 Summary of the tonnages of different categories of environmentally hazardous chemicals and toxic chemicals produced in EU-27 Member States in 2010 (from Eurostat, 2010)

Category of environmentally hazardous chemicals	Tonnage (million tonnes)		Category of toxic chemicals	Tonnage (million tonnes)
Severe chronic effects	34		Carcinogenic, mutagenic and reprotoxic (CMR) chemicals	39
Significant chronic effects	18		Chronic toxic chemicals	7
Moderate chronic effects	8		Very toxic chemicals	38
Chronic effects	57		Toxic chemicals	69
Significant acute effects	67		Harmful chemicals	52
Total	***184***		***Total***	***205***

It is recognised that production and consumption are not synonymous with exposure, as some chemicals are handled in closed systems, or as intermediate goods in controlled supply chains. However, it is also clear that there are a significant number of chemicals that are produced in significant tonnages in the EU-27 Member States that need to be controlled to minimise the potential risk posed to humans and the environment. This group of chemicals includes the Priority Substances and certain other pollutants identified in the Water Framework Directive, but also encompasses chemicals that should be identified as Specific Pollutants.

Under Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) the November 2010 deadline required the registration of:

- Substances that were manufactured in or imported to the EU in annual volumes of >1000 tonnes

- Substances that are listed as CMR[1] (carcinogenic, mutagenic, or toxic to reproduction) class 1 or 2 substances and were manufactured in or imported to the EU at > 1 tonne/annum.

- Substances that are classified as very toxic to aquatic organisms which may cause long-term adverse effects in the aquatic environment (R50/53)[2] and which are manufactured in or imported to the EU >100 tonnes/annum.

[1] CMR: Category 1 or 2 Carcinogenic, Mutagenic or Reprotoxic substance from CLP Annex VI Table 3.2 (Annex I of DSD).

[2] R50/53: Very toxic to aquatic organisms substances from CLP Annex VI Table 3.2 (Annex I of DSD) or by self classification in the dossier

Information provided by the European Chemicals Agency (ECHA) indicated that by 1st December 2010 they had received 24,675 registration dossiers, submitted for nearly 3,400 phase-in substances. ECHA received registrations for nearly 400 substances which are listed as CMRs and more than 150 as R50/53 from Annex VI of the CLP regulation.

This again highlights the range of hazardous substances that are potentially released into the aquatic environment in significant quantities that need to be evaluated as part of the "universe of chemicals" with regard to the identification of RBSPs.

Information was presented in the report of the joint NORMAN and JRC Workshop on "River Basin Specific Pollutants: Identification and Monitoring" (JRC-IES 2010) which indicated that although MS applied various procedures for the selection of RBSP, these could roughly be divided into 5 groups (see Figure 2.1). This conclusion was based on responses to a questionnaire received from 27 European countries comprising 25 of the 27 Member States (the exceptions being Latvia and Luxembourg) as well as Norway and Switzerland and discussions at the workshop on 10–11 June 2010.

The majority of MS (62%) evidently used a two-tiered selection approach, in which the first tier involved the pre-selection of substances from the "universe of substances" according to existing legislation (such as the Dangerous Substances Directive 76/464/EEC and its "daughter directives" listed in Annex IX of the WFD, existing monitoring programmes, source identification, etc). The second tier involved the selection of specific substances from the candidate substances. This selection was based on the use of different approaches, the main ones being:

1. Comparisons with emission data, production volume/use
2. Comparisons with monitoring data (i.e. occurrence of contaminants) and toxicity data.
3. Use of existing procedures, such as COMMPS (Combined Monitoring and Modelling Based Priority Setting Scheme)[3] or CIS Guidance no.3 Analyses of Pressures and Impacts[4].

Adoption of this approach for selecting RBSPs should have involved a consideration of all the environmentally hazardous substances that could be present in aquatic systems in significant quantities. This would include the type of substances shown in Table 2.3 and the substances registered under REACH by the November 2010 deadline, particularly those classified as R50/53.

Fifteen percent of MS had used another type of two-tiered approach, where the first step involved the identification of pressures and the use of inventories to produce a list of candidate substances (Figure 2.1). The second step included comparing this list to monitoring

[3] http://ec.europa.eu/environment/water/water-dangersub/lib_pri_substances.htm
[4] http://circa.europa.eu/Members/irc/env/wfd/library?l=/framework_directive/guidance_documents/guidancesnos3spressuress/_EN_1.0 _&a=d

data followed by a conservative selection of specific compounds. This approach may again have included the type of substances identified in Table 2.3 and those registered under REACH.

Both the identified approaches were iterative, and included further adjustments to substance selections based on the results obtained and new monitoring and/or ecotoxicological data.

In some cases, the selection of RBSP was based only on monitoring data (the presence of substances in water) or solely on pressure identification (Figure 2.1). However, these approaches may not have considered the type of substances identified in Table 2.3 and those that have been registered under REACH. This would be more likely where a monitoring approach alone was adopted since the scope of the selection programme is defined by the extent of the monitoring data.

At the time of the workshop 15% of MS had not yet identified RBSPs or there was no procedure in place.

Clearly, it would be advantageous if a harmonised approach to the selection of RBSPs was adopted by all MS to ensure that all relevant hazardous substances released in significant quantities were identified. This would minimise the potential data gaps for RBSPs selected by MS.

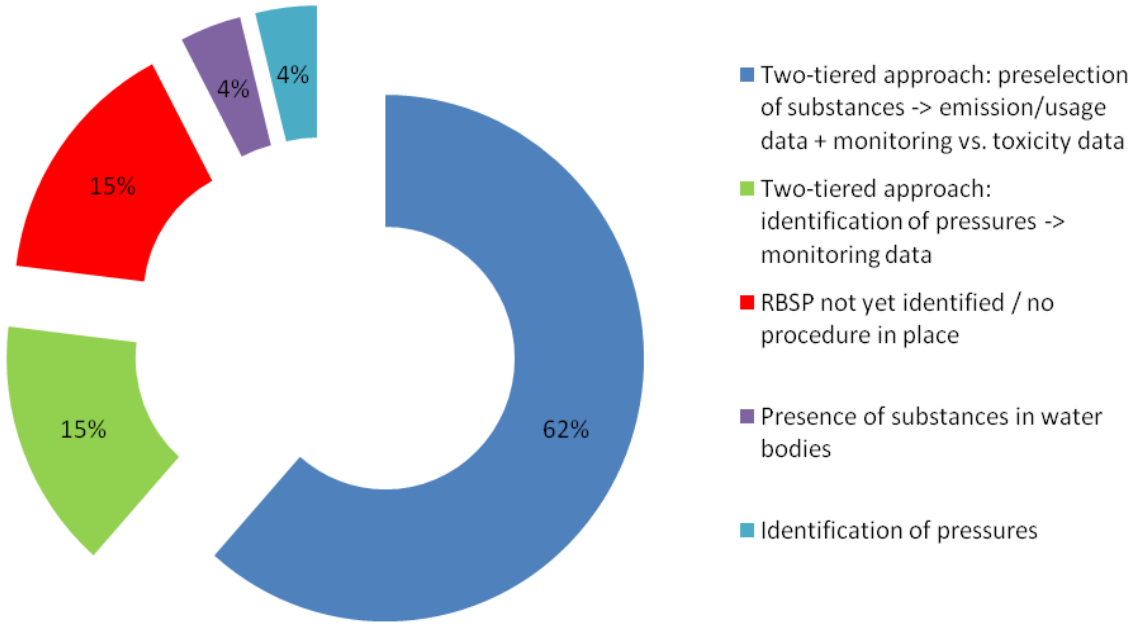


Figure 2.1 The main procedures applied by MS for the selection of RBSP (after JRC-IES 2010)

2.5.2 Assessment of potential data gaps

Approach adopted

In this project it was considered important to review whether there were apparent gaps for RBSPs selected by MS. It is evident from Section 2.4.1 that different approaches, (with different levels of uncertainty) have been used to identify RBSPs by different MS. However, it is beyond the scope of this task to identify all possible RBSPs that should be adopted by different MS using a consistent approach. Instead, an attempt has been made to identify pollutants that are discharged to water bodies in significant quantities that several MS might have been expected to identify as RBSPs.

This identification of apparent gaps has been based on:

- An assessment of whether the releases of a substance to the aquatic environment in MS are significant using the tonnage and industrial source information given in the European Pollutant Release and Transfer Registry (E-PRTR) (see http://prtr.ec.europa.eu).

- An assessment of the significant releases of plant protection products to the aquatic environment in MS using the data given in the Eurostat database (see http://epp.eurostat.ec.europa.eu).

A review of the templates for assessing the RBMPs (Question 6) regarding MS selection of RBSPs and development of EQSs and other sources was also conducted.

Information from the European Pollutant Release and Transfer Registry (E-PRTR)

The European Pollutant Release and Transfer Register (E-PRTR) is the new Europe-wide register that provides easily accessible key environmental data from industrial facilities in European Union Member States and in Iceland, Liechtenstein, Norway, Serbia and Switzerland. It replaces and improves upon the previous European Pollutant Emission Register (EPER). The new register contains data reported annually by some 28,000 industrial facilities covering 65 economic activities across Europe. For each facility, information is provided concerning the amounts of pollutant releases to air, water and land as well as off-site transfers of waste and of pollutants in waste water from a list of 91 key pollutants including heavy metals, pesticides, greenhouse gases and dioxins for the years 2007, 2008 and 2009. Some information on releases from diffuse sources is also available and will be gradually enhanced.

The information sought from the E-PRTR related to the tonnages of a series of substances that were released from industrial plants and municipal wastewater plants to water in each of the EU 27 Member States, Norway and Switzerland in 2009.

The groups and substances which are relevant to identified RBSPs and for which data was available are:

- Inorganic non-metallic substances: cyanides and fluorides.
- Metals and metalloids: arsenic and compounds, chromium and compounds, copper and compounds and zinc and compounds.
- Organic substances (other than defined groups): Adsorbable organic halogens (as AOX), Ethylbenzene, Ethylene oxide, Hexabromophenyl, Nonylphenol and nonylphenol ethoxylates, Phenols (as total C), 1,1,2,2-tetrachloroethane, 1,1,1-trichloroethane, Toluene, Vinyl chloride, and Xylene (mixed isomers).
- Pesticides (chlordane, chlordecane, heptachlor, mirex, toxaphene and triphenyltin).
- Polyaromatic hydrocarbons.
- Polychlorinated biphenyls.

From the data in the E-PRTR for 2009 it is evident that there are significant discharges to water in the majority of the industrialised western European countries of:

- The inorganic non-metallic substances cyanides and fluorides.
- The metals and metalloids copper and compounds and zinc and compounds and to a lesser extent chromium and compounds and arsenic and compounds.
- The organic chemicals ethylbenzene, nonylphenol ethoxylates, phenol, toluene and xylene(s).

As a result there is an expectation that most of those western European Member States would have identified these substances as RBSPs and derived EQS values.

Information from the Eurostat database

In Eurostat (2007) the most recent publically available collation of information on the use of plant protection products in the EU-27 Member States is provided (though the collated data relates to 1992-2003). The report identifies the fungicides, herbicides and insecticides which have the highest use tonnages and these are shown in Table 2.4. The identified substances include a number that are Priority Substances and certain other pollutants in the Water Framework Directive (which are highlighted). There is an expectation that most of the Member States would have considered these substances (if they were not already Priority Substances) as RBSPs and derived EQS values.

Table 2.4 Highest use tonnages for fungicides, herbicides and insecticides in EU-27 Member States (Priority Substances and certain other pollutants are highlighted)

Highest use tonnages for different types of plant protection products in the EU-27		
Fungicides	Herbicides	Insecticides
Sulphur	Glyphosate	**Chlorpyrifos**
Mancozeb	**Isoproturon**	Parathion-methyl
Fosetyl	MCPA	Dimethoate
Metiram	Pendimethalin	Imidacloprid
Folpet	2,4-D	Methomyl
Copper oxychloride	**Trifluralin**	Fenthion
Fenpropimorph	Acetochlor	Methiocarb
Tebuconazole	S-metolachlor	Methidathion
Chlorothalonil	**Atrazine**	Chlorpyrifos-methyl
Thiram	Metazachlor	**Endosulfan**

2.5.3 Summary

Table 2.5 summarises the Member States that have adopted the RBSPs identified by the review of the data in the European Pollutant Release and Transfer Registry (see Section 2.5.2) and the Eurostat database (see Section 2.5.2). It is evident from the table that for the inorganic non-metallic substances, metals and metalloids and organic chemical groups large numbers of MS (>67% of the EU-27) have identified arsenic, chromium, copper and zinc as RBSPs and derived EQS values. However, fewer MS (<50% of the EU-27) have identified the inorganic non-metallic substances cyanide and fluoride and the organic chemicals ethylbenzene, nonylphenol ethoxylates, phenol, toluene and xylene(s) as specific pollutants.

For the plant protection products (i.e. fungicides, herbicides and insecticides) identified in Section 2.5.2 it is evident that the substances most frequently identified as RBSPs are the herbicides 2,4-D, glyphosate, MCPA and pendimethalin and the insecticide dimethoate. A large number of MS have not evidently identified the highest tonnage plant protection products as RBSPs even though it is evident that plant protection products containing these active substances are approved for use in the vast majority of MS (as indicated in the EU Pesticides Database under Regulation No. 1107/2009 available at http://ec.europa.eu/sanco-pesticides/public/index.cfm).

The implications of this issue for ecological classification are considered in greater detail in Stage 2 of the project (see Section 3).

Table 2.5 Summary of whether MS have adopted identified industrial substances or plant protection as RBSPs

Substance	Identified as a River Basin Specific Pollutant by different Member States (for water column- rivers)																										
	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LU	LV	MT	NL	PO	PT	RO	SE	SK	SV	UK	CH	NO
Cyanide (INMS)	**Y**	**Y**	N	N	**Y**	**Y**	N	N	N	**Y**	N	N	N	**Y**	N	N	N	N	N	N	**Y**	N	N	**Y**	**Y**	**Y**	**Y**	N	N
Fluoride (INMS)	**Y**	**Y**	N	N	**Y**	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	N	**Y**	**Y**	N	N	N	N	**Y**	N	N	N
Arsenic (M&M)	**Y**	**Y**	**Y**	N	**Y**	N	N	N	N	**Y**	N	**Y**	**Y**	**Y**	**Y**	N	**Y**	**Y**	N	**Y**	**Y**	N	**Y**	N	**Y**	**Y**	**Y**	N	**(Y)**
Chromium (M&M)	**Y**	**Y**	**Y**	N	**Y**	N	N	N	N	**Y**	N	**Y**	**Y**	**(Y)**	**Y**	**Y**	**Y**	**Y**	**(Y)**	**Y**	**Y**	N	**Y**	**Y**	**Y**	**Y**	**(Y)**	N	**(Y)**
Copper (M&M)	**Y**	**Y**	**Y**	**Y**	**Y**	N	N	N	N	**Y**	N	**Y**	**Y**	**Y**	N	**Y**	**Y**	**Y**	**(Y)**	**Y**	**Y**	N	**Y**	**Y**	**Y**	**Y**	**Y**	N	N
Zinc (M&M)	**Y**	**Y**	**Y**	**Y**	**Y**	N	N	N	N	**Y**	N	**Y**	**Y**	**Y**	N	**Y**	**Y**	**Y**	**(Y)**	**Y**	**Y**	N	**Y**	**Y**	**Y**	**Y**	**Y**	N	N
Ethylbenzene (O)	**Y**	**Y**	N	N	**Y**	**Y**	N	N	N	**Y**	N	N	N	N	N	N	**Y**	**Y**	N	**Y**	N	N	**Y**	N	N	N	N	N	
Nonylphenol ethoxylates (O)	N	N	N	N	N	N	**Y**	N	N	N	**Y**	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	**(Y)**
Phenol (O)	N	N	**Y**	**Y**	**Y**	N	N	N	N	N	N	N	N	**Y**	N	**Y**	N	**Y**	N	N	**Y**	N	**Y**	N	N	**Y**	**Y**	N	N
Toluene (O)	N	**Y**	N	N	**Y**	**Y**	N	N	N	**Y**	N	N	N	**Y**	**Y**	N	**Y**	**Y**	N	**Y**	N	N	**Y**	N	**Y**	**Y**	**Y**	N	N
Xylene(s) (O)	**Y**	**Y**	N	N	**Y**	**Y**	N	N	N	**Y**	N	N	N	**Y**	**Y**	N	**Y**	**Y**	N	**Y**	N	N	**Y**	N	**Y**	**Y**	**Y**	N	N
Mancozeb (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N
Fosetyl (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Metiram (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N
Folpet (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N
Fenpropimorph (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	N
Tebuconazole (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Chlorothalonil (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Thiram (F)	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Glyphosate (H)	N	N	N	N	**Y**	N	**Y**	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	**Y**	**Y**	N	N	N
MCPA (H)	N	**Y**	N	N	**Y**	**Y**	**Y**	N	N	N	**Y**	**Y**	N	N	**Y**	N	N	N	N	N	N	N	N	**Y**	**Y**	N	N	N	N
Pendimethalin (H)	N	N	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	**Y**	N	N	N
2-4-D (H)	N	**Y**	N	N	**Y**	**Y**	N	N	N	N	N	**Y**	N	N	**Y**	N	N	N	N	**Y**	N	N	N	N	N	N	**Y**	N	N
Acetochlor (H)	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
S-metolachlor (H)	N	N	N	N	**Y**	**Y**	N	N	N	**Y**	N	N	N	N	N	N	**Y**	N	N	**Y**	N	N	N	N	N	**Y**	N	N	N
Metazachlor (H)	N	N	N	N	**Y**	**Y**	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N
Parathion-methyl (I)	N	**Y**	N	N	**Y**	**Y**	N	N	N	N	N	N	N	N	Y	N	**Y**	N	N	**Y**	N	N	N	N	N	N	N	N	N
Dimethoate (I)	N	**Y**	N	N	N	N	N	N	N	N	**Y**	N	N	**Y**	**Y**	N	N	N	N	N	N	N	N	**Y**	N	N	**Y**	N	N
Imidacloprid (I)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N
Methomyl (I)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Fenthion (I)	N	**Y**	N	N	**Y**	**Y**	N	N	N	N	N	N	N	N	**Y**	N	N	N	N	**Y**	N	N	N	N	N	N	N	N	N
Methiocarb (I)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Methidathion (I)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Chlorpyrifos-methyl (I)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Notes: INMS – Inorganic non-metallic substance**,** M&M – Metal and metalloid**,** O – Organic chemical (other than defined groups)**,** F = fungicide, H = herbicide and I = insecticide
(Y) – refers to situation where a substance has been identified as an RBSP but no EQS value has been derived or a value has been derived for a specific form(s) of the substance

2.6 Conclusions

The following initial conclusions have been drawn for the Stage 1 work programme

- A searchable Excel spreadsheet has been prepared which identifies the River Basin Specific Pollutants (and resulting EQS values) adopted by EU Member States, Norway and Switzerland. The spreadsheet represents the information that was available at the time of collation. However, it should be recognised that MS have on-going programmes of developing or refining their RBSPs and the EQS values applied.

- Of the EU 27 Member States, Estonia, Greece and Portugal have not identified any RBSPs at present. Malta, as well as Norway and Switzerland, have identified RBSPs but have not derived EQSs.

- A total group of 381 substances have been identified for which one or more countries have derived an EQS in one or more of the environmental compartment and water category combinations.

- For the 23 Member States where information is available on the process used to derive the EQS values it is evident that:

  - All or some of the EQS for RBSPs identified by 8 Member States (namely: Czech Republic, Finland, Ireland, Netherlands, Slovakia, Slovenia, Sweden and the United Kingdom) were derived using the procedure in WFD Annex V 1.2.6.

  - All of the EQS for RBSPs identified by 1 Member State (namely: Bulgaria) were not derived using the procedure in WFD Annex V 1.2.6.

  - It is not clear whether the procedure in WFD Annex V 1.2.6 was used by 14 Member States in deriving EQS values for RBSPs (namely: Austria, Belgium, Cyprus, Denmark, France, Germany, Hungary, Italy, Latvia, Lithuania, Luxembourg, Poland, Romania and Spain). It appears that in certain of these Member States the substances adopted as RBSPs and the EQS values applied had been derived for previous legislation which may have been enacted before the WFD methodology was developed. As a result these substances may have not been specifically identified as Specific Pollutants using a selection process based on the criterion that they are expected to be discharged to water bodies in significant quantities.

- The vast majority of the EQS values derived for are for the water column for rivers, lakes, transitional waters and coastal waters. Only limited numbers of EQS values have been derived for sediments and biota.

- There are differences in the EQS values for RBSPs which undoubtedly reflect the approach used to derive the values.

- *For the derived water column EQSs*:

  - The number of EQS values derived by Member States ranges markedly from 3 to 151 for rivers, from 0 to 151 for lakes, from 0 to 133 for transitional waters and from 0 to 139 for coastal waters.

  - The distribution of RBSPs (and EQSs) across the Member States was bimodal such that the vast majority of RBSPs were only applied by one Member State. However, a small number of RBSPs (e.g. certain metals and metalloids and organic chemicals) were applied by >70% of the Member States for which data was available.

- *For the derived sediment EQS*:

  - Only 8 Member States (namely: Belgium, Denmark, Germany, Italy, Netherlands, Romania, Slovenia, and Sweden) have derived sediment EQS values for RBSPs.

  - The number of RBSPs for which sediment EQSs have been derived is between 3 and 34 for different MS.

  - The RBSPs for which sediment EQS have been applied relate to metals and metalloids, pesticides, polyaromatic hydrocarbons and hydrocarbons and polychlorinated biphenyls.

- *For the derived biota EQS*:

  - Only 5 Member States (namely: Belgium, Denmark, France, Romania and Sweden) have derived biota EQS values for RBSPs.

  - The number of RBSPs for which biota EQSs have been derived is between 1 and 58 for different MS.

  - The RBSPs for which biota EQS have been applied relate to metals and metalloids, pesticides and polychlorinated biphenyls.

- It is evident that different approaches, (with different levels of uncertainty) have been used to identify RBSPs by different MS.

- There may be issues with the scope of the RBSPs identified by certain MS based on a review of the data in the European Pollutant Release and Transfer Registry (E-PRTR) and the Eurostat database.

- To address the key sources of variability in EQS for certain Specific Pollutants, particularly when derived using the Annex V 1.2.6 methodology, an investigation with the Environment Agency of England and Wales and EAWAG/EPFL of Switzerland is being carried out for a series of 10 substances. In this activity further work is being carried out to clarify the use of the methodology described in Annex V 1.2.6 or an alternative approach by MS where the procedure adopted is currently unclear.

3. Stage 2 - Assess the consequences of the differences in standards regarding ecological status classification of water bodies

3.1 Approach taken

It was agreed at the kick-off meeting that the second stage of the Task 2c work programme should focus on identifying differences between Member States (MS) approaches to RBSPs but should be specified in more detail once Stage 1 was complete and the searchable Excel database was available. It was agreed that the approach taken should be kept simple and it should not be overly ambitious but rather focus on substances of particular concern. It was also agreed at the kick-off meeting that the analysis does not have to be comprehensive but present obvious issues, obvious gaps and identify best practices. It should provide evidence through case studies rather than an EU-wide assessment.

The issues that are addressed in this stage of the task are designed to provide information on two key overarching themes that were identified at the Inception Meeting and defined in the Inception Report:

1. Do the available data from different MS regarding the ecological status of their water bodies in general and the situation regarding, for example, industrial releases to the aquatic environment in those MS suggest that the assessments of ecological status are not comparable?

2. Has the identification of different substances as RBSPs and/or the application of different EQSs by MS resulted in different ecological classification in water bodies common to the different MS?

The following general principles have been applied to the case studies addressed under the above overarching areas:

- They should provide information on the extent to which differences in the RBSPs adopted by MS and the EQS values applied affect the consistency of classification of ecological status.

- They should consider a small range of substances representative of different substance groups (e.g. metals, industrial organics and plant protection products) but consider as wide a range of Member States as possible using the available data.

Table 3.1 summarises the general areas that are considered and more specific issues that are addressed in Stage 2. Further detail is given in the relevant section.

Table 3.1 Issues that are addressed in Stage 2

Areas being addressed	Specific issues that are considered
1. Number and scope of the RBSPs identified by MS.	*a) Does it appear that some Member States have not identified certain substances as RBSPs when there is evidence of significant emissions/use?* *b) Do MS that have adopted few RBSPs show a trend regarding the magnitude of the values (i.e. always lower or higher) than MS which have adopted larger numbers of values?*
2. Magnitude of the EQS values applied for RBSPs identified by MS.	*a) What are the key reasons for differences in the magnitude of the EQS values adopted by MS for a particular substance?* *b) Are the reasons for the differences the same for different types of substances (e.g. metals, industrial organic chemicals and plant protection products)?* c) *Have Member States which are participants in IRBDs derived EQSs for particular substances which as a group show less variability than that found for all MS having EQSs for those substances?*
3. Ecological consequences of differences in the number of RBSPs and the magnitude of the EQS values	*a) What are the consequences for classification of ecological status where MS have not adopted RBSPs that would be expected based on emission/use data?* *b) Do MS that have adopted few RBSPs show greater achievement of ecological status than MS which have adopted larger numbers of RBSPs?* *c) What are the consequences for downstream Member States in IRBDs in terms of classification of ecological status when they have derived more stringent EQSs than upstream MS?* *d) Can the identification of different substances as RBSPs and/or the application of different EQSs by MS result in different ecological classification in water bodies common to the different MS?*

The extent to which harmonisation is currently achieved is the subject of Stage 2 through the consideration of the issues identified in Table 3.1.

3.2 Key points from Stage 1

In addressing the identified issues the following key conclusions that were identified from the work carried out in Stage 1 of Task 2c need to be considered:

- A total group of 381 substances have been identified for which one or more countries have derived an EQS in one or more of the environmental compartment and water category combinations.

- The vast majority of the EQS values derived are for the water column for rivers, lakes, transitional waters and coastal waters. Only limited numbers of EQS values have been derived for sediments and biota.

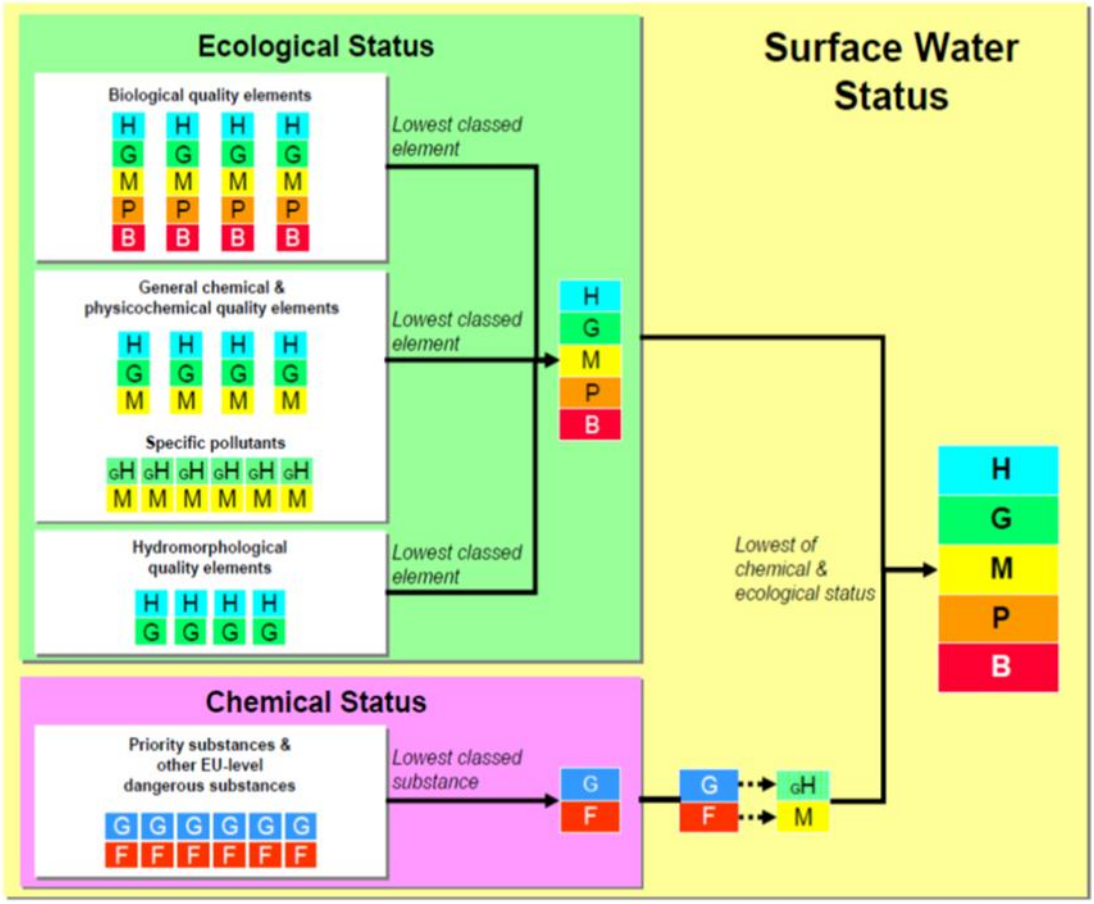
- There are differences in the EQS values for RBSPs which undoubtedly reflect the approach used to derive the values.

3.3 Background to Stage 2

3.3.1 Classification of water bodies under the WFD

For the effective implementation of the Water Framework Directive it is key that all Member States are acting in a consistent manner with regard to the assessment of both ecological classification and chemical classification. Chemical Status describes whether waters contain safe levels of certain chemicals listed in Annex X of the WFD, i.e. the Priority Substances (identified as posing a significant risk to/or via the aquatic environment at an EU level) and eight other pollutants originally identified under the Dangerous Substances Directive. The WFD sets out two chemical status classes: 'good' and 'failing to achieve good'. Standards for these substances have been developed at European level for use by all MS. Therefore, in theory, the chemical classification system is relatively straightforward: waters that breach one or more of the European standards fail to achieve good chemical status.

In contrast the assessment of ecological status requires a consideration of a series of elements including biological quality, general and chemical and physicochemical quality, specific pollutants and hydromorphological quality (see Figure 3.1). Therefore, it is important that ecological status realistically reflects the biology and/or water quality at a location and is not adversely affected by the approach applied to assessing that status. In terms of the assessment involving specific pollutants the outcome will depend on the substances identified and/or the EQS values that are applied. However, unlike the assessment of chemical status the assessment of specific pollutants is a component of a wider evaluation process.



Key: H = High, G = Good, gH = good or better and is normally treated as high for calculating, as relevant, ecological status and surface water status (except for ammonia) , M = Moderate, B = Bad, P = Poor, F = Failing to achieve good

Figure 3.1 Schematic representation of how results for different quality elements are combined to classify ecological status, chemical status and surface water status

3.3.2 International River Basin Districts (IRBDs)

It needs to be recognised that 60% of the EU surface area lies in river basins that cross at least one national border. For a river basin which encompasses a number of MS, differences in the substances adopted as RBSPs and/or the derived EQS values by different MS could have implications for the resulting ecological status of the water body at different locations. Clearly the potential complexity of this situation will increase as the number of MS relevant to a particular river basin increases. In order to ensure consistency of approach it is important that for these trans-boundary River Basin Districts there is an appropriate degree of harmonisation in the approach adopted to classifying ecological status. To achieve this, if a water body crosses the borders of more than one EU member state it is assigned to an International River Basin District, whose activities should be regulated by the relevant bodies

within the relevant MS. Cooperation on international rivers is not new and many conventions or agreements on the protection and joint use of larger rivers were in place before the WFD, for example for the Berne Convention for the Protection of the Rhine (1963). Furthermore long-standing international commissions for protection (platforms for coordination) have also been in place as a mechanism for ensuring a consistent approach to pollution control. However, the WFD, with its river basin approach, has accelerated and deepened the process.

All EU Member States except Cyprus and Malta contain sections of at least one international river basin district. Key examples of larger International River Basin District are those for the Danube and the Rhine. In the case of the Danube, which is the second largest river basin of Europe, the territories of 18 states are covered including 10 of the 27 EU-Member States (Austria, Bulgaria, Czech Republic, Germany, Hungary, Italy, Poland, Romania, Slovakia and Slovenia), as well other states. In addition to the Danube River Basin the Danube River Basin District (DRBD) includes some of the Black Sea coastal catchments. The activities related to this River Basin District are overseen by the International Commission for the Protection of the Danube River (http://www.icpdr.org). The Rhine covers the territories of 7 of the EU-27 Member States, namely Austria, Belgium, France, Germany, Italy, Luxembourg and Netherlands as well as Liechtenstein and Switzerland. Activities are overseen by the International Commission for the Protection of the Rhine (http://www.iksr.org).

Task 1b of this Pressures and Measures study, i.e. “International Coordination Mechanisms” aims at investigating the degree of international coordination and cooperation under the EU Water Framework Directive, and where possible indicating their effectiveness, the coherence between national and international RBMPs as well as the additional value of international RBMPs. A Technical Report will be produced which provides:

(i) an overview of the EU international river basins (RBD, bi- or multilateral international cooperation agreements/mechanisms, characteristics or implementing bodies, EU MS/Non EU MS involved, existence of international RBMP) presenting the results of the international cooperation using an analytical framework that allows the assessment of the effectiveness of international cooperation; and,

(ii) a respective analysis and assessment of the international cooperation mechanisms on the basis of the information collected under (i), including a more in-depth assessment of the achievements in basins where international plans have been developed.

Four categories have been pre-identified:

- Category 1: International river basins with an international agreement/convention and a River Basin Organisation and international River Basin Management Plan.

- Category 2: International river basins with an international agreement and coordination body and no international River Basin Management Plan.

- Category 3: International river basins with an international agreement and no coordination body and no international River Basin Management Plan.

- Category 4: International river basins with no international agreement/convention and no coordination body and no international River Basin Management Plan.

Within the larger (Category 1) IRBDs there has been considerable activity to ensure that harmonised EQS values are applied for a common set of specific pollutants. However, whilst the framework for the harmonisation for the activities of larger International River Basin Districts is transparent it is often not clear that such a defined and effective approach is adopted at a smaller geographic scale, for example where there may only be two Member States associated with a particular International River Basin District.

The European Commission Preliminary Assessment of the Member States River Basin Management Plans (RBMPs) given at the 3rd European Water Conference (EC 2012a) indicated that:

"*International cooperation has been significantly enhanced since the adoption of the WFD, in particular in large international basins. Some form of cooperation and coordination is on-going in most shared river basins including more than one EU Member State or a third country (more than 80% of national plans for international RBD assessed indicate some kind of cooperation agreement). However, it is generally less developed in smaller transboundary catchments (sometimes it is not even mentioned in the plans or not recognised that the river basin is international).*

The highest degree of coordination is achieved when an international RBMP is developed. (9 international RBMPs have been adopted). This has been the case in 15% of the international river basins (25% if only the international basins shared by more than 1 Member State are counted). Around 70% of the plans for national parts of international RBD indicate that there has been some degree of coordination of the measures with countries sharing the basin. Measures related to river continuity, nutrient reduction and chemical pollution are often indicated as being coordinated (in around 40% of the RBMPs). Around half of the international plans also indicate that there are transboundary monitoring programmes for shared rivers and 20 RBMPs for shared groundwater bodies."

3.3.3 Transboundary pollution

The issue of transboundary pollution is specifically considered in Article 6 of Directive 2008/105/EC of the European Directive of the European Parliament and of the Council of 16 December 2008 on environmental quality standards in the field of water policy, amending and subsequently repealing Council Directives 82/176/EEC, 83/513/EEC, 84/156/EEC, 84/491/EEC, 86/280/EEC and amending Directive 2000/60/EC of the European Parliament and of the Council which indicates that:

1. A Member State shall not be in breach of its obligations under this Directive as a result of the exceedance of an EQS if it can demonstrate that:

   a) the exceedance was due to a source of pollution outside its national jurisdiction;

   b) it was unable as a result of such transboundary pollution to take effective measures to comply with the relevant EQS;

   and

   c) it had applied the coordination mechanisms set out in Article 3 of Directive 2000/60/EC and, as appropriate, taken advantage of the provisions of Article 4(4), (5) and (6) of that Directive for those water bodies affected by transboundary pollution.

