PROFICIENCY TESTING PROGRAMS WATERS

A34	Fresh waters: physico-chemical analyses
A34a	Bathing waters: physico-chemical analyses
A34b	Fresh waters: basic physico-chemical analyses
A34c	Fresh waters: Chlorophyll A, Pheopigment index
A35	Waters: microbiological analyses except Legionella
A37	Fresh waters: micropollutants
A37a	Bathing waters: THM
A37b to 37l	Feed waters: Others micropollutants
A37m	Fresh waters - Micropollutants: Multi-pesticides
37n	Fresh waters - Parabens
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A48a	Waters: AOX
A48b	Waters: Hydrocarbons
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A50	Waters: microbiological analyses Legionella
A50a	Cooling tower waters: microbiological analyses Legionella
A52	Waste waters: physico-chemical analyses
A52b	Waste waters: physico-chemical analyses
A53	Waste waters: micropollutants
A53b to 53l	Waste waters: Others micropollutants
A54	Waters: microbiological analyses Salmonella
A57	Waters: field analyses by samplers
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A59	Waters: multiresidue search of organic substances
78	Tasting analyses on drinking Water: ODOUR and FLAVOUR

A = *PTS accredited by COFRAC*

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34 -FRESH WATERS: PHYSICO-CHEMICAL ANALYSES

cofrac
COMPARAISONS INTERLABORATOIRES
ACCREDITATION N°1-1495
SCOPE AVAILABLE ON WWW.COFRAC.FR

- Proficiency testing scheme created in **1998**
- **112 registered laboratories** on average from **22 different countries**
- This PTS is accredited by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Feed water
Surface water
Mineral water
Sparkling water

MAIN PARAMETERS*

Natural structure

Ammonium
Biochemical oxygen demand
Bromates
Bromides
Chemical oxygen demand
Chlorates
Chlorites
Chlorides
CO_2
Complete alkalimetric titration
Conductivity at 25°C
Colour
Dissolved organic carbon
Dissolved salt
Dissolved silica
Nitrates
Nitrites
Orthophosphates
Oxydability with $KMnO_4$
Perchlorates
pH
Redox potential
Sulfates
Suspended solids
Total & Kjeldahl nitrogen
Total organic carbon
Total phosphorus
Turbidity

Major Pollutants

Anionic surfactants
Free and total cyanides
Phenol index

Minerals and Metals

Aluminium
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium VI
Cobalt
Copper
Gadolinium
Lithium
Lead
Manganese
Mercury
Molybdenum
Nickel
Potassium
Phosphorus (total)
Selenium
Silver
Sodium
Strontium
Tellurium
Thallium
Titanium
Tin
Total Chromium
Total iron
Tungsten
Uranium
Vanadium
Zinc

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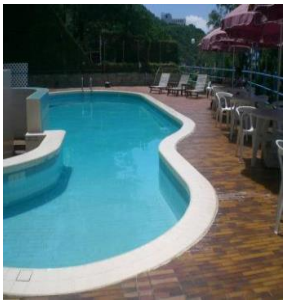
NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

34A – BATHING WATERS: PHYSICO-CHEMICAL ANALYSES

COMPARAISONS INTERLABORATOIRES ACCREDITATION N°1-1495 SCOPE AVAILABLE ON WWW.COFRAC.FR

- Proficiency testing scheme created in **2010**
- **39 registered laboratories** in **6 countries**
- This PTS is accredited by COFRAC
- **3 rounds per annual series**
- For further details on samples please refer to the planning.



MATRICES

Swimming-pool water

MAIN PARAMETERS*

Isocyanuric acid	Oxydability with $KMnO_4$ in an acidic solution
Total organic carbon	Oxydability in an alkalin solution
Chlorides	Turbidity

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NA => Non accredited parameter
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34B – FRESH WATERS: BASIC PHYSICO-CHEMICAL ANALYSES

- Proficiency testing scheme created in **2014**
- **23 registered laboratories** on average from **11 different countries**
- This PTS is accredited by COFRAC
- **4 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Feed water	Mineral water	Surface water

