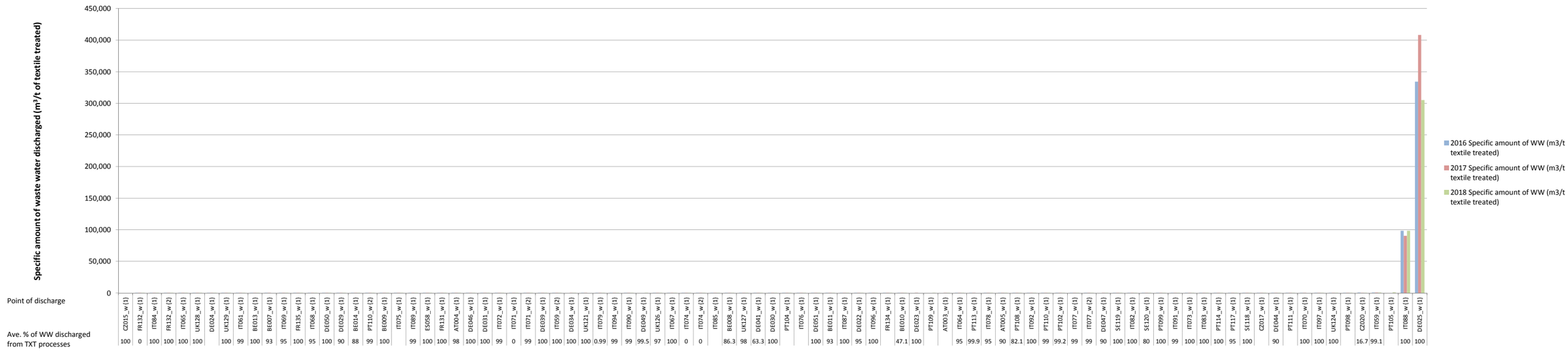
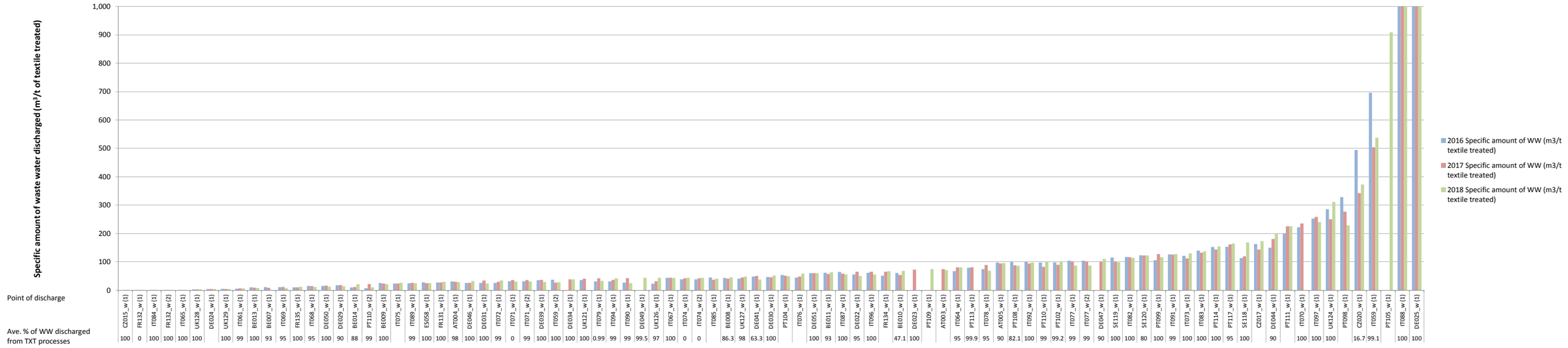
SPECIFIC AMOUNT OF WASTE WATER DISCHARGED (range 0-450,000 m^3/t of textile treated)

Ref. Ares(2021)5421579 - 02/09/2021

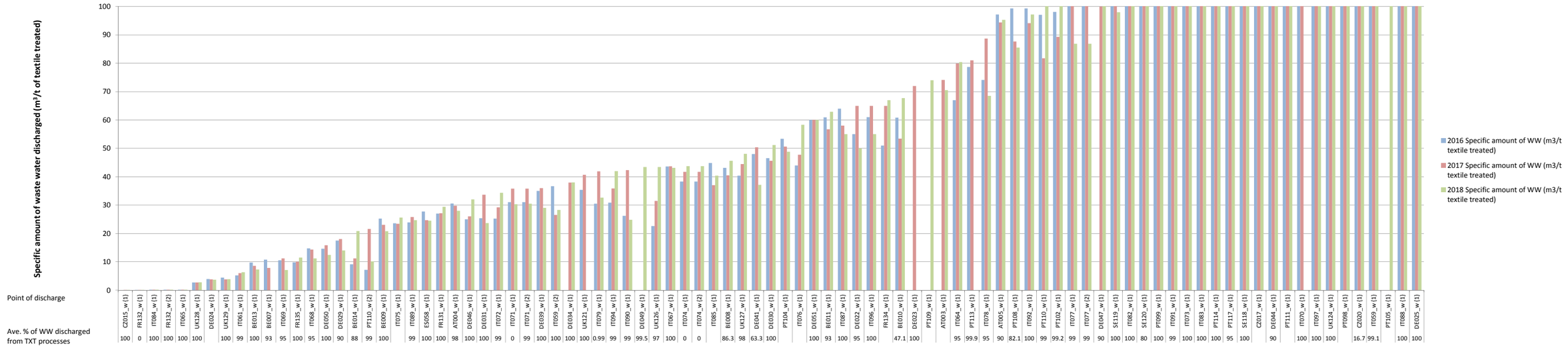


1

SPECIFIC AMOUNT OF WASTE WATER DISCHARGED (zoom 0-1,000 m^3/t of textile treated)



SPECIFIC AMOUNT OF WASTE WATER DISCHARGED (zoom 0-100 m^3/t of textile treated)



SPECIFIC AMOUNT OF WASTE WATER (WW) DISCHARGE: 2016-2018

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	2016 Specific amount of WW (m3/t textile treated)	2017 Specific amount of WW (m3/t textile treated)	2018 Specific amount of WW (m3/t textile treated)	2016 Proportion of WW from textile (%)	2017 Proportion of WW from textile (%)	2018 Proportion of WW from textile (%)	Origin of other non-textile WW streams
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing						97.0	Waste water energy and water production
PT114_w {2}	IND					0	0	0	Water to boilers
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing				100	100	100	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing				100	100	100	
CZ015_w {1}	IND	Dyeing - Functional finishing		0.01	0.01		100	100	all cooling water is in the second step used in textile finishing processes
FR132_w {1}	DIR		0.05	0.05	0.05	0	0		
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment (e.g drying, thermofixation, curing)	0.11	0.13	0.13	100	100	100	
FR132_w {2}	DIR	Bleaching - Dyeing	0.14	0.14	0.14	100	100	100	
IT065_w {1}	IND		0.12	0.12	0.14	100	100	100	
UK128_w {1}	IND	Raw wool scouring	2.70	2.68	2.79	100	100	100	
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	3.90	3.80	3.70				
UK129_w {1}	IND	Raw wool scouring	4.43	3.83	3.88	100	100	100	n/a
IT061_w {1}	IND	Scouring - Wool Carbonising	5.20	6.00	6.30	99.0	99.0	99.0	igienic waste water
BE013_w {1}	IND	Mercerising	9.71	8.59	7.30	100	100	100	distillation process for ammonia recovery
BE007_w {1}	DIR	Dyeing	10.73	7.83		93.6	92.3		sanitary waste water - figures based on pile weight
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	10.50	11.20	7.10	95.0	95.0	95.0	Steam generator, primary water treatment equipment (e.g. softeners); data referring to the year 2015
FR135_w {1}	IND	Washing synthetic fibre	9.79	10.04	11.48	100	100	100	
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	14.70	14.30	11.20	95.0	95.0	95.0	Steam generator, primary water treatment equipment (e.g. softeners)
DE050_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	14.60	15.80	12.40	100	100	100	
DE029_w {1}	IND	Dyeing	17.50	18.00	14.00	90.0	90.0	90.0	Water/Steam preparation
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	9.10	11.18	20.86	88.0	88.0	88.0	12% evaporation
PT110_w {2}	IND	Dyeing	7.16	21.59	10.14	99.0	99.0	99.0	Bathrooms
BE009_w {1}	DIR	Printing - Coating (also back-coating) and laminating	25.23	23.05	20.78	100	100	100	Printing responsible for 93% of waste water generated, specific water usage related to weight of printed pile weight
IT075_w {1}	IND	Raw wool scouring	23.61	23.38	25.57				specific consuption refered to kg of Tops/Sliver produced
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment (e.g drying, thermofixation, curing) - Other - Bleaching	23.90	25.80	24.70	99.0	99.0	99.0	toilet waste water;toilet waste water;toilet waste water; data related to 2015
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment (e.g drying, thermofixation, curing)	27.75	24.70	24.48	100	100	100	
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating (also back-coating) and laminating - Thermal treatment (e.g drying, thermofixation, curing)	27.00	27.10	29.40	100	100	100	
AT004_w {1}	IND	Washing synthetic fibre	30.55	29.73	27.96	98.0	98.0	98.0	2;2;2
DE046_w {1}	IND	Washing synthetic fibre - Dyeing	25.00	26.00	32.00	100	100	100	
DE031_w {1}	IND	Dyeing	25.33	33.68	23.62	100	100	100	
IT072_w {1}	IND	Thermal treatment (e.g drying, thermofixation, curing) - Scouring - Bleaching - Dyeing - Other	25.20	29.20	34.30	99.0	99.0	99.0	igienic waste water
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	31.00	35.80	30.30	0	0	0	
IT071_w {2}	IND	Dyeing - Other - Functional finishing	31.00	35.80	30.50	99.0	99.0	99.0	igienic waste water

