



Integrated Water Management Revision of lists of Surface Water and Groundwater Substances

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What are the policy problems?

The 2019 Fitness Check revealed 2 main problems

Improve protection of ecosystems and human health from risks posed chemical pollution

The present list of polluting substances of EU wide concern is out of date and there is a legal obligation to update this list every 6 years

- The current focus on individual substances disregards cumulative or combined effects of mixtures
- The current framework does not account for seasonal variations in pollutant loads

Implementation deficits

Too large variation in pollutants and quality standards at MS level (resulting in incomparable data) Ordinary
legislative
procedure to
update lists of
pollutants delays
adaptation to
scientific progress

Room for improvement of data management and reporting, eg through improved electronic reporting and streamlining





This proposal amends three Directives





Integrated water management – revision of surface water and groundwater pollutants





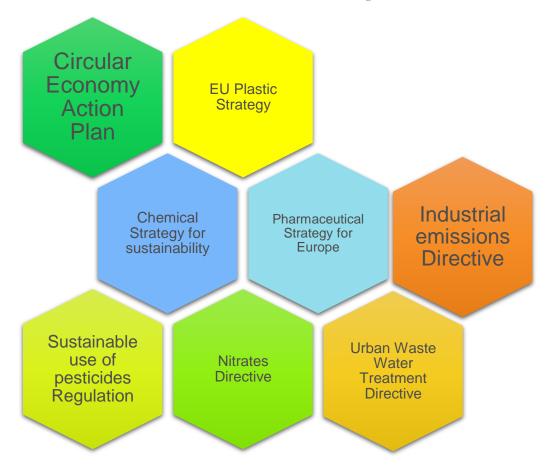






Other initiatives/laws that address pollutants

This proposal must be considered in conjunction with other initiatives that reduce the emissions of pollutants at source







Skeleton of the Proposal – few main elements

Article 1

Changes to the Water
 Framework
 Directive
 2000/60/EC

Article 2

 Changes to the Groundwater Directive
 2006/118/EC

Article 3

Changes to the Environmental Quality
 Standards
 Directive
 (EQSD)
 2008/105/EC

Article 4

Transposition deadline (18 months)

6 ANNEXES

- A I and II = changes Annex V and VIII to WFD
- A III and IV = changes Annex I and II to GWD
- A V and VI = changes Annex I and new Annex II to EQSD



Core elements of Legal Proposal

- * Changes Annex I GWD (Annex III proposal)
- * Changes Annex I EQSD (Annex V proposal)





Surface water substances - 25 new emerging ones



Pharmaceuticals: *Macrolide antibiotics, Estrogenic hormones, Carbamazepine, Diclofenac, Ibuprofen*



PFAS: Additional 24 substances





Bisphenol-A



Pesticides: *Triclosan, Nicosulfuron, Glyphosate, Neonicotinoids, Pyrethroids, & total of active substances in pesticides* (incl. their relevant metabolites, degradation and reaction products)



Metal: Silver





Annex I EQSD – Surface water priority substances- deselections

Substances that no longer pose an EU-wide risk



Carbon tetrachloride



Pesticides: Alachlor, Chlorfenvinphos, Simazine





Annex I EQSD -

Surface water priority substances—EQS changes



For 16 existing substances - In some cases more stringent in others less stringent

(Chlorpyrifos, Dioxins, Diuron, Cypermethrin, Fluoranthene, Heptachlor, Hexachlorobenzene, Mercury Hexachlorobutadiene, Nickel, Nonylphenol, PAHs, PolyBDEs, Tributyltin, Dicofol, Hexabromocyclododecane).

