

# **Annex**

## **Methodological Factsheets**

*(in alphabetical order)*

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>	<b>cations</b>							
<b>single parameters</b>	<b>Ammonium</b>							
<b>accredited</b>	Yes	x	No		Yes	y	No	
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	100ml	material:	glass/plastic	volumina	100	material:	glass/plastic
<b>sample volumina</b>	100ml				100			
<b>Preparation of the sample bottles</b>	Yes		No	x	Yes		No	no
	if yes, description: Cleaning with MiliQ				if yes, description:			
<b>filtration (in the field)</b>	Yes		No	x	Yes		No	no
	if yes, description:				if yes, description:			
<b>stabilisation of the sample</b>	Yes		No	x	Yes	yes	No	
	if yes, description:				if yes, description:			
<b>name of the method</b> (e.g. MSZ, DIN,...)	ÖNORM ISO 7150-1				MSZ ISO 7150-1			
<b>sample transport: cooled</b>	Yes		No		Yes	yes	No	
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	spectroscopy at 655 nm				spectrophotometria at 650 nm			
<b>description of the method - most important steps</b>	Ammonia reacts with hypochlorite ions (from sodium dichloroisocyanurate) and salicylate in the presence of sodium nitroprusside, at a pH of approximately 12.6, to form a blue-green reaction product. This is measured spectrophotometrically at 655 nm.				Ammonia reacts with hypochlorite ions (from sodium dichloroisocyanurate) and salicylate in the presence of sodium nitroprusside, at a pH of approximately 12.6, to form a blue-green reaction product (thought to be related to indophenol blue). This is measured spectrophotometrically at 650 nm.			
<b>LOD</b>	value	0,005	dimension	NH4 mg/L	value	0,013	dimension	NH4 mg/L
<b>LOQ</b>	value	0,010	dimension	NH4 mg/L	value	0,02	dimension	NH4 mg/L
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>	<b>surfactants</b>							
<b>single parameters</b>	<b>anionic surfactants</b>				<b>Anionic tensides MBAS</b>			
<b>accredited</b>	Yes	x	No		Yes	x	No	
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	1 liter	material:	glass	volumina	1 liter	material:	glass
<b>sample volumina</b>	0,5 liters				1000 ml			
<b>Preparation of the sample bottles</b>	Yes		No	x	Yes		No	x
	if yes, description:				after washing,rinsing with diluted HCl			
<b>filtration (in the field)</b>	Yes	x	No		Yes		No	x
	if yes, description:				in case of foaming filtrate and discard the first 100 ml of the filtrate obtained (DIN 38409, 2.1.7)			
<b>stabilisation of the sample</b>	Yes		No	x	Yes	yes	No	
	if yes, description:				acidifying with cc H2SO4 pH< 2			
<b>name of the method</b> (e.g. MSZ, DIN,...)	DIN 38409 / DEV H23				MSZ 12750-24:			
<b>sample transport: cooled</b>	Yes	x	No		Yes	x	No	
<b>analysis</b>								
<b>description of the analysis system</b> (e.g. gas chromatography,...)	Hitachi U-2001 Spectrophotometer				spectrophotometria 652 nm			
<b>description of the method</b> <b>- most important steps</b>	Extraction using a carbonate/bicarbonate buffer solution, a solution of methylene blue and chloroform. Separation of phases and extraction of the organic phase with acidic methylene blue solution. After three alkaline and acidic extractions the chloroform phases are combined and made up to the desired volume. Measurement of the intensity of absorption at 650nm with a 10 mm cuvette.				tensides give blue color with methylene-blue. Extraction with chloroform, measurement at 652 nm			
<b>LOD</b>	value	0,1	dimension	mg/l	value	0,025	dimension	mg/l
<b>LOQ</b>	value	0,3	dimension	mg/l	value	0,05	dimension	mg/l
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>								
<b>single parameters</b>	<b>AOX</b>							
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	250mL	material:	glas	volumina	300	material:	glass
<b>sample volumina</b>	100mL				300			
<b>Preparation of the sample bottles</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description: Cleaning with MilliQ and drying at 120 °C for 12 h				after washing, heating at 150 °C			
<b>filtration (in the field)</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description:							
<b>stabilisation of the sample</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description: acidifying with 1 ml HNO3 pH< 2				acidifying with HNO3 pH< 2			
<b>name of the method (e.g. MSZ, DIN,...)</b>	DIN EN ISO 9562				MSZ EN ISO 9562			
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	AOX analyser:ECS 1200				high temp. combustion in oxigene, coulometric titration,AOX analyser:ECS 1200			
<b>description of the method - most important steps</b>	<p>Important steps (also when proceeding according to the standard; including the nomination of the solvent, eventual solid phases, type of digestion,...)</p> <p>The organic components of the hydrogens are extracted with active coal from the sample that has been acidified with nitric acid. In the end, the active coal is burned at min. 950°C in oxigen stream, and the halogenic-hydrogens that are formed are determined by coulometry.</p>				<p>sample prep: shaking method, high temp. combustion in oxigene, coulometric titration</p>			
<b>LOD</b>	value	0,001	dimension	mg/l	value	0,001	dimension	mg/l
<b>LOQ</b>	value	0,002	dimension	mg/l	value	0,01	dimension	mg/l
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>								
<b>single parameters</b>	BSB5				BOI5			
<b>accredited</b>	Yes	x	No		Yes	x	No	
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	250mL	material:	glas	volumina	2*300	material:	glass
<b>sample volumina</b>	250mL				2*300			
<b>Preparation of the sample bottles</b>	Yes		No	x	Yes		No	x
	if yes, description: Cleaning with MiliQ and drying at 120 °C for 12 h				Winkler bottle			
<b>filtration (in the field)</b>	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
<b>stabilisation of the sample</b>	Yes		No	x	Yes	1*300	No	
	if yes, description:				sampling without any airbubble, preservation on site			
<b>name of the method</b> (e.g. MSZ, DIN,...)	DIN 1899_1,1899_2				MSZ EN 1899-2			
<b>sample transport: cooled</b>	Yes		No		Yes	yes	No	
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	Ingold O2-Sensor, Inv.05/400/0236				jodometric titrimetria			
<b>description of the method - most important steps</b>	The sample is filled into ground flasks, determination of dissolved oxygen by the electrochemical probe method, and then it is brood in the incubator at 20 °C 5 for five days - (no titration) - after the five days O2 will be measured again and then the difference between the two measurements is rearged as the measure value				The sample is filled into ground flasks, determination of dissolved oxygen by jodometric titrimetric method, and then it is brood in the incubator at 20 °C 5 for five days - after the five days O2 will be measured again and then the difference between the two measurements is rearged as the measure value			
<b>LOD</b>	value	0,8	dimension	mg/l	value	0,3	dimension	mg/l
<b>LOQ</b>	value	1	dimension	mg/l	value	0,4	dimension	mg/l
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	cations							
single parameters	<b>Calcium, Magnesium, Sodium, Potassium</b>				<b>Calcium</b>			
accredited	Yes	x	No		Yes	x	No	
sample campaign								
sample bottles	volumina	25ml	material:	PP	volumina	100ml	material:	HD-PE
sample volumina	25ml				100 ml			
Preparation of the sample bottles	Yes		No	x	Yes	Yes	No	
	if yes, description: Cleaning with MilliQ				The HD-PE bottle washing and keeping at least 24 h in a1+9 (w/v) HNO3 solution. Afterwards, carefully rins several times with ultrapure water and left to dry before use.			
filtration (in the field)	Yes	x	No		Yes	x	No	
	filter sample through 0.45 µm membrane				The sample filtered in the field through a 0.45 µm membrane filter.			
stabilisation of the sample	Yes	x	No		Yes	x	No	
					The filtered sample, acidify with (1+1) nitric acid to pH<2.			
name of the method (e.g. MSZ, DIN,...)					MSZ 1484-3:2006			
sample transport: cooled	Yes	x	No		Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	Determination of dissolved Na+, K+, Ca2+, Mg2+ using ion chromatography				Perkin-Elmer 3030 with High Performance Nebulizer			
description of the method - most important steps	Determination of Na+, K+, Ca2+, Mg2+ using ion chromatography with suppressed conductivity detection				FAAS Direct Aspiration. Use N2O-C2H2 flame			
LOD	value	0,02	dimension	mg/l	value	0,02	dimension	mg/l
LOQ	value	0,05	dimension	mg/l	value	0,05	dimension	mg/l
remarks								