2. Member States shall use the mechanism laid down in Article 12 of Directive 2000/60/EC to provide the Commission with necessary information in the circumstances set out in paragraph 1 of this Article and with a summary of the measures taken in relation to transboundary pollution in the relevant river basin management plan in accordance with the reporting requirements under Article 15(1) of Directive 2000/60/EC.

Issues of transboundary pollution need to be identified and addressed if the WFD is to be implemented effectively.

3.3.4 Current status of surface water bodies

The European Commission Preliminary Assessment of the Member States River Basin Management Plans (RBMPs) given at the 3rd European Water Conference indicated that with respect to the current status of surface water bodies:

- More than half the surface water bodies in Europe are reported to be in less than good ecological status or potential.
- The worst areas of Europe concerning ecological status and pressures in freshwater are reported from Central Europe.
- Only a few River Basin Districts are close to the aim of WFD of achieving at least good status.

3.4 Outcome of the assessment

3.4.1 Number and scope of the RBSPs identified by Member States

For this area two specific questions have been considered in the following sections:

a) Does it appear that some Member States have not identified certain potential pollutants as RBSPs when there is evidence of significant discharges to water?

b) Do MS that have adopted few RBSPs show a trend regarding the magnitude of the values (i.e. always lower or higher) than MS which have adopted larger numbers of values?

Does it appear that some Member States have not identified certain potential pollutants as RBSPs when there is evidence of significant discharges to water?

The Water Framework Directive defines pollutants as any substances liable to cause pollution, in particular those listed in Annex VIII. Specific Pollutants are understood as pollutants other than Priority Substances identified by Member States as being discharged to water bodies in “significant quantities”. Therefore, there is an expectation that each Member State will have identified its River Basin Specific Pollutants by considering the concentrations of different substances of (eco)toxicological concern that could be present in water bodies based on either measured data from monitoring programmes or estimated data from modelling exercises which consider production, use and emission data. The assessment should ideally consider potential releases of substances from both point sources (which will relate to chemicals produced or used in industrial processes) and diffuse sources (which will relate to the intermittent use of plant protection products for agriculture).

To address this issue the data on emissions/use for representative metals, organic chemicals and plant protection products from the European Pollutant Release and Transfer Register (E-PRTR) and Eurostat data sources has been reviewed to determine which inorganic and organic substances (including plant protection products) show significant releases to the aquatic environment and, might therefore, be expected to be RBSPs depending upon the situation in each country.

In Table 3.2 the number of MS shown to be discharging a series of inorganic (non-metallic) substances, metals and metalloids and organic substances or applying plant protection products in significant quantities are compared with the number of MS that have identified these substances as Specific Pollutants. The data given in Table 3.2 are derived from the tonnage data for these substances given in Appendix B to this report.

Analysis of the E-PRTR data for 2009 indicated that cyanide, fluoride, arsenic, chromium. copper, zinc, nonylphenol ethoxylates and phenol are discharged to water in significant quantities in between 17 and 27 of the EU-27. For arsenic, chromium, copper and zinc a large

proportion of MS (70%) have identified these substances as RBSPs. In contrast, cyanide, fluoride, nonylphenol ethoxylates and phenol have only been identified as RBSPs by a small number of MS.

Analysis of the Eurostat (2007) data (which was the most recently published consolidated dataset available) on plant production products applied by different individual MS showed that seven plant protection products were applied in 13 or more of the EU-27 MS, namely: chloridazon, glyphosate, isoproturon, mancozeb, MCPA, phenmedipham and trifluralin. Two of the substances isoproturon and trifluralin are Priority Substances and EQS have been developed at the EU level. For mancozeb a large proportion of MS applying the substance have identified it as a RBSP. In contrast, for chloridazon, glyphosate, MCPA and phenmedipham only a small proportion of the MS applying the substances have identified them as RBSPs. It is evident that plant protection products containing these active substances are approved for use in the vast majority of MS (as indicated in the EU Pesticides Database under Regulation No. 1107/2009 available at http://ec.europa.eu/sanco-pesticides/public/index.cfm).

On the basis of the data in Table 3.2 it is evident that there are substances being discharged to the aquatic environment in significant quantities that have not been identified as Specific Pollutants by relevant Member States.

Table 3.2 Expectation of substances as RBSPs based on release data from the E-PRTR database and the Eurostat data

Substance	Number of EU-27 discharging substance based on 2009 data from E-PRTR	Number of EU-27 having identified substance as a RBSP
Inorganic (non-metallic) substance		
Cyanide	20	1
Fluoride	23	8
Metals and metalloids		
Arsenic	24	17
Chromium	24	17
Copper	27	19
Zinc	26	18
Organic chemicals		
Nonylphenol ethoxylates	17	2
Phenol	21	9
Substance	Number of EU-27 applying substance based on 2003 data from Eurostat (2007)	Number of EU-27 having identified substance as a RBSP
Plant protection products		
Chloridazon	13	2
Glyphosate	23	6
Isoproturon	13	27 (Priority Substance)
Mancozeb	22	2
MCPA	16	11
Phenmedipham	14	0
Trifluralin	14	27 (Priority Substance)

Note: Phenol comprises phenol and phenol (petroleum)

Do MS that have adopted few RBSPs show a trend regarding the magnitude of the values (i.e. always lower or higher) than MS which have adopted larger numbers of values?

It is evident from Stage 1 of the report that for the derived water column EQSs:

- The number of EQS values derived by MS ranges markedly from 3 to 151 for rivers, from 0 to 151 for lakes, from 0 to 133 for transitional waters and from 0 to 139 for coastal waters.

- The distribution of RBSPs (and EQSs) across the MS was bimodal such that the vast majority of RBSPs were only applied by one MS. However, a small number of RBSPs (e.g. certain metals and metalloids and organic chemicals) were applied by >70% of the MS for which data was available.

To address this issue the MS which had only applied a small number of RBSPs were initially identified. The information in Table 3.3 shows that three MS had adopted <10 RBSPs and derived EQS values for the water column – river category, namely: Cyprus (3), Hungary (4) and Lithuania (6). These three MS had identified a total of eight RBSPs, namely: arsenic, boron, chromium (VI), chromium (total), copper, zinc, phenol and petroleum hydrocarbons. The EQS values adopted by these MS were compared with the data for other MS which had adopted larger number of RBSPs. The different EQS values for a particular substance were ranked from lowest to highest to determine whether Cyprus, Hungary and Lithuania had derived higher (less stringent) EQS values for a particular substance than other MS.

Table 3.3 shows the results of the collation of EQS values for the eight substances identified as RBSPs by Cyprus, Hungary and Lithuania. Only copper and zinc of the eight substances have been identified as RBSPs by all three MS as well as a wider range of other MS. For copper it is evident that the EQS values derived by the three MS were in the upper 72% of all values (i.e. they were ranked 14 or above of the 19 values and showed high EQS values). For zinc the EQS values derived by the three MS were in the upper 67% of all values (i.e. they were ranked 12 or above of the 18 values). Chromium (total) was an RBSP for Hungary and Lithuania and the EQS values they derived were in the upper 50% of all values (i.e. they were ranked 8 or above of the 16 values).

For the other substances only one of Cyprus, Hungary or Lithuania had identified them as an RBSP which limits the potential for data analysis. However, when the data for Lithuania for phenol and petroleum hydrocarbons are considered the EQSs are at the lower end of the distribution. Overall, based on a limited dataset, it does not appear that there is a systematic trend for MS adopting a small number of RBSPs (i.e. <10) to have higher EQS values than MS which have identified larger numbers of EQSs. This issue could be considered further when assessing the procedures that MS have used to derive EQS values for RBSPs (see Section 3,4.2).

Table 3.3 EQS values adopted by all MS for the eight substances identified as RBSPs by Cyprus, Hungary and Lithuania

Country	No. of RBSPs	Arsenic		Boron		Chromium (VI)		Chromium (total)		Copper		Zinc		Phenol		Petroleum hydrocarbons	
		EQS	Rank	EQS	Rank	EQS	Rank	EQS	Rank	EQS	Rank	EQS	Rank	EQS	Rank	EQS	Rank
Austria	33	24.0	11.0					8.5	6.0	1.1	2.5	7.8	5.0				
Belgium	116	3.0	1.0	700.0	2.0			5.0	4.0	7.0	10.0	20.0	10.0				
Bulgaria	18	10.0	7.0			100.0	5.0	100.0	16.0	5.0	8.5	30.0	11.0	10.0	6.5		
Cyprus	3			1000.0	4.0					60.0	19.0	1100.0	18.0				
Czech Republic	86	11.0	9.0	300.0	1.0			18.0	12.0	14.0	16.0	92.0	13.0	3.0	2.0		
Denmark	25																
Finland	13																
France	10	4.2	2.0					1.4	1.0	3.4	5.0	3.1	1.5				
Germany	133																
Hungary	4	20.0	10.0					20.0	13.0	10.0	14.0	75.0	12.0				
Ireland	16	25.0	12.0			3.4	2.5			5.0	8.5	8.0	8.0	8.0	5.0		
Italy	51	10.0	7.0					7.0	5.0								
Latvia	11	150.0	17.0					11.0	9.0	9.0	12.0	120.0	15.0	300.0	9.0		
Lithuania	6					1.0	1.0	10.0	8.0	10.0	14.0	100.0	14.0	1.0	1.0	1.0	1.5
Luxembourg	55	10.0	7.0					18.0	11.0	10.0	14.0	7.2	3.0				
Netherlands	151	32.0	13.0	650.0	2.0			3.4	3.0	3.8	6.0	7.8	5.0				
Poland	20	50.0	15.0	2000.0	5.0			50.0	14.5	50.0	18.0	1000.0	17.0	10.0	6.5	200.0	3.0
Romania	105	7.2	4.0							1.3	4.0			11.0	8.0		
Slovakia	25	7.5	5.0					9.0	7.0	1.1	2.5	7.8	5.0				
Slovenia	37	7.0	3.0					12.0	10.0	8.2	11.0	3.1	1.5	7.7	3.5		
Spain	16	50.0	15.0			5.0	4.0	50.0	14.5	22.0	17.0	200.0	16.0				
Sweden	29							3.0	2.0	4.0	7.0	8.0	8.0			1.0	1.5
United Kingdom	18	50.0	15.0			3.4	2.5			1.0	1.0	8.0	8.0	7.7	3.5		
No of MS having EQS		**17**		**5**		**5**		**16**		**19**		**18**		**9**		**3**	

Summary

Conclusions regarding the number and scope of the RBSPs identified by Member States

1. It is evident that there are pollutants being discharged to the aquatic environment in significant quantities that have not been identified as Specific Pollutants by relevant Member States.

2. In a limited dataset, it does not appear that there is a systematic trend for MS adopting a small number of RBSPs (i.e. <10) to have higher EQS values than MS which have identified larger numbers of EQSs.

3.4.2 Magnitude of the EQS values applied for RBSPs identified by MS

For this area three specific questions have been considered:

a) What are the key reasons for differences in the magnitude of the EQS values adopted by MS for a particular substance?

b) Are the reasons for the differences the same for different types of substances (e.g. metals, industrial organic chemicals and plant protection products)?

c) Have Member States which are participants in IRBDs derived EQSs for particular substances which as a group show less variability than that found for all MS having EQSs for those substances?

These issues are considered in the following sections

Based on the results given in Stage 1 (including recent data from Claussen *et al,* 2012), seven substances have been identified which are Specific Pollutants and for which EQSs have been derived by at least ten Member States (see Table 3.4). The identified substances are:

- The heavy metals and metalloids arsenic, chromium (total), copper and zinc.
- The organic chemicals toluene and xylene.
- The plant protection product 2-methyl-4-chlorophenoxyacetic acid (MCPA)

The factors giving rise to the variability in the resulting EQS values have initially been investigated using data for these seven substances, focussing particularly on:

- The quantity and quality of the input (ecotoxicity) data identified and the reliable and relevant data employed in deriving the EQS value.

- The identification of critical data.
- The extrapolation method employed (i.e. deterministic or probabilistic using a Species Sensitivity Distribution approach).
- The choice of Assessment Factor (AF).

To complete this task the dossiers/datasheets prepared by Member States when deriving the EQSs were reviewed where these were available.

Table 3.4 illustrates the complete range of EQSs derived for the seven identified substances. It is evident from the table that for all the identified substances the EQS values applied by the MS show large ranges resulting in considerable variability. Figure 3.2 summarises the variability for each substance with the variability for each substance being calculated using the equation:

Coefficient of variation (%) = Standard deviation for EQS values/Mean EQS value

It is evident from Figure 3.2 that for the seven identified substances the overall coefficients of variation vary from 84% for MCPA to 219% for zinc.

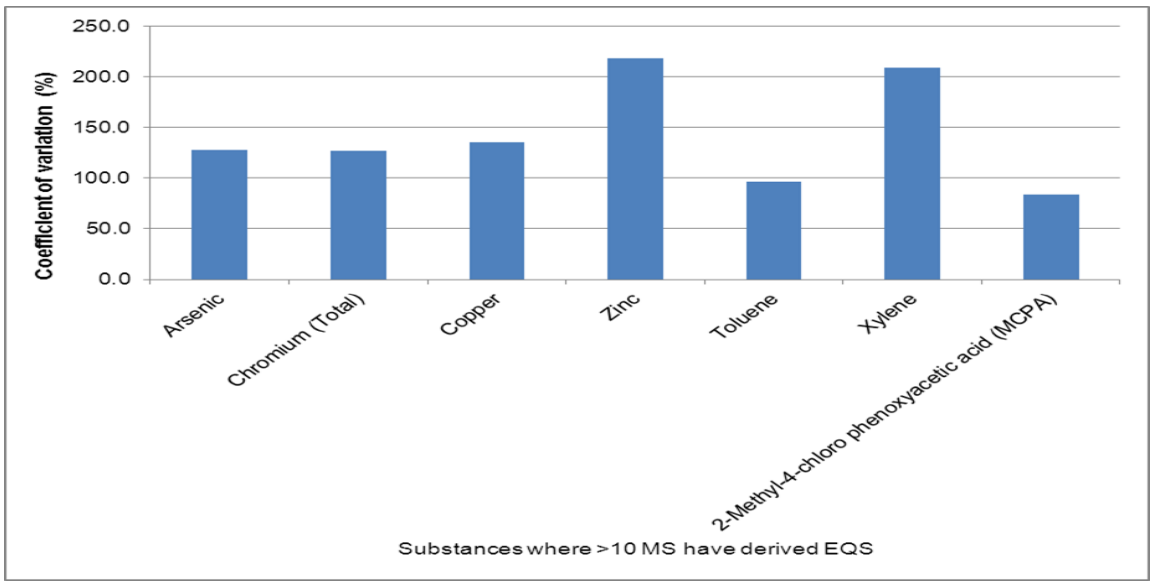
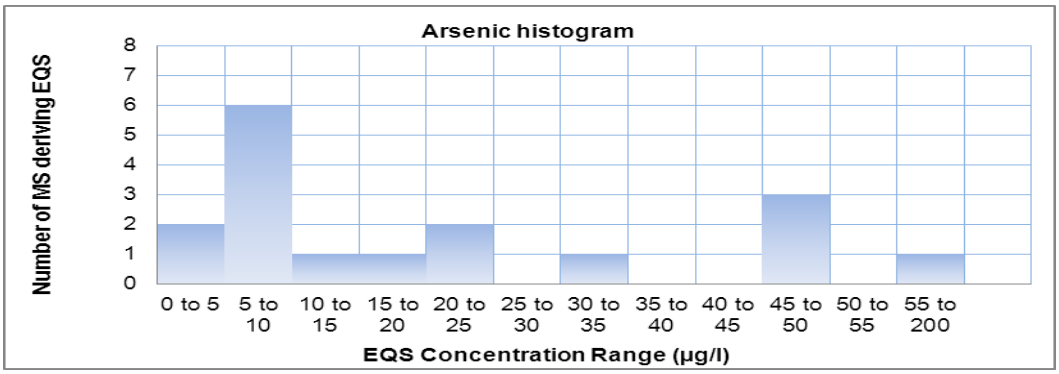


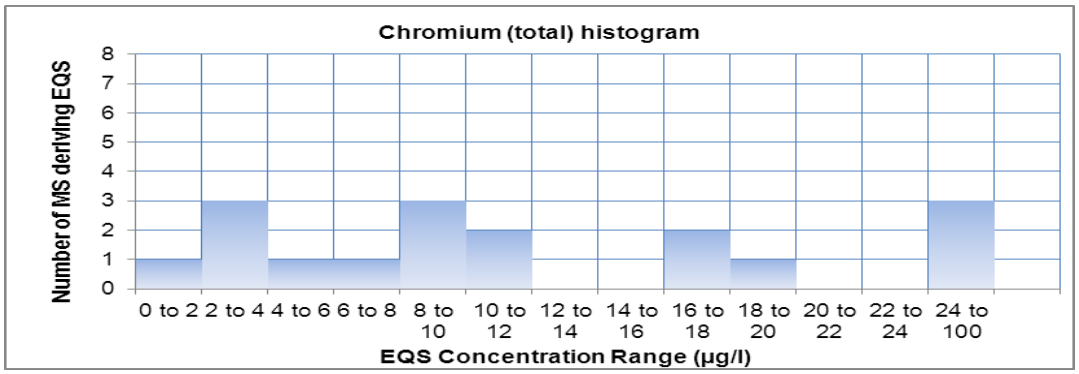
Figure 3.2 Coefficients of variation for all EQS values derived by MS for the seven identified substances

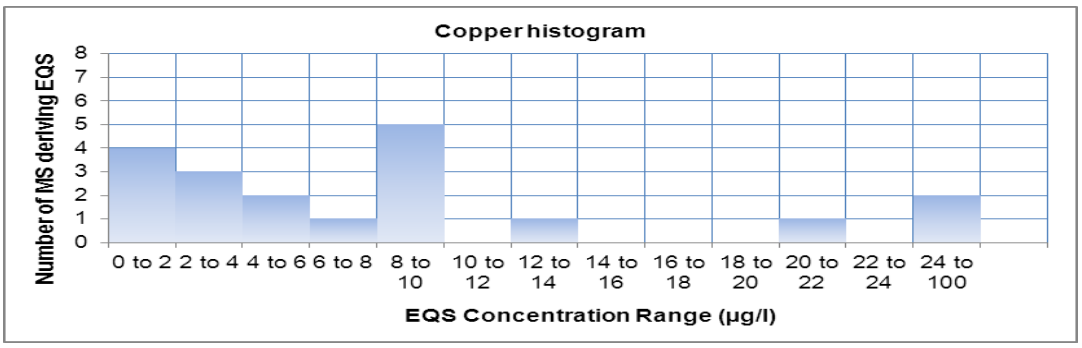
In Figure 3.3 the distributions of EQS values for the seven identified substances (where >10 MS have adopted them as RBSPs) are shown. These indicate that for the metals and metalloids (arsenic, chromium, copper and zinc) and organic chemicals (toluene and xylene) the majority of MS have applied EQS values which vary by a factor of <10. However, there are a minority of MS which have applied higher values. For MCPA greater variability is observed such that the majority of applied EQS values (excepting that for Denmark) range from 0.1 to 1.6 µg/l (i.e. by a factor of 16).

Table 3.4 Summary of the EQS values developed by a range of Member States for a series of Specific Pollutants

Substance	CAS Number	Water column EQS values for rivers applied by different Member States (ug/l)																						Number of EQS	All EQS values	
		Austria (AT)	Belgium (BE)	Bulgaria (BG)	Cyprus (CY)	Czech Republic (CZ)	Denmark (DK)	Finland (FI)	France (FR)	Germany (DE)	Hungary (HU)	Ireland (IE)	Italy (IT)	Latvia (LV)	Lithuania (LT)	Luxembourg (LU)	Netherlands (NE)	Poland (PO)	Romania (RO)	Slovakia (SV)	Slovenia (SK)	Spain (ES)	Sweden (SE)	United Kingdom (UK)		Mean	SD
Metals and metalloids																										
Arsenic	7440-38-2	24.0	3.0	10.0		11.0			4.2		20.0	25.0	10.0	150.0		10.0	32.0	50.0	7.2	7.5	7.0	50.0		50.0	17	27.7	35.5
Chromium (Total)	7440-47-3	8.5	5.0	100.0		18.0			1.4		20.0		7.0	11.0	10.0	18.0	3.4	50.0	2.5	9.0	12.0	50.0			16	20.4	25.9
Copper	7440-50-8	1.1	7.0	5.0	60.0	14.0			3.4		10.0	5.0		9.0	10.0	10.0	3.8	50.0	1.3	1.1	8.2	22.0	4.1	1.0	19	11.9	16.1
Zinc	7440-66-6	7.8	20.0	30.0	1100.0	92.0			3.1		75.0	8.0		120.0	100.0	7.2	7.8	1000.0	11.8	7.8	3.1	200.0	3.1	8.0	19	147.6	322.9
Organic chemicals (other than defined groups)																										
Toluene	108-88-3		90.0			5.0				10.0		10.0	5.0	10.0		2.0	74.0		10.0	100.0	74.0	50.0		50.0	13	37.7	36.6
Xylenes	1330-20-7	10.0	4.0									10.0	5.0			2.0	2.4		10.0	10.0	185.0	30.0			10	26.8	56.1
Pesticides																										
2-Methyl-4-chloro phenoxyacetic acid (MCPA)	94-74-6		0.7			0.1	0.01	1.6	1.5	0.1			0.5				1.4		0.1	1.6			1.1		11	0.8	0.7







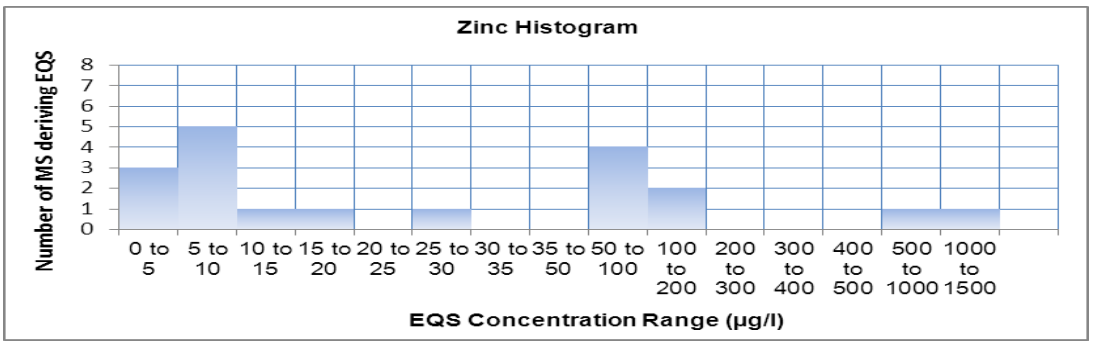
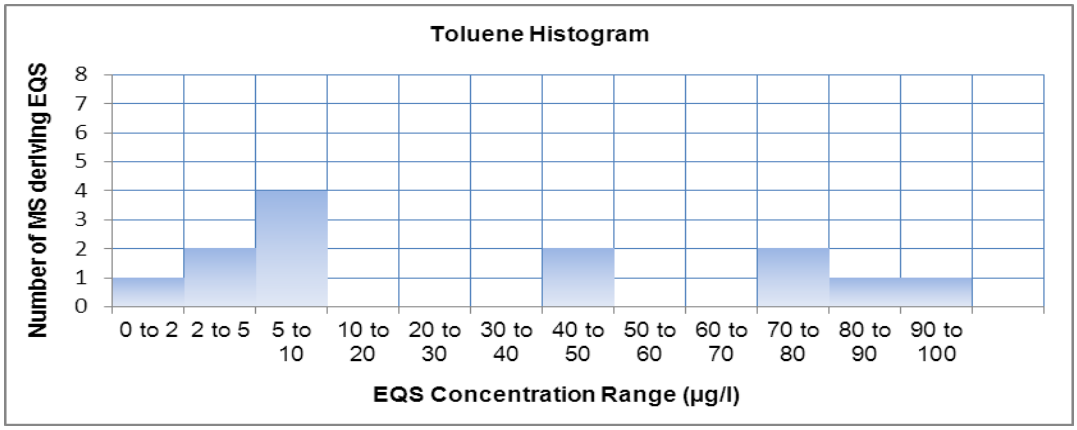
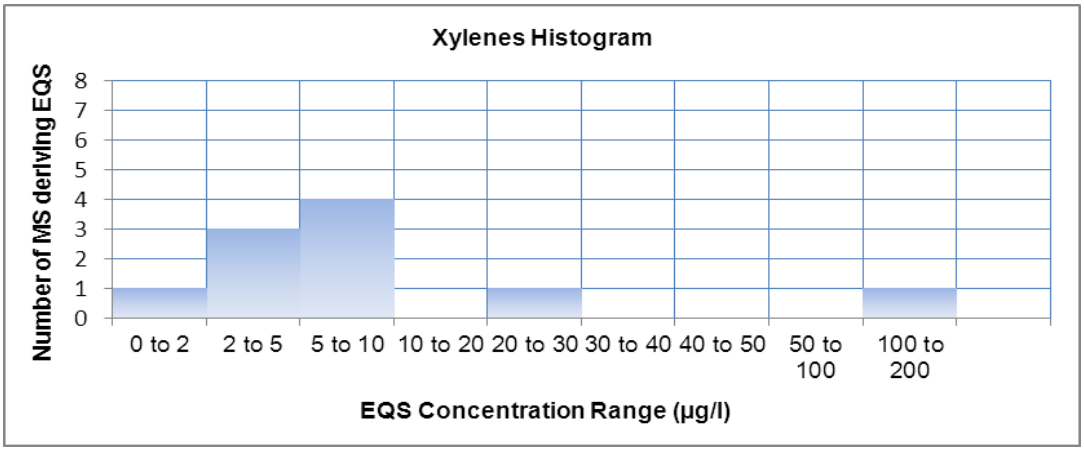


Figure 3.3 Distributions of EQS values for the seven identified substances (where >10 MS have adopted them as RBSPs)





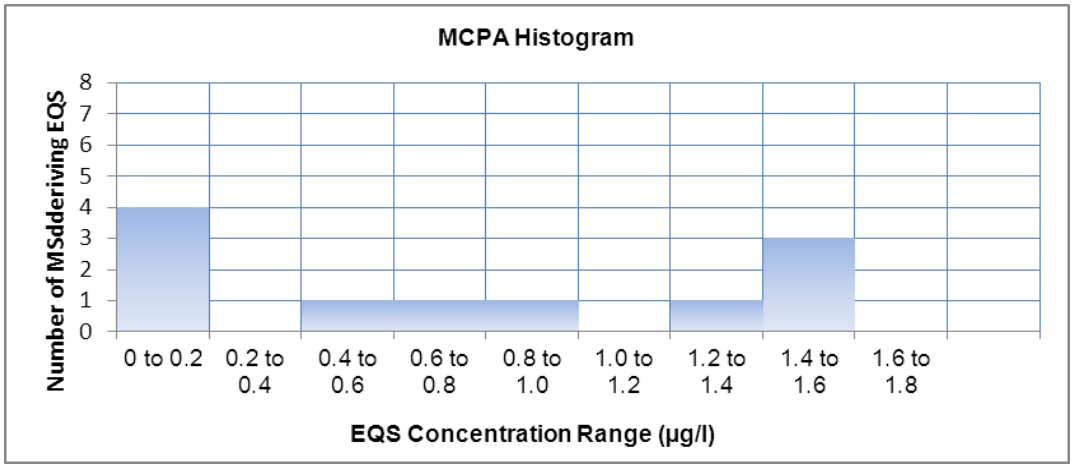


Figure 3.3 Continued

Table 3.5 provides a review of the approaches used by certain MS to derive the EQS values for the seven identified substances. The information is taken from the available dossiers and datasheets on EQS derivation. From Table 3.5 it is evident that for the seven identified substances:

- Whilst for some of the EQSs for Specific Pollutants MS have employed the detailed guidance in Annex V (WFD), some of the EQSs for the identified substances have been adopted from earlier regimes (e.g. Dangerous Substances Directive) and do not comply with this guidance. This is an important factor that contributes to the overall variability in the EQS values for a particular substance. However, it should be recognised that certain MS are reviewing these EQS values with a view to replacing them, where appropriate, with standards derived using the Annex V guidance. For example, the United Kingdom through the WFD UK Technical Advisory Group has recently reviewed the existing standards for copper and zinc and a number of other substances. It has proposed revised EQSs which are currently being considered through a Stakeholder Consultation process. It should also be recognised that in certain instances the existing standards developed under other regulatory regimes have been retained because the EQS values are lower than those derived using the Annex V guidance. Due to the "no-deterioration" principle MS have not increased the EQS values to introduce those derived using the Annex V guidance.

- For certain substances, (e.g. copper and zinc) the same toxicity value (i.e. an HC5 from an SSD) was used in the derivation of an EQS but different assessment factors were applied to the data resulting in different EQS values.

Table 3.5 Review of the approaches used by certain MS to derive the EQS values for the seven identified substances

Substance	EQS derivation data							
		Belgium (Flanders)	Czech Republic	Ireland	Netherlands	Slovenia	Sweden	United Kingdom
Arsenic	Approach	Approach adopted is not clear	Existing standard	Existing standard	Approach adopted is not clear	Annex V - Probabilistic	No value	Existing standard (see Note 1)
	Lowest toxicity value or HC5					Chronic HC5 = 14 µg/l		
	Assessment factor					2		
	EQS value	**3.0 µg/l**	**11.0 µg/l**	**25.0 µg/l**	**32.0 µg/l**	**7.0 µg/l**		**50.0 µg/l**
Chromium	Approach	Annex V - Probabilistic	Existing standard	No value	Annex V - Probabilistic	Annex V - Probabilistic	No value	No value
	Lowest toxicity value or HC5	Chronic HC5 = 15.1 µg/l			Chronic HC5 = 10.2 µg/l	Chronic HC5 = 12 µg/l		
	Assessment factor	3			3	1		
	EQS value	**5.0 µg/l**	**18.0 µg/l**		**3.4 µg/l**	**12.0 µg/l**		
Copper	Approach	Annex V - Probabilistic	Existing standard	Existing standard	Annex V - Probabilistic	Annex V - Probabilistic	Annex V - Probabilistic	Existing standard (see Note 2)
	Lowest toxicity value or HC5	Chronic HC5 = 7.0 µg/l			Chronic HC5 = 3.8 µg/l	Chronic HC5 = 8.2 µg/l	Chronic HC5 = 8.2 µg/l	
	Assessment factor	1			1	1	2	
	EQS value	**7.0 µg/l**	**14.0 µg/l**	**5.0 - 30.0 µg/l** (depending on water hardness)	**3.8 µg/l**	**8.2 µg/l**	**4.1 µg/l**	**1.0 - 8.0 µg/l** (depending on water hardness)
Zinc	Approach	Approach adopted is not clear	Existing standard	Existing standard	Annex V - Probabilistic	Annex V - Probabilistic	Annex V - Probabilistic	Existing standard (see Note 2)
	Lowest toxicity value or HC5				Chronic HC5 = 15.6 µg/l	Chronic HC5 = 15.6 µg/l	Chronic HC5 = 15.6 µg/l	
	Assessment factor				2	2	2 to 5	
	EQS value	**20.0 µg/l**	**92.0 µg/l**	**8.0 - 100.0 µg/l** (depending on water hardness)	**7.8 µg/l**	**7.8 µg/l**	**3.1 to 7.8 µg/l** (depending on water hardness)	**8.0 - 125.0 µg/l** (depending on water hardness)
Toluene	Approach	Annex V - Deterministic	Existing standard	Existing standard	Annex V - Deterministic	Annex V - Deterministic	No value	Existing standard (see Note 1)
	Lowest toxicity value or HC5	NOEC of 920 µg/l			740 µg/l for *Ceriodaphnia dubia*	7 d NOEC (reproduction) of 740 µg/l for *Ceriodaphnia dubia*		
	Assessment factor	10			10	10		
	EQS value	**90 µg/l**	**5.0 µg/l**	**10.0 µg/l**	**74 µg/l**	**74 µg/l**		**50.0 µg/l**
Xylene	Approach	Approach adopted is not clear	No value	Existing standard	Approach adopted is not clear	Annex V - Probabilistic	No value	No value
	Lowest toxicity value or HC5					Acute HC5 = 3750 µg/l		
	Assessment factor					20		
	EQS value	**4.0 µg/l**		**10.0 µg/l**	**2.4 µg/l**	**185 µg/l**		
MCPA	Approach	Annex V - Deterministic	Existing standard	No value	Annex V - Deterministic	No value	Annex V - Deterministic	No value
	Lowest toxicity value or HC5	NOEC of 920 µg/l			14 d NOEC (growth) of 13.5 µg/l for *Lemna minor*		14 d NOEC (growth) of 11 µg/l for *Lemna minor*	
	Assessment factor	10			10		10	
	EQS value	**90 µg/l**	**0.1 µg/l**		**1.4 µg/l**		**1.1 µg/l**	

Where values were derived using a probabilistic approach it is possible that lower values were also derived using a deterministic approach

Note 1: The existing standard has been retained because the value derived using the Annex V procedure was higher presenting a potential issue under the 'no deterioration' principle

Note 2: Modified standards for copper and zinc using the Annex V procedure have been proposed (1.0 µg/l bioavailable for copper and 10.9 µg/l bioavailable for zinc) and are currently being reviewed under through a Stakeholder Consultation

A separate exercise investigating the sources of EQS variability for the plant protection products dimethoate and glyphosate has been carried out by the Environment Agency of England and Wales, EAWAG and WRc (Junghans *et al*., 2012). The results of the detailed assessment of the sources of variability are illustrated below, in which the decisions made at each step of EQS derivation are shown for dimethoate (Figure 3.4) and glyphosate (Figure 3.5).

For ***dimethoate*** (Figure 3.4) the following points were evident:

- Data are sufficient for probabilistic extrapolation but a lack of data for critical taxa (insects) led all MSs to adopt a deterministic approach.
- Despite large differences in the quantity of data collated, the choice of critical datum was quite consistent.
- The main difference between MSs was the AF applied (i.e. 10-100). This is because (a) the critical datum identified by most MSs was an acute insect EC_{50} rather than a chronic NOEC and (b) MSs differed in their views about its reliability (since the test was not performed to a standard test guideline).

For ***glyphosate*** (Figure 3.5) the following points were evident:

- The main factor responsible for variability in EQSs is the choice of critical datum. It is not clear if this reflects differences in investment in data searching ('the harder you look, the more you find').
- Variations in the choice of critical datum are 'compensated' to some extent by differences in choice of AF (i.e. the variation in range of critical datum<range of EQS).
- The choice of extrapolation method leads to a 'step change' in the final EQS.

Are the reasons for the differences the same for different types of substances (e.g. metals, industrial organic chemicals and plant protection products)?

The analysis carried out in the previous section indicates that the causes of variability between EQSs for the same substance appear to be substance-specific. There are evidently no causes of variability that are specific to particular substance groups (e.g. metals and metalloid, organic chemicals, plant protection products).

