



Self Monitoring In Water Permits (SMWP)

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Why this project is needed



1. Data gap to assess the contribution of industries to water pollution in Europe 2. Data from WFD implementation: There is a need to pay more attention to the overall pressures on water bodies, such as wastewater discharges (urban, non-urban and industrial) and freshwater abstraction

SMWP

3. Environmental Compliance and Governance Forum:

IMPEL will lead work on tools for verification of self-monitoring and reporting by economic operators

4. Action 9 -Strategies for verification of self-monitoring and reporting

A greater focus on self-monitoring and validation of self-reporting has been suggested and integrated in Actions

5. Multiple challenges in using selfmonitoring data for inspections and enforcement (quantity & quality of data and time lapse between data generation and its evaluation)

6. Difficulties in implementation and validation noticed in several IMPEL projects*

Main activities over 3 years



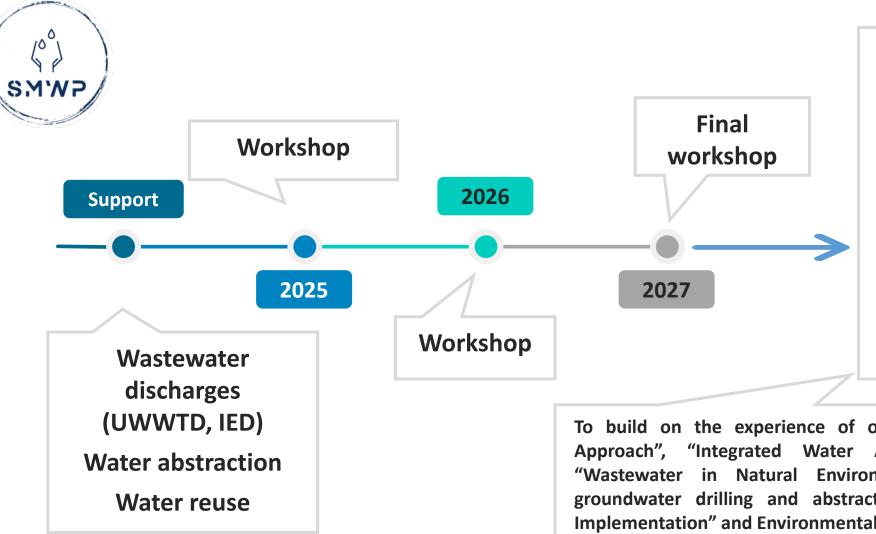
Collect information on self-monitoring practices (plans, reports, IT tools, data and methods assessment etc..)

Workshop on self-monitoring under abstraction of freshwater, wastewater discharge, water reuse permitting

Analysis of the best practices for self-monitoring plans development, reporting, data assessment and possibilities on the use of IT tools

Roadmap document to define and/or improve SMWPs

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Final Products

Roadmap document with mechanisms, procedures, practices, and tools to reliable selfensure monitoring and reporting (possible use of AI)

To facilitate the transfer of knowledge from IMPEL's experts, the tool will be developed to be used directly under Knowledge Information the and Programme (KIP)

To build on the experience of other projects (Integrated Water Approach", "Integrated Water Approach and Water Reuse", "Wastewater in Natural Environment WiNE", "Tackling illegal groundwater drilling and abstractions (TIGDA)", "Supporting IED Implementation" and Environmental Crimes)

Main deliverables over 3 years

1) Report on the results of the questionnaire collecting all the information on selfmonitoring practices



2) Questionnaire results integrated with the workshop results (using AI)



			Parame	etri misur	ati	
	C	oncentr	azioni n	nisurate i	in emissio	one
Scarico	Parametro	Frequenza	UdM	Valori Misurati		Valore limite di Legge
				I SEMESTRE II SEMESTRE		
				\$123-00194	SI23-00821	
51	Alluminio	Semestrale	mg/L	<0.15	0.049	P
	Arsenico	Semestrale	mg/L	<0.025	0.0096	< 0,5
	Azoto ammoniacale (come NH4)	Semestrale	mg /L	<1.0	<1.0	<15
	Azoto nitrico (come N)	Semestrale	mg /L	<1	<1.0	<20
	Azoto nitroso (come N)	Semestrale	mg/L	<0.2	<0.2	< 0,6
	Bario	Semestrale	mg/L	<0.13	0.0271	<20
	BOD5 (come O2)	Semestrale	mg/L	<5	45	<40
	Boro	Semestrale	mg/L	1.91	5.7	<2 NOTA (1)
	Cadmio	Semestrale	mg/L	<0.005	<0.00050	< 0,02
	Cianuri totali (come CN)	Semestrale	mg/L	<0.01	<0.01	< 0,5
	Cloro attivo libero	Mensile	mg/L	0.1	0.11	< 0,2
	Cloruri	Semestrale	mg/L	22200	22900	NOTA (2)
	COD (come O2)	Semestrale	mg/L	<10	<10	<160
	Colore	Semestrale	-	Assente	Assente	non percettibile con diluizione 1:20
	Cromo totale	Semestrale	mg/L	<0.025	0.0294	9
	Cromo VI	Semestrale	mg/L	<0.01	<0.01	< 0,2
	Escherichia coli	Semestrale	UFC/100mL	Microrganismi non presenti	Microrganismi non presenti	
	Fenoli	Semestrale	mg/L	<0.1	<0.1	< 0,5
	Ferro	Semestrale	mg/L	0.49	0.365	9
	Fluoruri	Semestrale	mg/L	3.04	1.27	<6
	Fosforo totale (come P)	Semestrale	mg/L	<0.1	<0.01	<10
	Grassi e olii animali/vegetali	Semestrale	mg/L	<0.25	<0.25	<20
	idrocarburi totali	Semestrale	mg/L	<0.25	<0.25	ও
	Manganese	Semestrale	mg/L	<0.13	0.00418	9
	materiali grossolani	Semestrale	1.1	Assente	Assente	assenti
	Mercurio	Semestrale	mg/L	<0.0013	0.00092	< 0,005
	Nichel	Semestrale	mg/L	<0.025	0.033	9
	odore	Semestrale		1	1	non deve essere causa di molestie

 3) Roadmad to define and/or improve Selfmonitoring
 Programs in Water Permits + Guidance





Self Monitoring Considerations



IMPEL Open Day 2025 - Water & Land Expert Team





Contact information:

- For joining this project: If you work for an IMPEL member organisation and would like to join the project or receive further information, please contact the National Coordinator of your country and the Project Manager at geneve.farabegoli@isprambiente.it; anabela.rebelo@apambiente.pt
- For becoming a member of IMPEL: If you are from an Environmental Authority or association of authorities that is based in a member state of the EU, a candidate country or another country applying Community law and would be interested in becoming a member of IMPEL, please contact IMPEL Secretariat at info@impel.eu for more information.
- ✓ For all other interested parties: please check out our new website for further information!
 <u>www.impel.eu</u>