SPECIFIC AMOUNT OF WASTE WATER (WW) DISCHARGE: 2016-2018

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	2016 Specific amount of WW (m3/t textile treated)	2017 Specific amount of WW (m3/t textile treated)	2018 Specific amount of WW (m3/t textile treated)	2016 Proportion of WW from textile (%)	2017 Proportion of WW from textile (%)	2018 Proportion of WW from textile (%)	Origin of other non-textile WW streams
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	35.00	36.00	29.00	100	100	100	
IT059_w {2}	IND	Thermal treatment (e.g drying, thermofixation, curing) - Functional finishing	36.62	26.52	28.28	100	100	100	
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing		37.90	38.00	100	100	100	
UK121_w {1}	IND	Dyeing	35.38	40.69		100	100		
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment (e.g drying, thermofixation, curing) - Other	30.50	41.90	32.60	0.99	0.99	0.99	toilete waste water
IT094_w {1}	IND		30.82	35.88	41.93	99.0	99.0	99.0	civil wastewater
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment (e.g drying, thermofixation, curing) - Other - Bleaching	26.20	42.30	24.80	99.0	99.0	99.0	toilet waste water;toilet waste water;toilet waste water; data related to 2015
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating (also back-coating) and laminating - Scouring - Functional finishing			43.40	99.5	99.5	99.5	boiler wastewater
UK126_w {1}	IND	Dyeing	22.63	31.45	43.45	97.0	97.0	97.0	Compound external unloading area run off
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	43.62	43.69	43.10	100	100	100	specific consuption refered to total material processed (kg on shrink-proof treatment + kg dyed)
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	38.30	41.70	43.70	0	0	0	Steam generator, primary water treatment equipment (e.g. softeners) (YEAR 2015)
IT074_w {2}	IND	Washing synthetic fibre - Scouring	38.30	41.70	43.70	0	0	0	Steam generator, primary water treatment equipment (e.g. softeners) (YEAR 2015)
IT085_w {1}	IND	Dyeing	44.80	37.01	40.38				specific consuption refered to dyed tops produced;specific consuption refered to dyed tops produced;specific consuption refered to dyed tops produced
BE008_w {1}	IND	Printing - Dyeing	43.10	40.48	45.61	85.0	87.0	87.0	Water treatment (+/-15 %) (de-ironising and de-ionising) and domestic waste water (+/- 5 %)
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	40.36	44.46	48.05	98.0	98.0	98.0	surface water
DE041_w {1}	IND	Desizing - Bleaching - Dyeing	48.00	50.35	37.11	70.0	70.0	50.0	
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment (e.g drying, thermofixation, curing)	46.51	45.60	51.18	100	100	100	
PT104_w {1}	IND	Dyeing - Bleaching	53.40	50.60	48.80				
IT076_w {1}	IND	Raw wool scouring	43.96	47.73	58.32				specific consuption refered to kg of Tops produced
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	60.00	60.00	60.00	100	100	100	
BE011_w {1}	DIR	Dyeing	60.94	56.72	62.87	93.0	93.0	93.0	7% sanitary origin, soil remediation
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	64.00	58.00	55.00	100	100	100	specific consumption refered to dyed yarn production;specific consumption refered to dyed yarn production;specific consumption refered to dyed yarn production
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment (e.g drying, thermofixation, curing) - Functional finishing - Coating (also back-coating) and laminating	55.00	65.00	50.00	95.0	95.0	95.0	generation steam freshwater preparation