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MAIN PARAMETERS*

Natural structure

Ammonium	Nitrates
Biochemical Demand in O_2	Nitrites
Bromides	Orthophosphates
Calcium	Oxidability with KMnO4 in an acidic solution
Chemical oxygen demand determination	Perchlorates
Chlorides	Total Phosphorus
CO_2	Potassium
Conductivity at 25°C	Redox potential
Colour	pH
Dissolved organic carbon	Dissolved Salts
Fluorides	Dissolved Silica
Hardness	Mineralized Silica
Kjeldahl Nitrogen	Sulfates
Magnesium	Sodium
Suspended matter	Complete Alkalimetric Titration
Total Nitrogen	Turbidity
Total organic carbon	

NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

34C – FRESH WATERS: CHLOROPHYLL A, PHEOPIGMENT INDEX

- Proficiency testing scheme created in **2016** (part of PTS 34 since 2014)
- **10 registered laboratories** on average from **4 different countries**
- This PTS is accredited by COFRAC
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Surface water

MAIN PARAMETERS*

Chlorophyll A

Pheopigment index

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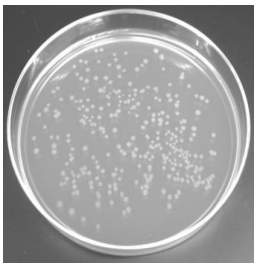
NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

35 - WATERS: MICROBIOLOGICAL ANALYSES EXCEPT LEGIONELLA

- Proficiency testing scheme created in **1998**
- **60 registered laboratories** from **15 countries**
- This PTS is accredited by COFRAC
- 3 **rounds per annual series**
- For further details on samples please refer to the planning.



MATRICES

Feed water.

MAIN PARAMETERS*

By filtration method:

Coliforms at 36°C
Escherichia coli
Intestinal enterococci
Pathogenic staphylococci
Pseudomonas aeruginosa
Revivifiable aerobic bacteria at 36°C and at 22°C
Sulfito-reducing anaerobe bacteria spores
Sanitary control.

By MPN method:

Total coliforms
Escherichia coli
Intestinal enterococci

NB: Average results

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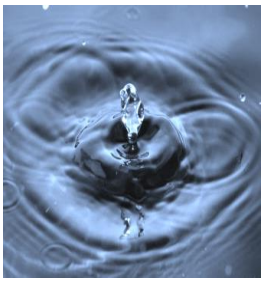
NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

37 – FRESH WATERS: MICROPOLLUTANTS (1/2)

- Proficiency testing scheme created in **1998**
- **58 registered laboratories** from **13 countries**
- This PTS is **accredited** by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.



MATRICES

Surface water	Feed water	Standard solution[NA]

MAIN PARAMETERS*

Volatil Organic Compounds – list 1
Bromoforme
Chloroforme
Dibromomonochloromethane
Dichloroethane 1,1
Dichloroethane-1,2
Dichloroethylene-1,1
Dichloroethylene-1,2 cis
Dichloroethylene-1,2 trans
Dichloromethane
Dichloromonobromomethane
Hexachlorobutadiene
Tetrachloroethylene
Tetrachlorure de carbone
Trichloroethane-1,1,1
Trichloroethane-1,1,2
Trichloroethylene

BTX
Benzene
Ethylbenzene
Isopropylbenzene
Styrene
Toluene
Xylene (Meta, para)
Xylene (o)

Volatil Organic Compounds - list 2
1,1,2,2-tetrachloroethane
3-chloroprene (Allyl chloride)
Bromochloromethane
Bromomethane
Chloroprene
Dibromoethane-1,2
Dibromomethane
Dichloropropane-1,2
Dichloropropene-1,3 (cis)
Dichloropropene-1,3 (trans)
Ethyltertiobutylether
Fluorotrichloromethane
Hexachlorobutadiene
Hexachloroethane
Vinyl chloride

PCB
PCB 28
PCB 52
PCB 101
PCB 118
PCB 138
PCB 153
PCB 180

PAH
Acenaphthene
Acenaphtylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (ghi) perylene
Benzo (k) fluoranthene
Chrysene
Dibenzo (ah) anthracene
Fluoranthene
Fluorene
Indeno (123 cd) pyrene
Methyl (2) fluoranthene
Methyl (2) naphtalene
Naphtalene
Phenanthrene
Pyrene

Other molecules
Biphenyl
Hexachlorobutadiene
Tributylphosphate

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NA => Non accredited parameter
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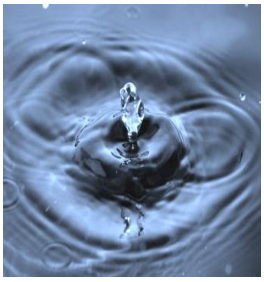
37 – FRESH WATERS: MICROPOLLUTANTS (2/2)

- Proficiency testing scheme created in **1998**
- **58 registered laboratories** from **13 countries**
- This PTS is **accredited** by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.