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	cations							
single parameters	<b>Calcium, Magnesium, Sodium, Potassium</b>				<b>Potassium</b>			
accredited	Yes	x	No		Yes	x	No	
sample campaign								
sample bottles	volumina	25ml	material:	PP	volumina	100ml	material:	HD-PE
sample volumina	25ml				100 ml			
Preparation of the sample bottles	Yes		No	x	Yes	x	No	
	if yes, description: Cleaning with MilliQ				Cleaning with distilled water			
filtration (in the field)	Yes	x	No		Yes	x	No	
	filter sample through 0.45 µm membrane				The sample filtered in the field through a 0.45 µm membrane filter.			
stabilisation of the sample	Yes	x	No		Yes	x	No	
					The filtered sample, acidify with (1+1) nitric acid to pH<2.			
name of the method (e.g. MSZ, DIN,...)					flame photometric method			
sample transport: cooled	Yes	x	No		Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	Determination of dissolved Na+, K+, Ca2+, Mg2+ using ion chromatography							
description of the method - most important steps	Determination of Na+, K+, Ca2+, Mg2+ using ion chromatography with suppressed conductivity detection							
LOD	value	0,02	dimension	mg/l	value	3	dimension	mg/l
LOQ	value	0,05	dimension	mg/l	value	4	dimension	mg/l
remarks								

		Austria				Hungary			
<b>methodic fact sheet</b>									
<b>group of parameters</b>	<b>anions</b>								
<b>single parameters</b>	<b>chlorid, nitrate, sulphate</b>				<b>Nitrate</b>				
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>
<b>sample campaign</b>									
<b>sample bottles</b>	volumina		material:	PE	volumina		material:	glass/plastic	
<b>sample volumina</b>					100				
<b>Preparation of the sample bottles</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	if yes, description: Rinsing with MilliQ								
<b>filtration (in the field)</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>
	if yes, description:				0,45 µm filter				
<b>stabilisation of the sample</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	if yes, description:								
<b>name of the method (e.g. MSZ, DIN,...)</b>	ÖNORM EN ISO 10304-1,2				MSZ 12750-18:				
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>
<b>analysis</b>									
<b>description of the analysis system (e.g. gas chromatography,...)</b>	Determination of Cl, NO3, SO4 using ion chromatography				spectrophotometric method, 415 nm				
<b>description of the method - most important steps</b>	Determination of Cl, NO3, SO4 using ion chromatography with suppressed conductivity detection				spectrophotometric method, 415 nm				
<b>LOD</b>	value	0,25	dimension	mg/l	value	0,2	dimension	mg/l	
		0,25		mg/l Cl					
		0,03		mg/l NO3					
		0,25		mg/l SO4					
<b>LOQ</b>	value	1	dimension	mg/l	value	0,4	dimension	mg/l	
		1,00		mg/l Cl					
		0,06		mg/l NO3					
		1,00		mg/l SO4					
<b>remarks</b>									



	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters								
single parameters	<b>CSB</b>				<b>COD(Cr) /surface water/</b>			
accredited	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
sample campaign								
sample bottles	volumina	250 mL	material:	glas	volumina	300 ml	material:	glass
sample volumina	250 mL				300 ml			
Preparation of the sample bottles	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description:				if yes, description:			
filtration (in the field)	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description:				if yes, description:			
stabilisation of the sample	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description:				if yes, description:			
name of the method (e.g. MSZ, DIN,...)	DIN EN ISO 9562				MSZ ISO 6060:1991 ( only for waste water )			
sample transport: cooled	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
analysis								
description of the analysis system (e.g. gas chromatography,...)	DIN 38409-H45, DIN EN ISO 8467				MSZ ISO 6060:1991 ( only for waste water )			
description of the method - most important steps	Determination of the chemical oxygen demand, by means of potassium dichromate in sulphuric solution, using mercury sulphate to mask the chloride-ions and silver sulphate as catalyst (Mercury (II) sulfate : 1,35 mol /l; Silver sulfate in sulfuric acid: 0,0385 mol/l)				Determination of the chemical oxygen demand, by means of potassium dichromate in sulphuric solution, using mercury sulphate to mask the chloride-ions and silver sulphate as catalyst. Boiling time for waste water 2 hour, for surface water 1 hour			
LOD	value	2	dimension	mg/l	value	0,6	dimension	mg/l
LOQ	value	4	dimension	mg/l	value	0,8	dimension	mg/l
remarks								