SPECIFIC AMOUNT OF WASTE WATER (WW) DISCHARGE: 2016-2018

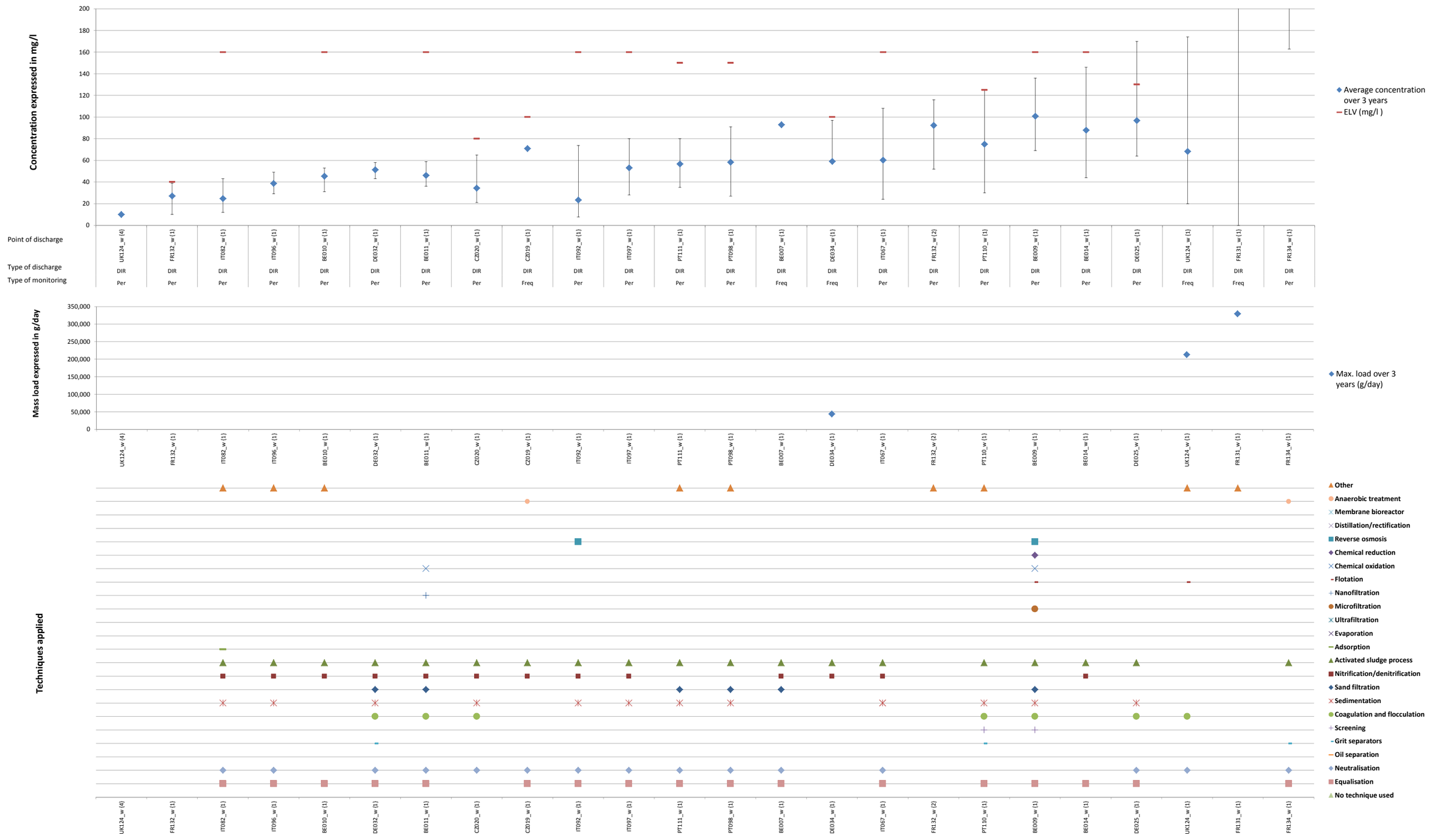
EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	2016 Specific amount of WW (m3/t textile treated)	2017 Specific amount of WW (m3/t textile treated)	2018 Specific amount of WW (m3/t textile treated)	2016 Proportion of WW from textile (%)	2017 Proportion of WW from textile (%)	2018 Proportion of WW from textile (%)	Origin of other non-textile WW streams
IT096_w {1}	DIR	Dyeing - Other	61.00	65.00	55.00	100	100	100	specific consumption refered to dyed yarn production
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	51.00	65.00	67.00				
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	60.83	53.41	67.71	54.3	49.9	37.0	cleaning of sand filtration, cooling compressors, air conditioning fabric production
DE023_w {1}	IND	Washing synthetic fibre - Mercerising - Bleaching - Dyeing		72.00			100		
PT109_w {1}	IND				74.00				
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching		74.10	70.50				
IT064_w {1}	IND	Scouring	67.00	79.90	80.40	95.0	95.0	95.0	Steam generator, primary water treatment equipment (e.g. softeners)
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	78.68	81.03		99.9	99.9		laboratory, toilets
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	74.10	88.70	68.50	95.0	95.0	95.0	Steam generator, primary water treatment equipment (e.g. softeners)
AT005_w {1}	IND		97.20	94.40	95.30	90.6	90.7	88.6	rest rooms, steaming machine
PT108_w {1}	IND	Fabric production - Fabric production	99.34	87.71	85.53	86.9	80.5	78.8	13,1;19,5;21,2
IT092_w {1}	DIR	Dyeing - Other	99.37	94.18	97.20	100	100	100	specific consumption refered to dyed yarn production
PT110_w {1}	DIR	Dyeing	97.06	81.73	101.14	99.0	99.0	99.0	Bathrooms
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	98.10	89.30	101.60	99.1	99.5	98.9	Domestic and rainwater
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment (e.g drying, thermofixation, curing)	103.70	101.40	86.90	99.0	99.0	99.0	igienic service waste water
IT077_w {2}	IND	Dyeing	103.70	101.40	86.90	99.0	99.0	99.0	igienic service waste water
DE047_w {1}	IND	Desizing - Mercerising - Bleaching - Dyeing - Functional finishing		100.00	110.00		90.0	90.0	Rain
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	115.00	101.00	98.00	100	100	100	
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment (e.g drying, thermofixation, curing) - Wool Fulling	117.00	116.00	114.00	100	100	100	specific consuption refered to woven textile production
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	123.00	122.50	122.00	80.0	80.0	80.0	
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	106.00	127.00	116.00	100	100	100	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment (e.g drying, thermofixation, curing) - Other	125.80	125.60	127.10	99.0	99.0	99.0	year 2015
IT073_w {1}	IND	Dyeing - Functional finishing	121.20	111.70	129.60	100	100	100	
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	139.16	131.73	136.88	100	100	100	
PT114_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Desizing - Scouring - Bleaching - - Thermal treatment (e.g drying, thermofixation, curing) - Dry cleaning	152.42	143.32	154.04	100	100	100	
PT117_w {1}	IND	Dyeing - Dyeing - Bleaching - Functional finishing	152.73	161.45	164.28	95.0	95.0	95.0	domestic water
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating (also back-coating) and laminating - Thermal treatment (e.g drying, thermofixation, curing)	113.00	119.00	168.00	100	100	100	

SPECIFIC AMOUNT OF WASTE WATER (WW) DISCHARGE: 2016-2018

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	2016 Specific amount of WW (m3/t textile treated)	2017 Specific amount of WW (m3/t textile treated)	2018 Specific amount of WW (m3/t textile treated)	2016 Proportion of WW from textile (%)	2017 Proportion of WW from textile (%)	2018 Proportion of WW from textile (%)	Origin of other non-textile WW streams
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment (e.g drying, thermofixation, curing) - Other	162.35	143.27	172.76				
DE044_w {1}	IND	Desizing - Mercerising - Bleaching - Dyeing	150.00	180.00	200.00	90.0	90.0	90.0	pretreatment fresh water
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment (e.g drying, thermofixation, curing)	199.58	224.63	225.30				Domstic waste - Bathrooms
IT070_w {1}	IND		222.00	235.00		100	100		
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	252.06	258.60	240.00	100	100	100	specific consuption refered to dyed yarn production
UK124_w {1}	DIR		285.39	249.91	310.78	100	100	100	
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment (e.g drying, thermofixation, curing)	328.24	276.83	228.59				WC+Canteen;WC;WC
CZ020_w {1}	DIR	Dyeing	494.20	342.10	372.60	17.0	14.0	19.0	City communal waste water from buildings (Wc´s , bathrooms), ballast water
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	695.84	503.95	537.46	99.1	99.0	99.1	Civil waste water
PT105_w {1}	IND	Dyeing - Bleaching			909.23				The installation only started operating in 2017. The annual value of specific amount of waste water is determined by dividing the monthly values of waste water discharged with the monthly values of production.
IT088_w {1}	IND	Dyeing - Bleaching	98,526.00	90,456.00	98,429.00	100	100	100	none
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	334,292.00	408,376.00	305,225.00	100	100	100	

COD - Emissions to water

COD - Emissions to water (zoom 0-200 mg/l)