MATRICES

Surface water	Feed water	Standard solution[NA]

MAIN PARAMETERS*

Organochlorinated insecticides
2,4'-DDD
2,4'-DDE
2,4'-DDT
2,6-Dichlorobenzamide/Dichlobenil
4, 4'DDD
4, 4'DDE
4, 4'DDT
Alachlore
Aldrine
Alpha Chlordane
Dieldrine
Endosulfan Alpha
Endosulfan Beta
Endrine
Gamma Chlordane
HCH Alpha
HCH Beta
HCH Delta
Heptachlore
Heptachlore epoxyde Cis
Heptachlore epoxyde Trans
Isodrine
Lindane
Trifluraline

Other Herbicides
Metazachlore
Metolachlore
Norflurazon

Organophosphorus compounds
Azinphos-ethyl
Azinphos-methyl
Chlormephos
Chlorpyrifos
Chlorpyriphos-methyl
Chlorvenvinphos
Demeton-O
Diazinon
Dichlorvos
Dimethoate
Fenithrothion
Malathion
Omethoate
Parathion-ethyl
Parathion-methyl
Pyrimiphos-methyl

Herbicides
Aminotriazole
AMPA
Chlormequat
Diquat
Glufosinate
Glyphosate
Mepiquat
Paraquat

Phtalates
Bis-2-ethylhexylphtalate
Butyl benzyl phtalate
Diethyl phtalate
n-Butyl Phtalate
Phtalate de dimethyle

Substituted ureas
Chortoluron
Diuron
Ethidimuron
Isoproturon
Linuron
Methabenzthiazuron
Metobromuron
Metoxuron
Monolinuron
Monuron

Chloroaromatic
Chlorobenzene
2-Chlorotoluene
3-chlorotoluene
4-chlorotoluene
Dichlorobenzene (1,2)
Dichlorobenzene (1,3)
Dichlorobenzene (1,4)
1,2,3-trichlorobenzene
1,2,4-trichlorobenzene
1,3,5-trichlorobenzene
1,2,4,5-tetrachlorobenzene

Triazines
Atrazine
Ametryne
Atrazine 2-hydroxy-desethyl
Bentazone
Cyanazine
Cybutryne
Deisopropyl atrazine
Desethylatrazine
Desisopropyldesethylatrazine
Hydroxy-2-atrazine
Hydroxy-2-simazine
Metribuzine
Prometryne
Propazyne
Sebutylazine
Simazine
Terbumeton
Terbumeton-desethyl
Terbutryne
Terbutylazine
Terbutylazine-2-hydroxy
Terbutylazine-desthyl

Chlorobenzenes
1,2,3-trichlorobenzene
1,2,4,5-tetrachlorobenzene
1,2,4-trichlorobenzene
1,3,5-trichlorobenzene
Hexachlorobenzene
Pentachlorobenzene

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NA => Non accredited parameter
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37A – BATHING WATERS: THM

- Proficiency testing scheme created in **2009**
- **35 registered laboratories** from **5 different countries**
- This PTS is **accredited** by COFRAC
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Swimming-pool water

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MAIN PARAMETERS*

Bromoforme	Chloroforme
Chlorodibromomethane	Dichlorobromomethane

NA => Non accredited parameter
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37 OPTIONS – FRESH WATERS: OTHERS MICROPOLLUTANTS

- Proficiency testing schemes created in **2011**
- PTS **accredited** by COFRAC
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