		Austria				Hungary			
<b>methodic fact sheet</b>									
<b>group of parameters</b>		<b>Organic Carbon</b>							
<b>single parameters</b>		<b>DOC</b>							
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No		
<b>sample campaign</b>									
<b>sample bottles</b>	volumina	250 ml	material:	glass	volumina	300 ml	material:	glass	
<b>sample volumina</b>	150 ml				300 ml				
<b>Preparation of the sample bottles</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No		
	Rinsing with MiliQ and drying				washing				
<b>filtration (in the field)</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No		
	0,45 µm membrane filter (Polycarbonate)				DOC: glass fiber filter (MN 85/90 BF average retention capacity: 0,5 um)				
<b>stabilisation of the sample</b>	Yes	<input checked="" type="checkbox"/>	No		Yes		No		<input checked="" type="checkbox"/>
	after filtration: pH < 2 with HCl								
<b>name of the method (e.g. MSZ, DIN,...)</b>	ÖNORM EN 1484				MSZ EN 1484				
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No		
<b>analysis</b>									
<b>description of the analysis system (e.g. gas chromatography,...)</b>	Shimadzu TOC-V CPN				high temp combustion, Pt catalisator, IR detection, instrument : High TOCII Elemantar				
<b>description of the method - most important steps</b>	high temp combustion (Pt catalysator), IR detection of CO2				high temp combustion, Pt catalisator, IR detection				
<b>LOD</b>	value	0,5	dimension	mg/l	value	0,25	dimension	mg/l	
<b>LOQ</b>	value	1	dimension	mg/l	value	0,5	dimension	mg/l	
<b>remarks</b>									

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	On-site parameters							
single parameters	<b>electrical conductivity</b>							
accredited	Yes	x	No		Yes	x	No	
sample campaign								
sample bottles	volumina		material:		volumina	100	material:	glass/plast
sample volumina	On-site measurement				100			
Preparation of the sample bottles	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
filtration (in the field)	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
stabilisation of the sample	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
name of the method (e.g. MSZ, DIN,...)	ÖNORM EN 27888; Method for the determination of electrical conductivity				MSZ 448-32			
sample transport: cooled	Yes		No	x	Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	Multiline 350i, WTW				conductometria			
description of the method - most important steps	On-site measurement Calibrate the instrument using KCl Measurement							
LOD	value		dimension	$\mu\text{S/cm}$ bei 25 °C	value		dimension	
LOQ	value		dimension		value		dimension	
remarks								

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	foaming factor/foam potential							
single parameters	<b>foaming factor/foam potential</b>							
accredited	Yes		No	x	Yes		No	x
sample campaign								
sample bottles	volumina	500ml	material:	glas	volumina	1000ml	material:	glas
sample volumina	500ml				1000ml			
Preparation of the sample bottles	Yes	x	No		Yes	x	No	
	if yes, description: rinse with deionised water, rinse with ethanol, dry at 95°C				if yes, description: rinse with deionised water, rinse with ethanol, dry at 95°C			
special feature at sample filing	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
filtration (in the field)	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
stabilisation of the sample	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
name of the method (e.g. MSZ, DIN,.....)								
sample transport: cooled	Yes	x	No		Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	laboratory shaker (Type Ceromat-U)				laboratory shaker (Type Janke and Kinkel HS-500)			
description of the method - most important steps	<p>250 ml of effluent are shaken in Erlenmeyer flasks with baffels on a laboratory Shaker (Type Ceromat-U) for the duration of three minutes at a speed of 300 rpm. After shaking the foam size and the time, until the foam cover tores open, are measured. In case of foam occurrence the sample is diluted as long as no more foam is produced. The dilution factor, at which minimal foam occurs, is defined as "foaming factor".</p> <p>For the calculation of the "foam potential" of an effluent the foaming factor of this effluent is multiplied with the effluents' discharge:  <math>FP_{effl.x} = FF_{effl.x} \cdot Q_{effl.x}</math>            FP = Foam potential of effluent x [m³/s]            FF = Foaming factor of effluent x            Q = Discharge of effluent x [m³/s]</p>				<p>250 ml of effluent are shaken in Erlenmeyer flasks with baffels on a laboratory Shaker for the duration of three minutes at a speed of 300 rpm. In case of foam occurrence the sample is diluted as long as no more foam is produced. The dilution factor, at which minimal foam occurs, is defined as "foaming factor".</p>			
Performed as duplicates	Yes		No	x	Yes		No	x
LOD	value	1	dimension	-	value	1	dimension	-
LOQ	value	-	dimension	-	value	-	dimension	-
remarks	only suitable for samples of effluents, not suitable for river water							