COD - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
UK124_w {4}	DIR	No information	mg/l	10	10.00	10			No information	No information	Yearly	COD Acid Dichromate Oxidised; determined by spectrometry	All values reported as <10 - All values reported as <10 - All values reported as <10
FR132_w {1}	DIR	No information	mg/l	10	27.03	39		40	No information	Grab/spot sample	No information	No information	
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	12	24.72	43		160	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	4 times per year	ISO 15705:2002, ISO 15705:2002, IRSA QUAD.11/79	
IT096_w {1}	DIR	Dyeing - Other	mg/l	29	38.67	49		500	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	ISO 15705:2002	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	31	45.40	53		160	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Yearly	WAC/III/D/020	
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	24	37.58	54		160	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	ISPRA Man 117 2014	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	43	51.33	58			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
BE011_w {1}	DIR	Dyeing	mg/l	36	46.07	59		160	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/D/020	
CZ020_w {1}	DIR	Dyeing	mg/l	21	34.36	65		80	Sedimentation, Nitrification/denitrification, Neutralisation, Coagulation and flocculation, Activated sludge process	No information	Monthly	specified in extern laboratory	
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing	mg/l		71.00			100	Equalisation, Neutralisation, Anaerobic treatment, Nitrification/denitrification, Activated sludge process	No information	Monthly	No information	
IT092_w {1}	DIR	Dyeing - Other	mg/l	7.6	23.35	73.8		160	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	ISO 15705:2002	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	28	53.10	80		160	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 5130 Man 29 2003, IRSA Quad.11/79, IRSA Quad.11/79; ISO 15705:2002	Monitoring frequency: once every 4 monthsValue refered to sampling period - Monitoring frequency: once every 4 monthsValue refered to sampling period - Monitoring frequency: once every 4 monthsValue refered to sampling period
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	35	56.67	80		150	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	4 times per year	SMEWW 5220 D	
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	27	58.33	91		150	Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Twice per year	PNT MA/FQ2-03(2013-04-08), PNT MA/FQ2-03(2013-04-08)-MESU.1 and PNT-MA/FQ2-08(2016-07-27) - MESU.2, PNT MA/FQ2-08(2016-07-27)	Averaging period for ELVs: Twice per year - Uncertainty: Method PNT MA/FQ2-03(2013-04-08) 11%; PNT-MA/FQ2-08(2016-07-27) 12% ; Averaging period for ELVs: Twice per year - Averaging period for ELVs: Twice per year
BE007_w {1}	DIR	Dyeing	mg/l		92.94				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/D/020	
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l		59.00	97	44426	100	Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	under mesurement 1,.. you find the measured values from the authority surveillance
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	24	60.18	108		160	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 5130 Man 29 2003, APAT CNR IRSA 5130 Man 29 2003, APAT CNR IRSA 5130 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
FR132_w {2}	DIR	Bleaching - Dyeing	mg/l	52	92.28	116		1000	Other	Grab/spot sample	No information	No information	
PT110_w {1}	DIR	Dyeing	mg/l	30	74.97	125		125	Equalisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation, Activated sludge process, Other	No information	Monthly	No information	125 in the normal period and 100 in the dry season - 125 in the normal period and 100 in the dry season - 125 in the normal period and 100 in the dry season
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	69	100.75	136		160	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/D/020	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
PT114_w {2}	IND	No information	mg/l	19	85.67	140		2000	No information	No information	Yearly	No information	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	44	87.93	146		160	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/D/020	
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	64	96.76	170		130	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	No information	
UK124_w {1}	DIR	No information	mg/l	20	68.20	174	213324		Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Weekly	SX I COD - acid dichromate oxidised; determined by spectrometry	
IT076_w {1}	IND	Raw wool scouring	mg/l	107.51	96.89	190		1000	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Weekly	ISO 15705:2002; IRSA Quad.11/79	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT077_w {2}	IND	Dyeing	No unit reported	88	179.33	303		3000	No information	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT075_w {1}	IND	Raw wool scouring	mg/l	97	160.16	399		500	Equalisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	149	352.50	572		3000	Other	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	201	414.67	672		3000	Other	Not applicable	Twice per year	ISO 15705:2002	
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	256	441.00	678			Flotation	No information	Other	ÖNORM M 6265:1991	self-monitoring: twice a week (Foto-meter) - self-monitoring: twice a week (Foto-meter) - self-monitoring: twice a week (Foto-meter)
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	403	552.33	697		1000	Screening, Oil separation, Other	No information	4 times per year	Internal method Laboratory PAQ12 08-01-2018/ Espec Abs Molecular, Internal method Laboratory PAQ12 08-01-2018/ Espec Abs Molecular, Internal method Laboratory PAQ12 08-01-2018/ Espec Abs Molecular	
PT117_w {1}	IND	Dyeing - Dyeing - Bleaching - Functional finishing	mg/l	213	539.75	736		1000	Neutralisation	24-hour flow proportional composite sample	Monthly	ISO	
IT064_w {1}	IND	Scouring	mg/l	485	631.33	752		3000	Other	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	305	495.67	755		3000	Other	Other	Twice per year	ISO 15705:2002	
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	360	583.00	759		655	Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	- Value refered to sampling period - Value refered to sampling period