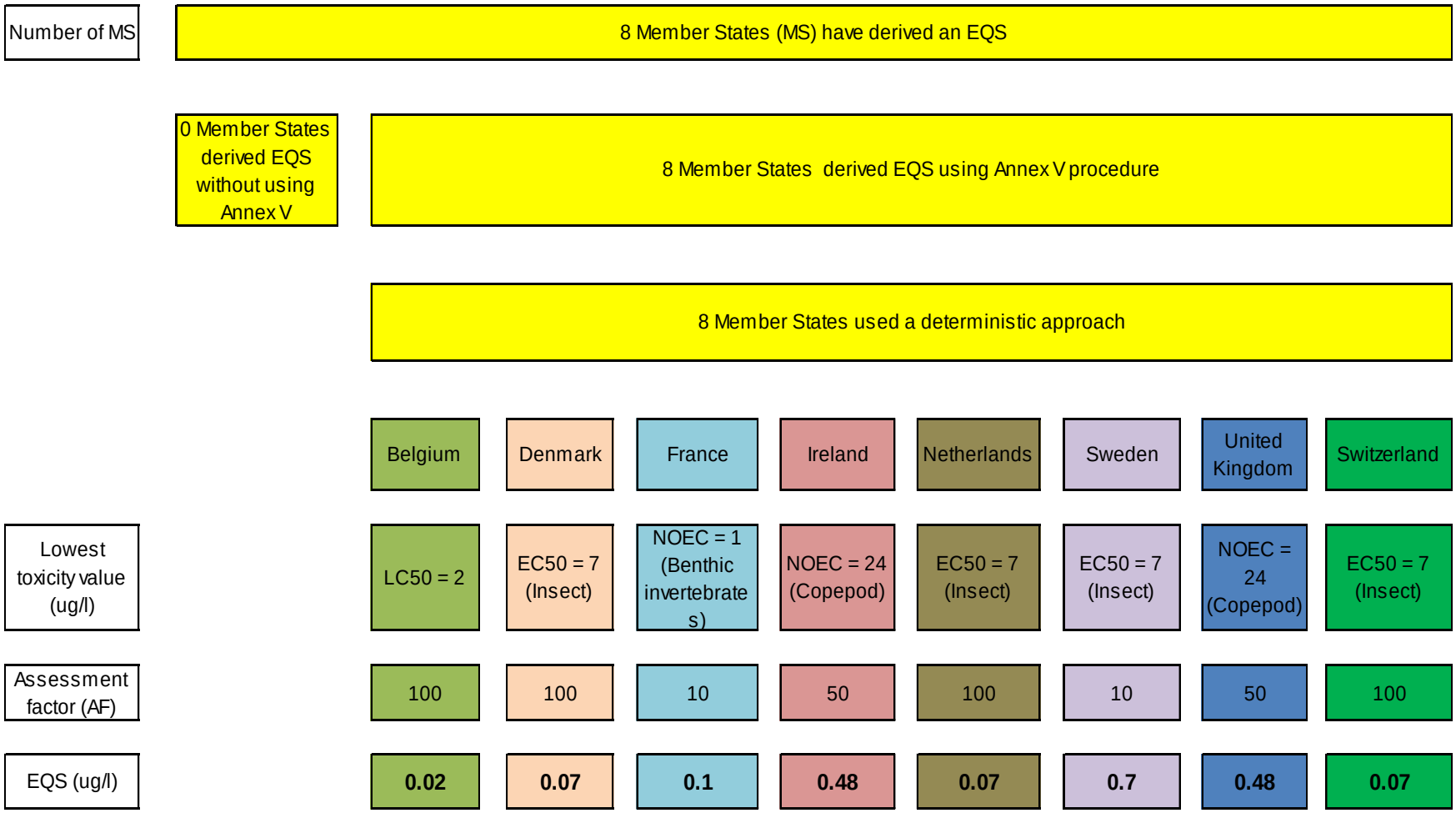


Figure 3.4 Summary of the approach used by different Member States for the derivation of EQS values for dimethoate (after Junghans *et al*. 2012)

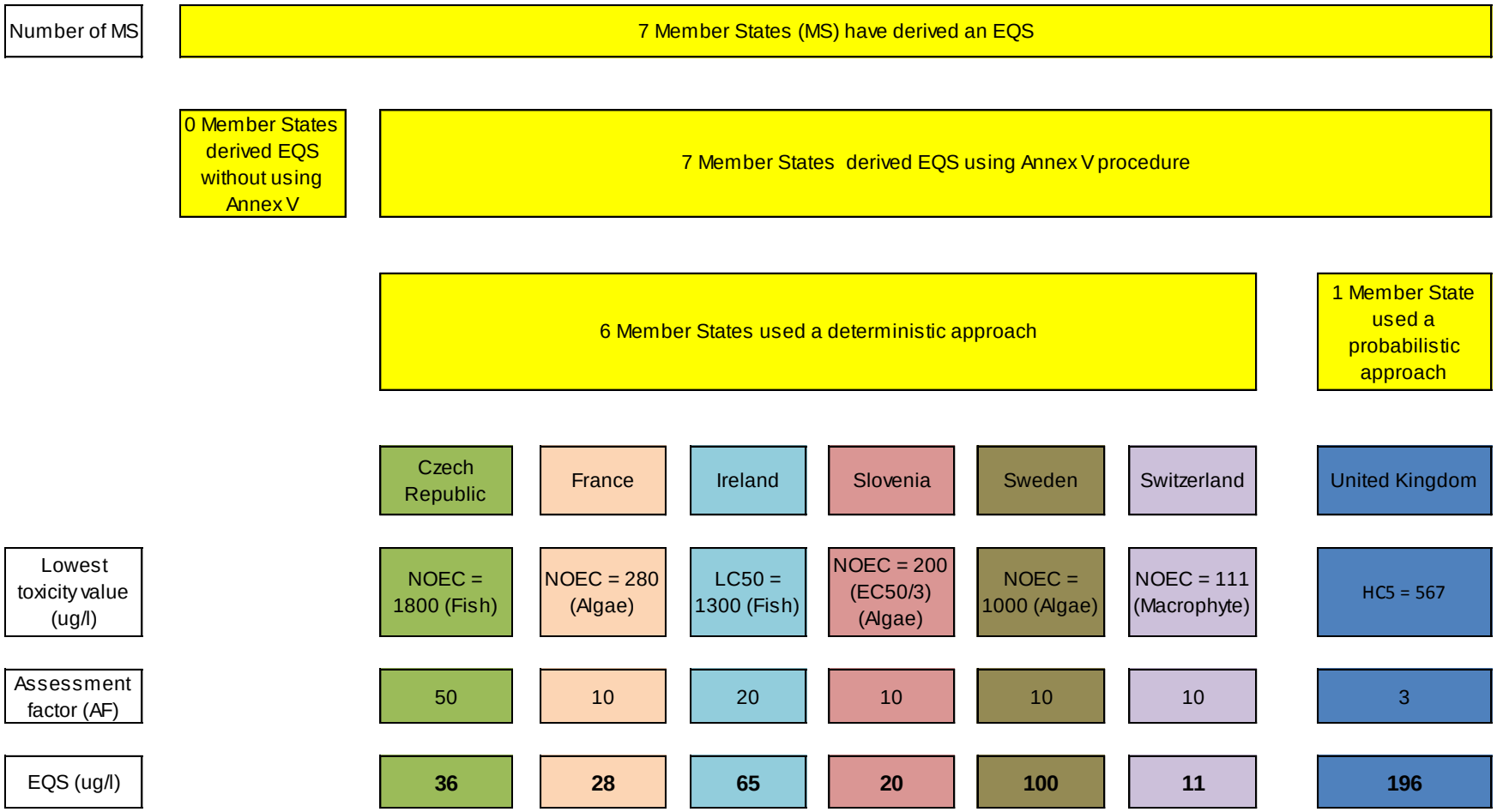


Figure 3.5 Summary of the approach used by different Member States for the derivation of EQS values for glyphosate (after Junghans *et al*. 2012)

Have Member States which are participants in IRBDs derived EQSs for particular substances which as a group show less variability than that found for all MS having EQSs for those substances?

Table 3.6 summarises the EQS values for the seven identified substances in Table 3.6 (i.e. those RBSPs where >10 MS have derived EQS values) that were adopted by MS that are participants in the Danube and Rhine IRBDs. Ten of the 27 EU-Member States (Austria, Bulgaria, Czech Republic, Germany, Hungary, Italy, Poland, Romania, Slovakia and Slovenia) are part of the Danube IRBD along with other countries. The Rhine covers the territories of seven of the EU-27 Member States, namely Austria, Belgium, France, Germany, Italy, Luxembourg and Netherlands as well as Liechtenstein and Switzerland. Although there are marked differences in the EQS values adopted by MS within the Danube and Rhine IRBDs for the seven identified substances, common standards may have been adopted for water bodies within the IRBDs.

Table 3.6 EQS values adopted by MS that are participants in the Danube and Rhine IRBDs

Country	EQS values for International Danube River Basin District Countries						
	Arsenic	Chromium	Copper	Zinc	Toluene	Xylenes	MCPA
Austria	24.0	8.5	1.1	7.8		10.0	
Bulgaria	10.0	100.0	5.0	30.0			
Czech Republic	11.0	18.0	14.0	2.0	5.0		0.1
Germany					10.0		0.1
Hungary	20.0	20.0	10.0	75.0			
Italy	10.0	7.0			5.0	5.0	0.5
Poland	50.0	50.0	50.0	1000.0			
Romania	7.2	2.5	1.3	11.8	10.0	10.0	0.1
Slovenia	7.5	9.0	1.1	7.8	100.0	10.0	0.1
Slovakia	7.0	12.0	8.2	3.1	74.0	185.0	
Country	EQS values for International Rhine River Basin District Countries						
	Arsenic	Chromium	Copper	Zinc	Toluene	Xylenes	MCPA
Austria	24.0	8.5	1.1	7.8		10.0	
Belgium	3.0	6.0	7.0	20.0	90.0	4.0	0.7
France	4.2	1.4	3.4	3.1			1.5
Germany					10.0		0.1
Italy	10.0	7.0			5.0	5.0	0.5
Luxembourg	10.0	18.0	10.0	7.2	2.0	2.0	
Netherlands	32.0	3.4	3.8	7.8	74.0	2.4	1.4

Figure 3.6 summarises the coefficients of variation for the seven identified substances based on the data for MS adopting EQS values as well as the MS that are part of the Danube and Rhine IRBDs. There is no obvious pattern of results regarding the data for the IRBDs and that

from all MS. In certain instances the coefficients of variation for the Danube and/or Rhine MS were lower than those for all MS, indicating a smaller range of EQS values. However, this was not the finding for all the substances.

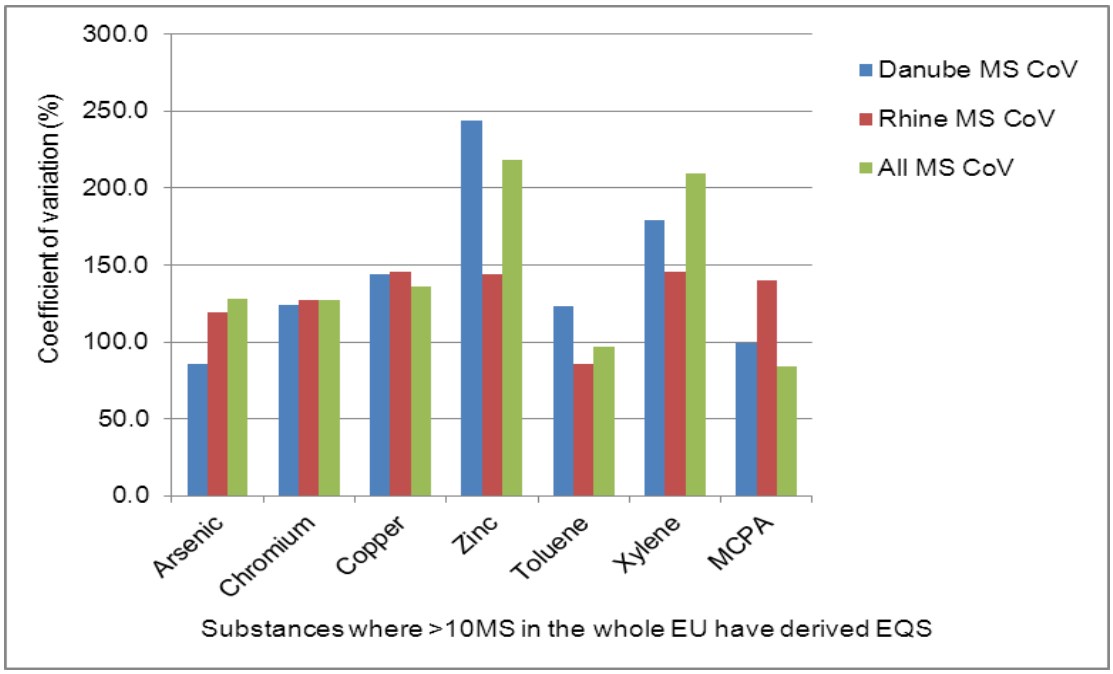


Figure 3.6 Coefficients of variation for the seven identified substances based on the data for MS adopting EQS values as well as the MS that are part of the Danube and Rhine IRBDs

Summary

Conclusions regarding the magnitude of the EQS values applied for RBSPs identified by Member States

1. Causes of variability between EQSs for the same substance appear to be substance-specific.
2. EQSs developed under previous regimes distort EQS variability. Between-MS variability should decline as these are replaced and Technical Guidance is adopted more widely.
3. A lack of test guidelines for insects may lead to variability in the quality assessment of insect toxicity data (which is important for the derivation of EQSs for insecticides).
4. Consistency could be improved by training based on the 2011 Technical Guidance and informal data exchange and discussion of data interpretation.

3.4.3 Ecological consequences of differences in the number of RBSPs and the magnitude of the EQS values

For this area four specific questions have been considered in the following sections:

a) What are the consequences for classification of ecological status where MS have not adopted RBSPs that would be expected based on emission/use data?

b) Do MS that have adopted few RBSPs show greater achievement of ecological status than MS which have adopted larger numbers of RBSPs?

c) What are the consequences for downstream Member States in IRBDs in terms of classification of ecological status when they have derived more stringent EQSs than upstream MS?

d) Can the identification of different substances as RBSPs and/or the application of different EQSs by MS result in different ecological classification in water bodies common to the different MS?

These questions have been considered on the basis of the following key points:

1. The assessment of compliance of a water body with the EQS values for the adopted RBSPs is only one element of the overall approach to the classification of ecological status (see Figure 3.1). As a result a water body could fail to achieve good quality status on the basis of biological quality elements, general chemical and physicochemical quality elements, specific pollutants and hydromorphological quality elements. This is in contrast to the classification of chemical status in which the exceedance of the EQS for one Priority Substance and other EU level Dangerous Substances will result in the water body failing good status.

2. The current conclusions in the "*Ecological Status Topic Summary*" in the Draft Commission Staff Working Document – European Overview (EC, 2012b) regarding the status of the different elements used in the classification of ecological status are that:

Biological quality	*Fully WFD-compliant assessment methods were not in place for all BQEs for the first RBMPs. Thus, in many member states, the assessment of ecological status was based on pressure and impact data rather than on biological monitoring data for a large proportion of water bodies. This is understandable because of the difficulties in the timetable of the WFD.*
General chemical and physicochemical quality	*Standards have been set for some supporting physico-chemical quality elements. However, most of the physico-chemical standards relate to nutrients and organic matter (Claussen and Arle, 2012) and are in most cases not well linked to the good/moderate class boundaries for the sensitive biological quality elements. If the programme of measures is based on*

	nutrient standards that are not well linked to the good/moderate boundaries for the biological quality elements, then good ecological status may not be achieveable.
Specific Pollutants	*EQS values have been set for some national specific pollutants in many member states, but it is not always transparent how these have been identified and if the methodology used follows Annex V, 1.2.6. Moreover, the EQS values are not always well linked to the biological assessment methods, as the latter are only to a small extent developed to capture contamination impacts.*
Hydromorphological quality	*Hydromorphological standards are less well developed than nutrient standards.*

3. The overall assessment in the "*Ecological Status Topic Summary*" in the Draft Commission Staff Working Document – European Overview (EC, 2012b) indicated that:

- *The RBMPs provide no clear picture on whether or not ecological status assessment methods have been developed for all national surface water body types or whether there are gaps. In some MSs and for some BQEs the assessment methods seem to be applied for all national types (e.g. benthic fauna methods for rivers and coastal waters), while other methods are more type-specific and developed for many national types, although it is unclear whether all national types are covered with a unique set of reference values and class boundaries.*

- *Only a few MSs have used all relevant quality elements in ecological status assessment of surveillance monitoring sites. The quality elements used by most MSs are benthic invertebrates in rivers, phytoplankton (mainly chlorophyll a) in lakes, and both benthic invertebrates and phytoplankton (mainly chlorophyll a) in coastal and transitional waters, as well as supporting QEs for all water categories. Fish is also used by many MSs for classification of rivers and transitional waters. Benthic flora is less used than the other BQEs in all the water categories, in spite of the existence of WFD compliant assessment methods.*

- *The one-out-all-out principle has been applied to derive the overall ecological status by almost all member states, sometimes excluding highly uncertain quality elements..*

What are the consequences for classification of ecological status where MS have not adopted RBSPs that would be expected based on emission/use data?

Given the multiple quality elements that contribute to the classification of good ecological status it is difficult to be sure of the potential consequences for classification of ecological status where MS have not adopted RBSPs that would be expected based on emission/use data. If a substance is released in significant quantities then there is the potential for the

exceedance of the EQS value and a resulting failure to achieve good quality status based on the specific pollutant element.

The results from Section 3.4.1 indicate that a number of MS have not identified a range of substances as RBSPs even though there is evidence that they are used or released in significant quantities.

Theoretically if the methods used to assess the biological quality element are sensitive to the chemical pollutants (i.e. the presence of elevated concentrations of the contaminants) then they should respond to the presence of substances which have been identified as RBSPs. However, the Ecological Status Topic Summary in the Draft Commission Staff Working Document – European Overview (EC, 2012b) indicated that "*Most of the biological assessment methods are able to detect nutrient and organic matter pressures from point and diffuse sources causing eutrophication and organic enrichment impacts. Hydromorphological pressures are less well captured by the biological assessment methods developed for the first RBMPs*." The methods were evidently less able to detect other water quality pressures. Therefore, the presence in water bodies of substances discharged in significant quantities and not identified as RBSPs may not be detected in the assessment of ecological status if no EQS values are applied.

Do MS that have adopted few RBSPs show greater achievement of ecological status than MS which have adopted larger numbers of RBSPs?

To address this issue information on the number of EQS values derived by different MS for the water column – river category was compared to the proportion of monitored water bodies failing to achieve good status within the Member States River Basin Districts (RBDs). The information on ecological status was obtained from the WISE Summary Reports for an RBD (Chapter 5, Section 5.2) - Non priority specific synthetic and non-synthetic pollutants (see Appendix C).

Table 3.7 summarises the number of RBSPs identified by different MS for the water column – river category and the proportion of monitored water bodies failing to achieve good status within a Member States River Basin Districts (RBDs) due to Specific Pollutants. It was evident from Stage 1 of the report that the number of RBSPs identified by MS for the water column - river category varied markedly from 3 to 151. It is also evident that the proportion of monitored water bodies failing to achieve good status within a Member States River Basin Districts (RBDs) based on the data for non-priority specific synthetic and non-synthetic pollutants also varied markedly ranging from 0 to 100%.

The data relationship between the two data sets is shown in Figure 3.7. Statistical analysis showed there was a significant correlation between the two parameters ($P<0.01$), such that the proportion of monitored water bodies failing to achieve good status within a Member

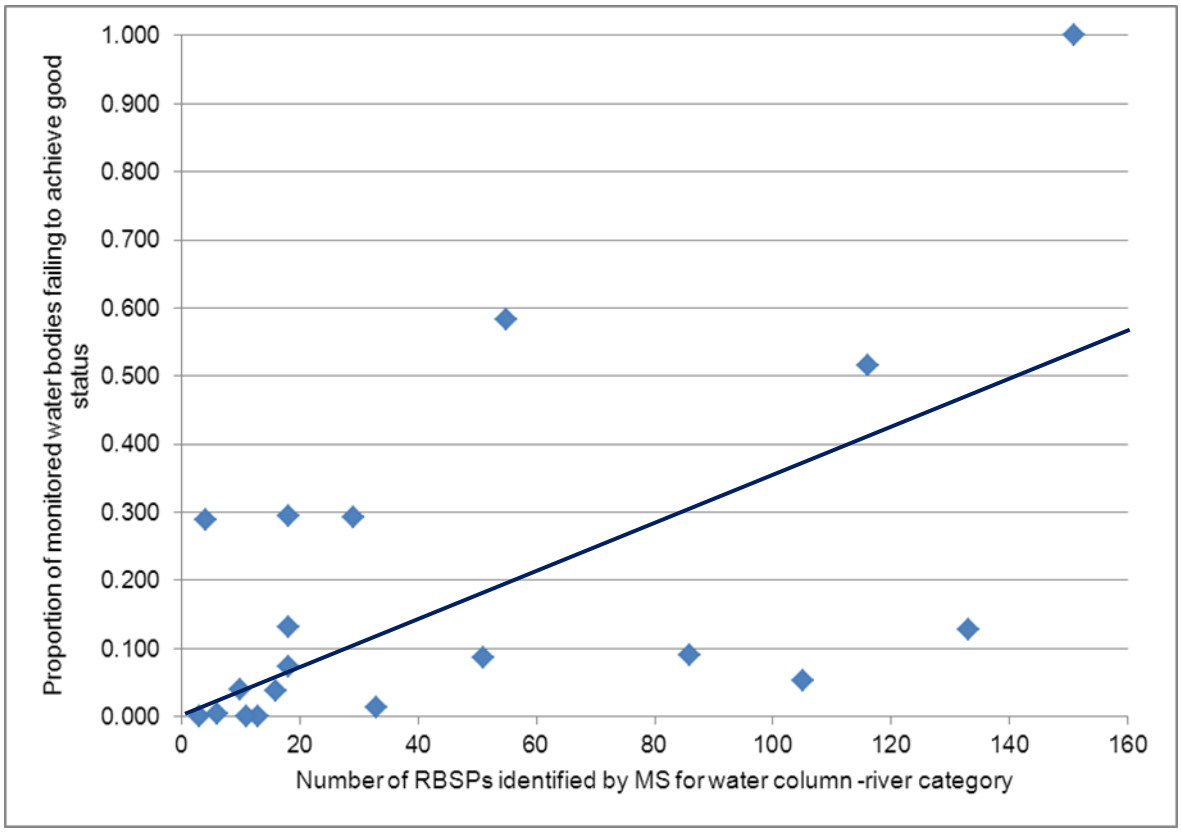
States River Basin Districts increased as the number of RBSPs identified by different MS for the water column – river category increased. However, the relationship between these parameters is strongly influenced by the data for Belgium, Luxembourg and the Netherlands.

A number of specific pollutant and non-specific pollutant related factors could contribute to the observed correlation. This could include the finding that MS having a limited number of RBSPs had higher EQS values than those of MS having identified a larger number of RBSPs. For the MS having larger numbers of RBSPs and lower EQS values there is a greater probability that for a given environmental concentration these MS will record exceedance of one or more EQS values in a water body and a failure to achieve 'good status' .

Table 3.7 Summary of the number of RBSPs identified by different MS for the water column – river category and the proportion of monitored water bodies failing to achieve 'good status' within a Member States River Basin Districts (RBDs) due to Specific Pollutants

Member State	Number of RBSPs identified for water column – river category	Proportion of monitored water bodies failing to achieve 'good status' due to Specific Pollutants
AT - Austria	33	0.014
BE - Belgum	116	0.516
BG - Bulgaria	18	0.132
CY- Cyprus	3	0.0
CZ - Czech Republic	86	0.090
DE - Germany	133	0.127
ES - Spain	16	0.037
FI - Finland	13	0.0
FR - France	10	0.039
HU - Hungary	4	0.289
IE - Ireland	18	0.295
IT - Italy	51	0.086
LT - Lithuania	6	0.004
LU - Luxembourg	55	0.583
LV - Latvia	11	0.0
NL - Netherlands	151	1.0
RO - Romania	105	0.053
SE- Sweden	29	0.292
UK - United Kingdom	18	0.073

Note: In the proportion column, 0 indicates no water bodies are failing to achieve 'good status' due to Specific Pollutants while 1 indicates all water bodies are failing to achieve 'good status' due to Specific Pollutants



Note: On the proportion axis, 0 indicates no water bodies are failing to achieve 'good status' due to Specific Pollutants while 1 indicates all water bodies are failing to achieve 'good status' due to Specific Pollutants

Figure 3.7 Relationship between the number of RBSPs identified by different MS for the water column – river category and the proportion of monitored water bodies failing to achieve good status within a Member States River Basin Districts due to Specific Pollutants

What are the consequences for downstream Member States in IRBDs in terms of classification of ecological status when they have derived more stringent EQSs than upstream MS?

Section 3.4.2 indicates that there is significant variability in the EQS values applied by different MS within the Danube and Rhine IRBDs. However, as is evident from the data in Task 1b of this project, there has been considerable cooperation within the Category 1 IRBDs in addressing water quality issues (see Section 3.3.2). Common standards may have been developed for certain substances for water bodies within the IRBDs and these will minimise the potential impact of the EQS values on the classification of ecological status.

The Trans National Monitoring Network (TNMN) in the Danube River Basin has been in operation since 1996 Implementation of the EU Water Framework Directive - WFD (2000/60/EC) after 2000 necessitated the revision of the TNMN in the Danube River Basin District. In line with the WFD implementation timeline, a revised TNMN has been under

operation since 2007. In line with the International Commission for the Protection of the Danube River (ICPDR) monitoring strategy and to build on the first survey in 2001 (i.e. the first Joint Danube Survey or JDS1), the second Joint Danube Survey (JDS2) was organised in August and September 2007. The overall objective of JDS2 was to undertake an international longitudinal ship survey that would produce comparable and reliable information on water quality for the entire length of the Danube River (including the major tributaries) on a short-term basis. It was envisaged that the outcomes of the JDS2 should include information needs arising from the implementation of the EU WFD.

With regard to Specific Pollutants (pollutants regulated on a national level) the Joint Danube Survey 2 Final Scientific Report indicated that "Official Environmental Quality Standards (EQS) are still missing in most Danube countries. The Environmental Quality Standards of Austria (BMLFUW 2006) and Slovakia (unpublished) have been used to get a first impression and to demonstrate the assessment. By combining the results from the two national EQS in a "worst case approach", the results show that two sites are failing to meet 'good' status due to bisphenol A (one in the Danube and one in a tributary); one tributary site is failing to meet 'good' status due to zinc and three Danube sites are failing to achieve 'good' status due to copper. For further discussion of these results, uncertainties arising from variable conditions along the whole Danube (e.g. variable natural background concentration for some substances) should be taken into consideration and would need an adaptation of the EQS values in some countries." Information in the Excel spreadsheet database indicates that for copper, zinc and bisphenol A both Austria and Slovakia have now adopted the same EQS values, namely 1.1 µg/l, 7.8 µg/l and 1.6 µg/l respectively.

Although common standards may be applied to larger IRBDs this is not likely to be the case for smaller transboundary water bodies. Therefore, in these situations there needs to be an effective mechanism for identifying transboundary pollution issues and ensuring there is a consistent approach addressing potential implications of differences in EQS values for particular substances. Table 3.8 shows examples of cooperation from smaller IRBDs between the Republic of Ireland/United Kingdom and Portugal/Spain.

Table 3.8 Examples of cooperation from smaller IRBDs

Member States	International RBDs	Approach	Reference
Ireland and the United Kingdom[1]	1. The Neagh Bann International River Basin District, including the Lough Neagh and River Bann basins as well as river basins draining to the outer estuarine limits of Dundalk Bay 2. the North Western International River Basin District, including the Erne and Foyle river basins, together with the basins of Lough Melvin, Bradoge river, Lough Swilly and related small coastal river basins in west County Donegal.	For these IRBDs the responsible bodies, north and south, are coordinating their water management actions through a North-South working group on Water Quality. This group is supported by the North-South Technical Advisory Group. A project, NS SHARE (www.nsshare.com), funded under the INTERREG IIIA programme, was set up to enhance the coordination of implementation of the Directive. In order to ensure a consistency of classification the Northern Ireland Environment Agency (NIEA) Water Management Unit liaise closely with Irish agencies and meets regularly through the North South Rivers and Lakes Group which was convened some years ago to agree practical monitoring and classification issues. The rules for classifying each cross-border water body have been agreed with respect to NI and Irish monitoring stations and have followed the principles detailed previously. Cross-border classification has been undertaken in liaison with the Irish EPA.	NEAGH Bahn IRBD (2008) Working together – Managing our shared waters North Western IRBD (2008) Working together – Managing our shared waters
Spain and Portugal	Spain and Portugal have five international River Basin Districts[2] in common: 1. Miño, 2. Limia, 3. Duero, 4. Tajo 5. Guadiana.	The relationships between both countries for these waters have been regulated in the Convenio de Albufeira known as the Albufeira´s Agreement (1998). The countries have been preparing River Basin Management Plans for the IRBDs and developing procedures for the coordination of activities. For example for the Mino, Sil and Limia River Basin Districts the following activities are on-going: • Improving monitoring networks in transboundary waters. • Agreement of thresholds for a series of Specific Pollutants	Confederaciõn Hidrogräfica del Miño-Sil (2010) Summary of the management plan proposal for the Spanish side of the river basin district of Miño, Sil and Limia river basins

Notes:

[1] - The Shannon International River Basin District, including the Shannon river basin, which drains the midlands of Ireland and also a small portion of County Fermanagh in Northern Ireland, together with small coastal river basins in counties Clare and Kerry. Only a very small portion of the Shannon international district lies in Northern Ireland. Consequently the drafting of the plan for the Shannon District has been led by the authorities in Ireland. Full consultation has been maintained with the authorities in Northern Ireland, who are represented on the Shannon District's Steering Group.

[2] - 40% of the territory of Spain and 60% of the territory of Portugal belong to these River Basin Districts.

The RBSPs identified by Ireland and the United Kingdom and which applied to the trans-boundary International River Basin Districts are shown in Table 3.9. Regulatory bodies from both Member States contributed to the United Kingdom Technical Advisory Group (UKTAG) which oversaw the identification of the RBSPs and the derivation of EQS values. On this basis it was not unexpected that the two MS had adopted similar Specific Pollutants and the same EQS values (see highlighted values in Table 3.9). However, the presence of different industrial facilities and the different agricultural land use on either side of the border can result in the potential releases of different industrial chemicals and/or plant protection products which necessitated different RBSPs.

The Irish EPA and NIEA have had joint representation on each Dangerous Substances group in NI and Ireland. All aspects of the Dangerous Substances monitoring programme were discussed for both NI and Ireland in each group.

Table 3.9 EQS values applied for River Basin Specific Pollutants by Ireland and the United Kingdom (common EQS values are highlighted)

Substances adopted as Specific Pollutants	EQS values applied by Ireland for rivers	EQS values applied by United Kingdom for rivers
Inorganic non-metallic substances		
Ammonia	No value	No value
Chlorine	No value	2.0 µg/l
Cyanide	10 µg/l	1.0 µg/l
Fluoride	500 µg/l	No value
Metals and metalloids		
Arsenic	25 µg/l	50 µg/l
Chromium (III)	4.7 µg/l	4.7 µg/l
Chromium (VI)	3.4 µg/l	3.4 µg/l
Copper	5.0 – 30 µg/l	1.0 - 28 µg/l
Iron	No value	1000 µg/l
Zinc	8.0 - 100 µg/l	8.0 - 125 µg/l
Organic chemicals (other than defined groups)		
2,4-Dichlorophenol	No value	20 µg/l
Monochlorobenzenes	1.5 µg/l	No value
Phenol	8.0 µg/l	7.7 µg/l
Toluene	10 µg/l	50 µg/l
Xylenes	10 µg/l	No value
Pesticides		
Cypermethrin	No value	0.1 µg/l
Diazinon	0.01 µg/l	0.01 µg/l
2,4-Dichlorophenoxyacetic acid (2,4-D)	No value	0.3 µg/l
Dimethoate	0.8 µg/l	0.48 µg/l
Glyphosate	60 µg/l	No value
Linuron	0.7 µg/l	0.5 µg/l
Mancozeb	2.0 µg/l	No value
Mecoprop Mecoprop-P	No value	18 µg/l
Permethrin	No value	0.01 µg/l

For the Miño, Sill and Limia river basin districts that span Portugal and Spain common thresholds between good and moderate state have been established for a series of non-synthetic (arsenic, chromium, copper, cyanide, fluoride selenium and zinc) and synthetic (chlorobenzene, dichlorobenzene, ethylbenzene, metalochlor, terbutylazine, toluene, trichloroethane, xylene) pollutants.

Clearly there is a greater potential for consistency in ecological status classification if there is coordination of approach between the different Member States (and other countries) involved in an International River Basin District. This extends to the identification of common RBSPs and the implementation of the consistent EQS values.

Can the identification of different substances as RBSPs and/or the application of different EQSs by MS result in different ecological classification in water bodies common to the different MS?

The issues addressed in the earlier parts of section 3.4.3 have indicated that the identification of different substances as RBSPs and/or the application of different EQSs by MS can result in different classifications of the ecological status of water bodies common to the different MS.

The European Commission Preliminary Assessment of the Member States River Basin Management Plans (RBMPs) given at the 3rd European Water Conference (EC, 2012a) indicated that: "*There is a wide difference in the identification of river basin specific pollutants. Some Member States have identified dozens of substances whilst others only a handful of 19 substances already regulated before the WFD (by Directive 76/464/EEC). This puts into question the comparability of the classification of ecological status*."

At the time of completion of the Draft Final Report there was no overview available to indicate which river basin specific pollutants are responsible for exceeding ecological status, and in how many water bodies in a river basin district (number and percentage). However, initial data was available from Section 7 – Assessment of Ecological Status of Surface Waters in draft versions of Commission Staff Working Document for Member States accompanying the document Report from the Commission to the European Parliament and the Council on the Implementation of the Water Framework Directive (2000/60/EC) River Basin Management Plans {COM(2012)670final}. Table 3.10 summarise the available information in terms of:

- Evidence of failure of good status in river basin districts due to failure to achieve relevant RBSP EQS values.
- Indication of the main RBSP EQS values that affected achievement of good status in water bo**d**ies in one or more river basin districts.

It appears from the initial review of the available data that for water bodies in 13 MS a failure to achieve the EQS values for RBSPs in water bodies in river basins contributed to a failure to achieve good ecological status (i.e. was at least one cause of failure). The RBSPs that are evidently responsible for failure to achieve good ecological status were arsenic, copper and

zinc which have been identified as Specific Pollutants by a large number of MS (see Table 3.4). However, a number of MS did not provide specific data so the exact extent of this issue across all the MS is not clear. A further review of the data when all the documentation is finalised (in November 2012) would result in a clarification of the current situation.

Table 3.10 Summary of the potential impact of failure to achieve RBSP EQS values on good ecological status in river basins of different MS (i.e. as at least one cause of failure)

Member State	Evidence of failure of good status in river basins contributing to failure to achieve relevant RBSP EQS values*	Indication of the main RBSP EQS values that affected achievement of good status in one or more river basins*
Austria (AT)	**Yes**	Copper, zinc
Belgium (BE)	**Yes**	Copper, PCBs and zinc
Bulgaria (BG)	No specific data	-
Cyprus (CY)	No	-
Czech Republic (CZ)	**Yes**	Nitrobenzene
Denmark (DK)	No specific data	-
Estonia (EE)	No specific data	-
Finland (FI)	No	-
France (FR)	**Yes**	Chlordecone
Germany (DE)	**Yes**	Range of metals, organic compounds and pesticides
Greece (EL)	No specific data	-
Hungary (HU)	**Yes**	Arsenic copper and lead
Ireland (IE)	No	-
Italy (IT)	**Yes**	Arsenic, lead and pesticides (unnamed)
Latvia (LV)	No specific data	-
Lithuania (LT)	No specific data	-
Luxembourg (LU)	**Yes**	Heavy metals (unnamed), manganese, pesticides (unnamed) and zinc
Malta (MT)	No specific data	-
Netherlands (NT)	**Yes**	Range of metals, organic compounds and pesticides
Norway (NO)	No specific data	-
Poland (PO)	No specific data	-
Portugal (PT)	No specific data	-
Romania (RO)	**Yes**	Acenaphthene, arsenic, chromium, copper, phenol, zinc
Slovakia (SK)	**Yes**	Arsenic, bisphenol A, copper, and 2,6-di-tert-butyl-4-methyl phenol
Slovenia (SV)	**Yes**	Anion-active detergents, cobalt, halogenated organic compounds (unnamed) metals (unnamed) metalochlor and molybdenum
Spain (ES)	No specific data	-
Sweden (SE)	No specific data	-
United Kingdom (UK)	**Yes**	Chlorine, copper, cypermethrin, 2,4-D, diazinon, phenol, permethrin and zinc

Note: * - Based on data given in Section 7 – Assessment of Ecological Status of Surface Waters in draft versions of Commission Staff Working Document for Member States accompanying the document Report from the Commission to the European Parliament and the Council on the Implementation of the Water Framework Directive (2000/60/EC) River Basin Management Plans {COM(2012)670final}

Summary

Conclusions for ecological consequences of differences in the number of RBSPs and the magnitude of the EQS values

1. The presence in water bodies of substances discharged in significant quantities and not identified as RBSPs may not be detected in the assessment of ecological status if no EQS values are applied.