No.	Substance	Category of substances	CAS number	AA-EQS fw [μg/L]	AA-EQS mw [μg/L]	MAC-EQS fw [μg/L]	MAC-EQS mw [μg/L]	EQS biota [μg/kg _{ww}]
9	Chlorpyrifos	Organophosphate pesticide	2921-88-2	4,6 x 10 ⁻⁴	4,6 x 10 ⁻⁵	0,0026	5,2 x 10 ⁻⁴	
41	Cypermethrin	Pyrethroid pesticides	52315-07-8	3 x 10 ⁻⁵	3 x 10 ⁻⁶	6 x 10 ⁻⁴	6 x 10 ⁻⁵	
34	Dicofol	Organochlorine pesticides	115-32-2	[4,45 x 10 ⁻³]	[0,185 x 10 ⁻³]	not applicable	not applicable	[5,45]
37	Dioxins and dioxin-like compounds	Industrial substances	This refers to the fo	-	-	not applicable	not applicable	Sum of PCDD+ PCDF+ PCF DL; [3,5 x 10 ⁻⁵]
13	Diuron	Herbicides	330-54-1	0,049	0,0049	0,27	0,054	
	Fluoranthene	Industrial substances (PAH		7,62 x 10 ⁻⁴	7,62 x 10 ⁻⁴	-	0,12	6.
44	Heptachlor and heptachlor epoxide	Organochlorine pesticides	76-44-8 / 1024-57-	[1,7 x 10 ⁻⁷]	[1,7 x 10 ⁻⁷]	3 x 10 ⁻⁴	3 x 10 ⁻⁵	[0,013]
	Hexabromocyclododecane (HBCDD)		This refers to 1,3,5	[4,6 x 10 ⁻⁴]	[2 x 10 ⁻⁵]	0,5	0,05	[3,5]
16	Hexachlorobenzene	Organochlorine pesticides				0,5	0,05	20
17	Hexachlorobutadiene	Industrial substances (solve	87-68-3	9 × 10 ⁻⁴		0,6	0,6	21
21	Mercury and its compounds	Metals	7439-97-6			0,07	0,07	10
23	Nickel	Metals	7440-02-0	2	3.1	8,2	8,2	
24	Nonylphenol	Industrial substances	84852-15-3	0,037	0,0018	2,1	0,17	
28	Polyaromatic hydrocarbons (PAHs)	Industrial substances (PAHs)	not applicable	not applicable	not applicable	not applicable	not applicable	[0,6] (sum of BaP equivalent, waiting for the SCHEER opinion)
5	Poly Brominated Diphenylethers (PE	Industrial substances	32534-81-9			0,14	0,014	0,00028
30	Tributyltin (TBT) compounds	Biocides	36643-28-4	0,0002	0,0002	0,0015	0,0015	1,3 μg/kg _{dw} (sediment)
	st of Existing PS EQS dossiers-							

Table with the list of reviewed EQS values of existing PS. Comparison with the existing EQS values in the WFD: orange rows when proposed EQS value is stricter and green rows when the proposed EQS value is less strict than the existing one in the WFD.

European Commission



Groundwater substances



Pharmaceuticals:

- 2 additions to Annex I (EU-wide standards): Carbamazepine & Sulfamethoxazole and
- Group total standard for active pharmaceutical subst. Add 1 (Primidone) to Annex II (MS to consider setting a national standard).



PFAS: Additional 24 substances



Pesticides: additional breakdown products, **non-relevant Metabolites (nrMs)** to Annex I (EU-wide standards)
as individual substances and as a group.

And: a mandatory groundwater watchlist mechanism



Additional elements of Legal Proposal

- 1. River Basin Specific Pollutants = 'chemical status'
- 2. Harmonised standards for pollutants of national concern
- 3. Streamlined procedures Watch List GW and EQSD
 - Update lists every three years / 2-year monitoring consideration of seasonal fluctuations
 - Next WL: incl. microplastics & antimicrobial resistance genes
- 4. Simplified procedures Delegated acts to review Annexes
- 5. Yearly info on water quality & Automated data delivery mechanisms
- 6. Simplified reporting (synergies with Industrial Emissions Portal)
- 7. Effect Based Monitoring new monitoring techniques (remote sensing)
- 8. Scientific support from ECHA to list substances and assess results
- 9. Oder Warning Clause for transboundary pollution incidents

Timeline – Next steps

Adoption of EC proposal: 26 October 2022

1st WPE meeting: 11 Nov. 2022 Council:
Additional working parties
(May-June 2023)

EP: Committee March, Plenary July 2023 (TBC) Further working parties and trilogues expected to take place July-Dec 2023 (ES presidency) Expected adoption by Council and Parliament: first semester 2024



Thank you



Please visit:

- Zero Pollution webpage
- Water Environment European Commission (europa.eu)

Contact: ENV-ZERO-POLLUTION@ec.europa.eu; ENV-WATER@ec.europa.eu