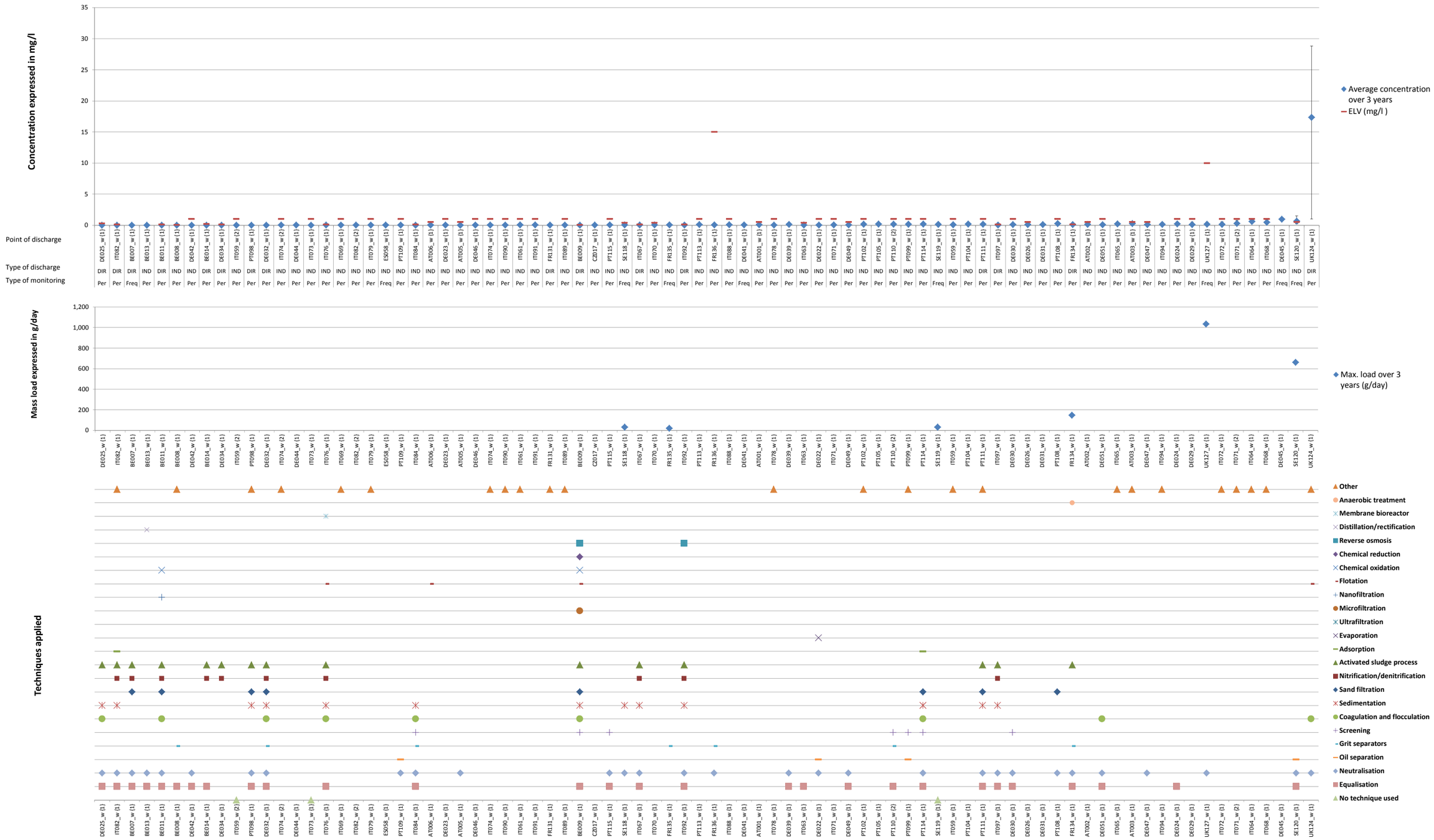
COD - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	284	550.83	768		3000	No information	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0	237.00	776	329800		Other	24-hour flow proportional composite sample	Daily	NFT 90 101	unit: mg(O2)/L - unit: mg(O2)/L - unit: mg(O2)/L
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	574	651.50	779		3000	No technique used	Other	Twice per year	ISO 15705:2002	
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	17	547.33	824			No information	No information	Other	ISO 15705:2002	
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	400	642.67	824		2500	Other	Not applicable	Twice per year	ISPRA Man 117 2014	
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	163	263.92	837		250	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	ISO 15705	
PT115_w {1}	IND	No information	mg/l	104	430.17	880		2000	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	SMEWW 5220 D	SIDVA - SIDVA - SIDVA
BE013_w {1}	IND	Mercerising	mg/l	185	526.00	918			Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	MEIN020	sample 22.10.2015-23.10.2015
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	306	476.44	947		1000	Equalisation	Other	4 times per year	No information	Authorized in derogation - Authorized in derogation - Authorized in derogation
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	326	579.33	953		3000	Other	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	160	484.17	980		2000	Other	24-hour flow proportional composite sample	4 times per year	SMEWW 5220 D, 21ª ed, IT-DLQ-86/V02, IT-DLQ-86/V02	
PT114_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Desizing - Scouring - Bleaching - - Thermal treatment - Dry cleaning	mg/l	590	709.17	1000		2000	Equalisation, Neutralisation, Screening, Coagulation and flocculation, Sedimentation, Sand filtration, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.)	No information	4 times per year	No information	
PT110_w {2}	IND	Dyeing	mg/l	85	728.08	1059		2000	Equalisation, Grit separators, Screening	No information	4 times per year	No information	
IT094_w {1}	IND	No information	mg/l	372	656.33	1077			Other	No information	Twice per year	APAT IRSA 5130 Volume 2:2003	
AT004_w {1}	IND	Washing synthetic fibre	mg/l	617	892.00	1090			No information	No information	Daily	ÖNORM M 6265 (MH)	
BE008_w {1}	IND	Printing - Dyeing	mg/l	550	853.85	1100			Equalisation, Grit separators, Other	24-hour flow proportional composite sample	Yearly	WAC/III/D/020	Self control and Taxation discharche water - Self control and Taxation discharche water - Self control and Taxation discharche water
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	650	887.67	1126		3000	Other	Other	No information	ISO 15705:2002	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	525	798.33	1140		3000	Other	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT070_w {1}	IND	No information	mg/l	156	501.50	1150		3000	No information	Not applicable	Twice per year	ISO 15705-2002	
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	No unit reported	155	686.00	1236		3000	No information	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
FR135_w {1}	IND	Washing synthetic fibre	mg/l	1111.25	1219.00	1329	256497	1500	Grit separators	24-hour flow proportional composite sample	Monthly	No information	
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	454	815.75	1340			No information	No information	4 times per year	No information	The installation only started operating in 2017.The value of uncertainty is not refered in the reports.
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	910	1155.00	1400			Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	553	851.33	1470		3000	No information	Other	No information	ISO 15705:2002	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	1026	1231.33	1514		3000	Other	24-hour flow proportional composite sample	Twice per year	ISO 15705:2002	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	617	1005.08	1541		2000	No information	Other	4 times per year	No information	
IT065_w {1}	IND	No information	mg/l	400	942.38	1560			Other	No information	Twice per year	ARPAT CNR IRSA 5130 Man 29 2003	Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	135	853.33	1600		3000	No information	No information	Monthly	No information	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	406	1127.17	1675			Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	810	1280.17	1700		3000	Other	24-hour flow proportional composite sample	Twice per year	ISO 15705:2002	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT085_w {1}	IND	Dyeing	mg/l	1400	1560.00	1700			Equalisation	Not applicable	Other	ISO 15705:2002	Monitoring end frequency dependent on the operator of the off-site treatment plant
AT001_w {1}	IND	No information	mg/l	570	1074.62	1800			No information	24-hour flow proportional composite sample	Weekly	DIN 38409 41	
AT002_w {1}	IND	No information	mg/l	290	958.29	1800			No information	No information	Monthly	DIN 38409-41	
CZ018_w {1}	IND	Desizing - Functional finishing - Dyeing - Fabric production	mg/l	850	1165.83	1910		1600	Neutralisation	24-hour flow proportional composite sample	Other	No information	monitoring 6 per year - monitoring 6 per year - monitoring 6 per year
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	771	1252.00	1916		3000	Other	24-hour flow proportional composite sample	Twice per year	ISO 15705:2002	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	388	1099.17	1935		3000	No information	Not applicable	Twice per year	iso 15705, iso 15705, iso 15705	Yearly - Yearly - Yearly
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	148	620.00	2090		3000	No technique used	Not applicable	Twice per year	ISO 15705:2002	
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	515	1426.17	2150		3000	Other	Other	No information	ISO 15705:2002	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
PT104_w {1}	IND	Dyeing - Bleaching	mg/l	400	1065.83	2190			No information	24-hour flow proportional composite sample	4 times per year	compound sampling	
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		2200.00				No information	24-hour flow proportional composite sample	Monthly	No information	
PT109_w {1}	IND	No information	mg/l	1660	2040.00	2260		2000	Oil separation, Neutralisation	No information	4 times per year	No information	
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	1000	1705.00	2410			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
AT005_w {1}	IND	No information	mg/l	640	1454.17	2600			Neutralisation	No information	Monthly	DIN 38409-41	
IT061_w {1}	IND	Scouring - Wool Carbonising	mg/l	366	1259.83	2680		3000	Other	Other	Twice per year	ISO 15705:2002	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	2150	2436.28	2762		4000	Grit separators, Neutralisation	No information	No information	No information	
PT108_w {1}	IND	Fabric production - Fabric production	mg/l	650	1479.94	2770		2000	Neutralisation, Sand filtration, Sand filtration	24-hour flow proportional composite sample	Monthly	potassium dichromate method	monthly - monthly - monthly
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	893	2212.17	2805		3000	Other	Other	Twice per year	ISO 15705:2002	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
DE031_w {1}	IND	Dyeing	mg/l	388	1387.03	3020			No information	No information	Other	DIN 38409	23 times/year, almost twice/month - 23 times/year, almost twice/month - 24 times/year, twice/month