2. Statistical analysis showed there was a significant positive relationship between the proportion of monitored water bodies failing to achieve good status within a Member States River Basin Districts and the number of RBSPs identified by different MS for the water column – river category.

3. There is a greater potential for consistency in ecological status classification if there is coordination of approach between the different Member States (and other countries) involved in an International River Basin District. This extends to the identification of common RBSPs and the implementation of the consistent EQS values.

4. Initial indications from the available evidence are that there are issues with the comparability of the classification of ecological status between Member States.

4. Areas for further activity

The following potential areas for further activity have been identified from the report:

Identification of River Basin Specific Pollutants

It is evident that different approaches, (with different levels of uncertainty) have been used to identify River Basin Specific Pollutants (RBSPs) by different MS. Clearly, it would be advantageous if a harmonised approach to the selection of RBSPs was adopted by all MS to ensure that all relevant hazardous substances released in significant quantities were identified. This would minimise the potential data gaps for RBSPs selected by MS.

Derivation of EQS Values for River Basin Specific Pollutants

It is evident that not all the EQSs values for RBSPs have been derived using the procedures specified in Annex V 1.2.6 of the WFD and defined in the Common Implementation Strategy (CIS) Guidance for Deriving EQS (EC, 2011). EQS values developed under previous regimes currently distort EQS variability but between-MS variability should decline as these are replaced (where appropriate) by updated values. Consistency in the derivation of RBSP could be improved by training based on the CIS Guidance and MS technical discussions on data exchange and data interpretation.

Assessment of the implications of failures of RBSP EQS values for failure to achieve good ecological status

It appears from the initial review of the available data that for water bodies in many MS a failure to achieve the EQS values for RBSPs in water bodies in river basins contributed to a failure to achieve good ecological status (i.e. was at least one cause of failure). However, a number of MS did not provide specific data so the exact extent of this issue across all the MS is not clear. A further review of the data when all the documentation is finalised (in November 2012) could result in a clarification of the current situation and highlight issues with the comparability of the classification of ecological status between MS.

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Appendix A River Basin Specific Pollutant Summary Sheets for the EU 27 Member States, Norway and Switzerland

In this Appendix a summary sheet has been provided which details the River Basin Specific Pollutants adopted by each of the EU 27 Member States, Norway and Switzerland where RBSPs and EQS have been applied and derived. The summary sheet is designed to provide an audit trail for the data that is contained in the Excel spreadsheet.

Table A1 River Basin Specific Pollutant Summary Sheet for Austria (AT)

Member State:	Austria
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from Austrian By Law BGBL II NR. 96/2006
Information on the application of the Specific Pollutants	The same specific pollutants have been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Danube (AT1000), the Rhine (AT2000) and the Elbe (AT3000). No water column EQS values for specific pollutants have been derived for transitional waters and coastal waters as Austria is a land locked country. At present Austria has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic substances										
Cyanide	74-90-8	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Fluoride	-	1000 µg/l (AA)	1000 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-		EQS for the Good/Moderate boundary.
Metals and metalloids										
Arsenic	7440-38-2	24 µg/l (AA)	24 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Chromium (III and VI)	7440-47-3	8.5 µg/l (AA)	8.5 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Copper	7440-50-8	1.1-8.8 µg/l (AA)	1.1-8.8 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample. EQS for rivers and lakes depend on water hardness as follows: 1.1 µg/l (<50 mg $CaCO_3$/l as annual mean) 4.8 µg/l (50-100 mg $CaCO_3$/l as annual mean) 8.8 µg/l (>100 mg $CaCO_3$/l as annual mean)
Selenium	7782-49-2	5.3 µg/l (AA)	5.3 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Silver	7440-22-4	0.1 µg/l	0.1 µg/l	Not relevant	Not relevant	Not	Not	-	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA)	(AA)			clear	clear			boundary. EQS refers to the dissolved fraction of a water sample.
Zinc	7440-66-6	7.8-52 µg/l (AA)	7.8-52 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample. EQS for rivers and lakes depend on water hardness as follows: 7.8 µg/l (<50 mg $CaCO_3$/l as annual mean) 35.1 µg/l (50-100 mg $CaCO_3$/l as annual mean) 52 µg/l (>100 mg $CaCO_3$/l as annual mean)
Organic chemicals (other than defined groups)										
Adsorbable organic halogens (AOX)	-	50 µg/l (AA)	50 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Benzidine	92-87-5	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Bemzyl chloride	100-44-7	10 µg/l (AA)	10 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Bisphenol A	80-05-7	1.6 µg/l (AA)	1.6 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,2-Dichloroethylene	540-59-0	10 µg/l (AA)	10 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
2,4-Dichlorophenol	120-83-2	2.0 µg/l (AA)	2.0 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
2,5-Dichlorophenol	583-78-8	20 µg/l (AA)	20 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,3-Dichloropropan-2-ol	96-23-1	10 µg/l (AA)	10 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Diethylamine	124-40-3	10 µg/l	10 µg/l	Not relevant	Not relevant	Not	Not	-	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA)	(AA)			clear	clear			boundary.
Ethylbenzene	100-41-4	10 µg/l (AA)	10 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Ethylenediaminetetraacetic acid (EDTA)	60-00-4	50 µg/l (AA)	50 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Isopropylbenzene	98-82-8	22 µg/l (AA)	22 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Linear Alkylbenzene sulphonate (LAS)	68411-30-3	270 µg/l (AA)	270 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear			EQS for the Good/Moderate boundary.
Monochloroacetic acid	79-11-8	0.6 µg/l (AA)	0.6 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Nitrilotriacetic acid (NTA)	139-13-9	50 µg/l (AA)	50 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pentachloronitrobenzene	82-68-8	0.4 µg/l (AA)	0.4 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Xylene (mixed isomers)	1330-20-7	10 µg/l (AA)	10 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pesticides										
Chlordane	57-74-9	0.002 µg/l (AA)	0.002 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dibutyltin compounds	683-18-1	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Heptachlor	76-44-8	0.004 µg/l (AA)	0.004 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Mevinphos	7786-34-7	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Omethoate	1113-02-6	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Phosalon	2310-17-0	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Sebuthylazin	7286-69-3	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Trichlorofon	52-68-6	0.01 µg/l	0.01 µg/l	Not relevant	Not relevant	Not	Not	-	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA)	(AA)			clear	clear			boundary.

Notes: AA = Annual average

Table A2 River Basin Specific Pollutant Summary Sheet for Belgium (BE)

Member State:	Belgium
Source document(s) describing the derivation of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	The same specific pollutants have not been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Meuse (BEMaas_VL)), the Scheldt in Flanders (BEScheldt_VL)) and Belgian Coastal Waters (BBENoordzee_FED Scheldt). Belgium has established water column EQS values for surface waters, sediments and biota.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic (non-metallic substances)										
Cyanide (total)	57-12-5	50 µg/l (AA) and 75 µg/l (MAC)	50 µg/l (AA) and 75 µg/l (MAC)	50 µg/l (AA) and 75 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Fluoride	16984-48-8	900 µg/l (AA)	900 µg/l (AA)	900 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Metals and metalloids										
Antimony	7440-36-0	100 µg/l (AA)	100 µg/l (AA)	100 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Arsenic	7440-38-2	3.0 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Barium	7440-39-3	60 µg/l (AA)	60 µg/l (AA)	60 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Beryllium	7440-41-7	0.08 µg/l (AA)	0.08 µg/l (AA)	0.08 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Boron	7440-42-8	700 µg/l (AA)	700 µg/l (AA)	700 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Chromium	7440-47-3	5.0 µg/l (AA)	5.0 µg/l (AA)	5.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Cobalt	7440-48-4	0.5 µg/l (AA)	0.5 µg/l (AA)	0.5 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Copper	7440-50-8	7.0 µg/l (AA)	7.0 µg/l (AA)	7.0 µg/l (AA)	3.8 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Molybdenum	7439-98-7	340 µg/l (AA)	340 µg/l (AA)	340 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Selenium	7782-49-2	2.0 µg/l (AA)	2.0 µg/l (AA)	2.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Silver	7440-22-4	0.08 µg/l (AA)	0.08 µg/l (AA)	0.08 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary EQS refers to the dissolved fraction of a water sample.
Tellurium	13494-80-9	100 µg/l (AA)	100 µg/l (AA)	100 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Thallium	7440-28-0	0.2 µg/l (AA)	0.2 µg/l (AA)	0.2 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Tin	7440-31-5	3.0 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Titanium	7440-32-6	20 µg/l (AA)	20 µg/l (AA)	20 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										fraction of a water sample.
Uranium	7440-61-1	1.0 µg/l (AA)	1.0 µg/l (AA)	1.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Vanadium	7440-62-2	4.0 µg/l (AA)	4.0 µg/l (AA)	4.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Zinc	7440-66-6	20 µg/l (AA)	20 µg/l (AA)	20 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Organic chemicals (other than defined groups)										
Adsorbable organic halogens (AOX)	-	40 µg/l (AA)	40 µg/l (AA)	40 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2 amino-4-chlorophenol	95-85-2	10 µg/l (AA)	30 µg/l (AA)	30 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Anionic surfactants	-	100 µg/l (AA)	100 µg/l (AA)	100 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Benzal chloride	98-87-3	5.0 µg/l (AA)	5.0 µg/l (AA)	5.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Benzidine	92-87-5	0.6 µg/l (AA) 6 µg/l (MAC)	0.6 µg/l (AA) 6 µg/l (MAC)	0.6 µg/l (AA) 6 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Benzyl chloride	100-44-7	1 µg/l (AA) 10 µg/l (MAC)	1 µg/l (AA) 10 µg/l (MAC)	1 µg/l (AA) 10 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Biphenyl	101-68-8	2.0 µg/l (AA)	2.0 µg/l (AA)	2.0 µg/l (AA)	No value	Not	Not	Not	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		and 10 µg/l (MAC)	and 10 µg/l (MAC)	and 10 µg/l (MAC)		clear	clear	clear		boundary.
Bis(2-chloroisopropyl) ether	39638-32-9	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Chloroacetic acid	79-11-8	0.6 µg/l (AA) 3.0 µg/l (MAC)	0.6 µg/l (AA) 3.0 µg/l (MAC)	0.6 µg/l (AA) 3.0 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2-Chloroaniline, 3-Chloroaniline 4-Chloroaniline	95-51-2, 108-42-9, 106-47-8	∑1.0 µg/l (AA) and ∑= 5.0 µg/l (MAC)	∑1.0 µg/l (AA) and ∑= 5 µg/l (MAC)	∑1.0 µg/l (AA) and ∑= 5.0 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Chlorobenzene	108-90-7	6.0 µg/l (AA) and 40 µg/l (MAC)	6.0 µg/l (AA) and 40 µg/l (MAC)	6.0 µg/l (AA) and 40 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2-chloro-1,3-butadiene	126-99-8	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1-Chloro-2-4-dinitro benzene	97-00-7	5.0 µg/l (AA) and 20 µg/l (MAC)	5.0 µg/l (AA) and 20 µg/l (MAC)	5.0 µg/l (AA) and 20 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2-Chloroethanol	107-07-3	30 µg/l (AA) and 300 µg/l (MAC)	30 µg/l (AA) and 300 µg/l (MAC)	30 µg/l (AA) and 300 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
4-chloro-3-methylphenol	59-50-7	9.0 µg/l (AA) and 90 µg/l (MAC)	9.0 µg/l (AA) and 90 µg/l (MAC)	9.0 µg/l (AA) and 90 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
4-chloro-2-nitroaniline	89-63-4	2.0 µg/l (AA) and 20 µg/l (MAC)	2.0 µg/l (AA) and 20 µg/l (MAC)	2.0 µg/l (AA) and 20 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1-chloro-2-nitrobenzene	88-73-3	∑3 µg/l	∑3 µg/l	∑3 µg/l	No value	Not	Not	Not	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
1-chloro-3-nitrobenzene 1-chloro-4-nitrobenzene	121-73-3 100-00-5	(AA) and ∑= 60µg/l (MAC)	(AA) and ∑= 60µg/l (MAC	(AA) and ∑= 60µg/l (MAC		clear	clear	clear		boundary.
Chloronitrotoluene	-	∑= 3.0 µg/l (AA) and ∑= 040 µg/l (MAC)	∑= 3.0 µg/l (AA) and ∑= 040 µg/l (MAC)	∑= 3.0 µg/l (AA) and ∑= 040 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2-Chlorophenol 3-Chlorophenol 4-Chlorophenol	95-57-8 108-43-0 106-48-9	∑20 µg/l (AA) and ∑= 120 µg/l (MAC)	∑20 µg/l (AA) and ∑= 120 µg/l (MAC)	∑20 µg/l (AA) and ∑= 120 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
3-Chloropropene	107-05-1	3.0 µg/l (AA) and 30 µg/l (MAC)	3.0 µg/l (AA) and 30 µg/l (MAC)	3.0 µg/l (AA) and 30 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2-Chloro-p-toluidine	615-65-6	∑8.0 µg/l (AA) and ∑= 60 µg/l (MAC)	∑8.0 µg/l (AA) and ∑= 60 µg/l (MAC)	∑8.0 µg/l (AA) and ∑= 60 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2 chlorotoluene, 3- chlorotoluene, 4-chlorotoluene	95-49-8, 108-41-8, 106-43-4	∑3.0 µg/l (AA) and ∑= 200 µg/l (MAC)	∑3.0 µg/l (AA) and ∑= 200 µg/l (MAC)	∑3.0 µg/l (AA) and ∑= 200 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,2-Dibromomethane	106-93-4	No value	No value	50 µg/l (AA) and 500 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dichloranilines (2,3-dichlooraniline, 2,4-dichlooraniline, 2,5-dichlooraniline, 2,6-dichlooraniline, 3,4-dichlooraniline , 3,5-dichlooraniline)	608-27-5, 554-00-7, 95-82-9, 608-31-1, 95-76-1, 626-43-7	∑= 0.2 µg/l (AA) and ∑= 0.6 µg/l (MAC)	∑= 0.2 µg/l (AA) and ∑= 0.6 µg/l (MAC)	∑= 0.2 µg/l (AA) and ∑= 0.6 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene	95-50-1, 541-73-1, 106-46-7	∑20 µg/l (AA) and ∑= 70µg/l (MAC)	∑20 µg/l (AA) and ∑= 70µg/l (MAC)	∑20 µg/l (AA) and ∑= 70µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dichlorobenzidines	1331-47-1	0.5 µg/l (AA)	0.5 µg/l (AA)	0.5 µg/l (AA)	No value	Not	Not	Not	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		and 5 µg/l (MAC)	and 5 µg/l (MAC)	and 5 µg/l (MAC)		clear	clear	clear		boundary.
1,1-Dichloroethane	75-34-3	100 µg/l (AA) and 8000 µg/l (MAC)	100 µg/l (AA) and 8000 µg/l (MAC)	100 µg/l (AA) and 8000 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,2-Dichloroethene (cis and trans)	540-59-0	∑10 µg/l (AA) and ∑= 100 µg/l (MAC)	∑10 µg/l (AA) and ∑= 100 µg/l (MAC)	∑10 µg/l (AA) and ∑= 100 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,1-Dichloroethylene (Viylidenechloride)	75-35-4	50 µg/l (AA) and 500 µg/l (MAC)	50 µg/l (AA) and 500 µg/l (MAC)	50 µg/l (AA) and 500 µg/l (MAC)	50 µg/l (AA) and 500 µg/l (MAC)	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dichloronitrobenzene	-	3.0 µg/l (AA) and 60 µg/l (MAC)	3.0 µg/l (AA) and 60 µg/l (MAC)	3.0 µg/l (AA) and 60 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2,4-Dichlorophenol	120-83-2	∑20 µg/l (AA) and ∑= 200 µg/l (MAC)	∑20 µg/l (AA) and ∑= 200 µg/l (MAC)	∑20 µg/l (AA) and ∑= 200 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,2-Dichloropropane	78-87-5	∑400 µg/l (AA) and ∑= 1000 µg/l (MAC)	∑400 µg/l (AA) and ∑= 1000 µg/l (MAC)	∑400 µg/l (AA) and ∑= 1000 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,3-Dichloro-2-propanol	96-23-1	∑100 µg/l (AA) and ∑= 2000 µg/l (MAC)	∑100 µg/l (AA) and ∑= 2000 µg/l (MAC)	∑100 µg/l (AA) and ∑= 2000 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,3-Dichloropropene (cis and trans)	542-75-6	∑2.0 µg/l (AA) and ∑= 20 µg/l (MAC)	∑2.0 µg/l (AA) and ∑= 20 µg/l (MAC)	∑2.0 µg/l (AA) and ∑= 20 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2,3-Dichloropropene	78-88-6	∑2.0 µg/l (AA) and	∑2.0 µg/l (AA) and	∑2.0 µg/l (AA) and	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		∑= 20 µg/l (MAC)	∑= 20 µg/l (MAC)	∑= 20 µg/l (MAC)						
Diethylamine	109-89-7	30 µg/l (AA) and 200 µg/l (MAC)	30 µg/l (AA) and 200 µg/l (MAC)	30 µg/l (AA) and 200 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dimethylamine	124-40-3	6.0 µg/l (AA) and 80 µg/l (MAC)	6.0 µg/l (AA) and 80 µg/l (MAC)	6.0 µg/l (AA) and 80 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Epichlorohydrin	106-89-8	10 µg/l (AA) and 100 µg/l (MAC)	10 µg/l (AA) and 100 µg/l (MAC)	10 µg/l (AA) and 100 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Ethyl benzene	100-41-4	5.0 µg/l (AA) and 50 µg/l (MAC)	5.0 µg/l (AA) and 50 µg/l (MAC)	5.0 µg/l (AA) and 50 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Hexachloroethane	67-72-1	3.0 µg/l (AA) 80 µg/l (MAC)	3.0 µg/l (AA) 80 µg/l (MAC)	3.0 µg/l (AA) 80 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Isopropylbenzene	103-65-1	1.0 µg/l (AA) 10 µg/l (MAC)	1.0 µg/l (AA) 10 µg/l (MAC)	1.0 µg/l (AA) 10 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Non-ionic and cationic surfactants	-	1000 µg/l (AA)	1000 µg/l (AA)	1000 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,2,4,5-tetrachloro benzene	95-94-3	9.0 µg/l (AA) and 30 µg/l (MAC)	9.0 µg/l (AA) and 30 µg/l (MAC)	9.0 µg/l (AA) and 30 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,1,2,2-tetrachloroethane	79-34-5	100 µg/l (AA) and 900 µg/l (MAC)	100 µg/l (AA) and 900 µg/l (MAC)	100 µg/l (AA) and 900 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Toluene	**108-88-3**	90 µg/l (AA) and 700 µg/l (MAC)	90 µg/l (AA) and 700 µg/l (MAC)	90 µg/l (AA) and 700 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Tributyl phosphate	126-73-8	40 µg/l (AA)	40 µg/l (AA)	40 µg/l (AA)	No value	Not	Not	Not	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		and 100 µg/l (MAC)	and 100 µg/l (MAC)	and 100 µg/l (MAC)		clear	clear	clear		boundary.
Trichloroacetaldehyde	75-87-6	500 µg/l (AA) and 5000 µg/l (MAC)	500 µg/l (AA) and 5000 µg/l (MAC)	500 µg/l (AA) and 5000 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,1,1-trichloroethane	71-55-6	100 µg/l (AA) and 800 µg/l (MAC)	100 µg/l (AA) and 800 µg/l (MAC)	100 µg/l (AA) and 800 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,1,2-trichloroethane	79-00-5	300 µg/l (AA) and 800 µg/l (MAC)	300 µg/l (AA) and 800 µg/l (MAC)	300 µg/l (AA) and 800 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2,3,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,3,4-Trichlorophenol 2,3,6-Trichlorophenol 3,4,5-Trichlorophenol	933-78-8, 88-06-2, 95-95-4 15950-66-0, 933-75-5, 609-19-8	∑6.0 µg/l (AA) and ∑= 20µg/l (MAC)	∑6.0 µg/l (AA) and ∑= 20µg/l (MAC)	∑6.0 µg/l (AA) and ∑= 20µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2,4,6-Trichloro-s-triazine	108-77-0	0.1 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1,1,2- trichlorotrifluoro ethane	76-13-1	7.0 µg/l (AA) and 70 µg/l (MAC)	7.0 µg/l (AA) and 70 µg/l (MAC)	7.0 µg/l (AA) and 70 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Vinyl chloride	75-01-4	100 µg/l (AA) and 1000 µg/l (MAC)	100 µg/l (AA) and 1000 µg/l (MAC)	100 µg/l (AA) and 1000 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Xylene (m-,o-,p-)	1330-20-7	4.0 µg/l (AA) and 40 µg/l (MAC)	4.0 µg/l (AA) and 40 µg/l (MAC)	4.0 µg/l (AA) and 40 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Pesticides										

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Azinphos ethyl	2642-71-9	0.01 µg/l (AA) and 0.1 µg/l (MAC)	0.01 µg/l (AA) and 0.1 µg/l (MAC)	0.01 µg/l (AA) and 0.1 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Azinphos methyl	86-50-0	0.002 µg/l (AA) and 0.01 µg/l (MAC)	0.002 µg/l (AA) and 0.01 µg/l (MAC)	0.002 µg/l (AA) and 0.01 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Bentazone	25057-89-0	50 µg/l (AA) and 500 µg/l (MAC)	50 µg/l (AA) and 500 µg/l (MAC)	50 µg/l (AA) and 500 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Chlordane (cis and trans)	57-74-9	∑= 0,002 µg/l (AA) and ∑= 0,04 µg/l (MAC)	∑= 0,002 µg/l (AA) and ∑= 0,04 µg/l (MAC)	∑= 0,002 µg/l (AA) and ∑= 0,04 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Coumaphos	56-72-4	0.001 µg/l (AA) and 0.01 µg/l (MAC)	0.001 µg/l (AA) and 0.01 µg/l (MAC)	0.001 µg/l (AA) and 0.01 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Demeton	8065-48-3	0.05 µg/l (AA) and 0.5 µg/l (MAC)	0.05 µg/l (AA) and 0.5 µg/l (MAC)	0.05 µg/l (AA) and 0.5 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dibutyltin chloride Dibutyltin oxide	683-18-1 818-08-6	∑= 0,08 µg/l (AA) and ∑= 0,7 µg/l (MAC)	∑= 0,08 µg/l (AA) and ∑= 0,7 µg/l (MAC)	∑= 0,08 µg/l (AA) and ∑= 0,7 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2,4 Dichlorophenoxy acetic acid (2,4 D)	94-75-7	20 µg/l (AA) and 200 µg/l (MAC)	20 µg/l (AA) and 200 µg/l (MAC)	20 µg/l (AA) and 200 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dichloroprop	120-36-5	20 µg/l (AA) and	20 µg/l (AA) and	20 µg/l (AA) and	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		200 µg/l (MAC)	200 µg/l (MAC)	200 µg/l (MAC)						
Dichlorvos	62-73-7	0.0007 µg/l (AA) and 0.007 µg/l (MAC)	0.0007 µg/l (AA) and 0.007 µg/l (MAC)	0.0007 µg/l (AA) and 0.007 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dimethoate	60-51-5	0.02 µg/l (AA) and 0.2 µg/l (MAC)	0.02 µg/l (AA) and 0.2 µg/l (MAC)	0.02 µg/l (AA) and 0.2 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Disulfoton	298-04-4	0.01 µg/l (AA) and 0.07 µg/l (MAC)	0.01 µg/l (AA) and 0.07 µg/l (MAC)	0.01 µg/l (AA) and 0.07 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Fenitrothion	122-14-5	0.0009 µg/l (AA) and 0.002 µg/l (MAC)	0.0009 µg/l (AA) and 0.002 µg/l (MAC)	0.0009 µg/l (AA) and 0.002 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Fenthion	55-38-9	0,0002 µg/l (AA) and 0.002 µg/l (MAC)	0,0002 µg/l (AA) and 0.002 µg/l (MAC)	0,0002 µg/l (AA) and 0.002 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Heptachlor Heptachlor epoxide	76-44-8 1024-57-3	∑= 0,009 µg/l (AA) and ∑= 0,09 µg/l (MAC)	∑= 0,009 µg/l (AA) and ∑= 0,09 µg/l (MAC)	∑= 0,009 µg/l (AA) and ∑= 0,09 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Linuron	330-55-2	0.3 µg/l (AA) and 0.7 µg/l (MAC)	0.3 µg/l (AA) and 0.7 µg/l (MAC	0.3 µg/l (AA) and 0.7 µg/l (MAC	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Malathion	121-75-5	0.0008 µg/l (AA) and 0.003 µg/l	0.0008 µg/l (AA) and 0.003 µg/l	0.0008 µg/l (AA) and 0.003 µg/l	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(MAC)	(MAC)	(MAC)						
2-Methyl-4chlorophenoxy acetic acid's (MCPA)	94-74-6	0.7 µg/l (AA) and 20 µg/l (MAC)	0.7 µg/l (AA) and 20 µg/l (MAC)	0.7 µg/l (AA) and 20 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Mecoprop	93-65-2	10 µg/l (AA) and 40 µg/l (MAC)	10 µg/l (AA) and 40 µg/l (MAC)	10 µg/l (AA) and 40 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Methamidophos	10265-92-6	0.3 µg/l (AA) and 3.0 µg/l (MAC)	0.3 µg/l (AA) and 3.0 µg/l (MAC)	0.3 µg/l (AA) and 3.0 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Mevinphos	7786-34-7	0.002 µg/l (AA) and 0.02 µg/l (MAC)	0.002 µg/l (AA) and 0.02 µg/l (MAC)	0.002 µg/l (AA) and 0.02 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Monolinuron	1746-81-2	0.3 µg/l (AA) and 10 µg/l (MAC)	0.3 µg/l (AA) and 10 µg/l (MAC)	0.3 µg/l (AA) and 10 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Omethoate	1113-02-6	0.02 µg/l (AA) and 0.2 µg/l (MAC)	0.02 µg/l (AA) and 0.2 µg/l (MAC)	0.02 µg/l (AA) and 0.2 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Oxydemeton-methyl	301-12-2	0.4 µg/l (AA) and 4.0 µg/l (MAC)	0.4 µg/l (AA) and 4.0 µg/l (MAC)	0.4 µg/l (AA) and 4.0 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary
Parathion-ethyl	56-38-2	0.0002 µg/l (AA) and 0.004 µg/l (MAC)	0.0002 µg/l (AA) and 0.004 µg/l (MAC)	0.0002 µg/l (AA) and 0.004 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Parathion-methyl	298-00-0	0.01 µg/l (AA) and 0.02 µg/l (MAC)	0.01 µg/l (AA) and 0.02 µg/l (MAC)	0.01 µg/l (AA) and 0.02 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Phoxim	14816-18-3	0.02 µg/l (AA) and 0.2 µg/l (MAC)	0.02 µg/l (AA) and 0.2 µg/l (MAC)	0.02 µg/l (AA) and 0.2 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Propanil	709-98-8	0.2 µg/l (AA) and 3.0 µg/l (MAC)	0.2 µg/l (AA) and3.0 µg/l (MAC)	0.2 µg/l (AA) and 3.0 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Pyrazon	1698-60-8	10 µg/l (AA) and 20 µg/l (MAC)	10 µg/l (AA) and 20 µg/l (MAC)	10 µg/l (AA) and 20 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Tetrabutyl tin	1461-25-2	0.012 µg/l (AA) and 0.12 µg/l (MAC)	0.012 µg/l (AA) and 0.12 µg/l (MAC)	0.012 µg/l (AA) and 0.12 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Triazophos	24017-47-8	0.03 µg/l (AA)	0.03 µg/l (AA)	0.03 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Trichlorfon	52-68-6	0.001 µg/l (AA) and 0.01 µg/l (MAC)	0.001 µg/l (AA) and 0.01 µg/l (MAC	0.001 µg/l (AA) and 0.01 µg/l (MAC	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
2,4,5 Trichlorophenoxy acetic acid (2,4,5-T)	93-76-5	2.0 µg/l (AA) and 20 µg/l (MAC)	2.0 µg/l (AA) and 20 µg/l (MAC)	2.0 µg/l (AA) and 20 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Triphenyl-tinacetate Triphenyltin chloride Triphenyltin hydroxide	900-95-8 639-58-7 76-87-9	∑= 0,0003 µg/l (AA) and ∑= 0,003 µg/l (MAC)	∑= 0,0003 µg/l (AA) and ∑= 0,003 µg/l (MAC)	∑= 0,0003 µg/l (AA) and ∑= 0,003 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons										

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Acenaphthene	83-32-9	0.06 µg/l (AA)	0.06 µg/l (AA)	0.06 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Acenaphthylene	208-96-8	No value	4.0 µg/l (AA)	No value	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Benzo(a)anthracene	56-55-3	0.3 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
1-Chloronaphthalene 2-Chloronaphthalene	90-13-1 91-58-7	∑1.0 µg/l (AA) and ∑= 40µg/l (MAC	∑1.0 µg/l (AA) and ∑= 40µg/l (MAC	∑1.0 µg/l (AA) and ∑= 40µg/l (MAC	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Chrysene	218-01-9	1.0 µg/l (AA)	1.0 µg/l (AA)	1.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Dibenz(a,h)anthracene	53-70-3	0.5 µg/l (AA)	0.5 µg/l (AA)	0.5 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Fluorene	86-73-7	2.0 µg/l (AA)	2.0 µg/l (AA)	2.0 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Phenanthrene	85-01-8	0.1 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Pyrene	129-00-0	0.04 µg/l (AA)	0.04 µg/l (AA)	0.04 µg/l (AA)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.
Polychlorinated biphenyls										
Polychlorinated biphenyls: PCB 28 PCB 52 PCB 101 PCB 118 PCB 138 PCB 153 PCB 180	7012-37-5 35693-99-3 37680-73-2 31508-00-6 - 35065-27-1 35065-29-3	∑= 0,002 µg/l (AA) and ∑= 0,02 µg/l (MAC)	∑= 0,002 µg/l (AA) and ∑= 0,02 µg/l (MAC)	∑= 0,002 µg/l (AA) and ∑= 0,02 µg/l (MAC)	No value	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.

Notes: AA= Annual Average**,** MAC= Maximum Allowable Concentration

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS$_{sediment}$ for inland waters	EQS$_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	EQS$_{sediment}$ for inland waters	EQS$_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	
Metals and metalloids								
Copper	7440-50-8	No value	27 mg/kg dw (AA)	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.
Zinc	7440-66-6	No value	122 mg/kg dw (AA)	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.
Polychlorinated biphenyls								
PCBs (total)	-	No value	0.46 mg/kg dw (AA)	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.

Note: AA= Annual Average

Biota EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS biota	EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6	Comments
Polychlorinated biphenyls				
PCBs (total)	-	0.0046 mg/kg ww (CW)	Not clear	EQS for the Good/Moderate boundary.

Note: CW = Coastal waters

Table A3 River Basin Specific Pollutant Summary Sheet for Bulgaria (BG)

Member State:	Bulgaria
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from an adapted version of Bulgarian Regulation 7/86 (1986)
Information on the application of the Specific Pollutants	The same specific pollutants have not been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Danube (BG1000), the Black Sea (BG2000), the East Aegean (BG3000) and the West Aegean (BG4000). At present Bulgaria has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic substances										
Ammonia-unionised	-	2.0 µg/l	2.0 µg/l	No value	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Metals and metalloids										
Arsenic	7440-38-2	10-20 µg/l	10-20 µg/l	20 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Chromium (III and VI)	7440-47-3	100 µg/l	100 µg/l	No value	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Chromium (III)	-	20 µg/l	20 µg/l	20 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Chromium (VI)	-	100 µg/l	100 µg/l	100 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Copper	7440-50-8	5.0-112 µg/l	5.0-112 µg/l	5-112 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary. EQS for rivers and lakes depend on water hardness as follows: 5 µg/l (<10 mg $CaCO_3$/l as annual mean) 22 µg/l (10-50 mg $CaCO_3$/l as annual mean) 40 µg/l (>50-100 mg $CaCO_3$/l as annual mean) 112 µg/l (100-300 mg $CaCO_3$/l as annual mean)
Iron	7439-89-6	500 µg/l	500 µg/l	No value	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Manganese	7439-96-5	100 µg/l	100 µg/l	No value	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Vanadium	7440-62-2	No value	No value	10 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary
Zinc	7440-66-6	30-1000	30-1000	30-1000	No value	No	No	No	No	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		µg/l	µg/l	µg/l						boundary. EQS for rivers and lakes depend on water hardness as follows: 30 µg/l (<10 mg $CaCO_3$/l as annual mean) 200 µg/l (10-50 mg $CaCO_3$/l as annual mean) 300 µg/l (>50-100 mg $CaCO_3$/l as annual mean) 500 µg/l (100-500 mg $CaCO_3$/l as annual mean)
Organic chemicals (other than defined groups)										
Bromoform	75-25-2	1000 µg/l	No value	No value	No value	No	No	No	No	EQS for the Good/Moderate boundary.
1,2-Dichlorobenzene	95-50-1	10 µg/l	No value	10 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
1,4-Dichlorobenzene	106-46-7	No value	No value	20 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Dichlorodifluoromethane (Freon)	-	10 µg/l	No value	10 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Phenol (petroleum)	64743-03-9	10 µg/l	10 µg/l	10 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Pesticides										
Ametryn	834-12-8	0.1 µg/l	0.1 µg/l	0.1 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Prometryn	7287-19-6	1.0 µg/l	1.0 µg/l	1.0 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Propazine	139-40-2	0.25 µg/l	0.25 µg/l	0.25 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Terbutryn	886-50-0	0.01 µg/l	0.01 µg/l	0.01 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons										
Benzo(a)anthracene	56-55-3	No value	No value	10 µg/l	No value	No	No	No	No	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										boundary.
Phenanthrene	85-01-8	No value	No value	1,3 µg/l	No value	No	No	No	No	EQS for the Good/Moderate boundary.
Polychlorinated biphenyls										
PCBs (total)	1336-36-3	0.0005 µg/l	No value	No value	No value	No	No	No	No	EQS for the Good/Moderate boundary.

