EDC (WFD



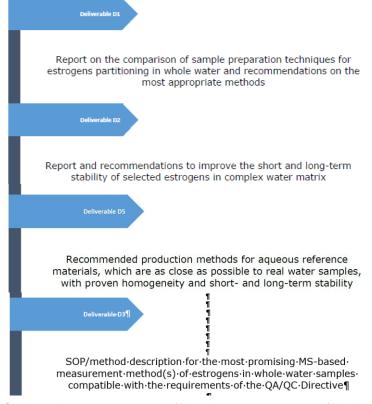
Metrology for monitoring endocrine disrupting compounds under the Water Framework Directive_EDC-WFD

IMPACT



DELIVERABLES





Soon:

- Interlaboratory comparison of chemical MS-based methods and Effect-Based Methods (EBMs bioassays) for estrogens measurements
- SOP/method description for the most promising MS-based measurement method(s) of estrogens in whole water samples compatible with the requirements of the QA/QC Directive



TRAINING WORKSHOP: SOLUTIONS TO TACKLE WFD REQUIREMENTS FOR ESTROGEN DETERMINATION IN WATER

- This Training/Workshop aimed:
 - to present the knowledge gained from the EDC-WFD project whose objective is to develop reliable and harmonized measurement methods for estrogens, which are key Endocrine Disrupting Chemicals (EDC), to comply with Water Framework Directive requirements
 - to accelerate the transfer of the most promising measurement methods and methodologies to interested parties: laboratories, PT providers, researchers
- ➤ The training workshop covered **all aspects of measurements** from sampling to final method validation and will address both Mass spectrometry based methods as well as incoming Effect Based Methods (in vitro bioessays)

TRAINING WORKSHOP: SOLUTIONS TO TACKLE WFD REQUIREMENTS FOR ESTROGEN DETERMINATION IN

WATER

7th of September Session 1

09:00 - 09:10: Welcome address

09:10 - 09:50: Presentation of the project and context

09:50 - 10:20: Issues and challenges related to estrogen analysis in

relation to the WFD

10:20 - 11h00: Challenges related to sampling

11:00 - 11:15: Break

11:15 - 11:35: Overview of quantification strategy

11:35 - 12:15: Sample preparation

8th of September Session 2

09:00 - 09:30: Discussion forum / debriefing from day 1

09:30 - 10:30: Mass spectrometry methods - Instrumental

developments

10:30 - 10:45: Break

10:45 - 11:45: Achievements of Mass spectrometry based methods

_ method performances and measurement reliability

11:45 - 12:00: Concluding remarks

9th of <u>september</u> Session 3 dedicated to Effect Based Methods (EBM)

09:00 - 09:10 : Welcome address

09:10 - 09:40 : Presentation of the project and context

09:40 - 10:05 : Context and presentation of EBM methods versus MS

10:05 - 10:40 : EBM protocols

10:40 - 11:15 : EBM data treatments

11:15 - 11:30 : Break

based methods

11:30 - 11:45 : Concluding remarks

11:45 - 12:00 : Next step : Towards Interlaboratory Comparison

PUBLICATION One already published and others will follow



CONGRESS

EURACHEM 2019



ICRAPHE 2019



SETAC 2020



CIM 2021



Goldschmist 2021

EuChemS 2022 Lisbon



IMEKO 2022

IMEKO TC11 & TC24 Joint Hybrid Conference

Dubrovnik, Croatia
Oct 17 - 19, 2022

Maastricht IMSC22



CIM 2023







PROJECT OUTPUTS

Reference materials:

- Pure material: traceability
- Matrice material: accuracy

Intercomparison laboratory:

- Partners and field laboratories : methods performances
- National Metrology Institutes and designated Institutes: CMCs and metrological dissemination (chemical measurements)

Recommendations for stakeholders: conclusion

Standardisation: Mrs Lardy-Fontan presentation