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>								
<b>single parameters</b>	<b>total hardness, carbonate hardness, hydrocarbonate - calculated</b>				<b>total hardness, carbonate hardness</b>			
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No	
<b>sample campaign</b>								
<b>sample bottles</b>	volumina		material:		volumina		material:	glass/plast
<b>sample volumina</b>					50			
<b>Preparation of the sample bottles</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
<b>filtration (in the field)</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
					if yes, description:			
<b>stabilisation of the sample</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
<b>name of the method (e.g. MSZ, DIN,....)</b>					MSZ 448-21			
<b>sample transport: cooled</b>	Yes		No	<input checked="" type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>					complexometric titration wit EDTA			
<b>description of the method - most important steps</b>	total hardness: calculated of additition Mg and Ca carbonate hardness: calculated from acid capacity hydrocarbonate: calculated from acid capacity				complexometric titration wit EDTA			
<b>LOD</b>	value		dimension		value	1	dimension	CaO mg/l
<b>LOQ</b>	value		dimension		value	2	dimension	CaO mg/l
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	Mercury							
single parameters	Hg							
accredited	Yes	x	No		Yes	x	No	
sample campaign								
sample bottles	volumina	250ml	material:	glass	volumina	100ml	material:	HD-PE
sample volumina	250ml				100 ml			
Preparation of the sample bottles	Yes	x	No		Yes	x	No	
	if yes, description: Nitric acid washed bottles, filled with 1 vol% diluted HNO <sub>3</sub> 65% subboiled for at least 24 h. Thoroughly rinsed with MilliQ water (> 18,2 MOHMcM).				The HD-PE bottle washing and keeping at least 24 h in a1+9 (w/v) HNO <sub>3</sub> solution. Fill in 6 day 0,25+0,75+0,3 (w/v) HNO <sub>3</sub> +HCL+H <sub>2</sub> O <sub>2</sub> mix solution. Afterwards, carefully rins several times with ultrapure water and left to dry before use.			
special feature at sample filing	Yes		No	x	Yes	x	No	
	Filtration according to EQN must take place - note according to Austrian method no filtration on site should take place - Due to the protocol EQN-Method should be followed during Raab Survey 2009! As AFS is not available EN1483 should be followed.				no filtration on site (according to Austrian method)			
filtration	Yes	x	No		Yes	x	No	
	filtered 0,45µm acc. to EQN: Filtration as soon as possible after receipt in the laboratory through a 0,45µm membrane filter.							
stabilisation of the sample	Yes	x	No		Yes	x	No	
	Stabilization of 0,45µm filtered sample with K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> 0,05%/HNO <sub>3</sub> -solution.				The filtered sample, acidify with (1+1) nitric acid			
name of the method (e.g. MSZ, DIN,...)	ÖNORM EN 1483				MSZ EN 13506			
sample transport: cooled	Yes	x	No		Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	Perkin Elmer FIMS 400 Flow injection mercury system				PS Analytical, MILLENIUM MERLIN 10.025			
description of the method - most important steps	<b>Filtration according to EQN.</b> Hg: 0,45µm filtered samples stabilized with K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> 0,05%/HNO <sub>3</sub> -solution will be measured by CV-AAS after enrichment by amalgamation and reduction with sodium tetrahydridoborate.  <b>! No further digestion step will take place.</b>				reduction with tin(II)chlorid and determination of mercury by atomic fluorescence spectrometry			
LOD	value		dimension	mg/l	value		dimension	mg/l
		Hg		0,00001		Hg		0,00001
LOQ	value		dimension	mg/l	value		dimension	mg/l
		Hg		0,000015		Hg		0,00002
remarks	according to protocol - filtration and stabilization will take place as soon as possible after receipt in the laboratory.							

		Austria		
<b>methodic fact sheet</b>				
<b>group of parameters</b>	<b>Linear Alkylbenzene Sulfonate (LAS)</b>			
<b>single parameters</b>				
<b>accredited</b>	Yes	x	No	
<b>sample campaign</b>				
<b>sample bottles</b>	volumina	1 L	material:	plastic
<b>sample volumina</b>	2 x 1 L			
<b>Preparation of the sample bottles</b>	Yes		No	
	if yes, description: The sample containers are washed by tap water, acetone and redistilled methanole. Afterwards they are dried by 80 °C (plastic!!)			
<b>special feature at sample filing</b>	Yes		No	x
<b>filtration (in the field)</b>	Yes		No	x
	if yes, description:			
<b>stabilisation of the sample</b>	Yes	x	No	
	if yes, description: with 15 ml Fomaldehyde			
<b>name of the method (e.g. MSZ, DIN,...)</b>	SOP 313020-06 LAS wässrig.doc			
<b>sample transport: cooled</b>	Yes	x	No	
<b>analysis</b>				
<b>description of the analysis system (e.g. gas chromatography,...)</b>	HPLC with Fluorescence Detection			
<b>description of the method - most important steps</b>	Addition of a surrogate standard Solid phase extraction with C18 cartrigdes Elution with methanole Evaporation of the solvent Disolvation of the residue in methanole Seperation and determination by HPLC-FLD			
<b>LOD</b>	value	20	dimension	µg/l
<b>LOQ</b>	value	40	dimension	µg/l
<b>remarks</b>	sewage			

		Austria		
<b>methodic fact sheet</b>				
<b>group of parameters</b>	<b>Linear Alkylbenzene Sulfonate (LAS)</b>			
<b>single parameters</b>				
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>sample campaign</b>				
<b>sample bottles</b>	volumina	1 L	material:	plastic
<b>sample volumina</b>	2 x 1 L			
<b>Preparation of the sample bottles</b>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description: The sample containers are washed by tap water, acetone and redistilled methanole. Afterwards they are dried by 80 °C (plastic!!)			
<b>special feature at sample filing</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<b>filtration (in the field)</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description:			
<b>stabilisation of the sample</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description: with 15 ml Formaldehyde			
<b>name of the method</b> (e.g. MSZ, DIN,...)	SOP 313020-06 LAS wässrig.doc			
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>analysis</b>				
<b>description of the analysis system (e.g. gas chromatography,...)</b>	HPLC with Fluorescence Detection			
<b>description of the method</b> - most important steps	Addition of a surrogate standard Solid phase extraction with C18 cartridges Elution with methanole Evaporation of the solvent Disolvation of the residue in methanole Seperation and determination by HPLC-FLD			
<b>LOD</b>	value	2	dimension	µg/l
<b>LOQ</b>	value	4	dimension	µg/l
<b>remarks</b>	surface water			