Notes: PCBs (total) relates to numbers 28, 52, 101, 138, 153, 180

Table A4 River Basin Specific Pollutant Summary Sheet for Cyprus (CY)

Member State:	Cyprus
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	At present Cyprus has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic	7440-38-2	No value	50 µg/l (AA)	No value	No value	-	Not clear	-	-	EQS for the Good/Moderate boundary.
Boron	7440-42-8	1000 µg/l (AA)	1000 µg/l (AA)	No value	No value	-	Not clear	-	-	EQS for the Good/Moderate boundary.
Chromium (III and VI)	7440-47-3	No value	50 µg/l (AA)	No value	No value	-	Not clear	-	-	EQS for the Good/Moderate boundary.
Copper	7440-50-8	60 µg/l (AA)	80 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Iron	7439-89-6	No value	1000 µg/l (AA)	No value	No value	-	Not clear	-	-	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	1100 µg/l (AA)	1300 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Notes: AA = Annual Average

Table A5 River Basin Specific Pollutant Summary Sheet for the Czech Republic (CZ)

Member State:	Czech Republic
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants are in many instances those from the Government Regulation 61/2003 and from German literature - Anhang A4-1: Umweltqualitatnormen fur Schadstoffe zur Beurteilung des okologischen Zustands/Potenzials (http://www.mugv.brandenburg.de/w/WRRL_2009/BWP_Oder/National/Anhaenge_Karten/Anhang_A4-1.pdf).
Information on the application of the Specific Pollutants	The same specific pollutants have been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Danube (CZ_RB_1000), the Elbe (CZ_RB_5000) and the Oder (CZ_RB_6000). Water column EQS values have only been derived for inland waters (i.e. rivers and lakes). No EQS have been derived for transitional and coastal waters as the Czech Republic is land-locked. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic (non-metallic substances)										
Cyanide (ion)	57-12-5	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Cyanide (total)	57-12-5	300 µg/l (AA)	300 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Fluorides	-	800 µg/l (AA)	800 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Hydrogen sulphide	7783-06-4	50 µg/l	50 µg/l	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Metals and metalloids										
Aluminium	7429-90-5	1000 µg/l (AA)	1000 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Antimony	7440-36-0	250 µg/l (AA)	250 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Arsenic	7440-38-2	11 µg/l (AA)	11 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Barium	7440-39-3	180 µg/l (AA)	180 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Beryllium	7440-41-7	0.5 µg/l (AA)	0.5 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Boron	7440-42-8	300 µg/l (AA)	300 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chromium	7440-47-3	18 µg/l (AA)	18 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Cobalt	7440-48-4	3.0 µg/l (AA)	3.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Copper	7440-50-8	14 µg/l (AA)	14 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Iron	7439-86-6	1000 µg/l (AA)	1000 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Manganese	7439-96-5	300 µg/l (AA)	300 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Molybdenum (Molybdate)	14259-85-9	18 µg/l (AA)	18 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Selenium	7782-49-2	2.0 µg/l (AA)	2.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Silver	7440-22-4	3.5 µg/l (AA)	3.5 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Tin	7440-31-5	25 µg/l (AA)	25 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Uranium	7440-61-1	24 µg/l (AA)	24 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Vanadium	7440-62-2	18 µg/l (AA)	18 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	92 µg/l (AA)	92 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
Adsorbable organic halides (AOX)	59473-04-0	25 µg/l (AA)	25 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Alkylbenzene sulphonates (MBAS)		300 µg/l (AA)	300 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Aminomethyl phosphonic acid(AMPA)	1066-51-9	250 µg/l (AA)	250 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Aniline	62-53-3	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Bisphenol A	80-05-7	0.035 µg/l (AA)	0.035 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chlorobenzene	108-90-7	1.0 µg/l (AA)	1.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Bis(1,3 - dichlor-2-prophyl) ether	63283-80-7	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Bis(2,3 - dichlor-1-prophyl) ether	7774-68-7	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
3,4-Dichloroaniline	95-76-1	0.2 µg/l (AA)	0.2 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
cis-1,2-Dichloroethylene	156-59-2	1.0 µg/l	1.0 µg/l	Not relevant	Not	from	from	Not relevant	Not	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA)	(AA)		relevant	C90	C90		relevant	boundary.
Dichlorobenzenes (total)	25321-22-6	0.25 µg/l (AA)	0.25 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary. Sum of 1,2 dichlorobenzene,1,3-dichlorobenzene and 1,4-dichloro-benzene
2,4-Dichlorophenol	120-83-2	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,3 - Dichlor-2-prophyl (2,3-dichlor-1-prophyl) ether	59440-90-3	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Ethylbenzene	100-41-4	1.0 µg/l (AA)	1.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Ethylenediaminetetraacetic acid (EDTA)	60-00-04	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Galaxolide	1222-05-5	6.8 µg/l (AA)	6.8 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Isopropylbenzene	98-82-8	0.7 µg/l (AA)	0.7 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Nitrobenzene	98-95-3	3.0 µg/l (AA)	3.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Nitrilotriacetic acid (NTA)	139-13-9	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	25 µg/l (AA)	25 µg/l (AA)	Not relevant	Not relevant	UK	UK	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Phenols index (volatilization with water vapour)	D01063600	3.0 µg/l (AA)	3.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,3-Propylenediamineterta acetic acid	1939-36-2	10 µg/l (AA)	10 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,2,4,5-Tetrachlorobenzene	95-94-3	0.32 µg/l (AA)	0.32 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Toluene	108-88-3	5.0 µg/l (AA)	5.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Tonalide	21145-77-7	3.5 µg/l (AA)	3.5 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Trans-1,2-Dichloro ethylene's	156-60-5	6.8 µg/l (AA)	6.8 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Tributylstannan	688-73-3	0.0005 µg/l (AA)	0.0005 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Tri(phenyl)stannanylium	668-34-8	0.0002 µg/l (AA)	0.0002 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Vinylchloride	75-01-4	1.0 µg/l (AA)	1.0 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
o-Xylene	95-47-6	3.2 µg/l (AA)	3.2 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
m & *p* Xylene	108-38-3 and 106-42-3	4.0 µg/l (AA)	4.0 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Pesticides										
Acetochlor and metabolites	34256-82-1	0.4 µg/l (AA)	0.4 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Alachlor metabolites	15972-60-8/ 159722-60-8	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Bentazon	25057-89-0	4.5 µg/l (AA)	4.5 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chlortoluron	15545-48-9	0.4 µg/l (AA)	0.4 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Desethyl atrazine	6190-65-4	0.3 µg/l (AA)	0.3 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,4 Dichlorophenoxy acetic acid (2,4-D)	94-75-7	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Dichlorprop	120-36-5	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Dimethachlor	50563-36-5	0.09 µg/l (AA)	0.09 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Epoxiconazol	133855-98-8	0.4 µg/l (AA)	0.4 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Fenitrothion	122-14-5	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Fenthion	55-38-9	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Glyphosate	1071-83-6	36 µg/l (AA)	36 µg/l (AA)	Not relevant	Not relevant	Annex V WFD	Annex V WFD	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Hexazinone	51235-04-2	0.048 µg/l (AA)	0.048 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Malathion	121-75-5	0.01 µg/l (AA)	0.01 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Mecoprop	93-65-2	0.1 µg/l (AA	0.1 µg/l (AA	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Mecoprop-P	16484-77-8	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Metazachlor	67129-08-2	0.4 µg/l (AA)	0.4 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2-Methyl-4-chlorophenoxy acetic acid's (MCPA)	94-74-6	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2-Methyl-4-chlorophenoxy butyric acid (MCPB)	94-81-5	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Metolachlor and metabolites	51218-45-2	0.2 µg/l (AA)	0.2 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Parathion-ethyl	56-38-2	0.002 µg/l (AA)	0.002 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Parathion-methyl	298-00-0	0.005 µg/l (AA)	0.005 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Terbuthylazine and metabolites	5915-41-3	0.5 µg/l (AA)	0.5 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Terbutryn	886-50-0	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	D	D	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons										

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Polycyclic aromatic hydrocarbons	-	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Benz(a)anthracene	56-55-3	0.03 µg/l (AA)	0.03 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chrysene	218-01-9	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Dibenz(a,h)anthracene	53-70-3	0.016 µg/l (AA)	0.016 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Fluorene	**86-73-7**	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Hydrocarbons C_{10}-C_{40}	98072-48-1	0.1 µg/l (AA)	0.1 µg/l (AA)	Not relevant	Not relevant	from GR 61/03	from GR 61/03	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Phenanthrene	85-01-8	0.03 µg/l (AA)	0.03 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Pyrene	129-00-0	0.024 µg/l (AA)	0.024 µg/l (AA)	Not relevant	Not relevant	RBMP	RBMP	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Polychlorinated biphenyls										
Polychlorinated biphenyls (total)	1336-36-3	0.007 µg/l (AA)	0.007 µg/l (AA)	Not relevant	Not relevant	from C90	from C90	Not relevant	Not relevant	EQS for the Good/Moderate boundary. Sum PCBs: PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153 and PCB 180.

Notes: AA Annual Average
C90 EQS annual average derived from 90 percentiles in the Government Regulation 61/2003 (as amended)
GR 61/03 EQS from Government Regulation 61/2003
D EQS from German literature - Anhang A4-1: Umweltqualitatnormen fur Schadstoffe zur Beurteilung des okologischen Zustands/Potenzials (http://www.mugv.brandenburg.de/w/WRRL_2009/BWP_Oder/National/Anhaenge_Karten/ Anhang_A4-1.pdf)
MBAS Methylene Blue Active Substances
RBMP EQS taken from National Guideline for First River Basin Management Plans Preparation – ecological status evaluation.
UK EQS from Environmental Agency, UK 2004. Brooke, D. et all study: Environmental risk evaluation report perfluorooctanesulphonate.

Table A6 River Basin Specific Pollutant Summary Sheet for Denmark (DK)

Member State:	Denmark
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear. The values given are from a Document – Hazardous substances in monitoring of ground water, fresh water and marine areas (Draft, 1/7/2009)
Information on the application of the Specific Pollutants	No River Basin Management Plans were available for review.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Organic chemicals (other than defined groups)										
(Aminomethyl)phosphonic acid	1066-51-9	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Linear alkylbenzyl sulphonate (LAS)	42615-29-2	2.0 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
(Tert-Butyl)methylether (MTBE)	1634-04-4	4.0 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Nitrophenol	100-02-7	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Nonylphenol-monoethoxylate	-	0.05 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Nonylphenol-diethoxylate	-	0.05 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Trichloroacetic acid (TCA)	76-03-9	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pesticides										
Atrazine-deisopropyl	1007-28-9	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Bentazon	25057-89-0	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Chlor-4,6,-diamino-1,3,5-triazine	3397-62-4	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,6-Dichlorobenzamide	2008-58-4	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Glyphosate	1071-83-6	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Hydroxyatrazine	2163-68-0	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-methyl-4 choro phenoxyacetic acids (MCPA)	94-74-6	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Mecoprop	93-65-2	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2-Methyl-4,6-dinitrophenol (DNOC)	534-52-1	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pendimethalin	40487-42-1	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Prosulfocarb	52888-80-9	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Terbuthylazin	5915-41-3	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Terbuthylazin-desethyl	30125-63-4	0.01 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons										
Acenaphthylene	208-96-8	0.1 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Benz(a)anthracene	56-55-3	0.001 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chrysene	218-01-9	0.001 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dibenzo(a,h)anthracene	53-70-3	0.0001 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Fluorene	86-73-7	0.2 µg/l	No value	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		$EQS_{sediment}$ for rivers	EQSsediment for lakes	EQSsediment for marine water	$EQS_{sediment}$ for rivers	$EQS_{sediment}$ for lakes	EQSsediment for marine water	
Metals and metalloids								
Aluminium	7429-90-5	No value	1000 mg/kg TS	1000 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Arsenic	7440-38-2	No value	0.2 mg/kg TS	0.1 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Chromium	7440-47-3	1.0 mg/kg TS	1.0 mg/kg TS	1.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Copper	7440-50-8	0.2 mg/kg TS	0.2 mg/kg TS	0.5 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Lithium	7439-93-2	No value	1.0 mg/kg TS	1.0 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Zinc	7440-66-6	0.5 mg/kg TS	0.5 mg/kg TS	5.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Organic chemicals (other than defined groups)								
Nonylphenol monoethoxylate	-	No value	1.0 mg/kg TS	1.0 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Nonylphenol diethoxylate	-	No value	1.0 mg/kg TS	1.0 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Pesticides								
Butyltin compounds	-	1.0 ngSn/kg TS	1.0 ngSn/kg TS	1.0 ngSn/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dibutyltin compounds	1002-53-5	1.0 ngSn/kg TS	1.0 ngSn/kg TS	1.0 ngSn/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Cypermethrin	52315-07-8	0.001 mg/kg TS	0.001 mg/kg TS	No value	Not clear	Not clear	-	EQS for the Good/ Moderate boundary.
Tau-fluvalinate	-	0.002 mg/kg TS	0.002 mg/kg TS	No value	Not clear	Not clear	-	EQS for the Good/ Moderate boundary.
Triphenyltin compounds	-	5.0 ngSn/kg TS	5.0 ngSn/kg TS	5.0 ngSn/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons								
Acenaphthene	83-32-9	No value	0.5 mg/kg TS	0.5 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Acenaphthyelene	208-96-8	0.5 mg/kg TS	0.5 mg/kg TS	0.5 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS$_{sediment}$ for rivers	EQSsediment for lakes	EQSsediment for marine water	EQS$_{sediment}$ for rivers	EQS$_{sediment}$ for lakes	EQSsediment for marine water	
Benzo(a)anthracene	56-55-3	10 mg/kg TS	10 mg/kg TS	10 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Benzo(a)fluoranthene	238-84-6	0.5 mg/kg TS	0.5 mg/kg TS	0.5 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Benzo(b,j,k)fluoranthene	-	2.0 mg/kg TS	2.0 mg/kg TS	2.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Benzo(e)pyrene	192-97-2	1.0 mg/kg TS	1.0 mg/kg TS	1.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Chrysene	218-01-9	10 mg/kg TS	10 mg/kg TS	10 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dibenzo(a,h)anthracene	53-70-3	1.0 mg/kg TS	1.0 mg/kg TS	1.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dibenzothiophene	132-65-0	2.0 mg/kg TS	2.0 mg/kg TS	2.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dimethylnaphthalene		No value	1.0 mg/kg TS	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.
3,6-Dimethylphenanthrene	1576-76-6	1.0 mg/kg TS	1.0 mg/kg TS	1.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Fluorene	86-73-7	2.0 mg/kg TS	2.0 mg/kg TS	2.0 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1-methylnaphthalene	90-12-0	No value	0.5 mg/kg TS	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.
2-methylnaphthalene	91-57-6	No value	0.5 mg/kg TS	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.
2-methylphenanthrene	2531-84-2	0.5 mg/kg TS	0.5 mg/kg TS	0.5 mg/kg TS	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1-methylpyrene	2381-21-7	No value	0.5 mg/kg TS	0.5 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-methylpyrene	3442-78-2	No value	0.5 mg/kg TS	No value	-	Not clear	-	EQS for the Good/ Moderate boundary.
Perylene	198-55-0	No value	0.5 mg/kg TS	0.5 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Phenanthrene	85-01-8	No value	3.0 mg/kg TS	3.0 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Pyrene	129-00-0	No value	10 mg/kg TS	10 mg/kg TS	-	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Biota EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS_{biota} for marine waters	EQS_{biota} derived using the procedure in WFD Annex V 1.2.6	Comments
Metals and metalloids				
Chromium	7440-47-3	0.05 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Copper	7440-50-8	0.2 mg/kg VV (Bivalves) 0.2 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Silver	7440-22-4	0.05 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	0.5 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)				
Perflurodecanoic acid (PFDA)	335-76-2	0.0008 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Perfluorohexane sulfonate (PFHxS)	432-50-7	0.0008 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Perfluorononanoic acid (PFNA)	375-95-1	0.0014 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Perfluorooctane sulfonamide (PFOSA)	4151-50-2	0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Perfluorooctane sulfonate (PFOS)	1763-23-1	0.0002 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Perfluorooctanoic acid (PFOA)	335-67-1	0.0012 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Perfluoroundecanoic acid (PFUnA)	2058-94-8	0.0007 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
Pesticides				
Butyltin compounds	-	0.001 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Dibutyltin compounds	1002-53-5	0.001 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Triphenyltin compounds	-	0.002 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons				
Acenaphthene	83-32-9	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Acenaphthyelene	208-96-8	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Benzo(a)anthracene	56-55-3	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Benzo(a)fluoranthene	238-84-6	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Benzo(b,j,k)fluoranthene	-	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Benzo(e)pyrene	192-97-2	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Chrysene	218-01-9	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS_{biota} for marine waters	EQS_{biota} derived using the procedure in WFD Annex V 1.2.6	Comments
Dibenzo(a,h)anthracene	53-70-3	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Dibenzothiophene	132-65-0	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
3,6-Dimethylphenanthrene	1576-76-6	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Fluorene	86-73-7	0.0005 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
2-methylphenanthrene	2531-84-2	0.0002 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
1-methylpyrene	2381-21-7	0.0002 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Perylene	198-55-0	0.0002 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Phenanthrene	85-01-8	0.001 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Pyrene	129-00-0	0.001 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.
Polychlorinated biphenyls. dioxans and furans				
1234678-HpCDD	35822-46-9	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
1234678-HpCDF	67562-39-4	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
1234789-HpCDF	55673-89-7	0.0002 µg/kg VV (Bivalves) 0.0008 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
123478-HxCDD	39227-28-6	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
123678-HxCDD	57653-85-7	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
123789-HxCDD	19408-74-3	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
123478-HxCDF	70648-26-9	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
123678-HxCDF	57117-44-9	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
123789-HxCDF	72918-21-9	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
234678-HxCDF	60851-34-5	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
OCDD	3268-87-9	0.0002 µg/kg VV (Bivalves) 0.0008 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
OCDF	39001-02-0	0.0003 µg/kg VV (Bivalves) 0.0012 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-28	7012-37-5	0.00002 mg/kg VV (Bivalves) 0.0002 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-31	16606-02-3	0.00002 mg/kg VV (Bivalves) 0.0002 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-52	35693-99-3	0.00002 mg/kg VV (Bivalves)	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS_{biota} for marine waters	EQS_{biota} derived using the procedure in WFD Annex V 1.2.6	Comments
		0.0002 mg/kg VV (Fish)		
PCB-101	37680-37-2	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-105	32598-14-4	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-118	31508-00-6	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-138	35065-27-1	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-153	35065-27-1	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-156	38380-08-4	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
PCB-180	35065-29-3	0.00005 mg/kg VV (Bivalves) 0.0005 mg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
12378-PeCDD	40321-76-4	0.00005 µg/kg VV (Bivalves) 0.0002 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
12378-PeCDF	57117-41-6	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
23478-PeCDF	57117-31-4	0.0001 µg/kg VV (Bivalves) 0.0004 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
2378-TCDD	1746-01-6	0.00005 µg/kg VV (Bivalves) 0.0002 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.
2378-TCDF	51207-31-9	0.00005 µg/kg VV (Bivalves) 0.0002 µg/kg VV (Fish)	Not clear	EQS for the Good/Moderate boundary.

Table A7 River Basin Specific Pollutant Summary Sheet for Finland (FI)

Member State:	Finland
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have originally been defined in Established EQS for nationally selected hazardous / harmful substances in Finland (Decree of the Council of State 1022/2006). The EQS values are described in the Finnish Guidance Document: "*Guidance on ecological classification of surface waters in Finland*".
Information on the application of the Specific Pollutants	The same specific pollutants have been applied in all the Finnish River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: Vuoksi (FIVHA1), Kymijoki-Gulf of Finland (FIVHA2), Kokemõenjoki-Archipelago Sea-Bothnian Sea (FIVHA3), Oulujoki-Iijoki (FIVHA4), Kemijoki (FIVHA5), Tornionjoki (Finnish part)(FIVHA6), Teno-Nõõtõm and Paatsjoki (Finnish part)(FIVHA7) and Aland Islands (FIWDA). At present Finland has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Organic chemicals (other than defined groups)										
Benzylbutylphtalate (BBP)	85-68-7	10 µg/l (AA)	10 µg/l (AA)	1.4 µg/l (AA)	1.4 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Chlorobenzene	108-90-7	9.3 µg/l (AA)	9.3 µg/l (AA)	3.2 µg/l (AA)	3.2 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
1,2- Dichlorobenzene	95-50-1	7,4 µg/l (AA)	7,4 µg/l (AA)	0,74 µg/l (AA)	0,74 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
1,4- Dichlorobenzene	106-46-7	20 µg/l (AA)	20 µg/l (AA)	2.0 µg/l (AA)	2.0 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Dibutylphthalate (DBP)	84-74-2	10 µg/l (AA)	10 µg/l (AA)	1.0 µg/l (AA)	1.0 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Nonylphenolethoxylates (NPEs)	25154-52-3	0.3 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS has been established for the sum of the toxicity of nonylphenol and nonylphenolethoxylates. Sum toxicity will be calculated using the following equation: $\sum (C_x \times TEF)$, TEF = Toxicity Equivalent Factor; TEF for nonylphenol = 1 TEF for Nonylphenolmono ethoxylates and nonylphenoldiethoxylates = 0,5 C_x = Concentration of each nonylphenolic compound EQS values are total concentrations.
Pesticides										
Bronopol (2-Bromo-2-nitro propane-1,3-diol)	52-51-7	4.0 µg/l (AA)	4.0 µg/l (AA)	0.4 µg/l (AA)	0.4 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Dimethoate	60-51-5	0.7 µg/l (AA)	0.7 µg/l (AA)	0.07 µg/l (AA)	0.07 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Ethylenethiourea (ETU); the degradation product of mancozeb	96-45-7	200 µg/l (AA)	200 µg/l (AA)	20 µg/l (AA)	20 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Metamitron	41394-05-2	32 µg/l (AA)	32 µg/l (AA)	3.2 µg/l (AA)	3.2 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
2-Methyl-4-chlorophenoxy acetic acid's (MCPA)	94-74-6	1.6 µg/l (AA)	1.6 µg/l (AA)	0.16 µg/l (AA)	0.16 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Prochloraz	67747-09-5	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.
Tribenuron-methyl	101200-48-0	0.1 µg/l (AA)	0.1 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS values are total concentrations.

Notes: AA = Annual Average

Table A8 River Basin Specific Pollutant Summary Sheet for France (FR)

Member State:	France
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from Arrêté du 25/01/10 relatif aux méthodes et critères d'évaluation de l'état écologique, de l'état chimique et du potentiel écologique des eaux de surface pris en application des articles R. 212-10, R. 212-11 et R. 212-18 du code de l'environnement (JO n° 46 du 24 février 2010).
Information on the application of the Specific Pollutants	The same specific pollutants have been applied to all the mainland River Basin Districts, (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012)namely: Scheldt, Somme and coastal waters of the Channel and the North Sea (FRA), Meuse (FRB1), Sambre (FRB2), Rhine (FRC), Rhone and Coastal Mediterranean (FRD), Corsica (FRE), Adour, Garonne, Dordogne, Charente and coastal waters of Aquitania (FRF), Lore, Brittany and Vendee coastal waters (FRG) and Seine and Normandy coastal waters (FRH). At present for mainland waters, France has only established water column EQS values for inland surface waters. No EQS values for sediments and/or biota have been derived. For the Caribbean islands of Guadeloupe (FRI) and Martinique (FRJ) there are established EQS values for the water column and biota.

Water column EQS values for mainland France (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic and compounds	7440-38-2	4.2 µg/l (AA)	4.2 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample. Background concentrations and bioavailability can be taken into account.
Chromium (total)	7440-47-3	1.4 µg/l (AA)	1.4 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample. Background concentrations and bioavailability can be taken into account.
Copper	7440-50-8	3.4 µg/l (AA)	3.4 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample. Background concentrations and bioavailability can be taken into account.
Zinc	7440-66-6	3.1-7.8 µg/l (AA)	3.1-7.8 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample. EQS level depends on water hardness as follows. 3.1 µg/l (≤ 24 mg $CaCO_3$/l) 7.8 µg/l (> 24 mg $CaCO_3$/l) Background concentrations and bioavailability can be taken into account.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Pesticides										
Chlorotoluron	15545-48-9	5.0 µg/l (AA)	5.0 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.
2,4 Dichlorophenoxy acetic acid (2,4 D)	94-75-7	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.
Linuron	330-55-2	1.0 µg/l (AA)	1.0 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.
2-Methyl-4chlorophenoxy acetic acid's (MCPA)	94-74-6	1.5 µg/l (AA)	1.5 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.
Oxadiazon	19666-30-9	0.75 µg/l (AA)	0.75 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.

Notes: AA = Annual Average

Water column EQS values for Guadeloupe and Martinique (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Pesticides										
Chlordecone	143-50-0	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.

Notes: AA = Annual Average

Biota EQS values for Guadaloupe and Martinique (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS biota	EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6	Comments
Pesticides				
Chlordecone	143-50-0	0.02 mg/kg ww (AA)	Not clear	EQS for the Good/Moderate boundary. EQS based on analysis of whole sample.

Notes: AA = Annual Average

Table A9 River Basin Specific Pollutant Summary Sheet for Germany (DE)

Member State:	Germany
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	The same specific pollutants have not been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Danube (DE1000), the Rhine (DE2000), the Ems (DE3000), the Weser (DE4000), the Elbe (DE5000), the Odra (DE6000), the Meuse (DE7000), Eider (DE9500), the Schlei/Trvae (DE9610) and the Warnow/Peene (DE9650). Germany has established water column and sediment EQSs.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic substances										
Cyanides	74-90-8	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Organic chemicals (other than defined groups)										
2-Amino-4-Chlorphenol	95-85-2	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Benzidine	92-87-5	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Benzyl chloride	100-44-7	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Benzyl dichloride	98-87-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Biphenyl	92-52-4	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Chloroacetic acid	79-11-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chloroaniline	95-51-2	3.0 µg/l	3.0 µg/l	3.0 µg/l	3.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chloroaniline	108-42-9	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chloroaniline	106-47-8	0.05 µg/l	0.05 µg/l	0.05 µg/l	0.05 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Chlorobenzene	108-90-7	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1-Chloro-2,4-dinitrobenzene	97-00-7	5.0 µg/l	5.0 µg/l	5.0 µg/l	5.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chloroethanol	107-07-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chloro-3-methylphenol	59-50-7	No value	No value	No value	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chloro-2-nitroaniline	89-63-4	3.0 µg/l	3.0 µg/l	3.0 µg/l	3.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
1-Chloro-2-nitrobenzene	88-73-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1-Chloro-3-nitrobenzene	121-73-3	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1-Chloro-4-nitrobenzene	100-00-5	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chloro-4-nitrotoluene	121-86-8	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chloro-6-nitrotoluene	83-42-1	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chloro-4-nitrotoluene	38939-88-7	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chloro-2-nitrotoluene	89-59-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chloro-3-nitrotoluene	89-60-1	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
5-Chloro-2-nitrotoluene	5367-28-2	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chlorophenol	95-57-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chlorophenol	108-43-0	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chlorophenol	106-48-9	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chloroprene	126-99-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chloropropene	107-05-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chloropropylene	107-05-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chloro-p-toluidine	615-65-6	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chloro-o-toluidine	87-60-5	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
3-Chloro-p-toluidine	95-74-9	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
5-Chloro-o-toluidine	95-79-4	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2-Chlorotoluene	95-49-8	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3-Chlorotoluene	108-41-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
4-Chlorotoluene	106-43-4	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Cyanuric chloride	108-77-0	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dibromomethane	106-93-4	2.0 µg/l	2.0 µg/l	2.0 µg/l	2.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,3-Dichloroaniline	608-27-5	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,4-Dichloroaniline	554-00-7	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,5-Dichloroaniline	95-82-9	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,6-Dichloroaniline	608-31-1	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3,4-Dichloroaniline	95-76-1	0.5 µg/l	0.5 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3,5-Dichloroaniline	626-43-7	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
1,2-Dichlorobenzene	95-50-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,3-Dichlorobenzene	541-73-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,4-Dichlorobenzene	106-46-7	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dichlorobenzidene	91-94-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
1,1-Dichloroethene	75-34-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dichloroethene (cis and trans)	540-59-0	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dichloroethene (cis)	156-59-2	No value	No value	No value	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dichloroethene (ctrans)	156-60-5	No value	No value	No value	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,1-Dichlorethylene	75-35-4	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dichloro-3-nitrobenzene	3209-22-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dichloro-4-nitrobenzene	99-54-7	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,3-Dichloro-4-nitrobenzene	611-06-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,4-Dichloro-2-nitrobenzene	89-61-2	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,4-Dichlorophenol	120-83-2	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2-Dichloropropane	78-87-5	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
1,3-Dichloro-2-propanol	96-23-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,3-Dichloropropene (cis and trans)	542-75-6	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,3-Dichloropropene (cis)	10061-01-5	No value	No value	No value	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,3-Dichloropropene (trans)	10061-02-6	No value	No value	No value	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,3-Dichloropropene	78-88-6	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dichlorodiisopropylether	108-60-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Diethylamine	109-89-7	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dimethylamine	124-40-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Epichlorhydrin	106-89-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Ethyl benzene	100-41-4	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Hexachloroethane	67-72-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Isopropylbenzene	103-65-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Nitrobenzene	98-95-3	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,2,4,5-tetrachlorobenzene	95-94-3	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,1,2,2-Tetrachloroethane	79-34-5	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Toluene	108-88-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Tributyl phosphate	126-73-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,1,1-Trichloroethane	71-55-6	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,1,2-Trichloroethane	79-00-5	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,3,4-Trichlorophenol	15950-66-0	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,3,5-Trichlorophenol	933-78-8	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,3,6-Trichlorophenol	933-75-5	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,4,5-Trichlorophenol	95-95-4	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2,4,6-Trichlorophenol	88-06-2	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
3,4,5-Trichlorophenol	609-19-8	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
1,1,2- Trichlorotrifluoro ethane	76-13-1	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Vinyl chloride	75-01-4	2.0 µg/l	2.0 µg/l	2.0 µg/l	2.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
o-Xylene	95-47-6	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
m-Xylene	108-38-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
p-Xylene	106-42-3	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Pesticides										
Ametryn	834-12-8	0.5 µg/l	0.5 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Azinphos ethyl	2642-71-9	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Azinphos methyl	86-50-0	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Bentazone	25057-89-0	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Bromacil	314-40-9	0.6 µg/l	0.6 µg/l	0.6 µg/l	0.6 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Chlordane (cis and trans)	57-74-9	0.003 µg/l	0.003 µg/l	0.003 µg/l	0.003 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Chlorotoluron	15545-48-9	0.4 µg/l	0.4 µg/l	0.4 µg/l	0.4 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Coumaphos	56-72-4	0.07 µg/l	0.07 µg/l	0.07 µg/l	0.07 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Demeton (total)	8065-48-3	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Demeton-o	298-03-3	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										Moderate boundary.
Demeton-s	126-75-0	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Demeton-s-methyl	919-86-8	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Demeton-s-methylsulphon	17040-19-6	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2.4 -Dichlorophenoxy acetic acid (2,4 D)	94-75-7	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dichlorvos	62-73-7	0.0006 µg/l	0.0006 µg/l	0.0006 µg/l	0.0006 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Dichloroprop	120-36-5	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Dimethoate	60-51-5	No value	No value	No value	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Disulfoton	298-04-4	0.004 µg/l	0.004 µg/l	0.004 µg/l	0.004 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Etrimphos	38260-54-7	0.004 µg/l	0.004 µg/l	0.004 µg/l	0.004 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Fenitrothion	122-14-5	0.009 µg/	0.009 µg/	0.009 µg/	0.009 µg/	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Fenthion	55-38-9	0.004 µg/l	0.004 µg/l	0.004 µg/l	0.004 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Heptachlor	76-44-8	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Heptachlor epoxide	1024-57-3	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Hexazinone	51235-04-2	0.07 µg/l	0.07 µg/l	0.07 µg/l	0.07 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Linuron	330-55-2	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Malathion	121-75-5	0.02 µg/l	0.02 µg/l	0.02 µg/l	0.02 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
MCPA	3653-48-3	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										Moderate boundary.
Mecoprop	7085-19-0	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Metazachlor	67129-08-2	0.4 µg/l	0.4 µg/l	0.4 µg/l	0.4 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Methabenzthiazuron	18691-97-9	2.0 µg/l	2.0 µg/l	2.0 µg/l	2.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Methamidophos	10265-92-6	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Metolachlor	51218-45-2	0.2 µg/l	0.2 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Mevinphos	7786-34-7	0.0002 µg/l	0.0002 µg/l	0.0002 µg/l	0.0002 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Monolinuron	1746-81-2	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Omethoate	1113-02-6	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Oxydemeton-methyl	301-12-2	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Parathion-ethyl	56-38-2	0.005 µg/l	0.005 µg/l	0.005 µg/l	0.005 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Parathion-methyl	298-00-0	0.02 µg/l	0,02 µg/l	0.02 µg/l	0.02 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Phoxim	14816-18-3	0.008 µg/l	0.008 µg/l	0.008 µg/l	0.008 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Prometryn	7287-19-6	0.5 µg/l	0.5 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Propanil	709-98-8	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Pyrazon	1698-60-8	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Terbuthylazine	5915-41-3	0.5 µg/l	0.5 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Tetrabutyltin	1461-25-2	40 µg/l	40 µg/l	40 µg/l	40 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										Moderate boundary.
Triazophos	24017-47-8	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Trichlorfon	52-68-6	0.002 µg/l	0.002 µg/l	0.002 µg/l	0.002 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	93-76-5	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.
Pharmaceuticals										
Chloral hydrate	302-17-0	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Polyaromatic hydrocarbons and hydrocarbons										
1-Chloronaphthalene	90-13-1	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary.