Options	Matrices	Parameters
37b – PBDE	Surface water	PBDE 100 pentabromodiphenylether
		PBDE 153 hexabromodiphenylether
		PBDE 154 hexabromodiphenylether
		PBDE 183 heptabromodiphenylether
		PBDE 209 decabromodiphenylether
		PBDE 28 tribromodiphenylether
		PBDE 47 tetrabromodiphenylether
		PBDE 99 pentabromodiphenylether
37c – Alkyphenols	Surface water	4-(1,1,3,3-tetramethylbutyl)-phenol
		4-n-nonylphenol
		4-n-Octylphenol
		4-nonylphenol diethoxylate NP2OE
		4-nonylphenol monoethoxylate NP1OE
		4-tert-octylphenol diethoxylate OP2OE
		4-tert-octylphenol monoethoxylate OP1OE
		Bisphenol A
		Nonylphenols (melanges isomeres)
37d – Organotins	Surface water	Dibutyletain cation
		Dioctyletain cation
		Monobutyletain cation
		Tetrabutyl etain cation
		Tributyletain cation
		Triphenyletain cation
37e – Anilines	Surface water	2-chloroaniline
		3,4-dichloroaniline
		3-chloroaniline
		4-chloro-2 nitroaniline
		4-chloroaniline

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NA => Non accredited PT

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37 OPTIONS – FRESH WATERS: OTHERS MICROPOLLUTANTS

- Proficiency testing schemes created in **2011**
- PTS **accredited** by COFRAC
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

Options	Matrices	Parameters
37f – Chloroacetic acid	Surface water	Chloroacetic acid (CAS 79-11-8)
37g – Epichlorhydrin	Surface water	Epichlorhydrine (CAS 106-89-8)
37h – Polychlorinated alkanes	Surface water	Chloroalcanes C_{10}-C_{13} (CAS 8535-84-8)
37i – Acrylamide	Surface water	Acrylamide (CAS 79-06-1)
37j – Nitroaromatics	Surface water	1-chloro-2 nitrobenzene
		1-chloro-3 nitrobenzene
		1-chloro-4 nitrobenzene
		2- Nitrotoluene
		Nitrobenzene
37k – Chlorophenols	Surface water	2,4,5-trichlorophenol
		2,4,6-trichlorophenol
		2,4-dichlorophenol
		2-chlorophenol
		3-chlorophenol
		4-chloro-3-methylphenol
		4-chlorophenol
		Pentachlorophenol
37l – Perfluorinated compounds	Surface water	Acide perfluoro-decanoïque
		Acide perfluoro-hexane sulfonique
		Acide perfluoro-octane sulfonique PFOS
		Acide perfluoro-octanoïque PFOA

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NA => Non accredited PT

**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

37M – FRESH WATERS: MULTIPESTICIDES

- Proficiency testing schemes created in **2016**
- PTS **accredited** by COFRAC
- **3 rounds per annual series**
- **Around a 100 molecules in accordance with the 2013/39/UE European directive**
- For further details on samples please refer to the planning.

MATRICES

Surface water

MAIN PARAMETERS*

Aclonifene	Ethofumesate	Metsulfuron Methyle
Anthraquinone	Fenarimol	N,n-dimethyl-n'-p-tolylsulphamide
Asulame	Fenoxycarb	Napropamide
Azoxystrobine	Fenpropidine	N-butylbenzenesulfonamide
Beflubutamide	Fipronil	Nicosulfuron
Benzotriazole	Fipronil Sulfone	Oxadiazon
Bifenox	Florasulam	Oxadixyl
Bisphenol S	Fludioxonil	Pendimethaline
Boscalid	Flumioxazine	Piclorame
Bromacil	Fluoryxypyr	Piperonyl Butoxyde
Bromoxynil	Flurochloridone	Pirimicarbe
Carbendazime	Flurtamone	Prochloraz
Carbofuran	Flusilazole	Procymidone
Chlordecone	Foramsulfuron	Propiconazole
Chloridazone	Fosetyl	Propyzamide
Chlorprophame	Fosthiazate	Prosulfocarbe
Clethodim	Galaxolide	Prosulfuron
Clomazone	Hexaconazole	Pyrimethanil
Cyhalothrine-lambda	Imazalil	Quinoxyfen
Cymoxanil	Imazamox	Rimsulfuron
Cypermethrine	Imidaclopride	Sulcotrione
Cyproconazole	Iodosulfuron-methyl	Tebuconazole
Cyprodinil	Ioxynil	Tebutame
Deltamethrine	Iprodione	Tetraconazole
Dicamba	Isoxaflutole	Thiabendazole
Dichlormide	Kresoxym Methyl	Thiafluamide (Flufenavet)
Dichlorprop	Lenacile	Thiamethoxam
Didemethylisoproturon	Mecoprop (MCPP)	Thifensulfuron Methyl
Difenoconazole	Mercaptodimethur	Tolyltriazole
Diflufenicanil	Mesosulfuron Methyle	Triclocarban
Dimetachlore	Mesotrione	Triclopyr
Dimethenamide	Metaldehyde	Trinexapac-ethyl