		Austria				Hungary			
<b>methodic fact sheet</b>									
group of parameters	Heavy Metals				Metals				
single parameters	Chromium (filtered), Chromium (unfiltered), Copper (filtered), Copper (unfiltered), Iron (filtered), Iron (unfiltered), Lead (filtered), Nickel (filtered), Cadmium (filtered)								
accredited	Yes	x	No		Yes	x	No		
sample campaign									
sample bottles	volumina	1L	material:	Glass	volumina	100ml	material:	HD-PE	
sample volumina	1 L				100 ml				
Preparation of the sample bottles	Yes	x	No		Yes	x	No		
	if yes, description: Nitric acid washed bottles, filled with 1 vol% diluted HNO <sub>3</sub> 65% subboiled for at least 24 h. Thoroughly rinsed with MilliQ water (> 18,2 MOHMcM).				The HD-PE bottle washing and keeping at least 24 h in a 1+9 (v/v) HNO <sub>3</sub> solution. Afterwards, carefully rins several times with ultrapure water and left to dry before use.				
filtration	Yes	x (all El.)	No	x (Cr,Cu,Fe)	Yes	x	No		
	Cr, Cu, Fe, Pb, Ni, Cd - filtered 0,45µm: Filtration as soon as possible after receipt in the laboratory through a 0,45µm membrane filter. Cr, Cu, Fe - unfiltered: no filtration after sampling.				The sample filtered in the field through a 0.45 µ membrane filter.				
stabilisation of the sample	Yes	yes	No		Yes	x	No		
	if yes, description: Cr, Cu, Fe, Pb, Ni, Cd - filtered 0,45µm: After filtration through 0,45µm membrane filter, stabilization with nitric acid (subboiled, 65%) pH<2 in the lab. Cr, Cu, Fe - unfiltered: stabilization with nitric acid (subboiled, 65%) pH<2 in the lab.				The filtered sample, acidify with (1+1) nitric acid to pH<2.				
name of the method (e.g. MSZ, DIN,...)	ÖNORM EN ISO 17294-2				MSZ 1484-3:2006				
sample transport: cooled	Yes	x	No		Yes	x	No		
analysis									
description of the analysis system (e.g. gas chromatography,...)	Perkin Elmer ICP-MS DRC II				Unicam 939QZ AAS				
description of the method - most important steps	ICP-MS: Cr, Cu, Fe, Pb, Ni, Cd: Measurement of 0,45µm filtered and acid stabilized samples by ICP-MS. <b>Cr, Cu, Fe: Unfiltered stabilized samples: microwave assisted digestion with nitric acid and hydroperoxide and measurement by ICP-MS.</b>				ETA-AAS				
LOD	value		dimension	mg/l	value		dimension	mg/l	
		Cr		0,001		Cu		0,0004	
		Cu		0,0005		Ni		0,0005	
		Fe		0,01					
		Pb		0,0005					
		Ni		0,0005		Pb		0,0004	
		Cd		0,0001		Cr		0,0005	
						Cd		0,00005	
LOQ	value		dimension	mg/l	value		dimension	mg/l	
		Cr		0,003		Cu		0,0007	
		Cu		0,001		Ni		0,0007	
		Fe		0,02					
		Pb		0,001					
		Ni		0,001		Pb		0,0007	
		Cd		0,0002		Cr		0,0017	
						Cd		0,0001	
remarks	according to protocol - filtration and stabilization will take place as soon as possible after receipt in the laboratory. <b>Digestion is necessary for unfiltered stabilized samples.</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>	<b>anions</b>							
<b>single parameters</b>	<b>nitrite</b>							
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	100ml	material:	glass/plastic	volumina		material:	glass/plastic
<b>sample volumina</b>	100ml				100			
<b>Preparation of the sample bottles</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description: Cleaning with MiliQ							
<b>filtration (in the field)</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description:				if yes, description:			
<b>stabilisation of the sample</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
	if yes, description:							
<b>name of the method</b> (e.g. MSZ, DIN,...)	ÖNORM EN 26777				MSZ 448-12			
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	spectrophotometria 540 nm				spectrophotometria 540 nm			
<b>description of the method - most important steps</b>	Nitrite ions react with sulphanilamide to form a diazonium compound which, in dilute phosphoric acid, couples with N-(1-naphthyl)-ethylenediamine dihydrochloride to form a reddish-purple azo dye. This is measured spectrophotometrically at 540 nm.				Nitrite ions react with sulphanilamide to form a diazonium compound which, in dilute phosphoric acid, couples with N-(1-naphthyl)-ethylenediamine dihydrochloride to form a reddish-purple azo dye. This is measured spectrophotometrically at 540 nm.			
<b>LOD</b>	value	0,001	dimension	NO2 mg/l	value	0,004	dimension	N mg/l
		0,0003		N mg/l				
<b>LOQ</b>	value	0,005		NO2 mg/l	value	0,005	dimension	N mg/l
		0,0015		N mg/l				
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	Nonylphenol compounds				Phenols			
single parameters	Nonylphenol, Octylphenol							
accredited	Yes		No		Yes		No	
sample campaign								
sample bottles	volumina	1 L	material:	Alu	volumina	2,5L	material:	glass
sample volumina	2 x 1 L				2 x 1 L			
Preparation of the sample bottles	Yes	x	No		Yes	x	No	
	if yes, description: cleaning with tap water and acetone, drying at 120°C for 12 h				Careful washing, rinsing with distilled water, drying (150 C)			
filtration (in the field)	Yes		No	x	Yes		No	x
	if yes, description:							
stabilisation of the sample	Yes		No	x	Yes		No	x
	if yes, description:				if yes, description:			
name of the method (e.g. MSZ, DIN,...)	according to ASTM D 7065				according to MSZ EN ISO 18857-1: 2007			
sample transport: cooled	Yes	x	No		Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	LC-MS/MS				LC-MS/MS			
description of the method - most important steps	addition of a deuterated surrogate mixture, enrichment of analytes by solid phase extraction (C18 cartridges), elution with acetone and methanol/tert-methyl butyl ether, evaporation of solvent, exchange of solvent to acetonitrile, Addition of internal standard mixture, determination by liquid chromatography electrospray ionisation tandem mass spectrometry in negative ionisation mode , quantification by external standard method, recovery correction by serial recovery				addition of a surrogate standard, enrichment of analytes by solid phase extraction (C18 cartridges), elution methanol/acetonitrile. Addition of internal standard mixture, determination by liquid chromatography electrospray ionisation tandem mass spectrometry in negative ionisation mode , quantification by internal standard method			
LOD	value	0,02	dimension	µg/l	value	0,01	dimension	µg/l
LOQ	value	0,04	dimension	µg/l	value	0,02	dimension	µg/l
remarks								

	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	On-site parameters							
single parameters	<b>O2 content</b>				<b>dissolved O2</b>			
accredited	Yes	X	No		Yes	x	No	
sample campaign								
sample bottles	volumina		material:		volumina	250-300	material:	glass
sample volumina	On-site measurement				250-300			
Preparation of the sample bottles	Yes		No	X	Yes		No	x
					Winkler bottle,			
filtration (in the field)	Yes		No	X	Yes		No	x
	if yes, description:				if yes, description:			
stabilisation of the sample	Yes		No	X	Yes	x	No	
	if yes, description:				sampling without any airbubble, preservation on site			
name of the method (e.g. MSZ, DIN,...)	DIN EN 25814; Determination of dissolved oxygen by the electrochemical probe method				MSZ ISO 5813			
sample transport: cooled	Yes		No	X	Yes	x	No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	Multiline 350i, WTW				jodometric titration			
description of the method - most important steps	On-site measurement Autocalibrate the instrument Measurement				jodometric titration			
LOD	value		dimension	mg/l	value	0,05	dimension	mg/l
remarks	service and maintenance of the diaphragm is important							