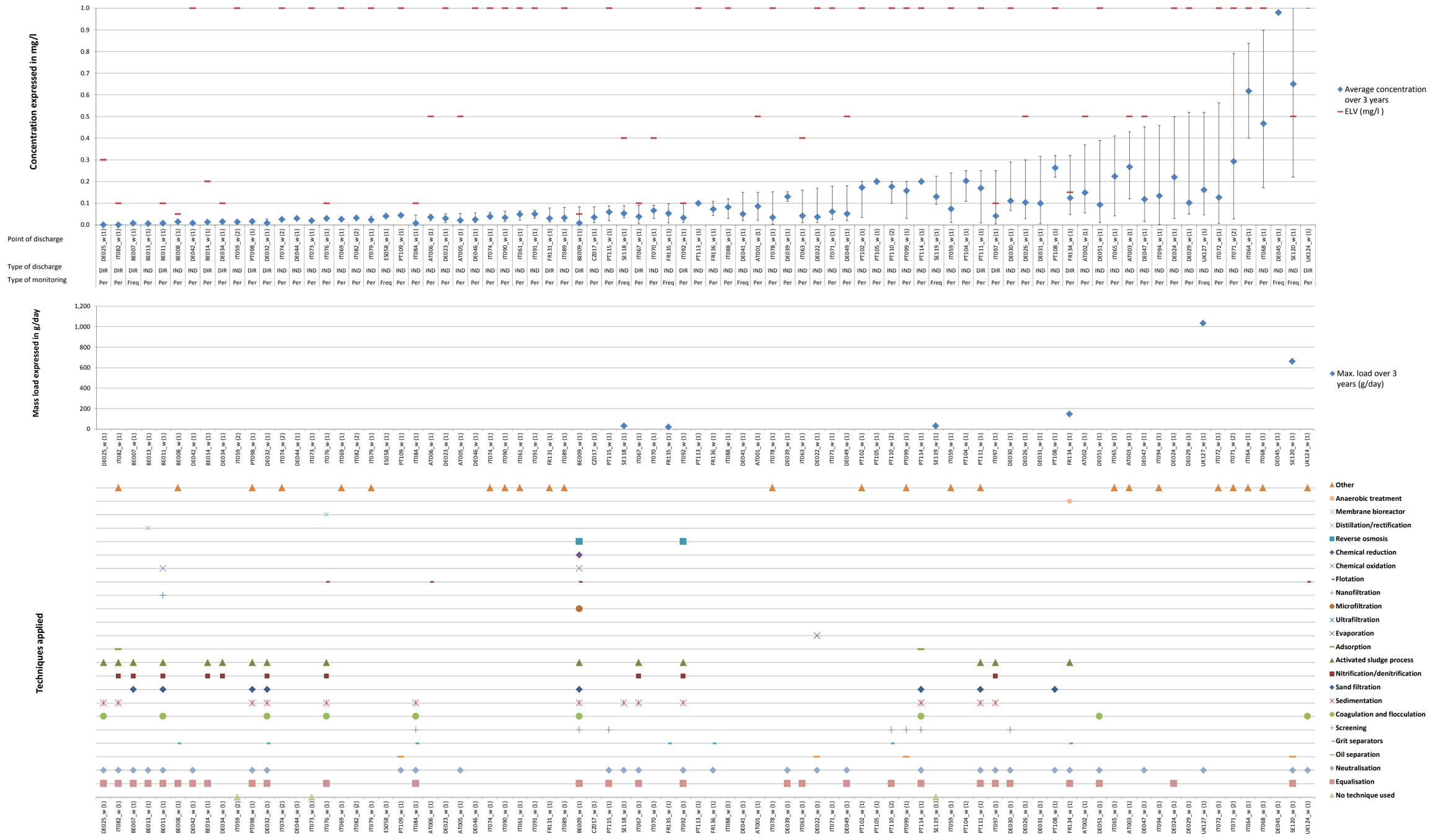
COD - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
UK126_w {1}	IND	Dyeing	mg/l	115	1083.60	3320	414266		No information	Flow proportional composite sample	Other	No information	Unities Utilities take random samples from the collection unit. It could be once, twice or even three times a month. Unities Utilities take random samples from the collection unit. It could be once, twice or even three times a month. Unities Utilities take random samples from the collection unit. It could be once, twice or even three times a month.
CZ015_w {1}	IND	Dyeing - Functional finishing	mg/l	1674	2586.75	3465			Grit separators, Equalisation, Sedimentation	Flow proportional composite sample	4 times per year	No information	
UK121_w {1}	IND	Dyeing	mg/l	1375	2421.00	4100	975800	4000	Equalisation	24-hour flow proportional composite sample	Monthly	1hr settled. Digestion ISO 6060	
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	2400	3025.00	4200			Other	Other	4 times per year	DIN 38409-41	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	1300	2322.00	4800	1718400	3000	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Riktvärde: 3000 mg/l Three months averageLimit: 2400 kg/day
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	483	3294.00	6330	13129179.6	7000	Neutralisation	24-hour flow proportional composite sample	Weekly	No information	7000mg/l in any 24 hour period. Daily max load 10000kg
DE041_w {1}	IND	Desizing - Bleaching - Dyeing	mg/l	452	3400.00	10400			No information	No information	Monthly	No information	
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	3328	8284.08	12360			Equalisation	Grab/spot sample	4 times per year	No information	- if COD > 2000, than COD/BOD5 < 4/1 -
UK129_w {1}	IND	Raw wool scouring	mg/l	6790	10766.00	17200	6037200	45000	Grit separators, Screening, Oil separation, Coagulation and flocculation, Ultrafiltration, Flotation	24-hour flow proportional composite sample	Daily	No information	All COD values are Settled COD values and are measured in the effluent after the on-site effluent treatment plant and before the effluent is discharged to public sewer. COD ELV = 45,000mg/litre - Removal efficiencies are based on nominal COD of effluent before on-site treatment generally in the region of 140,000 to 150,000mg/litre. Further treatment in the public sewage works once treated effluent is discharged from site should result in removal e -
CZ016_w {1}	IND	Shrink-proof finishing	mg/l	6440	13415.00	27400			No information	Flow proportional composite sample	Monthly	No information	
UK128_w {1}	IND	Raw wool scouring	mg/l	9530	17957.00	29200	8826600	55000	Coagulation and flocculation	24-hour flow proportional composite sample	No information	No information	Results taken from Local sewerage undertakers routine testing as part of compliance permit -results are settled COD - % average removal efficiency for COD & TSS is calculated using an average input to effluent plant of 80000ppm COD and 30000ppm TSS. Remov - Results taken from Local sewerage undertakers routine testing as part of compliance permit -results are settled COD - % average removal efficiency for COD & TSS is calculated using an average input to effluent plant of 80000ppm COD and 30000ppm TSS. Remov - Results taken from Local sewerage undertakers routine testing as part of compliance permit -results are settled COD - % average removal efficiency for COD & TSS is calculated using an average input to effluent plant of 80000ppm COD and 30000ppm TSS. Remov

COPPER - Emissions to water



COPPER - Emissions to water (zoom 0-1 mg/l)



COPPER - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0	0		0.3	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 11885 (E22)	
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0	0	0		0.1	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	Yearly	IRSA 3010 + 3020*	
BE007_w {1}	DIR	Dyeing	mg/l		0.01				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
BE013_w {1}	IND	Mercerising	mg/l	0.005	0.01	0.008			Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	MEIN043TAX, MEIN043TAX, MEIN062TAX	sample 23.10.2015, <0,005 mg/l - 0,008 mg/l -
BE011_w {1}	DIR	Dyeing	mg/l	0.005	0.01	0.011		0.1	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	5 measurements < DL (0,015 mg/l)
BE008_w {1}	IND	Printing - Dyeing	mg/l	0.013	0.01	0.015		0.05	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	Self Control and taxation waste water - Self Control and taxation waste water - Self Control and taxation waste water
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	0.0049	0.01	0.016		1	Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	0.01	0.01	0.016		0.2	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	4 mesurements < DL (0,025 mg/l) - 3 measurements < DL 0,025 mg/l - 3 measuremenst < DL (0,025 mg/l)
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l	0.005	0.02	0.021		0.1	Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	Yearly	No information	
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.00386	0.01	0.0226		1	No technique used	Not applicable	Twice per year	EPA 6020 B 2014	
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	0.0075	0.02	0.027			Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Yearly	DIN EN ISO 11885 (E22), DIN EN ISO 17294-2(E29), DIN EN ISO 11885 (E22)	MESU. 1 - 0,012 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l - MESU. 1 - 0,027 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l - MESU. 1 - 0,0075 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	0.003	0.01	0.028			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	0.02	0.03	0.029		1	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
DE044_w {1}	IND	Desizing - Mercerising - Bleaching - Dyeing	mg/l	0.03	0.03	0.03			No information	24-hour flow proportional composite sample	Twice per year	No information	
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	0.01	0.02	0.03		1	No technique used	Other	Twice per year	UNI EN ISO 11885:2009	
IT076_w {1}	IND	Raw wool scouring	mg/l	0.03	0.03	0.03		0.1	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	0.023	0.03	0.031		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0.025	0.03	0.038			No information	No information	Other	APAT IRSA -CNR 3010/A + 3020Man 29 2003	
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	0.01	0.02	0.04		1	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0.04				No information	No information	Yearly	No information	
PT109_w {1}	IND	No information	mg/l	0.0444	0.04	0.0444		1	Oil separation, Neutralisation	No information	Yearly	No information	
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.001	0.01	0.045		0.1	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	EPA 6020 B 2014	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	0.019	0.04	0.048		0.5	Flotation	No information	Yearly	EN ISO 11885	
DE023_w {1}	IND	Washing synthetic fibre - Mercerising - Bleaching - Dyeing	mg/l	0.01	0.03	0.05		1	No information	No information	No information	No information	
AT005_w {1}	IND	No information	mg/l	0.01	0.02	0.053		0.5	Neutralisation	No information	Monthly	DIN EN ISO 11885DIN EN ISO 11885	
DE046_w {1}	IND	Washing synthetic fibre - Dyeing	mg/l	0.01	0.02	0.055		1	No information	No information	No information	No information	- qualified sample -
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	0.028	0.04	0.057		1	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.016	0.03	0.062		1	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT061_w {1}	IND	Scouring - Wool Carbonising	mg/l	0.021	0.05	0.065		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - Averaging period for ELV: 3 hours; YEAR 2015
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	0.03	0.05	0.067		1	No information	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0.012	0.03	0.078			Other	24-hour flow proportional composite sample	Monthly	NF EN ISO 11885	
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.016	0.03	0.081		1	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0	0.01	0.083		0.05	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/BWAC/III/B	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	0.01	0.04	0.084			No information	No information	Yearly	No information	
PT115_w {1}	IND	No information	mg/l	0.02	0.06	0.0872		1	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	SMEWW 3030 K/SMEWW 3111 B, SMEWW 3030 K/SMEWW 3111 B, W- METAXDG1	< LQ; LD= 0,02SIDVA - < LQ; LD= 0,07SIDVA - SIDVA
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	0.032	0.05	0.0875	31.4125	0.4	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Monthly	No information	Three months average
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.005	0.04	0.09		0.1	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
IT070_w {1}	IND	No information	mg/l	0.03	0.07	0.09		0.4	No information	Not applicable	Twice per year	EPA 6010 C 2007	
FR135_w {1}	IND	Washing synthetic fibre	mg/l	0.009	0.05	0.098	20.384		Grit separators	24-hour flow proportional composite sample	Monthly	No information	