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		$EQS_{sediment}$ for inland waters	$EQS_{sediment}$ for marine water	$EQS_{sediment}$ for Equilibrium Partitioning approach	$EQS_{sediment}$ for inland waters	$EQS_{sediment}$ for marine water	$EQS_{sediment}$ for Equilibrium Partitioning approach	
Metals and metalloids								
Arsenic	7440-38-2	40 mg/kg dw	40 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Chromium	7440-47-3	640 mg/kg dw	640 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Copper	7440-50-8	160 mg/kg dw	160 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Zinc	7440-66-6	800 mg/kg dw	800 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Pesticides								
Dibutyltin	**14488-53-0**	0.1 mg/kg dw	0.1 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Triphenyltin		0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
Polychlorinated biphenyls								
PCB (total)	-	No value	0.46 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-28	7012-37-5	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-52	35693-99-3	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-101	37680-73-2	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-118	31508-00-6	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-153	35065-27-1	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-138	35065-28-2	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary
PCB-180	35065-29-3	0.02 mg/kg dw	0.02 mg/kg dw	No value	Not clear	Not clear	Not clear	EQS for the Good/ Moderate boundary

Table A10 River Basin Specific Pollutant Summary Sheet for Hungary (HU)

Member State:	Hungary
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived in the Background document "Physico-chemical and chemical limit values and classification system for good status of surface water bodies (2009).
Information on the application of the Specific Pollutants	The EQS values apply to all the Hungarian River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Danube (HU1000). No water column EQS values for specific pollutants have been derived for transitional waters and coastal waters as Hungary is a land locked country. At present Hungary has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic	7440-38-2	20 µg/l (90%ile)	20 µg/l (90%ile)	Not required	Not required	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample
Chromium	7440-47-3	20 µg/l (90%ile)	20 µg/l (90%ile)	Not required	Not required	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample
Copper	7440-50-8	10 µg/l (90%ile)	10 µg/l (90%ile)	Not required	Not required	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample
Zinc	7440-66-6	75 µg/l (90%ile)	75 µg/l (90%ile)	Not required	Not required	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample

Table A11 River Basin Specific Pollutant Summary Sheet for Ireland (IE)

Member State:	Ireland
Source document(s) describing the identification of the Specific Pollutants	The source document for most of the specific pollutants is Proposed Environmental Quality Standards for Specific Relevant Pollutants in Surface Waters in Ireland (July 2007). Available at: www.epa.ie The Specific Pollutants are given in Statutory Instrument S.I. No. 272 of 2009: European Communities Environmental Objectives (Surface Waters) Regulations 2009
Information on the application of the Specific Pollutants	The same specific pollutants have been applied to all the Irish River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: Neagh Bann (GBNIIENB), North Western (GBNIIENW) and North Eastern (GBNIIENE). Eastern (IEEA), Shannon (IEGBNISH), South Eastern (IESE), South Western (IESW) and Western (IEWE). At present Ireland has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic (non-metallic substances)										
Cyanide	74-90-8	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Fluoride		500 µg/l (AA)	500 µg/l (AA)	1500 µg/l (AA)	1500 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Metals and metalloids										
Arsenic	7440-38-2	25 µg/l (AA)	25 µg/l (AA)	20 µg/l (AA)	20 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment EQS as added value to background concentration
Chromium (III)		4.7 µg/l (AA) 32 µg/l (MAC)	4.7 µg/l (AA) 32 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment EQS as added value to background concentration
Chromium (VI)		3.4 µg/l (AA)	3.4 µg/l (AA)	0.6 µg/l (AA)	0.6 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Copper	7440-50-8	5.0 - 30 µg/l (AA)	5.0 - 30 µg/l (AA)	5.0 µg/l (AA)	5.0 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment EQS as added value to background concentration 5 µg/l (≤100 mg $CaCO_3$/l as annual mean) 30 µg/l (>100 mg $CaCO_3$/l as annual mean)
Zinc	7440-66-6	8.0 - 100 µg/l (AA)	8.0 - 100 µg/l (AA)	40 µg/l (AA)	40 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment EQS as added value to background concentration 8 µg/l (≤10 mg $CaCO_3$/l as annual mean) 50 µg/l (>10-≤100 mg $CaCO_3$/l as annual mean) 100 µg/l (>100 mg $CaCO_3$/l as annual mean)
Organic chemicals (other than defined groups)										
Monochlorobenzenes	68411-45-0	1.5 µg/l (AA)	1.5 µg/l (AA)	25 µg/l (AA)	25 µg/l (AA)	No[a]	No[a]	No[a]	No[a]	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Phenol	108-95-2	8.0 µg/l (AA) 46 µg/l (MAC)	8.0 µg/l (AA) 46 µg/l (MAC)	8.0 µg/l (AA) 46 µg/l (MAC)	8.0 µg/l (AA) 46 µg/l (MAC)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Toluene	108-88-3	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Xylenes o-Xylene m-Xylene p-Xylene	 95-47-6 108-38-3 106-42-3	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	No	No	No	No	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Pesticides										
Diazinon	333-41-5	0.01 µg/l (AA) 0.02 µg/l (MAC)	0.01 µg/l (AA) 0.02 µg/l (MAC)	0.01 µg/l (AA) 0.26 µg/l (MAC)	0.01 µg/l (AA) 0.26 µg/l (MAC)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Dimethoate	60-51-5	0.8 µg/l (AA) 4.0 µg/l (MAC)	0.8 µg/l (AA) 4.0 µg/l (MAC)	0.8 µg/l (AA) 4.0 µg/l (MAC)	0.8 µg/l (AA) 4.0 µg/l (MAC)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Glyphosate	9008-02-0	60 µg/l (AA)	60 µg/l (AA)	No value	No value	No[a]	No[a]	-	-	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Linuron	330-55-2	0.7 µg/l (AA) 0.7 µg/l (MAC)	0.7 µg/l (AA) 0.7 µg/l (MAC)	0.7 µg/l (AA) 0.7 µg/l (MAC)	0.7 µg/l (AA) 0.7 µg/l (MAC)	Yes	Yes	Yes	Yes	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample
Mancozeb	8018-01-7	2.0 µg/l (AA) 7.3 µg/l (MAC)	2.0 µg/l (AA) 7.3 µg/l (MAC)	2.0 µg/l (AA) 7.3 µg/l (MAC)	2.0 µg/l (AA) 7.3 µg/l (MAC)	No[a]	No[a]	No[a]	No[a]	EQS for the Good/Moderate boundary. EQS refers to total concentration in the whole water sample

Notes: AA = Annual Average**,** MAC = Maximum Allowable Concentration**,** [a] – A deterministic approach was used which was similar in principle to the procedure given in WFD Annex V 1.2.6

Table A12 River Basin Specific Pollutant Summary Sheet for Italy (IT)

Member State:	Italy
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from Monitoring decree (DM "Ambiente" 14 April 2009, No. 56 – Regulation containing "Technical criteria for the monitoring of waterbodies and identification of the reference conditions for the amendment of the technical regulations of the legislative decree of 3 April 2006, n. 152, containing environmental regulations laid down under article 75, paragraph 3, of the legislative decree")
Information on the application of the Specific Pollutants	The EQS values apply to all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: Po Basin (ITB), Sardinia (ITG) and Sicily (ITH). At present, Italy has established water column EQS values for inland and other surface waters. EQS values for sediments have been derived for transitional and coastal waters. No EQS values for biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic	7440-38-2	10 µg/l	10 µg/l	5.0 µg/l	5.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium	7440-47-3	7.0 µg/l	7.0 µg/l	4.0 µg/l	4.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
2-Chloroaniline	95-51-2	1.0 µg/l	1.0 µg/l	0.3 µg/l	0.3 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3-Chloroaniline	108-42-9	2.0 µg/l	2.0 µg/l	0.6 µg/l	0.6 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chloroaniline	106-47-8	1.0 µg/l	1.0 µg/l	0.3 µg/l	0.3 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chlorobenzene	108-90-7	3.0 µg/l	3.0 µg/l	0.3 µg/l	0.3 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1-Chloro-2-Nitrobenzene	88-73-3	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1-Chloro-3-Nitrobenzene	121-73-3	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1-Chloro-4-Nitrobenzene	100-00-5	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chloronitrotoluenes	25567-68-4	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Chlorophenol	95-57-8	4.0 µg/l	4.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3-Chlorophenol	108-43-0	2.0 µg/l	2.0 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chlorophenol	106-48-9	2.0 µg/l	2.0 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Chlorotoluene	95-49-8	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
3-Chlorotoluene	108-41-8	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chlorotoluene	106-43-4	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3,4-Dichloroaniline	95-76-1	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2-Dichlorobenzene	95-50-1	2.0 µg/l	2.0 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,3-Dichlorobenzene	541-73-1	2.0 µg/l	2.0 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,4-Dichlorobenzene	106-46-7	2.0 µg/l	2.0 µg/l	0.5 µg/l	0.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4-Dichlorophenol	120-83-2	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Toluene	108-88-3	5.0 µg/l	5.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,1 Trichloroethane	71-55-6	10 µg/l	10 µg/l	2.0 µg/l	2.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,5 Trichlorophenol	95-95-4	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,6 Triclorophenol	88-06-2	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Xylenes	1330-20-7	5.0 µg/l	5.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pesticides										
Azinphos ethyl	2642-71-9	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Azinphos methyl	86-50-0	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Bentazone	25057-89-0	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Demeton	8065-48-3	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4 Dichlorophenoxy acetic acid (2,4 D)	94-75-7	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichlorvos	62-73-7	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dimethoate	60-51-5	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Fenitrothion	122-14-5	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Fenthion	55-38-9	0.01 µg/l	0.01 µg/l	0.01 µg/l	0,01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Heptachlor	76-44-8	0.005 µg/l	0.005 µg/l	0.005 µg/l	0.005 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Linuron	330-55-2	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Malathion	121-75-5	0.01 µg/l	0,01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Methyl-4chlorophenoxy acetic acid's (MCPA)	94-74-6	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Mecoprop	93-65-2	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Methamidophos	10265-92-6	0,5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Mevinphos	7786-34-7	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Omethoate	1113-02-6	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Oxidemeton-methyl	301-12-2	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Parathion-ethyl	56-38-2	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Parathion-methyl	298-00-0	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pesticides (Single)	-	0.1 µg/l	0.1 µg/l	0.1 µg/l	0.1 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pesticides (Total)	-	1.0 µg/l	1.0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Terbutylazine and metabolites	5915-41-3	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,5 Trichlorophenoxy acetic acid (2,4 D)	93-76-5	0.5 µg/l	0.5 µg/l	0.2 µg/l	0.2 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Triphenyltin Compound	-	0.0002 µg/l	0.0002 µg/l	0.0002 µg/l	0.0002 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Sediment EQS values for inland, transitional waters and coastal waters (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ and/or EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for transitional waters	EQS$_{sediment}$ for coastal waters	EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for transitional waters	EQS$_{sediment}$ for coastal waters	
Metals and metalloids								
Arsenic	7440-38-2	No value	12 mg/kg dw	12 mg/kg dw	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium Total	7440-47-3	No value	50 mg/kg dw	50 mg/kg dw	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium VI	7440-47-3	No value	2.0 mg/kg dw	2.0 mg/kg dw	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Industrial chemicals								
PAH (total)	130498-29-2 91-20-3 83-32-9 208-96-8 85-01-8 206-44-0 56-55-3 218-01-9 205-99-2 207-08-9 50-32-8 53-70-3 120-12-7 129-00-0 191-24-2 193-39-5 86-73-7	No value	**5.**0.8 mg/kg dw	0.8 mg/kg dw	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Sum Toxic Equivalents PCDD, PCDF and PCB Dioxin-like	36088-22-9, 57117-31-4, 32598-13-3, 1336-36-3, 32774-16-6, 52663-72-6	No value	2×10^{-6} mg/kg dw	2×10^{-6} mg/kg dw	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
PCB (Total)	1336-36-3,	No value	0.008 mg/kg dw	0.008 mg/kg dw	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ and/or EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for transitional waters	EQS$_{sediment}$ for coastal waters	EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for transitional waters	EQS$_{sediment}$ for coastal waters	
	7012-37-5, 32598-13-3, 35693-99-3, 70362-50-4, 37680-73-2, 31508-00-6, 57465-28-8, 38380-07-3, 35065-27-1, 38380-08-4, 32774-16-6, 35065-29-3)							

Table A13 River Basin Specific Pollutant Summary Sheet for Latvia (LV)

Member State:	Latvia
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	The same specific pollutants have been applied to all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Daugava (LVDUBA), the Gauja (LVGUBA), the Lielupa (LVLUPA) and the Venta (LVVUBA). At present Latvia has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic	7440-38-2	150 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Chromium (III and VI)	7440-47-3	11 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Copper	7440-50-8	9 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	120 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Organic chemicals(other than defined groups0										
Ethylbenzene	100-41-4	10 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Phenol (petroleum)	64743-03-9	300 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Toluene	50646-98-5	10 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
o-Xylene	95-47-6	10 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
m- and p-Xylene	08-38-3 and 106-42-3	10 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Pesticides										
o, p'-DDE	3424-82-6	0.025 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.
Pharmaceuticals										
Mitotane	53-19-0	0.025 µg/l (AA)	No value	No value	No value	Not clear	-	-	-	EQS for the Good/Moderate boundary.

Table A14 River Basin Specific Pollutant Summary Sheet for Lithuania (LT)

Member State:	Lithuania
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from Regulation on Wastewater Management – Order Number D1-236 of the Minister of the Environment of the Republic of Lithuania of 17 May 2006.
Information on the application of the Specific Pollutants	The same specific pollutants have been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Nemunas (LT1100), the Venta (LT2300), the Lielupe (LT3400) and the Daugava (LT4500). At present Lithuania has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Chromium (III and VI)	7440-47-3	10 µg/l (AA)	10 µg/l (AA)	1.0-10 µg/l (AA)	1.0-10 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium (VI)	-	1.0 µg/l (AA)	1.0 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Copper	7440-50-8	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	100 µg/l (AA)	100 µg/l (AA)	100 µg/l (AA)	100 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Organic chemicals(other than defined groups)										
Phenol (petroleum)	64743-03-9	1.0 µg/l (AA)	1 µg/l (AA)	1.0 µg/l (AA)	1.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Petroleum hydrocarbons (total)	-	50 µg/l (AA)	50 µg/l (AA)	50 µg/l (AA)	50 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Table A15 River Basin Specific Pollutant Summary Sheet for Luxembourg (LU)

Member State:	Luxembourg
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	The same specific pollutants have been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: Mosel (LURB_000) and Chiers (LURB_001). At present Luxembourg has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Aluminium	7429-90-5	200 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Arsenic	7440-38-2	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chromium (III and VI)	7440-47-3	18 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Cobalt	7440-4804	3.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Copper	7440-50-8	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Iron	7439-89-6	200 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Manganese	7439-96-5	50 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Molybdenum	7439-98-7	50 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Selenium	7782-49-2	2.9 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	7.2 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
Biphenyl	92-52-4	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
4-Chloroaniline	106-47-8	0.05 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
4-Chloro-2-nitroaniline	89-63-4	3.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,3-Dichloroaniline	608-27-5	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,4-Dichloroaniline	554-00-7	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2,5-Dichloroaniline	95-82-9	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,6-Dichloroaniline	608-31-1	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
3,4-Dichloroaniline	95-76-1	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
3,5-Dichloroaniline	626-43-7	1.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,4-Dichlorobenzene	106-46-7	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,1-Dichloroethane	75-34-3	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,1-Dichloroethylene	75-35-4	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Ethylbenzene	100-41-4	2.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,1,2,2-Tetrachloro ethane	79-34-5	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Toluene	108-88-3	2.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Tributylphosphate	126-73-8	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,1,1-Trichloroethane	71-55-6	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
1,1,2-Trichloroethane	79-00-5	10 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,3,4-Trichlorophenol	15950-66-0	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,3,5-Trichlorophenol	933-78-8	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,3,6-Trichlorophenol	933-75-5	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
2,4,5-Trichlorophenol	95-95-4	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2,4,6-Trichlorophenol	88-06-2	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
3,4,5-Trichlorophenol	609-19-8	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Xylenes	1330-20-7	2.0 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Pesticides										
Atrazine-desethyl	6190-65-4	0.2 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Azinphos-methyl	86-50-0	0.001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Bentazon	25057-89-0	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chlordane (cis and trans)	57-74-9	0.002 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Chlorotoluron	15545-48-9	0.4 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Dichlorvos	62-73-7	0.0006 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Fenitrothion	122-14-5	0.001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Fenthion	55-38-9	0.004 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Metazachlor	67129-08-2	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Metolachlor	51218-45-2	0.1 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Parathion-ethyl	56-38-2	0.0002 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Parathion-methyl	298-00-0	0.01 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Trichlorofon	52-68-6	0.001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
Polychlorinated biphenyls										

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
PCB 28	7012-37-5	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
PCB 52	35693-99-3	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
PCB 101	37680-73-2	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
PCB 118	31508-00-6	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
PCB 138	35065-28-2	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
PCB 153	35065-27-1	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.
PCB 180	35065-29-3	0.0001 µg/l	No value	Not relevant	Not relevant	Not clear	-	Not relevant	Not relevant	EQS for the Good/Moderate boundary.

Table A16 River Basin Specific Pollutant Summary Sheet for the Malta (MT)

Member State:	Malta
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	Malta has identified Specific Pollutants but at present has not derived EQS values for the RBSPs.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Barium	7440-39-3	No value	No value	No value	No value	-	-	-	-	
Beryllium	7440-41-7	No value	No value	No value	No value	-	-	-	-	
Boron	7440-42-8	No value	No value	No value	No value	-	-	-	-	
Chromium (III and VI)	7440-47-3	No value	No value	No value	No value	-	-	-	-	
Cobalt	7440-48-4	No value	No value	No value	No value	-	-	-	-	
Copper	7440-50-8	No value	No value	No value	No value	-	-	-	-	
Manganese	7439-96-5	No value	No value	No value	No value	-	-	-	-	
Zinc	7440-66-6	No value	No value	No value	No value	-	-	-	-	

Table A17 River Basin Specific Pollutant Summary Sheet for the Netherlands (NE)

Member State:	Netherlands
Source document(s) describing the derivation of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	The same specific pollutants have not been applied in all the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Ems (NLEM), the Meuse (NLMS), the Rhine (NLRN) and the Scheldt (NLSC). Netherlands has established water column EQS values for surface waters and sediments.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic (non-metallic substances)										
Fluoride	16984-48-8	1500 µg/l (MK)	1500 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Metals and metalloids										
Antimony	7440-36-0	7.2 µg/l (MK)	7.2 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Arsenic	7440-38-2	32 µg/l (MK)	32 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. EQS refers to the dissolved fraction of a water sample.
Barium	7440-39-3	9.3 µg/l (JG-MKN) 148 µg/l (MAC-MKN)	9.3 µg/l (JG-MKN) 148 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Beryllium	7440-41-7	0.0092 µg/l (JG-MKN) 0.813 µg/l (MAC-MKN)	0.0092 µg/l (JG-MKN) 0.813 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. .
Boron	7440-42-8	650 µg/l (MK)	650 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary. .
Chromium	7440-47-3	3.4 µg/l (JG-MKN)	3.4 µg/l (JG-MKN)	0.6 µg/l (JG-MKN)	0.6 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Cobalt	7440-48-4	0.089 µg/l (JG-MKN) 1.36 µg/l (MAC-MKN)	0.089 µg/l (JG-MKN) 1.36 µg/l (MAC-MKN)	0.21 µg/l (MAC-MKN)	0.21 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Copper	7440-50-8	3.8 µg/l	3.8 µg/l	No value	No value	Not	Not	-		EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(MK)	(MK)			clear	clear			boundary.
Molybdenum	7439-98-7	7.2 µg/l (JG-MKN) 116 µg/l (MAC-MKN)	7.2 µg/l (JG-MKN) 116 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Selenium	7782-49-2	0.052 µg/l (JG-MKN) 24.6 µg/l (MAC-MKN)	0.052 µg/l (JG-MKN) 24.6 µg/l (MAC-MKN)	2.6 µg/l (MAC-MKN)	2.6 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Silver	7440-22-4	0.08 µg/l (MK) 1.2 µg/l (MK)	0.08 µg/l (MK) 1.2 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary
Tellurium	13494-80-9	100 µg/l (MK)	100 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Thallium	7440-28-0	0.013 µg/l (JG-MKN) 0.76 µg/l (MAC-MKN)	0.013 µg/l (JG-MKN) 0.76 µg/l (MAC-MKN)	0.34 µg/l (MAC-MKN)	0.34 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Tin	7440-31-5	0.6 µg/l (JG-MKN) 36 µg/l (MAC-MKN)	0.6 µg/l (JG-MKN) 36 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Titanium	7440-32-6	20 µg/l (MK)	20 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Uranium	7440-61-1	1.0 µg/l (MK)	1.0 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Vanadium	7440-62-2	5.1 µg/l (MK)	5.1 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Zinc	7440-66-6	7.8 µg/l (JG-MKN) 15.6 µg/l (MAC-MKN)	7.8 µg/l (JG-MKN) 15.6 µg/l (MAC-MKN)	3.0 µg/l (JG-MKN)	3.0 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
2 amino-4-chlorophenol	95-85-2	10 µg/l (MK)	10 µg/l (MK)	No value	6.No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Benzal chloride	98-87-3	7.4.6 µg/l 8.(MK)	9.4.6 µg/l 10.(MK)	11.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Benzidine	92-87-5	12.0.6 µg/l 13.(MK) 14.	15.0.6 µg/l 16.(MK)	17.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Benzyl chloride	100-44-7	18.310 µg/l 19.(MK)	20.310 µg/l 21.(MK)	22.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Biphenyl	101-68-8	1.5 µg/l (MK)	23.1.5 µg/l 24.(MK)	25.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chloroacetic acid	79-11-8	26.0.58 µg/l 27.(JG-MKN and MAC-MKN)	28.0.58 µg/l 29.(JG-MKN and MAC-MKN)	30.0.058 µg/l 31.(JG-MKN and MAC-MKN)	32.0.058 µg/l 33.(JG-MKN and MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Chloroaniline	95-51-2	0.2 µg/l (JG-MKN) 10 µg/l (MAC-MKN)	0.2 µg/l (JG-MKN) 10 µg/l (MAC-MKN)	0.032 µg/l (JG-MKN) 1.0 µg/l (MAC-MKN)	0.032 µg/l (JG-MKN) 1.0 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3-Chloroaniline	108-42-9	0.41 µg/l (JG-MKN) 4.6 µg/l (MAC-MKN)	0.41 µg/l (JG-MKN) 4.6 µg/l (MAC-MKN)	0.065 µg/l (JG-MKN) 0.46 µg/l (MAC-MKN)	0.065 µg/l (JG-MKN) 0.46 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chloroaniline	106-47-8	0.22 µg/l (JG-MKN) 1.2 µg/l	0.22 µg/l (JG-MKN) 1.2 µg/l	0.057 µg/l (JG-MKN) 0.12 µg/l	0.057 µg/l (JG-MKN) 0.12 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(MAC-MKN)	(MAC-MKN)	(MAC-MKN)	(MAC-MKN)					
Chlorobenzene	108-90-7	690 µg/l (MK)	690 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
2-chloro-1,3-butadiene	126-99-8	19 µg/l (JG-MKN)	19 µg/l (JG-MKN)	1.9 µg/l (JG-MKN)	1.9 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1-Chloro-2-4-dinitro benzene	97-00-7	0.54 µg/l (MK)	0.54 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
2-Chloroethanol	107-07-3	155 µg/l (MK)	155 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
4-chloro-3-methylphenol	59-50-7	6.4 µg/l (JG-MKN) 64 µg/l (MAC-MKN)	6.4 µg/l (JG-MKN) 64 µg/l (MAC-MKN)	0.64 µg/l (JG-MKN) 6.4 µg/l (MAC-MKN)	0.64 µg/l (JG-MKN) 6.4 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-chloro-2-nitroaniline	89-63-4	3.0 µg/l (MK)	3.0 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1-chloro-2-nitrobenzene	88-73-3	29 µg/l (MK)	29 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1-chloro-3-nitrobenzene	121-73-3	0.55 µg/l (MK)	0.55 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1-chloro-4-nitrobenzene	100-00-5	19 µg/l (MK)	19 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
4-Chloro-2-nitrotoluene	89-59-8	4.0 µg/l (MK)	4.0 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chloronitrotoluene	-	16 µg/l (MK)	16 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2-Chlorophenol	95-57-8	35 µg/l (JG-MKN) 110 µg/l (MAC-MKN)	35 µg/l (JG-MKN) 110 µg/l (MAC-MKN)	3.5 µg/l (JG-MKN) 11 µg/l (MAC-MKN)	3.5 µg/l (JG-MKN) 11 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3-Chlorophenol	108-43-0	4.0 µg/l (JG-MKN) 400 µg/l (MAC-MKN)	4.0 µg/l (JG-MKN) 400 µg/l (MAC-MKN)	0.4 µg/l (JG-MKN) 40 µg/l (MAC-MKN)	0.4 µg/l (JG-MKN) 40 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chlorophenol	106-48-9	16 µg/l (JG-MKN) 89 µg/l (MAC-MKN)	16 µg/l (JG-MKN) 89 µg/l (MAC-MKN)	3.2 µg/l (JG-MKN) 18 µg/l (MAC-MKN)	3.2 µg/l (JG-MKN) 18 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3-Chloropropene	107-05-1	0.34 µg/l (JG-MKN) 3.4 µg/l (MAC-MKN)	0.34 µg/l (JG-MKN) 3.4 µg/l (MAC-MKN)	0.034 µg/l (JG-MKN) 0.34 µg/l (MAC-MKN)	0.034 µg/l (JG-MKN) 0.34 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Chloro-p-toluidine	615-65-6	36 µg/l (MK)	36 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chlorotoluidines	-	6.2 µg/l (MK)	6.2 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
2 chlorotoluene,	95-49-8	310 µg/l (MK)	310 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
3- chlorotoluene	108-41-8	310 µg/l (MK)	310 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
4-chlorotoluene	106-43-4	310 µg/l (MK)	310 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,2-Dibromomethane	106-93-4	0.0033 µg/l (JG-MKN) 0.4 µg/l (MAC-MKN)	0.0033 µg/l (JG-MKN) 0.4 µg/l (MAC-MKN)	0.0033 µg/l (JG-MKN)	0.0033 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Dichloraniline	-	34.3.0 µg/l 35.(MK)	3.0 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,2-dichlorobenzene, ,	95-50-1	250 µg/l (MK)	250 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,3-dichlorobenzene	541-73-1	250 µg/l (MK)	250 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,4-dichlorobenzene	106-46-7	250 µg/l (MK)	250 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dichlorobenzidine	1331-47-1	36.0.000005 2 µg/l 37.(JG-MKN) 38.0.058 µg/l 39.(MAC-MKN)	0.0000052 µg/l (JG-MKN) 0.058 µg/l (MAC-MKN)	0.0000052 µg/l (JG-MKN)	40.0.000005 2 µg/l 41.(JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichlorodiisopropylether	108-60-1	42.10 µg/l 43.(MK)	10 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,1-Dichloroethane	75-34-3	700 µg/l (MK)	700 µg/l (MK)	No value	44.No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,2-Dichloroethene (cis and trans)	540-59-0	6.8 µg/l (JG-MKN)	6.8 µg/l (JG-MKN)	0.68 µg/l (JG-MKN)	0.68 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1-Dichloroethylene	75-35-4	9.0 µg/l (JG-MKN) 90 µg/l (MAC-MKN)	9.0 µg/l (JG-MKN) 90 µg/l (MAC-MKN)	0.9 µg/l (JG-MKN) 9.0 µg/l (MAC-MKN)	0.9 µg/l (JG-MKN) 9.0 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichloronitrobenzene	-	45.1.4 µg/l 46.(JG-MKN)	47.1.4 µg/l 48.(JG-MKN)	49.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2,4-Dichlorophenol	120-83-2	0.54 µg/l (JG-MKN) 70 µg/l (MAC-MKN)	0.54 µg/l (JG-MKN) 70 µg/l (MAC-MKN)	0.16 µg/l (JG-MKN) 7.0 µg/l (MAC-MKN)	50.0.16 µg/l 51.(JG-MKN) 52.7.0 µg/l 53.(MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2-Dichloropropane	78-87-5	280 µg/l (JG-MKN) 1300 µg/l (MAC-MKN)	280 µg/l (JG-MKN) 1300 µg/l (MAC-MKN)	28 µg/l (JG-MKN) 130 µg/l (MAC-MKN)	28 µg/l (JG-MKN) 130 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,3-Dichloro-2-propanol	96-23-1	104 µg/l (JG-MKN)	104 µg/l (JG-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,3-Dichloropropene (cis and trans)	542-75-6	0.18 µg/l (JG-MKN) 51 µg/l (MAC-MKN)	0.18 µg/l (JG-MKN) 51 µg/l (MAC-MKN)	0.018 µg/l (JG-MKN) 5.1 µg/l (MAC-MKN)	0.018 µg/l (JG-MKN) 5.1 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,3-Dichloropropene	78-88-6	8.0 µg/l (JG-MKN)	8.0 µg/l (JG-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Diethylamine	109-89-7	20 µg/l (JG-MKN)	20 µg/l (JG-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dimethylamine	124-40-3	7.5 µg/l (JG-MKN)	7.5 µg/l (JG-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Epichlorohydrin	106-89-8	0.65 µg/l (JG-MKN) 6.5 µg/l (MAC-MKN)	0.65 µg/l (JG-MKN) 6.5 µg/l (MAC-MKN)	0.065 µg/l (JG-MKN)	0.065 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Ethyl benzene	100-41-4	370 µg/l (JG-MKN)	370 µg/l (JG-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Hexachloroethane	67-72-1	54.0.67 µg/l (JG-MKN)	56.0.67 µg/l (JG-MKN)	58.0.067 µg/l (JG-MKN)	60.0.067 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		and 55.1.4 µg/l (MAC-MKN)	and 57.1.4 µg/l (MAC-MKN)	and 59.0.28 µg/l (MAC-MKN)	and 61.0.28 µg/l (MAC-MKN)					
Isopropylbenzene	103-65-1	62.4.2 µg/l (MK)	63.4.2 µg/l (MK)	64.No value	65.No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Octamethyltetrasiloxane	556-67-3	66.0.5 µg/l (MK)	67.0.5 µg/l (MK)	68.No value	69.No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Styrene	100-42-5	70.570 µg/l (MK)	71.570 µg/l (MK)	72.No value	73.No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,2,4,5-tetrachloro benzene	95-94-3	24 µg/l (MK)	24 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,1,2,2-tetrachloroethane	79-34-5	8.0 µg/l (JG-MKN) and 84 µg/l (MAC-MKN)	8.0 µg/l (JG-MKN) and 84 µg/l (MAC-MKN)	0.8 µg/l (JG-MKN) and 8.4 µg/l (MAC-MKN)	0.8 µg/l (JG-MKN) and 8.4 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Toluene	108-88-3	74 µg/l (JG-MKN) and 550 µg/l (MAC-MKN)	74 µg/l (JG-MKN) and 550 µg/l (MAC-MKN)	7.4 µg/l (JG-MKN) and 55 µg/l (MAC-MKN)	7.4 µg/l (JG-MKN) and 55 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Tributyl phosphate	126-73-8	13 µg/l (MK)	13 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,1,1-trichloroethane	71-55-6	21 µg/l (JG-MKN) and 54 µg/l (MAC-MKN)	21 µg/l (JG-MKN) and 54 µg/l (MAC-MKN)	2.1 µg/l (JG-MKN) and 5.4 µg/l (MAC-MKN)	2.1 µg/l (JG-MKN) and 5.4 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,2-trichloroethane	79-00-5	22 µg/l (JG-MKN) and 300 µg/l (MAC-MKN)	22 µg/l (JG-MKN) and 300 µg/l (MAC-MKN)	22 µg/l (JG-MKN) and 190 µg/l (MAC-MKN)	22 µg/l (JG-MKN) and 190 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
2,4,5-Trichlorophenol	95-95-4	0.13 µg/l (JG-MKN) and 2.6 µg/l (MAC-MKN)	0.13 µg/l (JG-MKN) and 2.6 µg/l (MAC-MKN)	0.13 µg/l (JG-MKN) and 2.0 µg/l (MAC-MKN)	0.13 µg/l (JG-MKN) and 2.0 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,6-Trichlorophenol	88-06-2	0.26 µg/l (JG-MKN) and 32 µg/l (MAC-MKN)	0.26 µg/l (JG-MKN) and 32 µg/l (MAC-MKN)	0.26 µg/l (JG-MKN) and 3.2 µg/l (MAC-MKN)	0.26 µg/l (JG-MKN) and 3.2 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,6-Trichloro-s-triazine	108-77-0	0.1 µg/l (MK)	0.1 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
1,1,2- trichlorotrifluoro ethane	76-13-1	3.7 µg/l (MK)	3.7 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Vinyl chloride	75-01-4	0.09 µg/l (JG-MKN)	0.09 µg/l (JG-MKN)	0.091 µg/l (JG-MKN)	0.091 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Xylene (m-,o-,p-)	1330-20-7	2.44 µg/l (JG-MKN) and 24.4 µg/l (MAC-MKN)	2.44 µg/l (JG-MKN) and 24.4 µg/l (MAC-MKN)	0.24 µg/l (JG-MKN) and 4.88 µg/l (MAC-MKN)	0.24 µg/l (JG-MKN) and 4.88 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pesticides										
Abamectin	71751-41-2	0.001 µg/l (JG-MKN) and 0.018 µg/l (MAC-MKN)	0.001 µg/l (JG-MKN) and 0.018 µg/l (MAC-MKN)	0.0000035 µg/l (JG-MKN) and 0.0009 µg/l (MAC-MKN)	0.0000035 µg/l (JG-MKN) and 0.0009 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Azinphos ethyl	2642-71-9	0.0011 µg/l (JG-MKN) and 0.011 µg/l (MAC-MKN)	0.0011 µg/l (JG-MKN) and 0.011 µg/l (MAC-MKN)	0.0013 µg/l (JG-MKN) and 0.0011 µg/l (MAC-MKN)	0.0013 µg/l (JG-MKN) and 0.0011 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Azinphos methyl	86-50-0	0.0065 µg/l (JG-MKN) and 0.014 µg/l (MAC-MKN)	0.0065 µg/l (JG-MKN) and 0.014 µg/l (MAC-MKN)	0.0004 µg/l (JG-MKN) and 0.0028 µg/l (MAC-MKN)	0.0004 µg/l (JG-MKN) and 0.0028 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Bentazon	25057-89-0	73 µg/l (JG-MKN) and 450 µg/l (MAC-MKN)	74.73 µg/l (JG-MKN) and 75.450 µg/l (MAC-MKN)	76.7.3 µg/l (JG-MKN) and 77.45 µg/l (MAC-MKN)	78.7.3 µg/l (JG-MKN) and 79.45 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Captan	133-06-2	0.34 µg/l (JG-MKN) and 0.34 µg/l (MAC-MKN)	80.0.34 µg/l (JG-MKN) and 81.0.34 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Carbenzadim	10605-21-7	0.6 µg/l (JG-MKN) and 0.6 µg/l (MAC-MKN)	0.6 µg/l (JG-MKN) and 0.6 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chlordane (cis and trans)	57-74-9	0,002 µg/l (MK)	0,002 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chloropropham	101-21-3	3.3 µg/l (MK)	3.3 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chlorotoluron	15545-48-9	0.4 µg/l (JG-MKN) and 2.3 µg/l (MAC-MKN)	0.4 µg/l (JG-MKN) and 2.3 µg/l (MAC-MKN)	0.04 µg/l (JG-MKN) and 0.23 µg/l (MAC-MKN)	0.04 µg/l (JG-MKN) and 0.23 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Coumaphos	56-72-4	0.0034 µg/l (JG-MKN) and 0.0074 µg/l (MAC-MKN)	0.0034 µg/l (JG-MKN) and 0.0074 µg/l (MAC-MKN)	0.00068 µg/l JG-MKN and MAC-MKN)	0.00068 µg/l JG-MKN and MAC-MKN)	Not clear	Not clear	Not clear	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Deltamethrin	52918-63-5	0.0000031 µg/l (JG-MKN) and 0.00031 µg/l (MAC-MKN)	0.0000031 µg/l (JG-MKN) and 0.00031 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Demeton	8065-48-3	0.14 µg/l (MK)	0.14 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Diazinon	333-4105	0.037 µg/l (MK)	0.037 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dibutyltin chloride Dibutyltin oxide	683-18-1 818-08-6	82.0.09 µg/l 83.(JG-MKN)	84.0.09 µg/l 85.(JG-MKN)	86.0.09 µg/l 87.(JG-MKN)	88.0.09 µg/l 89.(JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4 Dichlorophenoxy acetic acid (2,4 D)	94-75-7	26 µg/l (MK)	26 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dichloroprop	15165-67-0	1.0 µg/l (JG-MKN) and 7.6 µg/l (MAC-MKN)	1.0 µg/l (JG-MKN) and 7.6 µg/l (MAC-MKN)	0.13 µg/l (JG-MKN) and 0.76 µg/l (MAC-MKN)	0.13 µg/l (JG-MKN) and 0.76 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichlorvos	62-73-7	0.0006 µg/l (JG-MKN) and 0.0007 µg/l (MAC-MKN)	0.0006 µg/l (JG-MKN) and 0.0007 µg/l (MAC-MKN)	0.00006 µg/l (JG-MKN) and 0.00007 µg/l (MAC-MKN)	0.00006 µg/l (JG-MKN) and 0.00007 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dimethanamid-P	163515-14-8	0.13 µg/l (JG-MKN) and 1.6 µg/l (MAC-MKN)	0.13 µg/l (JG-MKN) and 1.6 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dimethoate	60-51-5	0.07 µg/l (JG-MKN)	0.07 µg/l (JG-MKN)	0.07 µg/l (JG-MKN)	0.07 µg/l (JG-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		and 0.7 µg/l (MAC-MKN)	and 0.7 µg/l (MAC-MKN)	and 0.7 µg/l (MAC-MKN)	and 0.7 µg/l (MAC-MKN)					
Disulfoton	298-04-4	0.082 µg/l (MK)	90.0.082 µg/l (MK)	91.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dithianon	3347-22-6	0.097 µg/l (JG-MKN) and 0.36 µg/l (MAC-MKN)	92.0.097 µg/l (JG-MKN) and 0.36 µg/l (MAC-MKN)	93.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dodine	2439-10-3	0.44 µg/l (JG-MKN) and 2.0 µg/l (MAC-MKN)	94.0.44 µg/l (JG-MKN) and 2.0 µg/l (MAC-MKN)	95.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Esfenvalerate	66230-04-4	0.0001 µg/l (JG-MKN) and 0.00085 µg/l (MAC-MKN)	96.0.0001 µg/l (JG-MKN) and 0.00085 µg/l (MAC-MKN)	97.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Fenamiphos	22224-92-6	0.012 µg/l (JG-MKN) and 0.027 µg/l (MAC-MKN)	98.0.012 µg/l (JG-MKN) and 0.027 µg/l (MAC-MKN)	99.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Fenitrothion	122-14-5	0.009 µg/l (MK)	0.009 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Fenoxycarb	72490-01-8	0.0003 µg/l (JG-MKN) and 0.026 µg/l (MAC-MKN)	0.0003 µg/l (JG-MKN) and 0.026 µg/l (MAC-	100.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Fenthion	55-38-9	0.003 µg/l (MK)	0.003 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Heptachlor Heptachlor epoxide	76-44-8 1024-57-3	0.0005 µg/l (MK)	0.0005 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Heptenphos	23560-59-0	0.002 µg/l (JG-MKN) and 0.02 µg/l (MAC-MKN)	0.002 µg/l (JG-MKN) and 0.02 µg/l (MAC-MKN)	0.0002 µg/l (JG-MKN) and 0.002 µg/l (MAC-MKN)	0.0002 µg/l (JG-MKN) and 0.002 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Imidacloprid	138261-41-3	0.067 µg/l (JG-MKN) and 0.2 µg/l (MAC-MKN)	0.067 µg/l (JG-MKN) and 0.2 µg/l (MAC-MKN)	0.0036 µg/l (JG-MKN) and 0.36 µg/l (MAC-MKN)	0.0036 µg/l (JG-MKN) and 0.36 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Lamda-cyhalothrin	91465-08-6	0.00002 µg/l (JG-MKN) and 0.00047 µg/l (MAC-MKN)	0.00002 µg/l (JG-MKN) and 0.00047 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Linuron	330-55-2	0.25 µg/l (MK)	0.25 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Malathion	121-75-5	0.013 µg/l (MK)	0.013 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
2-Methyl 4chloro-phenoxyacetic acid's (MCPA)	94-74-6	1.4 µg/l (JG-MKN) and 15 µg/l (MAC-MKN)	1.4 µg/l (JG-MKN) and 15 µg/l (MAC-MKN)	0.14 µg/l (JG-MKN) and 1.5 µg/l (MAC-MKN)	0.14 µg/l (JG-MKN) and 1.5 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Mecoprop	93-65-2	18 µg/l (JG-MKN) and 160 µg/l (MAC-MKN)	18 µg/l (JG-MKN) and 160 µg/l (MAC-MKN)	1.8 µg/l (JG-MKN) and 16 µg/l (MAC-MKN)	1.8 µg/l (JG-MKN) and 16 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Metazachlor	67129-08-2	34 µg/l (MK)	34 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Methabenzthiazuron	18691-97-9	1.8 µg/l (MK)	1.8 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Methamidophos	10265-92-6	0.016 µg/l (MK)	0.016 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Metolachlor	51218-45-2	0.2 µg/l (MK)	0.2 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Metsulfuron-methyl	74223-64-6	0.01 µg/l (JG-MKN) and 0.03 µg/l (MAC-MKN)	0.01 µg/l (JG-MKN) and 0.03 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Mevinphos	7786-34-7	0.00017 µg/l (JG-MKN) and 0.017 µg/l (MAC-MKN)	0.00017 µg/l (JG-MKN) and 0.017 µg/l (MAC-MKN)	0.000017 µg/l (JG-MKN) and 0.0017 µg/l (MAC-MKN)	0.000017 µg/l (JG-MKN) and 0.0017 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Monolinuron	1746-81-2	0.15 µg/l (JG-MKN) and 0.15 µg/l (MAC-MKN)	0.15 µg/l (JG-MKN) and 0.15 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Omethoate	1113-02-6	1.2 µg/l (MK)	1.2 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Oxydemeton-methyl	301-12-2	0.035 µg/l (MK)	0.035 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary
Parathion-ethyl	56-38-2	0.005 µg/l (MK)	0.005 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Parathion-methyl	298-00-0	0.011 µg/l (MK)	0.011 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Phoxim	14816-18-3	0.082 µg/l (MK)	0.082 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pirimicarb	23103-98-2	0.09 µg/l (MK)	0.09 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pirimiphos-methyl	29232-93-7	0.0005 µg/l (JG-MKN) and 0.0016 µg/l (MAC-MKN)	0.0005 µg/l (JG-MKN) and 0.0016 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Propanil	709-98-8	0.07 µg/l (MK)	0.07 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Propoxur	114-26-1	0.01 µg/l (MK)	0.01 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pyrazon	1698-60-8	27 µg/l (JG-MKN) and 190 µg/l (MAC-MKN)	101.27 µg/l (JG-MKN) and 190 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pyridaben	96489-71-3	0.0017 µg/l (JG-MKN) and 0.0062 µg/l (MAC-MKN)	102.0.0017 µg/l (JG-MKN) and 0.0062 µg/l (MAC-MKN)	0.00094 µg/l (JG-MKN) and 0.0012 µg/l (MAC-MKN)	0.00094 µg/l (JG-MKN) and 0.0012 µg/l (MAC-MKN)	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pyriproxyphen	95737-68-1	0.00003 µg/l (JG-MKN) and 0.026 µg/l (MAC-MKN)	103.0.00003 µg/l (JG-MKN) and 0.026 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Terbutylazine	5915-41-3	0.19 µg/l (MK)	104.0.19 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Teflubenzuron	83121-18-0	0.0012 µg/l (JG-MKN) and 0.0017 µg/l (MAC-MKN)	105.0.0012 µg/l (JG-MKN) and 0.0017 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Tetrabutyl tin	1461-25-2	1.6 µg/l (MK)	1.6 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Tolclophos-methyl	57018-04-9	1.2 µg/l (JG-MKN) and 7.1 µg/l (MAC-MKN)	1.2 µg/l (JG-MKN) and 7.1 µg/l (MAC-MKN)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Triazophos	24017-47-8	106.0.001 µg/l (JG-MKN) and 0.02 µg/l (MAC-MKN)	0.001 µg/l (JG-MKN) and 0.02 µg/l (MAC-MKN)	0.0001 µg/l (JG-MKN) and 0.002 µg/l (MAC-MKN)	0.0001 µg/l (JG-MKN) and 0.002 µg/l (MAC-MKN)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Trichlorfon	52-68-6	0.001 µg/l (MK)	0.001 µg/l (MK)	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,5 Trichlorophenoxy acetic acid (2,4,5-T)	93-76-5	9.0 µg/l (MK)	9.0 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Triphenyl-tinacetate Triphenyltin chloride Triphenyltin hydroxide	900-95-8 639-58-7 76-87-9	0.005 µg/l (MK) 0.0009 µg/l (MK)	0.005 µg/l (MK) 0.0009 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Pharmaceuticals										
Chloral hydrate	302-17-0	500 µg/l (MK)	500 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons										
107.Benzo(a)anthracene	56-55-3	108.0.03 µg/l 109.(MK)	110.0.03 µg/l 111.(MK)	112.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Chloronaphthalene	-	0.77 µg/l (MK)	0.77 µg/l (MK)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Chrysene	218-01-9	113.0.9 µg/l 114.(AA)	0.9 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Phenanthrene	85-01-8	115.0.3 µg/l 116.(MK)	117.0.3 µg/l 118.(MK)	119.No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.