		Austria				Hungary			
<b>methodic fact sheet</b>									
<b>group of parameters</b>		anions							
<b>single parameters</b>		<b>o-phosphate</b>							
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>
<b>sample campaign</b>									
<b>sample bottles</b>	volumina	250mL	material:	glass	volumina		material:	glass/plastic	
<b>sample volumina</b>	250mL				100				
<b>Preparation of the sample bottles</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	if yes, description: Rinsing with HCl, rinsing with MiliQ								
<b>filtration (in the field)</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	if yes, description:								
<b>stabilisation of the sample</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	cooling to 2-5 °C				cooling to 2-5 °C				
<b>name of the method</b> (e.g. MSZ, DIN,...)	ÖNORM EN ISO 6878				MSZ 448-18				
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>
<b>analysis</b>									
<b>description of the analysis system (e.g. gas chromatography,...)</b>	spectroscopy at 865 nm				high temp. catalitic combustion, chemiluminescence detection				
<b>description of the method - most important steps</b>	reaction with ammonium heptamolybdate, reduction with ascorbic acid gives blue colored complex, spectroscopy at 865 nm				phosphorous compounds will convert to o-phosphate with combustion and hydrolisis, then reaction with molibdenate, reduction with ascorbic acid gives blue color				
<b>LOD</b>	value	0,002	dimension	P mg/l	value	0,01	dimension	P mg/l	
		0,007		PO4 mg/l					
<b>LOQ</b>	value	0,005	dimension	P mg/l	value	0,03	dimension	P mg/l	
		0,015		PO4 mg/l					
<b>remarks</b>									

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>	<b>general parameters</b>							
<b>single parameters</b>	<b>organic nitrogen - calculation</b>							
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	<input type="checkbox"/>	material:	<input type="checkbox"/>	volumina	<input type="checkbox"/>	material:	<input type="checkbox"/>
<b>sample volumina</b>								
<b>Preparation of the sample bottles</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<b>special feature at sample filing</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<b>filtration (in the field)</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<b>stabilisation of the sample</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description:							
<b>name of the method</b> (e.g. MSZ, DIN,...)	-				-			
<b>sample transport: cooled</b>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	-							
<b>description of the method - most important steps</b>	Calculation: organic nitrogen = total nitrogen - inorganic nitrogen (NH4 + NO3 + NO2)				Org N=TN-NH4-NO3-NO2			
<b>LOD</b>	value	<input type="checkbox"/>	dimension	<input type="checkbox"/>	value	<input type="checkbox"/>	dimension	<input type="checkbox"/>
<b>LOQ</b>	value	<input type="checkbox"/>	dimension	<input type="checkbox"/>	value	<input type="checkbox"/>	dimension	<input type="checkbox"/>
<b>remarks</b>								

		Austria				Hungary			
<b>methodic fact sheet</b>									
<b>group of parameters</b>		<b>PAH</b>							
<b>single parameters</b>	Anthracen, Fluoranthen, Benzo-b-fluoranthen, Benzo-k-fluoranthen, Benzo-a-pyren, Benzo-g,h,i-perylen, Indeno (1,2,3.c-d)pyren				Phenanthrene, Anthracen, Fluoranthen, Pyrene, Benzo-b-fluoranthen, Benzo-k-fluoranthen, Benzo-a-pyren, Benzo-g,h,i-perylen, Indeno (1,2,3.c-d)pyren				
<b>accredited</b>	Yes	x	No		Yes	x	No		
<b>sample campaign</b>									
<b>sample bottles</b>	volumina	1 L	material:	brown glass	volumina		material:		
<b>sample volumina</b>	2 x 1 L				2L				
<b>Preparation of the sample bottles</b>	Yes	x	No		Yes		No		
	they are washed with water and afterwards with acetone and baked at 250 °C overnight.				they are washed with water and afterwards with acetone and baked at 150 °C overnight.				
<b>special feature at sample filing</b>	Yes		No		Yes		No		
	the water should only filled to the beginning of the bottle neck to have enough space to add 20 ml of n-hexane				if yes, description:				
<b>filtration (in the field)</b>	Yes		No	x	Yes		No		
	if yes, description:				if yes, description:				
<b>stabilisation of the sample</b>	Yes	x	No		Yes		No		
	20 ml n-hexane are given to the sample				Cooling				
<b>name of the method (e.g. MSZ, DIN,...)</b>	ÖNORM EN ISO 17993				MSZ 1484-6:2003				
<b>sample transport: cooled</b>	Yes	x	No		Yes	x	No		
<b>analysis</b>									
<b>description of the analysis system (e.g. gas chromatography,...)</b>	HPLC with Fluorescence and Diode Array Detection				GC/MSD				
<b>description of the method - most important steps</b>	stabilisation with n-hexane, Liquid-liquid Extraction with n-hexane, solvent exchange to acetonitrile-water, HPLC analysis with Fluorescence detection				Liquid-liquid Extraction with n-hexane, cleaning by SPE, GC/MSD analysis				
<b>LOD</b>	value	1-2,5	dimension	ng/l	value	1	dimension	ng/l	
<b>LOQ</b>	value	2 - 5	dimension	ng/l	value	2	dimension	ng/l	
<b>remarks</b>									



	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	pH							
single parameters								
accredited	Yes	x	No		Yes	x	No	
sample campaign								
sample bottles	volumina		material:		volumina		material:	
sample volumina	On-site measurement							
Preparation of the sample bottles	Yes		No	x	Yes		No	
special feature at sample filing	if yes, description:				if yes, description:			
filtration (in the field)	if yes, description:				if yes, description:			
stabilisation of the sample	if yes, description:				if yes, description:			
name of the method (e.g. MSZ, DIN,....)	ÖNORM M 6244; Method for the determination of pH							
sample transport: cooled	Yes		No		Yes		No	
analysis								
description of the analysis system (e.g. gas chromatography,...)	Multiline 350i, WTW							
description of the method - most important steps	On-site measurement Calibrate the instrument using 2 buffer Measurement							
LOD	value		dimension		value		dimension	
LOQ	value		dimension		value		dimension	
remarks								

methodic fact sheet									
group of parameters					Phthalates				
single parameters					DEHP				
accredited		Yes	x	No	Yes		x	No	
sample campaign									
sample bottles		volumina	1 L	material:	brown glass	volumina	1L	material:	glass
sample volumina		2 x 1 L			300 ml				
Preparation of the sample bottles		Yes	x	No	Yes		x	No	
		if yes, description: Heat overnight at 200°C Rinse with i-Octan Dry at 40°C			Careful washing, rinsing with distilled water, drying (250 C)				
filtration (in the field)		Yes		No	x	Yes		No	x
		if yes, description:							
stabilisation of the sample		Yes		No	x	Yes		No	x
		if yes, description:			if yes, description:				
name of the method (e.g. MSZ, DIN,....)		ONORM EN ISO 18856			MSZ EN ISO 18856-2004				
sample transport: cooled		Yes	x	No	Yes		x	No	
analysis									
description of the analysis system (e.g. gas chromatography,...)		GC-MS			GC-MS				
description of the method - most important steps		Rinse the bottle 2 times with sample. Fill the bottle completely with sample Addition of deuterated Phthalates as Surrogate liquid-liquid extraction with n-hexane clean up on alumina Qualitative and quantitative determination by means of isotope dilution method on a gas-chromatographic / mass-spectrometric system			Water sample+RSD,SPE by C18, elution by athyl acetate, measuring by GC-MS				
LOD		value		dimension		value		dimension	
			100		ng/l		100		ng/l
LOQ		value		dimension		value		dimension	
			200		ng/l		500		ng/l
remarks									