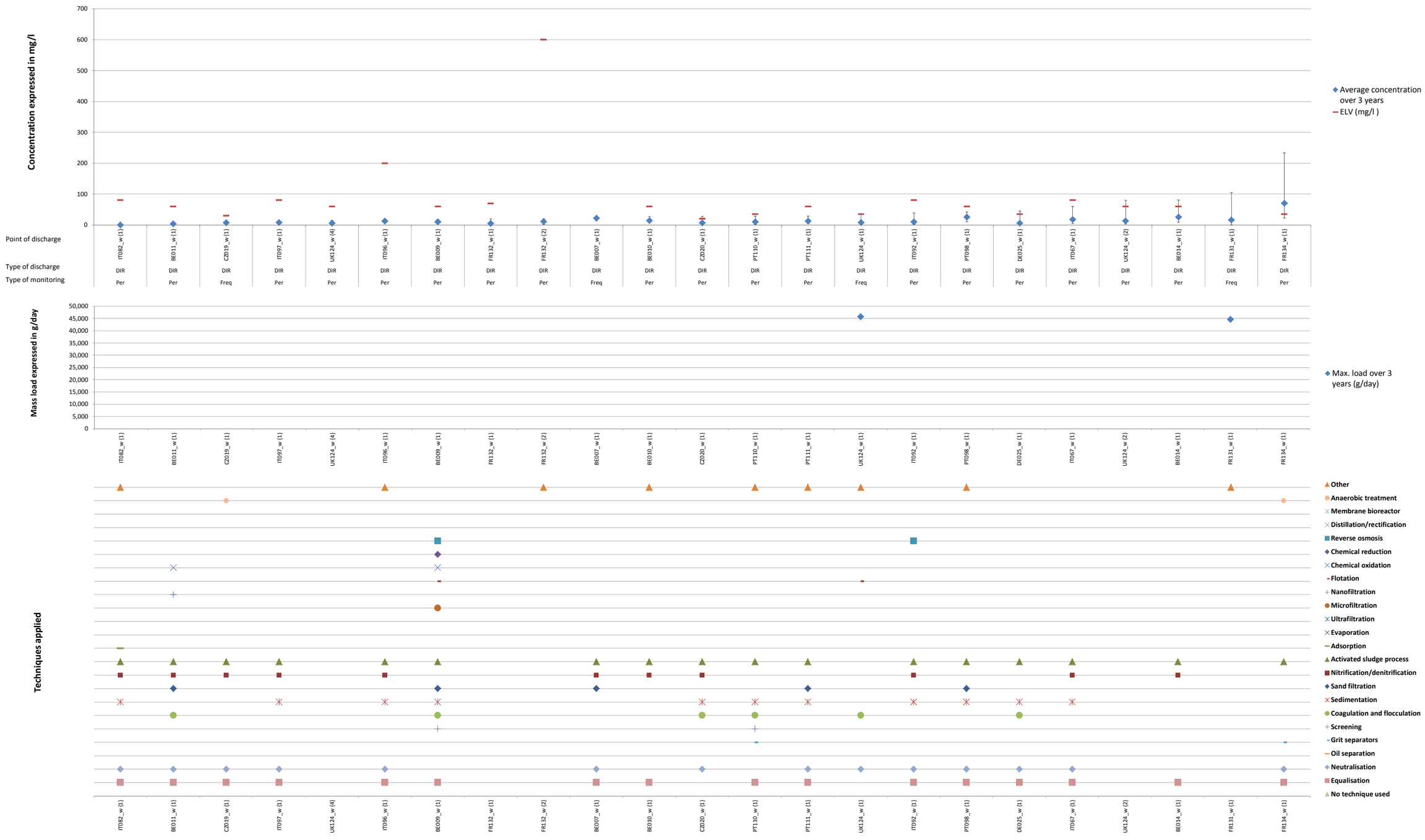
COPPER - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.01	0.03	0.1		0.1	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	IRSA 3010 + 3030, EPA 3005A 1992 + EPA 6010D 2014, EPA 3005A 1992 + EPA 6010D 2014	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	0.1	0.10	0.1		1	No information	Other	Yearly	No information	detection limit: 0,1 mg/L - detection limit: 0,1 mg/L - detection limit: 0,1 mg/L
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	0.043	0.07	0.108		15	Grit separators, Neutralisation	No information	No information	No information	
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.03	0.08	0.12		1	No information	Not applicable	Twice per year	EPA 6010 C 2007	Yearly - Yearly - Yearly
DE041_w {1}	IND	Desizing - Bleaching - Dyeing	mg/l	0.02	0.05	0.15			No information	No information	Monthly	No information	
AT001_w {1}	IND	No information	mg/l	0.021	0.09	0.15		0.5	No information	24-hour flow proportional composite sample	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	5; one additional control measurement local authority
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	0.003	0.03	0.152		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.108	0.13	0.153			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.01	0.04	0.16		0.4	Equalisation	Other	4 times per year	No information	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.01	0.04	0.17		1	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	0.024	0.06	0.179		1	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	0.02	0.05	0.18		0.5	Equalisation, Neutralisation	24-hour flow proportional composite sample	4 times per year	DIN	
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	No unit reported	0	0.06	0.19		1	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	0.0335	0.17	0.2		1	Other	24-hour flow proportional composite sample	Twice per year	IT-DLQ-42/V03;SMEWW3111 B, 21ªed	In these monitoring the value is below level of quantification - For the second monitoring the value is below level of quantification - In these monitoring the value is below level of quantification
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	0.2	0.20	0.2			No information	No information	Yearly	No information	The installation only started operating in 2017.The value of uncertainty is not refered in the reports.
PT110_w {2}	IND	Dyeing	mg/l	0.1	0.18	0.2		1	Equalisation, Grit separators, Screening	No information	Twice per year	No information	
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	0.03	0.16	0.2		1	Screening, Oil separation, Other	No information	4 times per year	DIN EN ISO 11885/ICP-OES	
PT114_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Desizing - Scouring - Bleaching - - Thermal treatment - Dry cleaning	mg/l	0.2	0.20	0.2		1	Equalisation, Neutralisation, Screening, Coagulation and flocculation, Sedimentation, Sand filtration, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.)	No information	Yearly	No information	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	0.094	0.13	0.224	32.256		No technique used	24-hour flow proportional composite sample	No information	No information	
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	0.0115	0.07	0.24		1	Other	Not applicable	Twice per year	EPA 6020 B 2014	
PT104_w {1}	IND	Dyeing - Bleaching	mg/l	0.109	0.20	0.25			No information	24-hour flow proportional composite sample	Yearly	compound sampling	
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	0.0085	0.17	0.25		1	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	Yearly	W-METAXDG1	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.005	0.04	0.25		0.1	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Twice per year	APAT CNR IRSA 3020 Man 29 2003, UNI EN ISO 15587-1:2002+UNI EN ISO 11885:2009, UNI EN ISO 11885:2009	Value refered to sampling periodMeasurement 1 is inferior to detection limit: <0,005 - Value refered to sampling periodMeasurements 1,3 are inferior to detection limit: <0,01 - Measurement 1 is inferior to detection limit: <0,01Measurement 4 is inferior to detection limit: <0,25Value refered to sampling period
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	0.066	0.11	0.29		1	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	mg/l	0.029	0.10	0.3		0.5	No information	Other	No information	DIN	
DE031_w {1}	IND	Dyeing	mg/l	0.005	0.10	0.316			No information	No information	Other	DIN EN ISO 11885DIN EN ISO 11885	3 times/year - 3 times/year - 3 times/year
PT108_w {1}	IND	Fabric production - Fabric production	mg/l	0.22	0.26	0.32		1	Neutralisation, Sand filtration, Sand filtration	24-hour flow proportional composite sample	Yearly	SMEWW3030 K/SMEWW 3111 B (22ª ed), SMEWW3030 K/SMEWW 3111 B (22ª ed), PT 15 Ed. 12 (2O17-01-12)	annual measurement - annual measurement - annual measurement
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	0.047	0.12	0.32	148.8	0.15	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN ISO 11885	RSDE regulation - RSDE regulation - RSDE regulation
AT002_w {1}	IND	No information	mg/l	0.055	0.15	0.37		0.5	No information	No information	Yearly	DIN EN ISO 11885DIN EN ISO 11885	
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	0.01	0.09	0.39		1	Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
IT065_w {1}	IND	No information	mg/l	0.042	0.22	0.41			Other	No information	Twice per year	ARPAT CNR IRSA 3010 Man 29 2003	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	0.12	0.27	0.43		0.5	Other	Other	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	
DE047_w {1}	IND	Desizing - Mercerising - Bleaching - Dyeing - Functional finishing	mg/l	0.015	0.12	0.453		0.5	Neutralisation	24-hour flow proportional composite sample	4 times per year	No information	
IT094_w {1}	IND	No information	mg/l	0.001	0.13	0.458			Other	No information	Twice per year	APAT CNR IRSA 3020 Volume 1:2003	- Concentration of mesurement 1 under the detection limit of 0,001 mg/l - In the second determination, the concentration was under the detection limit of 0,001mg/l
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	0.03	0.22	0.5		1	Equalisation	Grab/spot sample	4 times per year	No information	
IT077_w {2}	IND	Dyeing	No unit reported	0.01	0.18	0.5		1	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE029_w {1}	IND	Dyeing	mg/l	0.05	0.10	0.52		1	No information	Flow proportional composite sample	4 times per year	No information	
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	0.0462	0.16	0.52	1034.1032	10	Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	0.007	0.13	0.563		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	0.028	0.29	0.79		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT064_w {1}	IND	Scouring	mg/l	0.4	0.62	0.838		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	0.171	0.47	0.898		1	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		0.98				No information	24-hour flow proportional composite sample	Twice per year	No information	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	0.22	0.65	1.5	663	0.5	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quartely