Notes: MK = Value expressed as an Annual Average , JG-MKN = Value expressed as an Annual Average, MAC-MKN = Value expressed as a Maximum Allowable Concentration

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS$_{sediment}$ for inland waters	EQS$_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	EQS$_{sediment}$ for inland waters	EQS$_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	
Polychlorinated biphenyls								
PCB 28	7012-37-5	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.
PCB 52	35693-99-3	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.
PCB 101	37680-73-2	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.
PCB 118	31508-00-6	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.
PCB138	35065-28-2	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.
PCB 153	35065-27-1	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.
PCB 180	35065-29-3	0.008 mg/kg dw (MK)	No value	No value	Not clear	-	-	EQS for the Good/ Moderate boundary.

Note: MK = Value expressed as an Annual Average

Table A18 River Basin Specific Pollutant Summary Sheet for Norway (NO)

Member State:	Norway
Body (bodies) responsible for the derivation of the EQS	The source document for the identification of the specific pollutants is not clear.
Source document(s) describing the derivation of the EQS values	Norway has identified Specific Pollutants but at present has not derived EQS values for the RBSPs.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic	7440-38-2	No value	No value	No value	No value	-	-	-	-	
Chromium	7440-47-3	No value	No value	No value	No value	-	-	-	-	
Organic chemicals (other than defined groups)										
Bisphenol A	80-05-7	No value	No value	No value	No value	-	-	-	-	
Decamethylcyclopentasiloxane (Siloxanes-D5)	541-02-6	No value	No value	No value	No value	-	-	-	-	
Dodecylphenol and its isomers	-	No value	No value	No value	No value	-	-	-	-	
Nonylphenol monoethoxylate	-	No value	No value	No value	No value	-	-	-	-	
Nonylphenol monoethoxylate	-	No value	No value	No value	No value	-	-	-	-	
Nonylphenol ethoxylate	9016-45-9	No value	No value	No value	No value	-	-	-	-	
Octylphenol and its ethoxylates	-	No value	No value	No value	No value	-	-	-	-	
Perfluorooctanoic acid (PFOA)		No value	No value	No value	No value	-	-	-	-	
Perfluorooctane sulfonic acid **(**PFOS**)**	1763-23-1	No value	No value	No value	No value	-	-	-	-	
Tetrachloroethene	127-18-4	No value	No value	No value	No value	-	-	-	-	
2,4,6-Tri-tert-butylphenol	732-26-3	No value	No value	No value	No value	-	-	-	-	

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Trichloroethene	79-01-6	No value	No value	No value	No value	-	-	-	-	
Pesticides										
2,6-Dichlorobenzamide	2008-58-4	No value	No value	No value	No value	-	-	-	-	
Triclosan	3380-34-5	No value	No value	No value	No value	-	-	-	-	
Triphenyltin acetate (Fentin acettate)	900-95-8	No value	No value	No value	No value	-	-	-	-	
Triphenyltin hydroxide (Fentin hydroxide)	76-87-9	No value	No value	No value	No value	-	-	-	-	
Triphenyltin ion	668-34-8	No value	No value	No value	No value	-	-	-	-	
Polycyclic aromatic hydrocarbons and hydrocarbons										
Medium-chain chlorinated paraffins (MCPP)	-	No value	No value	No value	No value	-	-	-	-	
Polychlorinated biphenyls										
Polychlorinated biphenyls	-	No value	No value	No value	No value	-	-	-	-	

Table A19 River Basin Specific Pollutant Summary Sheet for Poland (PO)

Member State:	Poland
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from Polish National Regulation Dz.U.2008.162.1008 (Dziennik Ustaw Nr 162 1008 Rozporzndzenie Ministra Arodowiska, z dnia 20 sierpnia 2008 r. w sprawie sposobu klasyfikacji stanu jednolitych cz Eci wod powierzchniowych)
Information on the application of the Specific Pollutants	The same specific pollutants have been applied to all the Polish River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Danube (PL1000), the Vistula (PL2000), the Swieza (PL3000), the Jarft (PL4000), the Elbe (PL5000), the Oder (PL6000), the Ucker (PL6700), the Pregolya (PL7000), the Nemunas (PL8000) and the Dniester (PL9000). At present Poland has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic (non-metallic substances)										
Cyanide	57-12-5	50 µg/l	50 µg/l	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Fluoride	16984-48-8	1500 µg/l	1500 µg/l	1500 µg/l	1500 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Metals and metalloids										
Aluminium	7429-90-5	400 µg/l	400 µg/l	400 µg/l	400 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Antimony	35734-21-5	2.0 µg/l	2.0 µg/l	2.0 µg/l	2.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Arsenic	7440-38-2	50 µg/l	50 µg/	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Barium	7440-39-3	500 µg/l	500 µg/l	500 µg/l	500 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Beryllium	1932-52-9	0.8 µg/l	0.8 µg/l	0.8 µg/l	0.8 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Boron	7440-42-8	2000 µg/l	2000 µg/l	2000 µg/l	2000 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Chromium	7440-47-3	50 µg/l	50 µg/l	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Cobalt	7440-48-4	50 µg/l	50 µg/	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Copper	7440-50-8	50 µg/l	50 µg/l	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Molybdenum	7439-98-7	40 µg/l	40 µg/l	40 µg/l	40 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Selenium	7782-49-2	20 µg/l	20 µg/l	20 µg/l	20 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Silver	7440-22-4	5.0 µg/l	5.0 µg/l	5.0 µg/l	5.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Thallium	7440-28-0	2.0 µg/l	2.0 µg/l	2.0 µg/l	2.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Titanium	7440-32-6	50 µg/l	50 µg/l	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Vanadium	7440-62-2	50 µg/l	50 µg/l	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Zinc	7440-66-6	1000 µg/l	1000 µg/l	1000 µg/l	1000 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Organic chemicals (other than defined groups)										
Petroleum hydrocarbons		200 µg/l	200 µg/l	200 µg/l	200 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.
Phenol	64743-03-9	10 µg/l	10 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the High/Good Status boundary.

Table A20 River Basin Specific Pollutant Summary Sheet for Romania (RO)

Member State:	Romania
Source document(s) describing the identification of the Specific Pollutants	The water column EQS values are given in “Criteria for setting up the relevant List II substances from MO 31/2006 - Anexa nr. 1A”,
Information on the application of the Specific Pollutants	At present Romania has established water column EQS values for surface waters, sediments and biota.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Arsenic	7440-38-2	7.2 µg/l (AA)	7.2 µg/l (AA)	1.2 µg/l (AA)	1.2 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Barium	7440-39-3	200 µg/l (AA)	200 µg/l (AA)	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Beryllium	7440-41-7	0.05 µg/l (AA)	0.05 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium	7440-47-3	2.5 µg/l (AA)	2.5 µg/l (AA)	1.0 µg/l (AA)	1.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Cobalt	7440-48-4	0.7 µg/l (AA)	0.7 µg/l (AA)	0.2 µg/l (AA)	0.2 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Copper	7440-50-8	1.3 µg/l (AA)	1.3 µg/l (AA)	0.13 µg/l (AA)	0.13 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Molybdenum	7439-98-7	3.6 µg/l (AA)	3.6 µg/l (AA)	1.2 µg/l (AA)	1.2 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Selenium	7782-49-2	0.07 µg/l (AA)	0.07 µg/l (AA)	0.07 µg/l (AA)	0.07 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Thallium	7440-28-0	2.0 µg/l (AA)	2.0 µg/l (AA)	2.0 µg/l (AA)	2.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Tin	7440-31-5	2.2 µg/l (AA)	2.2 µg/l (AA)	0.22 µg/l (AA)	0.22 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Vanadium	7440-62-2	1.2 µg/l (AA)	1.2 µg/l (AA)	1.2 µg/l (AA)	1.2 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
Alpha,alpha-dichlor-toluene	98-87-3	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2 amino-4-chlorophenol	95-85-2	3.0 µg/l (AA)	3.0 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Benzyl chloride	100-44-7	120.10 µg/l (AA)	121.10 µg/l (AA)	122.3.0 µg/l 123.(AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Biphenyl		1.0 µg/l (AA)	124.1.0 µg/l	126.0.1 µg/l 127.(AA)	128.0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
			125.(AA)							
Bis(2-chloro-1-methyl ethyl) ether	108-60-1	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chloroacetic acid	79-11-8	129.10 µg/l (AA)	130.10 µg/l (AA)	131.3.0 µg/l 132.(AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2 -Chloroaniline	95-51-2	3.0 µg/l (AA)	3.0 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3 -Chloroaniline	108-42-9	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chloroaniline	106-47-8	0.05 µg/l (AA)	0.05 µg/l (AA)	0.005 µg/l (AA)	0.005 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2-Chloro-4-methylaniline	615-65-6	3.0 µg/l (AA)	3.0 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chloro-3-methylphenol	59-50-7	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4- Chloro-2-nitroaniline	89-63-4	3.0 µg/l (AA)	3.0 µg/l (AA)	0.3 µg/l (AA)	0.3 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chloronitrobenezene	100-00-5	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chloro-2-nitrotoluene	89-59-8	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chloronitrotoluenes	-	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2 -Chlorophenol	95-57-8	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3- Chlorophenol	108-43-0	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4-Chlorophenol	106-48-9	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3-Chloropropene	107-05-1	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2 Chlorotoluene	95-49-8	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3- Chlorotoluene	108-41-8	10 µg/l	10 µg/l	3.0 µg/l	3.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA)	(AA)	(AA)	(AA)					boundary.
4-Chlorotoluene	106-43-4	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
4,4-Diamino diphenol	-	1.0 µg/l (AA)	1.0 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2-Dibromomethane	74-95-3	2.0 µg/l (AA)	2.0 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichloroaniline (all isomers)	608-27-5, 554-00-7, 95-82-9, 608-31-1, 95-76-1, 626-43-7	133.1.0 µg/l (AA) individual isomer	134.1.0 µg/l (AA) individual isomer	135.0.1 µg/l 136.(AA) individual isomer	137.0.1 µg/l (AA) individual isomer	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2-Dichlorobenzene	95-50-1	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,4-Dichlorobenzene	106-46-7	10 µg/l (AA)	10 µg/l (AA)	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1-Dichloroethane	75-34-3	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	10 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichloronitrobenzene (all isomers)	-	138.No value	139.No value	140.3.0 µg/l 141.(AA)	142.3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4-Dichlorophenol	120-83-2	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2-Dichloropropane	78-87-5	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,3-Dichloro-2-propanol	96-23-1	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,3-Dichloropropene	542-75-6	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,3-Dichloropropene	78-88-6	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Diethylamine	109-89-7	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dimethylamine	124-40-3	10 µg/l	10 µg/l	3.0 µg/l	3.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA)	(AA)	(AA)	(AA)					boundary.
Di-n-butyl ether	142-96-1	143.0.01 µg/l (AA)	144.0.01 µg/l (AA)	145.0.001 µg/l (AA)	146.0.00 1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4-Dinitrobenzene	99-65-0	5.0 µg/l (AA)	5.0 µg/l (AA)	1.0 µg/l (AA)	1.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Epichlorohydrin	106-89-8	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Ethylbenzene	100-41-4	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Hexachloroethane	67-72-1	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Isopropylbenzene	103-65-1	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)					
2- Nitrochlorobenzene	88-73-3	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
3 -Nitrochlorobenzene	121-73-3	1.0 µg/l (AA)	1.0 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2,4,5-tetrachloro benzene	95-94-3	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Toluene	108-88-3	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,1-trichloroethane	71-55-6	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,2,2-tetrachloro-ethane	79-34-5	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,1-trichloroethane	71-55-6	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,2-trichloroethane	79-00-5	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,2- trichlorotrifluoro ethane	76-13-1	10 µg/l (AA)	10 µg/l (AA)	3.0 µg/l (AA)	3.0 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Vinyl chloride	75-01-4	2.0 µg/l (AA)	2.0 µg/l (AA)	0.2 µg/l (AA)	0.2 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Xylene (m-,o-,p-)	1330-20-7	10 µg/l (AA)	10 µg/l (AA)	0.1 µg/l (AA)	0.1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary. Values for individual isomers
Pesticides										
Azinphos ethyl	2642-71-9	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Azinphos-methyl	86-50-0	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chlordane	57-74-9	147.0.003 µg/l (AA)	148.0.003 µg/l (AA)	149.0.0001 150.µg/l (AA)	0.0001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chloridazon (pirazon)	1698-60-8	0.1 µg/l (AA)	151.0.1 µg/l (AA)	152.0,001 µg/l (AA)	0,001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Coumaphos	56-72-4	0,07 µg/l (AA)	0,07 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Demeton-s	126-75-0	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Demeton-s-methyl	919-86-8	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Demeton S-methyl sulfoxide	301-12-2	0.1 µg/l (AA)	0.1 µg/l (AA)	No value	No value	Not clear	Not clear	-	-	EQS for the Good/Moderate boundary.
Dibutyltin chloride	683-18-1	153.0.01 µg/l (AA)	154.0.01 µg/l (AA)	155.0.001 µg/l (AA)	156.0.00 1 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4-Dichlorophenoxy acetic acid (2,4-D) - Acid	94-75-7	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4-Dichlorophenoxy acetic acid (2,4-D) – Salts and esters		0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichloroprop	120-36-5	0.1 µg/l (AA)	0.1 µg/l (AA)	0.0001 µg/l (AA)	0.0001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dimethoate	60-51-5	0.1 µg/l (AA)	0.1 µg/l (AA)	0.0001 µg/l (AA)	0.0001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Disulfoton	298-04-4	0,004 µg/l (AA)	157.0,004 µg/l (AA)	158.0,0001 µg/l (AA)	0,0001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Fenitrothion	122-14-5	0.02 µg/l (AA)	0.02 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Heptachlor	76-44-8	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Linuron	330-55-2	0.1 µg/l (AA)	0.1 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Malathion	121-75-5	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
MCPA	94-74-6	0.1 µg/l (AA)	0.1 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Mecoprop	93-65-2	0.1 µg/l (AA)	0.1 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Methamidophos	10265-92-6	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Mevinphos	7786-34-7	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Monolinuron	1746-81-2	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Omethoate	1113-02-6	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Parathion-ethyl	56-38-2	0,0002 µg/l (AA)	0,0002 µg/l (AA)	0,0002 µg/l (AA)	0,0002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Parathion-methyl	298-00-0	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	0.0002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Propanil	709-98-8	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Tetrabutyl tin	1461-25-2	0.001 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Triazofos	24017-47-8	0.03 µg/l (AA)	0.03 µg/l (AA)	0.003 µg/l (AA)	0.003 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Trichlorfon	52-68-6	0.002 µg/l (AA)	0.002 µg/l (AA)	0.002 µg/l (AA)	0.002 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	93-76-5	0.1 µg/l (AA)	0.1 µg/l (AA)	0.001 µg/l (AA)	0.001 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Triphenyltin acetate	900-95-8	159.0,0001 µg/l (AA)	160.0,0001 µg/l (AA)	161.0,0001 162.µg/l (AA)	163.0,00 01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Triphenyltin hydroxide	76-87-9	164.0,0001 µg/l (AA)	165.0,0001 µg/l (AA)	166.0,0001 167.µg/l (AA)	168.0,00 01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pharmaceuticals										
Chloral hydrate	302-17-0	169.10 µg/l (AA)	170.10 µg/l (AA)	171.3 µg/l 172.(AA)	3 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons										
Polycyclic aromatic hydrocarbons (PAH)(total)	130498-29-2	173.0,1 µg/l (AA)	174.0,1 µg/l (AA)	175.0,0001 176.µg/l (AA)	177.0,00 01 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
178.Benzo(a)anthracene	56-55-3	179.0.01 µg/l (AA)	180.0.01 µg/l (AA)	181.0,05 µg/l (AA)	182.0,05 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chloronaphthalene	25586-43-0	0.01 µg/l (AA)	0.01 µg/l (AA)	0.01 µg/l	0.01 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Phenanthrene	85-01-8	0,03 µg/l (AA)	0,03 µg/l (AA)	0,03 µg/l (AA)	0,03 µg/l (AA)	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Notes: AA = Annual average

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS$_{sediment}$ for inland waters	EQS$_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	EQS$_{sediment}$ for inland waters	EQS$_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	
Metals and metalloids								
Chromium	7440-47-3	No value	0.1 mg/kg dw (AA)	No value	-	Not clear	-	EQS for the Good/ Moderate boundary
Copper	7440-50-8	No value	0.04 mg/kg dw (AA)	No value	-	Not clear	-	EQS for the Good/ Moderate boundary
Polyaromatic hydrocarbons and hydrocarbons								
Polyaromatic hydrocarbons	-	No value	0.1 mg/kg dw (AA)	No value	-	Not clear	-	EQS for the Good/ Moderate boundary

Biota EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS biota	EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6	Comments
Metals and metalloids				
Chromium	7440-47-3	0.00149 mg/kg ww (CW)	Not clear	EQS for the Good/Moderate boundary
Copper	7440-50-8	0.00149 mg/kg ww (CW) – 0.00296 mg/kg ww (TW)	Not clear	EQS for the Good/Moderate boundary

Note: TW = Transitional waters, CW = Coastal waters

Table A21 River Basin Specific Pollutant Summary Sheet for Slovakia (SK)

Member State:	Slovakia
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from in “Metodika pre odvodenie referenčných podmienok a kalsifikačných schém pre hodnotenie ekologického stavu vôd”
Information on the application of the Specific Pollutants	The same EQS values have been applied to the River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: the Vistula (SK30000) and the Danube (SK40000). No water column EQS values have been derived for transitional waters and coastal waters as Slovakia is a land locked country. At present Slovakia has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic substances										
Cyanide	74-90-8	5.0 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Metals and metalloids										
Arsenic	7440-38-2	7.5 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Chromium (III and VI)	7440-47-3	9.0 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Copper	7440-50-8	1.1 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	7.8 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
Aniline	62-53-3	1.5 µg/l (AA) 16 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Benzenesulfonamide	98-10-2	100 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Benzthioazole	95-16-9	2.0 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Biphenyl	92-52-4	1.0 µg/l (AA) 3.6 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Bisphenol A	80-05-7	10 µg/l (AA) 460 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Dibutyl phthalate	84-74-2	10 µg/l (AA) 48 µg/l	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(MAC)								
Diphenylamine	122-39-4	1.6 µg/l (AA) 31 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
2,6-Di-tert-butyl-4-methyl phenol	128-37-0	1.4 µg/l (AA) 17 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Ethofumesate	26225-79-6	6.4 µg/l (AA) 50 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Formaldehyde	50-00-0	5.0 µg/l (AA) 50 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Styrene	100-42-5	0.63 µg/l (AA) 60 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Toluene	108-88-3	100 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
1,1,2-Trichloroethane	79-00-5	300 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Xylene (mixed isomers	1330-20-7	10 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Pesticides										
Clopryalide	1702-17-6	70 µg/l (AA) 300 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Desmedipham	13684-56-5	1.0 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		15 µg/l (MAC)								
Glyphosate	1071-83-6	15 µg/l (AA)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
2-Methyl-4chlorophenoxy acetic acid's (MCPA)	94-74-6	1.6 µg/l (AA) 15 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Pendimethalin	40487-42-1	0.3 µg/l (AA) 2.0 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.
Polyaromatic hydrocarbons and hydrocarbons										
Phenanthrene	85-01-8	0.38 µg/l (AA) 2.0 µg/l (MAC)	No value	Not relevant	Not relevant	Yes	-	-	-	EQS for the Good/Moderate boundary.

Notes: AA = Annual Average**,** MAC = Maximum Allowable Concentration

Table A22 River Basin Specific Pollutant Summary Sheet for Slovenia (SV)

Member State:	Slovenia
Source document(s) describing the identification of the Specific Pollutants	The specific pollutants have been derived from CRP: priprava okoljskih standardov za kemijske snovi v vodnem okolju – poročilo II faze projekta.
Information on the application of the Specific Pollutants	Slovenia has established water column and sediment EQSs.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic substances										
Cyanide	57-12-5	1.2 µg/l (AA) 17 µg/l (MAC)	1.2 µg/l (AA) 17 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary EQS as free cyanide
Fluoride	16984-48-8	680 µg/l (AA) 6800 µg/l (MAC)	680 µg/l (AA) 6800 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary
Metals and metalloids										
Antimony	7440-36-0	3.2 µg/l (AA) 30 µg/l (MAC)	3.2 µg/l (AA) 30 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary
Arsenic	7440-38-2	7.0 µg/l (AA) 21 µg/l (MAC)	7.0 µg/l (AA) 21 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration
Chromium	7440-47-3	12 µg/l (AA) 160 µg/l (MAC)	12 µg/l (AA) 160 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary EQS as total Chromium
Cobalt	7440-48-4	0.28 µg/l (AA) 2.8 µg/l (MAC)	0.28 µg/l (AA) 2.8 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Copper	7440-50-8	8.2 µg/l (AA-MB) 73 µg/l (AA-AB)	8.2 µg/l (AA-MB) 73 µg/l (AA-AB)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary EQS values consider maximum bioavailability (MB)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		30 µg/l (MAC-MB) 290 µg/l (MAC-AB)	30 µg/l (MAC-MB) 290 µg/l (MAC-AB)							and average bioavailability (AB)
Molybdenium	7439-98-7	24 µg/l (AA) 200 µg/l (MAC)	24 µg/l (AA) 200 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Selenium	7782-49-2	6.0 µg/l (AA) 72 µg/l (MAC)	6.0 µg/l (AA) 72 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Zinc	7440-66-6	3.1-7.8 µg/l (AA) 31-78 µg/l (MAC)	3.1-7.8 µg/l (AA) 31-78 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration EQS for rivers and lakes depend on water hardness as follows: 3.1 µg/l (AA) or 31 µg/l (MAC) (<24 mg $CaCO_3$/l) 7.8 µg/l (AA) or 78 µg/l (MAC) (≥24 mg $CaCO_3$/l)
Organic chemicals (other than defined groups)										
Bisphenol A	80-05-7	1.6 µg/l (AA) 16 µg/l (MAC)	1.6 µg/l (AA) 16 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	0.02 µg/l (AA) 0.22 µg/l (MAC)	0.02 µg/l (AA) 0.22 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Dibutyl phthalate	84-74-2	10 µg/l (AA)	10 µg/l (AA)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		100 µg/l (MAC)	100 µg/l (MAC)							
Epichlorohydrin	106-89-8	12 µg/l (AA) 120 µg/l (MAC)	12 µg/l (AA) 120 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Formaldehyde	50-00-0	130 µg/l (AA) 1300 µg/l (MAC)	130 µg/l (AA) 1300 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Hexachloroethane	67-72-1	24 µg/l (AA) 240 µg/l (MAC)	24 µg/l (AA) 240 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
n-Hexane	110-54-3	0.12 µg/l (AA) 1.2 µg/l (MAC)	0.12 µg/l (AA) 1.2 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Linear alkyl benzene sulphonates (LAS)	42615-29-2	250 µg/l (AA) 2500 µg/l (MAC)	250 µg/l (AA) 2500 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary EQS as total Chromium
2-Methyl-4-isothiazolin-3-one	2682-20-4	0.05 µg/l (AA) 0.5 µg/l (MAC)	0.05 µg/l (AA) 0.5 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Phenol	108-95-2	7.7 µg/l (AA) 77 µg/l (MAC)	7.7 µg/l (AA) 77 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Toluene	108-88-3	74 µg/l (AA) 740 µg/l (MAC)	74 µg/l (AA) 740 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
1,2,4-Trimethylbenzene	95-63-6	2.0 µg/l	2.0 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(AA) 20 µg/l (MAC)	(AA) 20 µg/l (MAC)							boundary
1,3,5-Trimethylbenzene	108-67-8	2.0 µg/l (AA) 20 µg/l (MAC)	2.0 µg/l (AA) 20 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Xylenes	1330-20-7	185 µg/l (AA) 1850 µg/l (MAC)	185 µg/l (AA) 1850 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Pesticides										
Captan	133-06-2	0.1 µg/l (AA) 1.0 µg/l (MAC)	0.1 µg/l (AA) 1.0 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Chlorotoluron (+ desmetil chlorotoluron)	15545-48-9	0.8 µg/l (AA) 8.0 µg/l (MAC)	0.8 µg/l (AA) 8.0 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary EQS as total Chromium
Diazinon	333-41-5	0.0034 µg/l (AA) 0.034 µg/l (MAC)	0.0034 µg/l (AA) 0.034 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Dibuthyltin ion	-	0.02 µg/l (AA) 0.21 µg/l (MAC)	0.02 µg/l (AA) 0.21 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Ethylene-thiourea (ETU) (degradation product of mancozeb and metiram)	-	200 µg/l (AA) 325 µg/l (MAC)	200 µg/l (AA) 325 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Folpet	133-07-3	0.098 µg/l (AA) 0.98 µg/l	0.098 µg/l (AA) 0.98 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
		(MAC)	(MAC)							
Glyphosate	1071-83-6	20 µg/l (AA) 200 µg/l (MAC)	20 µg/l (AA) 200 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Mancozeb	8018-01-7	0.07 µg/l (AA) 0.7 µg/l (MAC)	0.07 µg/l (AA) 0.7 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Metiram	9006-42-2	0.07 µg/l (AA) 0.7 µg/l (MAC)	0.07 µg/l (AA) 0.7 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Pendimethalin	40487-42-1	0.3 µg/l (AA) 3.0 µg/l (MAC)	0.3 µg/l (AA) 3.0 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
S-metolachlor	87392-12-9	0.27 µg/l (AA) 2.7 µg/l (MAC)	0.27 µg/l (AA) 2.7 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Terbutylazine	5915-41-3	0.53 µg/l (AA) 5.3 µg/l (MAC)	0.53 µg/l (AA) 5.3 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary
Triclosan	3380-34-5	0.29 µg/l (AA) 2.9 µg/l (MAC)	0.29 µg/l (AA) 2.9 µg/l (MAC)	No value	No value	Yes	Yes	-	-	EQS for the Good/Moderate boundary

Notes: AA = Annual Average, MAC = Maximum Allowable Concentration

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		$EQS_{sediment}$ for inland waters	$EQS_{sediment}$ for marine water	$EQS_{sediment}$ for Equilibrium Partitioning approach	$EQS_{sediment}$ for inland waters	$EQS_{sediment}$ for marine water	$EQS_{sediment}$ for Equilibrium Partitioning approach	
Metals and metalloids								
Antimony	7440-36-0	No value	No value	5.4 mg/kg dw (AA) 51 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Arsenic	7440-38-2	No value	No value	31 mg/kg dw (AA) 92 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Chromium	7440-47-3	No value	No value	1500 mg/kg dw (AA) 20400 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Cobalt	7440-48-4	No value	No value	0.74 mg/kg dw (AA) 7.4 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Copper	7440-50-8	98 mg/kg dw (AA) 548 mg/kg dw (MAC)	No value	No value	Yes	-		EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Molybdenum	7439-98-7	No value	No value	14 mg/kg dw (AA) 110 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount

Substance	CAS Number	EQS $_{sediment}$			EQS $_{sediment}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		$EQS_{sediment}$ for inland waters	$EQS_{sediment}$ for marine water	$EQS_{sediment}$ for Equilibrium Partitioning approach	$EQS_{sediment}$ for inland waters	$EQS_{sediment}$ for marine water	$EQS_{sediment}$ for Equilibrium Partitioning approach	
								beyond the background concentration.
Selenium	7782-49-2	1.7 mg/kg dw (AA) 20 mg/kg dw (MAC)	No value	-	Yes	-	-	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Zinc	7440-66-6	37 mg/kg dw (AA) 370 mg/kg dw (MAC)	No value	-	Yes	-	-	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Pesticides								
Dibutyltin	-	67.9 mg/kg dw (AA) 679 mg/kg dw (MAC)	No value	No value	-	-	Yes	EQS for the Good/Moderate boundary EQS expressed as added risk. The value is the added amount beyond the background concentration.
Pendimethalin	40487-42-1	No value	No value	0.21 mg/kg dw (AA) 2.1 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary
Triclosan	3380-34-5	No value	No value	0.29 mg/kg dw (AA) 2.9 mg/kg dw (MAC)	-	-	Yes	EQS for the Good/Moderate boundary
Polychlorinated biphenyls								
PCB 118	31508-00-6	0.5 mg/kg dw (AA)	No value	No value	-	-	Yes	EQS for the Good/Moderate boundary
PCB 153	35065-28-2	3.0 mg/kg dw (AA)	No value	No value	-	-	Yes	EQS for the Good/Moderate boundary

Notes: AA = Annual Average, MAC = Maximum Allowable Concentration

Table A23 River Basin Specific Pollutant Summary Sheet for Spain (ES)

Member State:	Spain
Source document(s) describing the identification of the Specific Pollutants	The source document for the identification of the specific pollutants is not clear.
Information on the application of the Specific Pollutants	The same specific pollutants have not been applied to all River Basin Districts, namely (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012): Cantabrian (ES016), Guadalquivir (ES050), Andalusia Mediterranean Basins (ES060), Guadalete and Barbate (ES063), Segura (ES070), Jucar (ES0800, Ebro (ES091) and Catalonia (ES100) At present Spain has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic compounds										
Cyanide	74-90-8	40 µg/l	40 µg/l	10 µg/l	5.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Fluoride	-	1700 µg/l	1700 µg/l	1700 µg/l	1700 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Metalsand metalloids										
Arsenic	7440-38-2	50 µg/l	50 µg/l	25-50 µg/l	25-37.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium (III and VI)	7440-47-3	50 µg/l	50 µg/l	5.0-7.5 µg/l	5.0-7.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Chromium (VI)	-	5.0 µg/l	No value	No value	5.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Copper	7440-50-8	22-120 µg/l	22 µg/l	25-40 µg/l	20-37.5 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Selenium	7782-49-2	1.0 µg/l	1.0 µg/l	10 µg/l	10 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Zinc	7440-66-6	200 µg/l	200 µg/l	60-90 µg/l	60-90 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Organic chemicals (other than defined groups)										
Chlorobenzene	105-90-7	20 µg/l	20 µg/l	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Dichlorobenzene	25312-22-6	20 µg/l	20 µg/l	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,2-Dimethylbenzene	95-47-6	No value	No value	30 µg/l	30 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Ethylbenzene	100-41-4	30 µg/l	30 µg/l	30 µg/l	30 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Phenol (petroleum)	64743-03-9	No value	No value	50 µg/l	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Toluene	108-88-3	50 µg/l	50 µg/l	50 µg/l	50 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
1,1,1-Trichloroethane	71-55-6	100 µg/l	100 µg/l	100 µg/l	100 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										boundary.
Xylene (mixed isomers)	1330-20-7	30 µg/l	30 µg/l	No value	30 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Pesticides										
Metolachlor	51218-45-2	1.0 µg/l	1.0 µg/l	No value	No value	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.
Terbuthylazin	5915-41-3	1.0 µg/l	1/0 µg/l	1.0 µg/l	1.0 µg/l	Not clear	Not clear	Not clear	Not clear	EQS for the Good/Moderate boundary.