		Austria				Hungary			
<b>methodic fact sheet</b>									
<b>group of parameters</b>		<b>Napthalinsulfonate</b>							
<b>single parameters</b>	2,6-NDSA, 1,5-NDSA, naphtalene 2,7-disulphonate, 1,6-NDSA, naphtalene 1,3,6-trisulphonate, naphtalene 1,3,7-trisulphonate, naphtalene 1,3,5-trisulphonate, 1-NSA, 2-NSA				mono-, di-, trisulphonates				
<b>accredited</b>	Yes	x	No		Yes	x	No		
<b>sample campaign</b>									
<b>sample bottles</b>	volumina	1L	material:	Alu	volumina	1L	material:	water	
<b>sample volumina</b>	1 x 1 L				100 ml				
<b>Preparation of the sample bottles</b>	Yes	x	No		Yes	x	No		
	if yes, description: cleaning with ultrapure water and methanol MeOH, air-drying				Careful washing, rinsing with distilled water, drying (150 C)				
<b>special feature at sample filing</b>	Yes		No	x	Yes	x	No		
	if yes, description:				C18 column				
<b>filtration (in the field)</b>	Yes		No	x	Yes		No	x	
	if yes, description:				if yes, description:				
<b>stabilisation of the sample</b>	Yes		No	x	Yes		No	x	
	if yes, description:				if yes, description:				
<b>name of the method (e.g. MSZ, DIN,...)</b>	SOP 318090-02 Napthalinsulfonate wässrig.doc				individual method				
<b>sample transport: cooled</b>	Yes	x	No		Yes	x	No		
<b>analysis</b>									
<b>description of the analysis system (e.g. gas chromatography,...)</b>	LC-MS/MS				HPLC				
<b>description of the method - most important steps</b>	Addition of tributylamine buffer and deuterated surrogate standard, enrichment of analytes by ion pair solid phase extraction, elution with methanol, evaporation of solvents, solvent exchange to H2O/MeOH (9/1), determination by ion pair liquid chromatography tandem mass spectrometry, Quantitation by external standard method, recovery correction by spiked surrogate standard				pH=6,5; ionpairing agent (tetrabutyl-ammonium-bromide); + RSD (Naphthalene-sulfonicacid); extection by C18 SPE column; eluted with methanol . HPLC column: 5µ Hypersil. Detection by fluorescence detector				
<b>LOD</b>	value		dimension	µg/l	value	0,05	dimension	µg/l	
		1,5-NDSA		0,06					
		1,6-NDSA		0,04					
		2,6-NDSA		0,03					
		1-NSA		0,09					
		2-NSA		0,04					
		1,3,6-NTSA		0,3					
<b>LOQ</b>	value		dimension	µg/l	value	0,1	dimension	µg/l	
		1,5-NDSA		0,12					
		1,6-NDSA		0,08					
		2,6-NDSA		0,06					
		1-NSA		0,18					
		2-NSA		0,08					
		1,3,6-NTSA		0,60					
<b>remarks</b>									



		Austria		
<b>methodic fact sheet</b>				
<b>group of parameters</b>		<b>scum-specific parameters</b>		
<b>single parameters</b>		<b>surface tension</b>		
<b>accredited</b>	Yes		No	x
<b>sample campaign</b>				
<b>sample bottles</b>	volumina	250 mL	material:	PE
<b>sample volumina</b>	50 mL			
<b>Preparation of the sample bottles</b>	Yes	x	No	
	cleaning with deioniced water (milli-Q)			
<b>special feature at sample filing</b>	Yes		No	x
<b>filtration (in the field)</b>	Yes		No	x
<b>stabilisation of the sample</b>	Yes		No	x
<b>name of the method</b> (e.g. MSZ, DIN,...)	ÖNORM EN 14370			
<b>sample transport: cooled</b>	Yes	x	No	
<b>analysis</b>				
<b>description of the analysis system (e.g. gas chromatography,...)</b>	Tensiometer K6, Krüss			
<b>description of the method - most important steps</b>	measurement: with ring-tensiometer verification with deioniced water (milli-Q); time interval before measurement: 15 min, several mesasurements (RSD<1%) after removing of suspended solids			
<b>LOD</b>	value	-	dimension	mN/m
<b>LOQ</b>	value	20	dimension	mN/m
<b>remarks</b>				