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NA => Non accredited parameter
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37N – FRESH WATERS - PARABENS

- Proficiency testing scheme created in **2016**
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Surface water

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MAIN PARAMETERS*

Butylparabene (CAS 94-26-8)	Methylparabene (CAS 99-76-3)
Ethylparabene (CAS 120-47-8)	Propylparabene (CAS 94-13-3)

NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

37O – FRESH WATERS - ESA AND OXA METABOLITES

- Proficiency testing scheme created in **2016**
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Surface water

MAIN PARAMETERS*

Acetochlore OXA (CAS 194992-44-4)
Alachlore OXA (CAS 171262-17-2)
Metazachlore OXA (CAS 1231244-60-2)
Metolachlore OXA (CAS 152019-73-3)

Acetochlore ESA (CAS 187022-11-3)
Alachlore ESA (CAS 142363-53-9)
Metazachlore ESA (CAS 172960-62-2)
Metolachlore ESA (CAS 171118-09-5)

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NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

48A – WATERS: AOX

- Proficiency testing scheme created in **2004**
- **17 registered laboratories** from **8 countries**
- This PTS is **accredited** by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.

AOX

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MATRICES

Feed water	Waste water inlet	Waste water outlet.

MAIN PARAMETERS*

AOX

NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

48B – WATERS: HYDROCARBONS

- Proficiency testing scheme created in **2004**
- **39 registered laboratories** on average from **7 countries**
- This PTS is accredited by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Feed water	Waste water inlet	Waste water outlet.

MAIN PARAMETERS*

Hydrocarbon index (C_{10} – C_{40})

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NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

48C – WATERS: VOLATIL HYDROCARBONS

- Proficiency testing scheme created in **2016** (previously in PTS 48b)
- This PTS is accredited by COFRAC
- 3 **rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Feed water	Waste water inlet	Waste water outlet.

MAIN PARAMETERS*

Volatil Hydrocarbon index (C_5-C_{11})

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NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

50 – WATERS: MICROBIOLOGICAL ANALYSES LEGIONELLA

- Proficiency testing scheme created in **2004**
- **28 registered laboratories** from **6 countries**
- This PTS is **accredited** by COFRAC
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

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MATRICES

Feed water: sterilized, non-chlorinated and spiked.

MAIN PARAMETERS*

Legionella

Legionella pneumophila.

NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

50A – COOLING TOWER WATERS: MICROBIOLOGICAL ANALYSES LEGIONELLA

- Proficiency testing scheme created in **2011**
- **26 registered laboratories** from **3 countries**
- This PTS is **accredited** by COFRAC
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

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MATRICES

Contaminated artificial water.

MAIN PARAMETERS*

Legionella

Legionella pneumophila.

NA => Non accredited parameter
**This list of parameters could be modified according to the nature of the product. The information mentioned in that form could be modified during annual series after decisions from the Committee, technical group or Chairperson.*

52 – WASTE WATERS: PHYSICO-CHEMICAL ANALYSES

- Proficiency testing scheme created in **1998**
- **96 registered laboratories** from **21 countries**
- This PTS is **accredited** by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Industrial water	Waste water inlet	Waste water oulet

MAIN PARAMETERS*

Natural structure

Ammonium	Mineralized silica
Biochemical demand in O2	Nitrates
Bromides	Nitrites
Chemical demand in O2	Orthophosphates
Chlorides	Oxydability with KMnO4
Conductivity at 25°C	pH
Dissolved organic carbon	Redox potential
Dissolved salts	Sulfates
Dissolved silica	Suspended solids
Fluorides	Total alkalinity
Hardness	Total nitrogen
Hexane extracted substances	Total organic carbon
Kjeldahl nitrogen	Turbidity