Table A24 River Basin Specific Pollutant Summary Sheet for Sweden (SE)

Member State:	Sweden
Source document(s) describing the derivation of the EQS values	The water column and sediment EQS values are given in the "Guidance on proposal for limit values for specific pollutants. Support to river basin authorities for status classification and setting of environmental objectives". Swedish Environmental Protection Agency Report No. 5799. 2008. Available at: www.vattenmyndigheterna.se/NR/rdonlyres?12F494F6-B812-4EE4-8E88-5252FE38)D2F/0/NV_rapp5799_fororenande_amnen.pdf The biota EQS values for dioxinlike PCBs, chlorinated dioxins and furans were calculated the source document used: EU for human consumption of fish (EG 1881/2006). The biota EQS values for non-dioxinlike PCBs were calculated using the source document used for human consumption of fish : LIVSFS 1993:36.
Information on the application of the EQS values	The EQS values apply to all the Swedish River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: Bothnian Bay (SE1), Bothnian Sea (SE2), North Baltic (SE3), South Baltic (SE4) and Skagerrak and Kattegat (SE5). At present Sweden has established water column, sediment and biota EQS values for surface waters.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Metals and metalloids										
Chromium	7440-47-3	3.0 µg/l	3.0 µg/l	3.0 µg/l	3.0 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment
Copper	7440-50-8	4.0 µg/l	4.0 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment
Zinc	7440-66-6	3.0 - 8.0 µg/l	3.0 -8.0 µg/l	8.0 µg/l	8.0 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary. EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment EQS for rivers and lakes depend on water hardness as follows: 3 µg/l (<24 mg CaCO3/l as annual mean) 8 µg/l (.24 mg CaCO3/l as annual mean)
Organic chemicals (other than defined groups)										

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Bisphenol A	80-05-7	1.5 µg/l	1.5 µg/l	0.15 µg/l	0.15 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Hexabromocyclododecance	25637-99-4	0.3 µg/l	0.3 µg/l	0.03 µg/l	0.03 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Nonylphenol ethoxylates	25154-52-3	0.3 µg/l	0.3 µg/l	0.3 µg/l	0.3 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary. The EQS for nonylphenol etoxylates is based on the sum of nonylphenol equivalents (NPTEQ).
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	30 µg/l	30 µg/l	3.0 µg/l	3.0 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Sulfosulfuron	141776-32-1	0.05 µg/l	0.05 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Pesticides										
Aclonifen	74070-46-5	0.2 µg/l	0.2 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Bentazon	25057-89-0	30 µg/l	30 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Bronopol	52-51-7	0.7 µg/l	0.7 µg/l	0.3 µg/l	0.3 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Chloridazon	1698-60-8	10 µg/l	10 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Cyanazine	21725-46-2	1.0 µg/l	1.0 µg/l	No value	No value	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Cybutryne (Irgarol)	28159-98-0	No value	No value	0.003 µg/l	0.003 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Dichlorprop	120-36-5	10 µg/l	10 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Diflufenican	83164-33-4	0.005 µg/l	0.005 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Dimethoate	60-51-5	0.7 µg/l	0.7 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Fenpropimorph	67306-03-0	0.2 µg/l	0.2 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										Moderate boundary.
Glyphosate	1071-83-6	100 µg/l	100 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Mecoprop	93-65-2	20 µg/l	20 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Mecoprop-P	16484-77-8	20 µg/l	20 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Metamitron	41394-05-2	10 µg/l	10 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Metsulfuron methyl	74223-64-6	0.02 µg/l	0.02 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Metribuzin	21087-64-9	0.08 µg/l	0.08 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
2-Methyl-4-chlorophenoxy acetic acid **(**MCPA)	94-74-6	1.0 µg/l	1.0 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Pirimicarb	23103-98-2	0.09 µg/l	0.09 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Thifensulfuron-methyl	79277-27-3	0.05 µg/l	0.05 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Tribenuron-methyl	101200-48-0	0.1 µg/l	0.1 µg/l	No value	No value	Yes	Yes	-	-	EQS for the Good/ Moderate boundary.
Triclosan	3380-34-5	0.05 µg/l	0.05 µg/l	0.005 µg/l	0.005 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.
Polyaromatic hydrocarbons and hydrocarbons										
MCCP medium -chain chlorinated paraffins	85535-85-9	1.0 µg/l	1.0 µg/l	0.2 µg/l	0.2 µg/l	Yes	Yes	Yes	Yes	EQS for the Good/ Moderate boundary.

Sediment EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS $_{sediment}$ and/or EQS $_{biota}$			EQS $_{sediment}$ and/or EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS $_{sediment}$ for inland waters	EQS $_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	
Metals and metalloids								
Chromium	7440-47-3	No value	No value	0.7-7.0 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary
Zinc	7440-66-6	No value	No value	860 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary. The EQS for Zinc is based on added risk: the value is the added amount beyond the background concentration
Organic chemicals (other than defined groups)								
Bisphenol A	80-05-7	No value	No value	0.1 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Hexabromocyclododecance	25637-99-4	0,9 mg/kg dw	0,9 mg/kg	No value	Yes	Yes	-	EQS for the Good/ Moderate boundary.
Nonylphenol ethoxylates	25154-52-3	No value	No value	0.2 mg/kg dw NP-TEQ	-	-	Yes	EQS for the Good/ Moderate boundary. The EQS for nonylphenol etoxylates is based on the sum of nonylphenol equivalents (NPTEQ).
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	No value	No value	No value				EQS for the Good/ Moderate boundary.
Sulfosulfuron	141776-32-1	No value	No value	0.00003 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Pesticides								
Aclonifen	74070-46-5	No value	No value	0.1 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Bentazon	25057-89-0	No value	No value	0.04 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Bronopol	52-51-7	No value	No value	0.0007 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Chloridazon	1698-60-8	No value	No value	0.2 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.

Substance	CAS Number	EQS $_{sediment}$ and/or EQS $_{biota}$			EQS $_{sediment}$ and/or EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS $_{sediment}$ for inland waters	EQS $_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	
Cyanazine	21725-46-2	No value	No value	0.007 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Cybutryne (Irgarol)	28159-98-0	No value	No value	0.0002-0.0008 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Dichlorprop	120-36-5	No value	No value	0.04 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Diflufenican	83164-33-4	No value	No value	0,0009 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Dimethoate	60-51-5	No value	No value	0.001 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Fenpropimorph	67306-03-0	No value	No value	0.06 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Glyphosate	1071-83-6	No value	No value	180 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Mecoprop	93-65-2	No value	No value	0.04 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Mecoprop-P	16484-77-8	No value	No value	0.04 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Metamitron	41394-05-2	No value	No value	No value	-	-	Yes	EQS for the Good/ Moderate boundary.
2-Methyl-4-chlorophenoxy acetic acid **(**MCPA)	94-74-6	No value	No value	0.08 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Metribuzin	21087-64-9	No value	No value	0.0008 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Metsulfuron-methyl	74223-64-6	No value	No value	0.000006 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Pirimicarb	23103-98-2	No value	No value	0.0004 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Thifensulfuron-methyl	79277-27-3	No value	No value	0.00007 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Tribenuron-methyl	101200-48-0	No value	No value	0.0001 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Triclosan	3380-34-5	No value	No value	0.2 mg/kg dw	-	-	Yes	EQS for the Good/ Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons								
MCCP medium -chain	85535-85-9	20 mg/kg dw	5 mg/kg	No value	Yes	Yes	-	EQS for the Good/ Moderate

Substance	CAS Number	EQS $_{sediment}$ and/or EQS $_{biota}$			EQS $_{sediment}$ and/or EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6			Comments
		EQS $_{sediment}$ for inland waters	EQS $_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	EQS $_{sediment}$ for Inland waters	EQS $_{sediment}$ for marine water	EQS$_{sediment}$ for Equilibrium Partitioning approach	
chlorinated paraffins								boundary.
Polychlorinated biphenyls								
Dioxinlike PCBs, chlorinated dioxins and furans	-	9 x 10^{-7} mg TEQfish/kg dw[1]	9 x 10^{-7} mg TEQfish/kg dw[1]	No value	Yes	Yes	-	EQS for the Good/ Moderate boundary. 1. EQS in EU for human consumption of fish (EG 1881/2006)
Non-dioxinlike PCBs	-	0.03 mg total-PCB/kg dw	0.02 mg total-PCB/kg dw	No value	Yes	Yes	-	EQS for the Good/ Moderate boundary. 1:EQS $_{biota}$ in Sweden for human consumption of fish (LIVSFS 1993:36)

Biota EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS biota	EQS $_{biota}$ derived using the procedure in WFD Annex V 1.2.6	Comments
Organic chemicals (other than defined groups)				
Hexabromocyclododecance	25637-99-4	1.5 mg/kg	Yes	EQS for the Good/ Moderate boundary.
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.006 mg/kg ww	yes	EQS for the Good/ Moderate boundary.
Polycyclic aromatic hydrocarbons and hydrocarbons				
MCCP medium -chain chlorinated paraffins	85535-85-9	No value	Yes	EQS for the Good/ Moderate boundary.
Polychlorinated biphenyls				
Dioxinlike PCBs, chlorinated dioxins and furans	-	8x10^{-6} mg TEQmammals/kg ww	Yes	EQS for the Good/ Moderate boundary.
Non-dioxinlike PCBs	-	0.1 mg/kg PCB-153 ww	Yes	EQS for the Good/ Moderate boundary.

Table A25 River Basin Specific Pollutant Summary Sheet for the United Kingdom (UK)

Member State:	United Kingdom
Source document(s) describing the derivation of the EQS values	The source document for most of the specific pollutants is Proposals for Environmental Quality Standards for Annex VIII Substances. Report SR1 - 2007 Final. United Kingdom Technical Advisory Group. January 2008. Available at: www.wfduk.org/UK_Environmental_Standards/LibraryPublicDocs/final_specific_pollutants Information on specific substances are given in the SR1 – 2007 Specific Pollutant Technical Reports: Available at: www.wfduk.org/UK_Environmental_Standards/stakeholder_reviews/stakeholder_review_1-2007/sr1-2007-reports/ For ammonia the source document is Proposed Environmental Quality Standards for List II substances in water: ammonia. WRc Technical Report TR 260. WRc Plc. 1988. For copper the source document is Proposed Environmental Quality Standards for List II substances in Water. Copper. WRc Technical Report TR 210. WRc Plc. 1984. For zinc the source document is Proposed Environmental Quality Standards for List II substances in Water. Zinc. WRc Technical Report TR 209. WRc Plc, 1984.
Information on the application of the EQS values	The EQS values apply to all the United Kingdom River Basin Districts (based on the information in the Summary of the WISE Electronic Delivery of River Basin Management Plans and Completeness Checking at January 2012), namely: Scotland (UK01), Solway-Tweed (UK02), Northumbria (UK03), Humber (UK04), Anglian (UK05), Thames (UK06), South east (UK07), South West (UK08), Severn (UK09), Western wales (UK10), Dee (UK11), North West (UK12), Neagh Bann (GBNIIENB), North Western (GBNIIENW) and North Eastern (GBNIIENE). At present the United Kingdom has only established water column EQS values for surface waters. No EQS values for sediments and/or biota have been derived.

Water column EQS values (excluding Priority Pollutants and general water parameters)

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Inorganic non-metallic substances										
Ammonia (un-ionised)	7664-41-7	No value	No value	21 µg/l (AA)	21 µg/l (AA)	N/A	N/A	No[a]	No[a]	EQS for Good status
Chlorine	7782-50-5	2.0 µg/l (AA) 5 µg/l (95%ile)	2.0 µg/l (AA) 5 µg/l (95%ile)	10 µg/l (95%ile)	10 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status EQS for rivers and lakes as Total Available Chlorine EQS for transitional and coastal waters as Total Residual Oxidant The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Cyanide	74-90-8	1.0 µg/l (AA) 5.0 µg/l (95%ile)	1.0 µg/l (AA) 5.0 µg/l (95%ile)	1.0 µg/l (AA) 5.0 µg/l (95%ile)	1.0 µg/l (AA) 5.0 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status EQS as hydrogen cyanide The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Metals and metalloids										
Arsenic	7440-38-2	50 µg/l (AA)	50 µg/l (AA)	25 µg/l (AA)	25 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for Good status EQS refers to the dissolved fraction of a water sample obtained by filtration through a 0.45 um filter or any equivalent pre-treatment
Chromium (III)		4.7 µg/l (AA) 32 µg/l (95%ile)	4.7 µg/l (AA) 32 µg/l (95%ile)	No value	No value	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Chromium (VI)		3.4 µg/l (AA)	3.4 µg/l (AA)	0.6 µg/l (AA) 32 µg/l	0.6 µg/l (AA) 32 µg/l	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
				(95%ile)	(95%ile)					the ecological status or potential of bodies of surface water
Copper	7440-50-8	1.0 - 28 µg/l (AA)	1.0 - 28 µg/l (AA)	5.0 µg/l (AA)	5.0 µg/l (AA)	No[a]	No[a]	No[a]	No[a]	EQS for Good status EQS for dissolved copper EQS for rivers and lakes depend on water hardness as follows: 1 µg/l (0-10 mg $CaCO_3$/l as annual mean) 6 µg/l (>10-50 mg $CaCO_3$/l as annual mean) 10 µg/l (>50-100 mg $CaCO_3$/l as annual mean) 28 µg/l (>100 mg $CaCO_3$/l as annual mean)
Iron	7439-86-6	1000 µg/l (AA)	1000 µg/l (AA)	1000 µg/l (AA)	1000 µg/l (AA)	No	No	No	No	EQS for Good status EQS for dissolved iron
Zinc	7440-66-6	8.0 - 125 µg/l (AA)	8.0 - 125 µg/l (AA)	40 µg/l (AA)	40 µg/l (AA)	No[a]	No[a]	No[a]	No[a]	EQS for Good status EQS for rivers and lakes as total copper EQS for transitional and coastal waters as dissolved zinc EQS for rivers and lakes depend on water hardness as follows: 8 µg/l (10 mg $CaCO_3$/l as annual mean) 50 µg/l (50 mg $CaCO_3$/l as annual mean) 75 µg/l (100 mg $CaCO_3$/l as annual mean) 125 µg/l (500 mg $CaCO_3$/l as annual mean) The standards applicable to intermediate water hardness should be calculated by simple linear interpolation

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
Organic chemicals (other than defined groups)										
2,4-Dichlorophenol	120-83-2	20 µg/l (AA)	20 µg/l (AA)	20 µg/l (AA)	20 µg/l (AA)	Yes	Yes	Yes	Yes	EQS for Good status
Phenol	108-95-2	7.7 µg/l (AA) 46 µg/l (95%ile)	7.7 µg/l (AA) 46 µg/l (95%ile)	7.7 µg/l (AA) 46 µg/l (95%ile)	7.7 µg/l (AA) 46 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Toluene	108-88-3	50 µg/l (AA) 380 µg/l (95%ile)	50 µg/l (AA) 380 µg/l (95%ile)	40 µg/l (AA) 370 µg/l (95%ile)	40 µg/l (AA) 370 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Pesticides										
Cypermethrin	52315-07-8	0.1 µg/l (AA) 0.4 µg/l (95%ile)	0.1 µg/l (AA) 0.4 µg/l (95%ile)	0.1 µg/l (AA) 0.41 µg/l (95%ile)	0.1 µg/l (AA) 0.41 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Diazinon	333-41-5	0.01 µg/l (AA) 0.02 µg/l (95%ile)	0.01 µg/l (AA) 0.02 µg/l (95%ile)	0.01 µg/l (AA) 0.1 µg/l (95%ile)	0.01 µg/l (AA) 0.1 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	0.3 µg/l (AA) 1.3 µg/l (95%ile)	0.3 µg/l (AA) 1.3 µg/l (95%ile)	0.3 µg/l (AA) 1.3 µg/l (95%ile)	0.3 µg/l (AA) 1.3 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Dimethoate	60-51-5	0.48 µg/l (AA) 4.0 µg/l (95%ile)	0.48 µg/l (AA) 4.0 µg/l (95%ile)	0.48 µg/l (AA) 4.0 µg/l (95%ile)	0.48 µg/l (AA) 4.0 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of

Substance	CAS Number	EQS applied to different water bodies				EQS derived using the procedure in WFD Annex V 1.2.6 (based on the information in Section 6 of the Assessment of the River Basin Management Plans: Classification of ecological status of surface waters)				Comments
		Rivers	Lakes	Transitional waters	Coastal waters	Rivers	Lakes	Transitional waters	Coastal waters	
										bodies of surface water
Linuron	330-55-2	0.5 µg/l (AA) 0.9 µg/l (95%ile)	0.5 µg/l (AA) 0.9 µg/l (95%ile)	0.5 µg/l (AA) 0.9 µg/l (95%ile)	0.5 µg/l (AA) 0.9 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Mecoprop Mecoprop-P	93-65-2 16484-77-8	18 µg/l (AA) 187 µg/l (95%ile)	18 µg/l (AA) 187 µg/l (95%ile)	18 µg/l (AA) 187 µg/l (95%ile)	18 µg/l (AA) 187 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water
Permethrin	52645-53-1	0.01 µg/l (95%ile)	0.01 µg/l (95%ile)	0.01 µg/l (95%ile)	0.01 µg/l (95%ile)	Yes	Yes	Yes	Yes	EQS for Good status The 95%ile standards shall not be used for the purpose of classifying the ecological status or potential of bodies of surface water

Notes: AA = Annual Average, [a] – A deterministic approach was used which was similar in principle to the procedure given in WFD Annex V 1.2.6

Appendix B Tonnages of industrial chemicals and plant protection products used by different Member States

Table B1 Tonnages of industrial chemicals used by different Member States (data from E-PRTR)

Substance	Tonnage of substance released in 2009 (from E-PRTR 2012)																												Number
	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LU	LV	MT	NL	PO	PT	RO	SE	SK	SV	UK	CH	NO	
Cyanide (as total CN) (INMS)	74.0	12892.2	442.0		3022.5	18833.1			57.0	8410.4	2083.0	6833.7	5690.0	617.8	38641.1					28648.3	18128	1527.2	6511.0	2789.0	1210.0	174.0	18005.3	18.1	346.6	22
Fluoride (INMS)	38080.0	1084280.0	3940.0		170830.0	663130.0		2810.0		531580.0	82770.0	419620.0	14670.0	114590.0	319370.0	6390.0	4840.0		13300.0	526320.0	108300.0	19230.0	3000.0	131140.0	206230.0	2010.0	1225250.0	127000.0	1893460.0	25
Arsenic (M&M)	73.1	1778.2	553.1		3928.8	1990.8	70.8		334.3	2828.6	1040.2	3797.1	61.3	1005.2	12477.1	44.0	12.0	5.3	272.4	1543.1	3307.3	2778.2	15.5	1320.8	131.9		7529.1	27.0	1915.3	26
Chromium (M&M)	440.0	4136.8	13335.0		2073.3	15704.1	283.2		3598.7	15624.1	2196.0	353927.9	4143.3	62.0	32818.4	615.7		146.0	246.0	21243	9886.8	15325.7	6922.5	2724.2	1276.0	233.0	14969.3	476.0	2214.4	26
Copper (M&M)	1993.4	8072.7	23246.8	59.1	5660.0	40309.1	1353.0	280.0	584.4	10716.3	10780.9	50820.1	4938.4	890.9	35916.5	94.8	73.4	410.0	677.0	59318	11186.8	9613.8	28522.0	10264.1	263.1	67.9	128626.1	1464.2	8916.9	29
Zinc (M&M)	23418.0	92183.0	52455.0		30639.0	273391.0	14105.0	880.0	468.0	90277.0	72399.0	442198.0	57615.0	26091.0	194425.0	6689.0	287.0	2460.0	8219.0	56365.0	23718.0	79394.0	31509.0	84789.0	2112.0	2173.0	203871.0	3963.0	71028.0	28
Ethylbenzene (O)						5.7				8370.0		620.2								23.6				3.0			92728.8	0.02		7
Nonylphenol ethoxylates (O)	17.8	1.1			1.8	298.8	6.7			758.6	26.2	103.2		15.2	13631.5						80.5	1885.4	2.0	165.9	4.5	23.9	12899.5			17
Phenol (O)		1383.7	9840.8		1080.7	5493.5	5076.0	148.0	2021.3	14776.2	964.0	28214.0	2380.0	3108.1	55295.8			124.0		1824.0	15463.0	1385.9	9318.9	2365.0	3155.0		502738.6	425.5	2071.2	23
Toluene (O)		222.0			1150.0	81.1				3200.0		7516.0			1061.0					244.0	8180.0			50.0			892493.8	0.2	128000.0	12
Xylene(s) (O)						80.9						2964.5								97.4	28400.0			9.0		23.0	321243.0	256.0		8

Notes: INMS – Inorganic non-metallic substance, M&M – Metal and metalloid, O – Organic chemical (other than defined groups)

Table B2 Tonnages of plant protection products used by different Member States in 2003 (data from Eurostat, 2007)

Substance	Tonnage of active substance (AS) applied in 2003 (from Eurostat 2007)																											Number
	AT	BE & LU	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LV	MT	NL	PO	PT	RO	SE	SK	SV	UK	CH	NO	
Acetochlor					236					214		814	552							79				292					6
Aclonifen							12				c	c			c														4
Alachlor									69	268		745			255					230	85								6
Aldicarb		c																											1
Amitrol									26										20										2
Atrazine		107			122				96	246			441								199			78					7
Azoxystrobin																c													1
Bentazone	14	40				39	15				2	165	60		22						12		6			52			11
Boscalid						c																							1
Bromoxynil									6																				1
Captan																			62										1
Carbendazim																				26				18		46			3
Carbofuran							4																						1
Chlorfenvinphos														c															1
Chloridazon	7	75			54	154						159	60	1	88				107	111			11	25		54			13
Chlormequat		c			c	c					c	c							c	c						c			8
Chlorothalonil	15				13				19					68					133	120				11		136			8
Chlorotoluron																									21				1
Chlorpyrifos	16			34	67				62	201					15					102				28	1	15			10
Chlorpyrifos-methyl	16				4																			2					3
Clomazone							2																						1
Clopyralid							3				4			2		2	1.3						4						6
Cycloxydim															c								c						2
Cyfluthrin																							1						1
Cymoxanil										14											10					67			3
Cypermethrin	4																												1
Cyprodinil																									1				1
2,4-D	c				c			c	c	c			c		c	c	c			c				c					11
Dazomet	c	c										c																	3
Desmidipham					41					20	3									106				9					5
1,3-Dichloropropene		294		7					176	3950		489			2716						34					446			8
Diafenthiuron								c									c												2
Diazinon													c											c	c				3
Dicamba								5								12	2								6				4
Dichlorprop	38										24		52										96						4
Dicofol										99																			1
Dimethachlor					c	c						c				c	c												5
Dimethenamid	c	c											c						c										4
Dimethoate													53	3						25			4						4
Dimethomorph												c		c															2
Dinocap																					12				4	2			3
Dithianon	c	c					2				c			c						c			c			c			8
Diquat		c					8				c			c			c						c		c	c			8
Dodine					4															51									2

Substance	Tonnage of active substance (AS) applied in 2003 (from Eurostat 2007)																											Number
	AT	BE & LU	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LV	MT	NL	PO	PT	RO	SE	SK	SV	UK	CH	NO	
EPTC																					c								1
Ethofumesate	24				35	290	13			40	28	184			71				41	121	8			13					12
Ethoprophos									c																				1
Fenazaquim				c																									1
Fenhexamid							2				c												c						3
Fenpropidin						79															3				2				3
Fenpropimorph							57							44					38										3
Fenthion									c																				1
Flusilazone														1															1
Fluazifop-p-butyl		c						c			1					c	c								c				6
Fluazinam						c	15	c			c			c					c				c			c			8
Folpet	44					278				84		1858												5	6				6
Fosetyl							4		c	c		c			c						c		c		c				8
Glufosinate											2																		1
Glyphosate	c			c	c	c	601	c	c	c	c	c		c	c	c	c		c	c	c		c	c	c	c			21
Haloxyfop							2	c								c													3
Hymexazol							5																						1
Imadacloprid																							1						1
Imazmethabenz									14																				1
Ipodione												74		1					28				4						4
Isoproturon	32	313			144	3159				373		3502			40				255	1355	47		189		5	2576			13
Isoxaflutole																									c				1
Lamda-cyhalothrin																									c				1
Lenacil										24				9															2
Linuron											7						6			87									3
Mancozeb	120			26	134	942	343	5	236	1456	80	3600	236	262	3251	36.2	14		684	882	563		27	62	96	1375			22
MCPA	26	32			107	656	128			299	126	962	92	46	198				328	1248	24		297	104					16
MCPB					7																					45			2
Mecoprop	103	32				396			71	171				131					134				58						8
Mesotrione																									c				1
Metalaxyl-m																							10						1
Metalochlor									79	136					114														3
S-Metalachlor	c	c				c						c	c		c				c	c	c			c	c				11
Metamitron					27				9						62				118										4
Metazachlor	29	6			92	711					4	457		3					13	77			18	36		173			12
Methiocarb						c					5																		2
Methomyl										226																			1
Metiram		30			8	607						882	46		309				434		12			10					9
Methidathion									5				10																2
Metribuzin					10																			8					2
Molinate																					c								1
Myclobutanil																										4			1
Napropamide												259																	1
Oxamyl																										c			1

Substance	Tonnage of active substance (AS) applied in 2003 (from Eurostat 2007)																											Number
	AT	BE & LU	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LV	MT	NL	PO	PT	RO	SE	SK	SV	UK	CH	NO	
Paraquat									29					8	11						4								4
Parathion-methyl									c																				1
Penconazole																c													1
Pendimethalin	19				5	90	124			82		158			244				20	12				4		952			11
Phenmedipham	15				52	184	32			31	44	158			48				51	136	3		51	15		78			14
Pirimiphos-methyl																c													1
Prochloraz											18			2	27														3
Prometryn								c					c			c	c							c	c				6
Propachlor					c															c						c			3
Propamocarb					13	90					4								19	54				10	2				7
Propanil																					c								1
Propiconazole								1								8								14	2				4
Propineb									c											c	c								3
Propyzamide		3					13							2									1			92			5
Prosulfocarb		167				308	461					294							109										5
Pyridate	19																		23										2
Quinmerac	c	c				c																							3
Simazine																										135			1
Spinosad				c																									1
Sulcotrione		c							c										c										3
Tebuconazole						155	1													20									3
Terbufos													c																1
Terbuthylazine	38					368									442				45						48				5
Terbutryn																								5					1
Thiamethoxam								c			c					c	c												4
Thiram						89									417				59	64	40								5
Tolylfluanid		c				c	3				c								c	c			c						7
Tralkoxydim									c																				1
Trifluralin	48	3			50			14			47		89	1	166	7.4	13			88				43	1	796			14
Trinexapac-ethyl																									c				1
Trisulphuron																c	c												2
Vinclozin		c																	c										2
Ziram															487														1

Note: c = confidential data

Appendix C Data on Ecological Status from WISE Reports (Chapter 5, Section 5.2) - Non priority specific synthetic and non-synthetic pollutants

Country	RBD	Number of water bodies in different categories						Proportion of monitored water bodies failing to achieve good status	Number of RBSPs
		High Status	Good Status	Moderate status	Failing to achieve good status	Uknown/no monitoring	Not applicable		
AT - Austria	AT1000	1358	4975	0	91	18	0	1.4	
	AT5000	43	99	0	3	0	0	2.1	
	AT6000	7	78	0	1	5	0	1.2	
	Total	1408	5152	0	95	23	0	1.4	33
BE -Belgium	BEEscaut_RW							ND	
	BEEscaut_Scheldt_BR							ND	
	BEMeuse_VL	0	3	0	1	4	0	25.0	
	BEMeuse_RW							ND	
	BENoordsee_FED							NR	
	BERhin_RW							ND	
	BEScheldt_VL	0	12	0	15	13	0	55.6	
	BESeine_RW							ND	
	Total	0	15	0	16	17	0	51.6	116
BG- Bulgaria	BG1000	0	97	0	12	2	0	11.0	
	BG2000	0	21	0	0	69	0	0.0	
	BG3000	0	58	0	17	0	128	22.7	
	BG4000	0	15	0	0	89	0	0.0	
	Total	0	191	0	29	160	128	13.2	18
CY - Cyprus	CY001	1	12	0	0	154	0	0.0	3
CZ -Czech Republic	CZ1000	0	67	0	4	141	0	5.6	
	CZ5000	0	173	0	24	364	0	12.2	
	CZ6000	0	43	0	0	70	0	0.0	
	Total	0	283	0	28	575	0	9.0	86

DE - Germany	DE1000	0	33	0	0	0	0	0.0	
	DE2000	0	923	0	195	187	0	17.4	
	DE3000	0	56	0	20	11	0	26.3	
	DE4000	0	248	0	31	256	0	11.1	
	DE5000	0	1022	0	124	23	0	10.8	
	DE6000	0	175	0	7	0	0	3.8	
	DE7000	0	47	0	15	8	0	24.2	
	DE9500	0	5	0	0	0	0	0.0	
	DE9610	0	109	0	7	0	0	6.0	
	DE9650	0	157	0	3	0	0	1.9	
	Total	0	2775	0	402	485	0	12.7	133
DK - Denmark	DK1	0	0	0	0	1533	0	0.0	
	DK2	0	0	0	0	2927	0	0.0	
	DK3	0	0	0	0	329	0	0.0	
	DK4	0	0	0	0	31	0	0.0	
	Total	0	0	0	0	4820	0	0.0	25
ES - Spain	ES010	0	0	0	0	222	0		
	ES014	0	0	0	0	380	0		
	ES017	0	29	0	0	56	0	0.0	
	ES018	0	72	0	1	150	0	1.4	
	ES020	83	0	0	2	523	0	2.4	
	ES030	0	0	0	0	191	0		
	ES040	0	196	0	0	0	0	0.0	
	ES050	277	0	0	13	0	0	4.5	
	ES060	0	64	0	0	37	0	0.0	
	ES063	0	29	0	3	8	11	9.4	
	ES064	0	12	0	9	4	14	42.9	
	ES070							ND	
	ES080	0	20	0	2	60	157	9.1	
	ES091	0	0	0	0	635	0		
	ES100	0	0	0	0	192	0		
	ES110	0	0	0	0	91	0	0.0	
	Total	360	422	0	30	2549	182	3.7	16

FI - Finland	FIVHA1	0	225	0	0	0	0	0.0	
	FIVHA2	0	253	0	0	0	0	0.0	
	FIVHA3	0	250	0	0	0	0	0.0	
	FIVHA4	0	262	0	0	0	0	0.0	
	FIVHA5	0	295	0	0	0	0	0.0	
	FIVHA6	0	98	0	0	0	0	0.0	
	FIVHA7	0	133	0	0	0	0	0.0	
	FIWDA							ND	
	Total	0	1516	0	0	0	0	0.0	13
FR - France	FRA	0	4	0	0	32	0	0.0	
	FRB1	6	33	0	5	89	0	11.4	
	FRB2	0	1	0	0	9	0		
	FRC	19	90	0	15	296	0	12.1	
	FRD	0	353	0	6	2106	0	1.7	
	FRE	0	26	0	0	180	0	0.0	
	FRF	0	0	0	0	2605	0		
	FRG	0	1841	0	3	0	0	0.2	
	FRH	0	234	0	53	1324	0	18.5	
	FRI	6	3	0	11	27	0	55.0	
	FRJ	0	6	0	13	0	0	68.4	
	FRK	0	0	0	0	934	0		
	FRL	0	0	0	0	23	0		
	FRM							ND	
	Total	31	2591	0	106	7625	0	3.9	10
HU -Hungary	HU1000	0	32	0	13	328	0	28.9	4
IE - Ireland	IEEA	1	1	0	3	360	0	60.0	
	IEGBNISH	3	1	0	3	892	0	42.9	
	IESE	5	3	0	3	661	0	27.3	
	IESW	6	1	0	0	884	0	0.0	
	IEWE	1	4	0	3	958	0	37.5	
	GBNIIENB	1	1	0	1	87	0	33.3	
	GBNIIENW	13	2	0	5	661	0	25.0	
	Total	30	13	0	18	4503	0	29.5	18

IT- Italy	ITA	0	108	0	1	1285	0	0.9	
	ITB	0	46	0	6	1054	0	11.5	
	ITC	0	92	0	14	770	0	13.2	
	ITD	0	14	0	2	27	0	12.5	
	ITE	0	15	0	3	354	0	16.7	
	ITF	0	0	0	0	515	0		
	ITG							ND	
	ITH							ND	
	Total	0	275	0	26	4005	0	8.6	51
LT - Lithuania	LT1100	0	526	0	0	0	0	0.0	
	LT2300	0	86	0	2	0	0	2.3	
	LT3400	0	91	0	0	0	0	0.0	
	LT4500	0	18	0	1	0	0	5.3	
	Total	0	721	0	3	0	0	0.4	6
LU - Luxembourg	LU RB_000	2	3	0	7	76	0	58.3	
	LU RB_001	0	0	0	0	2	0	0.0	
	Total	2	3	0	7	78	0	58.3	55
LV - Latvia	LVDUBA	0	3	0	0	49	0	0.0	
	LVGUBA	0	3	0	0	41	0	0.0	
	LVLUBA	0	5	0	0	21	0	0.0	
	LVVUBA	0	6	0	0	49	0	0.0	
	Total	0	17	0	0	160	0	0.0	11
NL - Netherlands	NL EM							NR	
	NL MS	0	0	0	5	1	0	100.0	
	NL RM							NR	
	NL SC							NR	
	Total	0	0	0	5	1	0	100.0	151
PL - Poland	PL1000	0	0	0	0	8	0		
	PL2000	0	0	0	0	1698	0		
	PL3000	0	0	0	0	4	0		
	PL4000	0	0	0	0	6	0		
	PL5000	0	0	0	0	8	0		
	PL6000	0	0	0	0	1081	0		
	PL6700							ND	
	PL7000	0	0	0	0	114	0		
	PL8000	0	0	0	0	38	0		
	PL9000	0	0	0	0	3	0		
	Total	0	0	0	0	2960	0		20

RO - Romania	RO1000	129	1318	0	81	794	346	5.3	105
SE - Sweden	SE1	0	0	0	50	4084	0	100.0	
	SE1TO	0	0	0	13	642	0	100.0	
	SE2	0	21	0	48	7082	0	69.6	
	SE3	0	142	0	27	446	0	16.0	
	SE4	0	175	0	14	769	0	7.4	
	SE5	0	33	0	1	1486	0	2.9	
	SENO1102	0	0	0	0	47	0		
	SENO1103	0	0	0	0	69	0		
	SENO1104	0	0	0	0	3	0		
	SENO5101	0	0	0	0	31	0		
	Total	0	371	0	153	14659	0	29.2	29
SK - Slovakia	SK30000	0	0	0	0	83	0		
	SK40000	0	0	0	0	1502	115		
	Total	0	0	0	0	1585	115		25
SV - Slovenia	SI RBD_1							ND	
	SI RBD_2							ND	
	Total								37
UK - United Kingdom	UK01	0	1686	0	30	0	0	1.7	
	UK02	84	355	0	8	0	16	1.8	
	UK03	176	12	0	20	0	57	9.6	
	UK04	326	53	0	41	0	80	9.8	
	UK05	144	20	0	8	0	60	4.7	
	UK06	210	27	0	22	0	45	8.5	
	UK07	132	17	0	8	0	50	5.1	
	UK08	396	38	0	76	0	286	14.9	
	UK09	470	41	0	46	0	62	8.3	
	UK10	252	8	0	82	0	262	24.0	
	UK11	25	10	0	12	0	9	25.5	
	UK12	14	1	0	1	0	14	6.3	
	UKGBNIENB	179	0	0	13	35	0	6.8	
	UKGBNIENW	160	0	0	18	20	0	10.1	
	UKGBNINE	82	0	0	2	9	0	2.4	
	Total	2650	2268	0	387	64	941	7.3	18