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>								
<b>single parameters</b>	<b>suspended matter</b>				<b>suspended solids</b>			
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No	
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	250mL	material:	PE	volumina		material:	glass/plast
<b>sample volumina</b>	250mL				1000			
<b>Preparation of the sample bottles</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
	if yes, description:							
<b>filtration (in the field)</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
	if yes, description:				if yes, description:			
<b>stabilisation of the sample</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
	if yes, description:							
<b>name of the method (e.g. MSZ, DIN,...)</b>	DIN 38409				MSZ 12750-6			
<b>sample transport: cooled</b>	Yes		No		Yes	<input checked="" type="checkbox"/>	No	
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	Tiegelofen Nabertherm, SNr.31517; SartoriusIR-Trockner MA30, SNr.00V3; Tiegelofen Medlin-Naber,SNr.N31R				gravimetria			
<b>description of the method - most important steps</b>	The mass of the suspended matter contained per volume unit in water is determined by weighing them after filtration (membrane filter) and drying (Tigel oven, exsiccator).				100 - 200 ml, (n =3) filtering at 0,45 um (Sartorius membran filter), drying.			
<b>LOD</b>	value		dimension	g/l	value	0,1	dimension	mg/l
<b>LOQ</b>	value		dimension	g/l	value	0,2	dimension	mg/l
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>	<b>Organic Carbon</b>							
<b>single parameters</b>	<b>TOC</b>							
<b>accredited</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No	
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	100	material:	glass	volumina	300	material:	glass
<b>sample volumina</b>	50ml				50			
<b>Preparation of the sample bottles</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No	
	Cleaning with MiliQ and drying				washing			
<b>filtration (in the field)</b>	Yes		No	<input checked="" type="checkbox"/>	Yes		No	<input checked="" type="checkbox"/>
<b>stabilisation of the sample</b>	Yes	<input checked="" type="checkbox"/>	No		Yes		No	<input checked="" type="checkbox"/>
	pH < 2 with HCl				TOC: acidification with HCl (pH<2)			
<b>name of the method (e.g. MSZ, DIN,...)</b>	Önorm EN 1484				MSZ EN 1484			
<b>sample transport: cooled</b>	Yes	<input checked="" type="checkbox"/>	No		Yes	<input checked="" type="checkbox"/>	No	
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	Shimadzu TOC-V CPN				high temp combustion, Pt catalisator, IR detection, instrument : High TOCII Elemantar			
<b>description of the method - most important steps</b>	high temperature cobustion (Pt catalysator), IR detection of CO2				high temp combustion, Pt catalisator, IR detection			
<b>LOD</b>	value	0,5	dimension	mg/l	value	0,25	dimension	mg/l
<b>LOQ</b>	value	1	dimension	mg/l	value	0,5	dimension	mg/l
<b>remarks</b>								

	Austria				Hungary			
<b>methodic fact sheet</b>								
<b>group of parameters</b>	<b>general parameters</b>							
<b>single parameters</b>	<b>total nitrogen</b>							
<b>accredited</b>	Yes	x	No		Yes		No	x
<b>sample campaign</b>								
<b>sample bottles</b>	volumina	100 mL	material:	glass	volumina		material:	glass/plastic
<b>sample volumina</b>	100 mL				100			
<b>Preparation of the sample bottles</b>	Yes	x	No		Yes		No	x
	Cleaning with MilliQ and drying							
<b>filtration (in the field)</b>	Yes		No	x	Yes		No	x
					if yes, description:			
<b>stabilisation of the sample</b>	Yes	x	No		Yes		No	x
	with HCl to pH < 2				acidification with HCl pH< 2			
<b>name of the method</b> (e.g. MSZ, DIN,....)	Onorm EN 12260				MSZ EN 12260			
<b>sample transport: cooled</b>	Yes	x	No		Yes	x	No	
<b>analysis</b>								
<b>description of the analysis system (e.g. gas chromatography,...)</b>	total-nitrogen-analyzer TN05, Abimed				high temp. catalitic combustion, chemiluminescence detection, instrument: EUROGLAS TN3000			
<b>description of the method - most important steps</b>	The nitrogen is catalytically transformed to NOx. NOx reacts with O3 and forms activated NO2 which is detected by chemiluminescence. Calibration: mixed-standard of potassium nitrate and ammonium sulfate; verification with glycine-standards				high temp. catalitic combustion, chemiluminescence detection			
<b>LOD</b>	value	0,1	dimension	N mg/l	value	0,3	dimension	N mg/l
<b>LOQ</b>	value	0,5	dimension	N mg/l	value	0,5	dimension	N mg/l
<b>remarks</b>								



	Austria				Hungary			
<b>methodic fact sheet</b>								
group of parameters	anions							
single parameters	<b>Total Phosphorous</b>							
accredited	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
sample campaign								
sample bottles	volumina	250mL	material:	glass	volumina		material:	glass/plastic
sample volumina	250mL				100			
Preparation of the sample bottles	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description: Rinsing with HCl, rinsing with MiliQ							
filtration (in the field)	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	if yes, description:							
stabilisation of the sample	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	cooling to 2-5 °C				cooling to 2-5 °C			
name of the method (e.g. MSZ, DIN,...)	ÖNORM EN ISO 6878				MSZ 448-18			
sample transport: cooled	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
analysis								
description of the analysis system (e.g. gas chromatography,...)	combustion on presence of potassium peroxodisulfate (1,5 bar, 140°C, 60min) in an autoclave, spectroscopy at 865 nm				photometric method			
description of the method - most important steps	phosphorous componds will convert to o-phosphate with combustion and hydrolisis, then reaction with ammonium heptamolybdate, reduction with ascorbic acid gives blue colored complex, spectroscopy at 865 nm				phosphorous componds will convert to o-phosphate with combustion by potassiumperoxodisulphate, then reaction with molibdenate, reduction with ascorbic acid gives blue color, spectroscopy at 865 nm			
LOD	value	0,002	dimension	P mg/l	value	0,01	dimension	P mg/l
		0,007		PO4 mg/l				
LOQ	value	0,005	dimension	P mg/l	value	0,02	dimension	P mg/l
		0,015		PO4 mg/l				
remarks	close system for digestion				open system for digestion			

		Austria				Hungary			
<b>methodic fact sheet</b>									
group of parameters	Tributylzinnverbindung								
single parameters	Tributyl Tin cation								
accredited	Yes	x	No		Yes	x	No		
sample campaign									
sample bottles	volumina	1l	material:	brown glass	volumina		material:		
sample volumina	2 x 1 l								
Preparation of the sample bottles	Yes	x	No		Yes		No		
	Rinse 2 times with HNO3 2% Rinse 3 times with ultrapure water. Dry at 60°C overnight.								
special feature at sample filing	Yes	X	No		Yes		No		
	Rinse the bottle 2 times with sample. Fill the bottle completely with sample				if yes, description:				
filtration (in the field)	Yes		No	x	Yes		No		
	if yes, description:				if yes, description:				
stabilisation of the sample	Yes		No	x	Yes		No		
	if yes, description:				if yes, description:				
name of the method (e.g. MSZ, DIN,...)	ISO 17353								
sample transport: cooled	Yes	x	No		Yes		No		
analysis									
description of the analysis system (e.g. gas chromatography,...)	GC-MS								
description of the method - most important steps	Addition of internal standards Addition of Sodiumacetate Buffer Derivatisation with Sodiumtetraethylborate Extraction with n-Hexane Silicagel cleanup Qualitative and quantitative determination on a gas-chromatographic / mass-spectrometric system								
LOD	value		dimension		value		dimension		
		0,2		ng/l					
LOQ	value		dimension		value		dimension		
		0,1		ng/l					
remarks									