Major pollutants

Free and total cyanides
Phenol Index
Anionic surfactants

Minerals and Metals

Aluminium	Molybdenum
Antimony	Nickel
Arsenic	Phosphorus (total)
Barium	Potassium
Beryllium	Selenium
Bismuth	Silver
Boron	Sodium
Cadmium	Strontium
Calcium	Tellurium
Chromium (total)	Thallium
Chromium VI	Titanium
Cobalt	Tungstene
Lead	Uranium
Magnesium	Vanadium
Manganese	Zinc
Mercury	

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NA => Non accredited parameter
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52B – WASTE WATERS: BASIC PHYSICO-CHEMICAL ANALYSES

- Proficiency testing scheme created in **2014**
- **96 registered laboratories** from **21 different countries**
- This PTS is **accredited** by COFRAC
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Industrial water	Waste water inlet	Waste water oulet

MAIN PARAMETERS*

Amonium	Suspended solids
Kjeldahl nitrogen	Nitrates
Bromides	Nitrites
Calcium	pH
Chlorides	Phosphates
Chemical Oxygen Demand	Phosphorus (total)
Conductivity	Potassium
Total organic carbon	Dissolved salts
Biochemical demand in O2	Dissolved sillica
Chemical demand in O2	Sodium
Fluorides	Sulfates
Magnesium	Total alkalinity

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53 – WASTE WATERS: MICROPOLLUTANTS

- Proficiency testing scheme created in **1998**
- **41 registered laboratories** on average in **8 different countries**
- This PTS is accredited by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Industrial water	Standard solution [NA]	Waste water oulet

MAIN PARAMETERS*

Volatil Organic Compounds – list 1
Bromoforme
Chloroforme
Dibromomonochloromethane
Dichloroethane 1,1
Dichloroethane-1,2
Dichloroethylene-1,1
Dichloroethylene-1,2 cis
Dichloroethylene-1,2 trans
Dichloromethane
Dichloromonobromomethane
Hexachlorobutadiene
Tetrachloroethylene
Tetrachlorure de carbone
Trichloroethane-1,1,1
Trichloroethane-1,1,2
Trichloroethylene

BTX
Benzene
Ethylbenzene
Isopropylbenzene
Styrene
Toluene
Xylene (Meta, para)
Xylene (o)

Volatil Organic Compounds - list 2
1,1,2,2-tetrachloroethane
3-chloroprene (Allyl chloride)
Bromochloromethane
Bromomethane
Chloroprene
Dibromoethane-1,2
Dibromomethane
Dichloropropane-1,2
Dichloropropene-1,3 (cis)
Dichloropropene-1,3 (trans)
Ethyltertiobutylether
Fluorotrichloromethane
Hexachlorobutadiene
Hexachloroethane
Vinyl chloride

PCB
PCB 28
PCB 52
PCB 101
PCB 118
PCB 138
PCB 153
PCB 180

PAH
Acenaphthene
Acenaphtylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (ghi) perylene
Benzo (k) fluoranthene
Chrysene
Dibenzo (ah) anthracene
Fluoranthene
Fluorene
Indeno (123 cd) pyrene
Methyl (2) fluoranthene
Methyl (2) naphtalene
Naphtalene
Phenanthrene
Pyrene

Other molecules
Biphenyl
Hexachlorobutadiene
Tributylphosphate

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53 – WASTE WATERS: MICROPOLLUTANTS

- Proficiency testing scheme created in **1998**
- **41 registered laboratories** on average in **8 different countries**
- This PTS is accredited by COFRAC
- **6 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Industrial water	Standard solution [NA]	Waste water oulet

MAIN PARAMETERS*

Organochlorinated insecticides
2,4'-DDD
2,4'-DDE
2,4'-DDT
2,6-Dichlorobenzamide/Dichlobenil
4, 4'DDD
4, 4'DDE
4, 4'DDT
Alachlore
Aldrine
Alpha Chlordane
Dieldrine
Endosulfan Alpha
Endosulfan Beta
Endrine
Gamma Chlordane
HCH Alpha
HCH Beta
HCH Delta
Heptachlore
Heptachlore epoxyde Cis
Heptachlore epoxyde Trans
Isodrine
Lindane
Trifluraline

Organophosphorus compounds
Azinphos-ethyl
Azinphos-methyl
Chlormephos
Chlorpyrifos
Chlorpyriphos-methyl
Chlorvenvinphos
Demeton-O
Diazinon
Dichlorvos
Dimethoate
Fenithrothion
Malathion
Omethoate
Parathion-ethyl
Parathion-methyl
Pyrimiphos-methyl

Chloroaromatics
Chlorobenzene
2-Chlorotoluene
3-chlorotoluene
4-chlorotoluene
Dichlorobenzene (1,2)
Dichlorobenzene (1,3)
Dichlorobenzene (1,4)
1,2,3-trichlorobenzene
1,2,4-trichlorobenzene
1,3,5-trichlorobenzene
1,2,4,5-tetrachlorobenzene

Phtalates
Bis-2-ethylhexylphtalate
Butyl benzyl phtalate
Diethyl phtalate
n-Butyl Phtalate
Phtalate de dimethyle

Substituted ureas
Chortoluron
Diuron
Ethidimuron
Isoproturon
Linuron
Methabenzthiazuron
Metobromuron
Metoxuron
Monolinuron
Monuron

Chlorobenzenes
1,2,3-trichlorobenzene
1,2,4,5-tetrachlorobenzene
1,2,4-trichlorobenzene
1,3,5-trichlorobenzene
Hexachlorobenzene
Pentachlorobenzene

Triazines
Atrazine
Ametryne
Atrazine 2-hydroxy-desethyl
Bentazone
Cyanazine
Cybutryne
Deisopropyl atrazine
Desethylatrazine
Desisopropyldesethylatrazine
Hydroxy-2-atrazine
Hydroxy-2-simazine
Metribuzine
Prometryne
Propazyne
Sebutylazine
Simazine
Terbumeton
Terbumeton-desethyl
Terbutryne
Terbutylazine
Terbutylazine-2-hydroxy
Terbutylazine-desthyl

Other Herbicides
Metazachlore
Metolachlore
Norflurazon

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53 – WASTE WATERS: OTHERS MICROPOLLUTANTS (1/2)

- Proficiency testing schemes created in **2011**
- PTSs **accredited** by COFRAC
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

Options	Matrices	Parameters
53b – PBDE	Industrial waste water	PBDE 100 pentabromodiphenylether
		PBDE 153 hexabromodiphenylether
		PBDE 154 hexabromodiphenylether
		PBDE 183 heptabromodiphenylether
		PBDE 209 decabromodiphenylether
		PBDE 28 tribromodiphenylether
		PBDE 47 tetrabromodiphenylether
		PBDE 99 pentabromodiphenylether
53c – Alkyphenols	Industrial waste water	4-(1,1,3,3-tetramethylbutyl)-phenol
		4-n-nonylphenol
		4-n-Octylphenol
		4-nonylphenol diethoxylate NP2OE
		4-nonylphenol monoethoxylate NP1OE
		4-tert-octylphenol diethoxylate OP2OE
		4-tert-octylphenol monoethoxylate OP1OE
		Bisphenol A
		Nonylphenols (melanges isomeres)
53d – Organotins	Industrial waste water	Dibutyletain cation
		Dioctyletain cation
		Monobutyletain cation
		Tetrabutyl etain cation
		Tributyletain cation
		Triphenyletain cation
53e – Anilines	Industrial waste water	2-chloroaniline
		3,4-dichloroaniline
		3-chloroaniline
		4-chloro-2 nitroaniline
		4-chloroaniline

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53 – WASTE WATERS: OTHERS MICROPOLLUTANTS (2/2)

- Proficiency testing schemes created in **2011**
- PTSs **accredited** by COFRAC
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

Options	Matrices	Parameters
53f – Chloroacetic acid	Industrial waste water	Chloroacetic acid (CAS 79-11-8)
53g – Epichlorhydrin	Industrial waste water	Epichlorhydrine (CAS 106-89-8)
53h – Polychlorinated alkanes	Industrial waste water	Chloroalcanes C_{10}-C_{13} (CAS 8535-84-8)
53j – Nitroaromatics	Industrial waste water	1-chloro-2 nitrobenzene
		1-chloro-3 nitrobenzene
		1-chloro-4 nitrobenzene
		2- Nitrotoluene
		Nitrobenzene
53k – Chlorophenols	Industrial waste water	2,4,5-trichlorophenol
		2,4,6-trichlorophenol
		2,4-dichlorophenol
		2-chlorophenol
		3-chlorophenol
		4-chloro-3-methylphenol
		4-chlorophenol
		Pentachlorophenol
53l – Perfluorinated compounds	Industrial waste water	Acide perfluoro-decanoïque
		Acide perfluoro-hexane sulfonique
		Acide perfluoro-octane sulfonique PFOS
		Acide perfluoro-octanoïque PFOA

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NA => Non accredited PT

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54 - WATERS: MICROBIOLOGICAL ANALYSES SALMONELLA

- Proficiency testing scheme created in **2006**
- **16 registered laboratories** from **5 countries**
- This PTS is accredited by COFRAC
- **3 rounds per annual series** (November, February, June)
- For further details on samples please refer to the planning.

MATRICES

Feed water.

MAIN PARAMETERS*

Salmonella spp detection (presence / absence).

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57 – WATERS: FIELD ANALYSES BY SAMPLERS

- Proficiency testing scheme created in **2008**
- This PTS is accredited by COFRAC
- **144 registered laboratories** on average from **13 countries**
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Feed water
Swimming-pool water
Surface water

Preparation solution
Waste water

MAIN PARAMETERS*

Conductivity at 25°C
Free chlorine
Total chlorine
Active chlorine
Colour
Dissolved oxygen

Redox potential
pH
Salinity
Stabilizing agent: isocyanuric acid
Turbidity

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NA => Non accredited parameter
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57A – WATERS: FIELD ANALYSES BY SAMPLERS

- Proficiency testing scheme created in **2016**
- **3 rounds per annual series**
- For further details on samples please refer to the planning.

MATRICES

Drinking water

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MAIN PARAMETERS*

Qualitative and organoleptic analyses: colour, odour and flavour

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59 – WATERS: MULTIRESIDUE SEARCH OF ORGANIC SUBSTANCES

- Proficiency testing scheme created in **2008**
- **26 registered laboratories** on average from **4 countries**
- This PTS is accredited by COFRAC
- **3 rounds per annual series** (October, January, May)
- For further details on samples please refer to the planning.

MATRICES

Feed water	Surface water
Waste water	Surface water naturally contaminated and spiked

Around 250 molecules per campaign. Below around 50 molecules garanteed during the program

MAIN PARAMETERS*

Acetamipride	
Acrinathrine	Fluvalinate, -tau
Alanycarb	Furathiocarb
Aldicarb	Hexytiazox
Aldicarb sulfone	Iprovalicarbe
Aldicarb sulfoxide	Kresoxim-methyl
Benalaxyl	Methiocarb
Benfuracarb	Methomyl
Bifenthrine	Oxamyl
Buprofezine	Penconazole
Butocarboxim	Permethrine
Butoxycarboxim	Phosalone
Coumaphos	Phosmet
Cyazofamide	Proquinazide
Cyflufenamide	Pyraclostrobine
Cymiazole	Pyrimicarbe
Diethyl toluamide	Spiroxamine
Diphenylamine	Tebufenozide
Etephon	Tebufenpyrade
Ethiofencarb	Tebuthiuron
Etoxazole	Tetradifon
Fenamidone	Thiaclopride
Fenbuconazole	Thidiazuron
Fenhexamide	Thiophanate-methyl
Flumethrine	Triadimenol
Flusilazole	Vinclozoline

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NA => Non accredited parameter

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78 - TASTING ANALYSES ON DRINKING WATER: ODOUR AND FLAVOUR

- **New PT 2015/3016**
- **2 rounds per annual series**
- For further details on samples please refer to the planning.

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MATRICES

Drinking water

MAIN PARAMETERS*

Method: full method by paired test with unforced choice protocol according to the NF EN 1622 standard

Determination of the threshold odour number (TON)
Determination of the threshold flavour number (TFN)

NA => Non accredited parameter

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