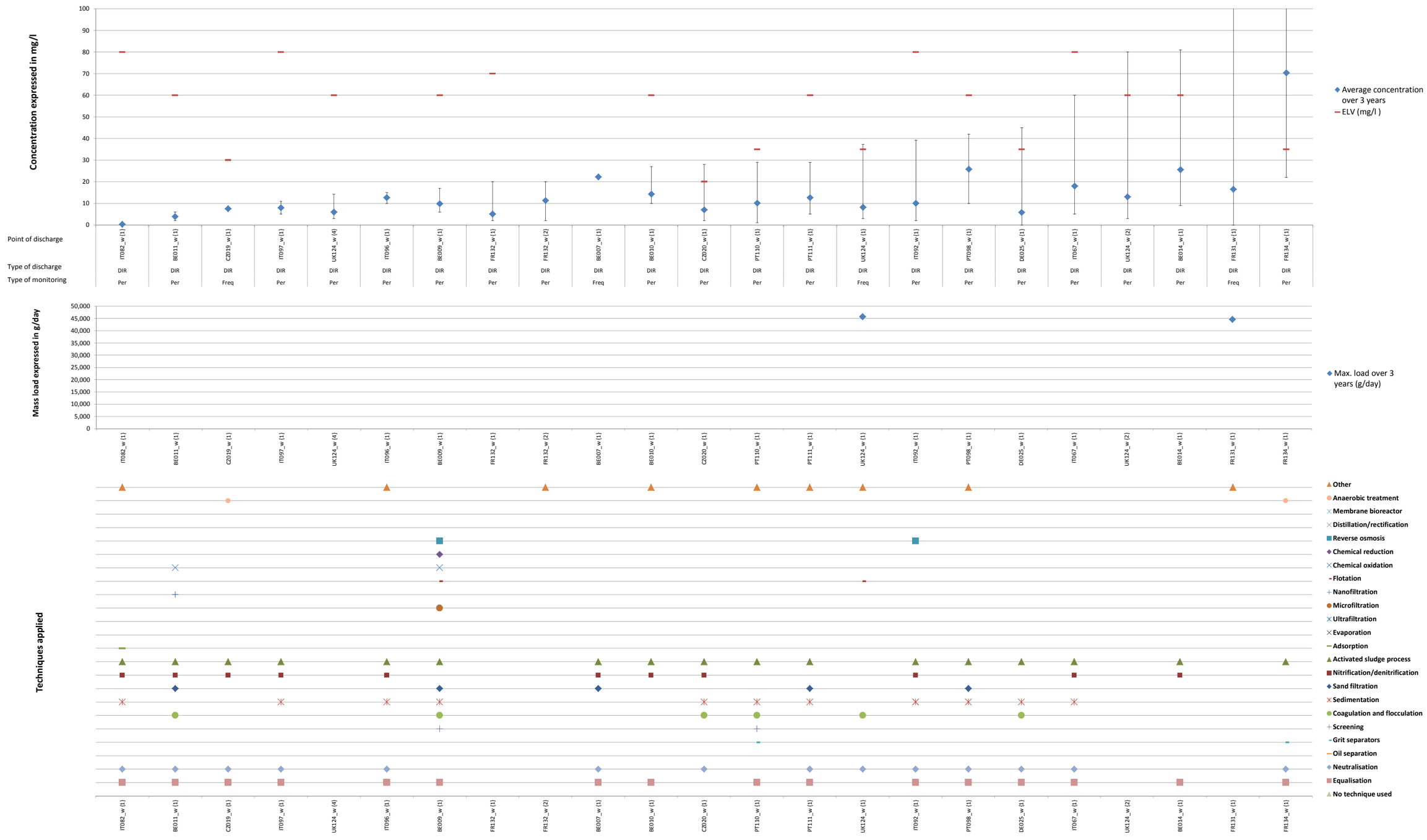
COPPER - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
UK124_w {1}	DIR	No information	mg/l	1	17.35	28.8			Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Twice per year	ICPMS Routine- acid digested; determined by ICPMS	
UK126_w {1}	IND	Dyeing	other (please specify in the column "additional information")	10.6	98.30	1740			No information	Flow proportional composite sample	No information	No information	The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre

TSS - Emissions to water



TSS - Emissions to water (zoom 0-100 mg/l)



TSS - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0	0.33	1		80	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	Yearly	IRSA 2090-B:2003	
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	20	20.00	20			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	133	210.77	283		1200	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
BE011_w {1}	DIR	Dyeing	mg/l	2	3.90	6		60	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/D/002	2 measurements < DL (2 mg/l) - 1 measurements < DL (2 mg/l) - 2 measurements < DL (2 mg/l)
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	23	261.42	2500		1000	Other	24-hour flow proportional composite sample	4 times per year	SMEWW 2540 D, 21ªed	
PT104_w {1}	IND	Dyeing - Bleaching	mg/l	21	71.50	220			No information	24-hour flow proportional composite sample	4 times per year	compound sampling	
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	30	50.80	106			No information	No information	4 times per year	No information	The installation only started operating in 2017.The value of uncertainty is not refered in the reports.
PT108_w {1}	IND	Fabric production - Fabric production	mg/l	11	175.69	390		1000	Neutralisation, Sand filtration, Sand filtration	24-hour flow proportional composite sample	Monthly	Filtration and Gravimetric	monthly - monthly - monthly
PT109_w {1}	IND	No information	mg/l	78	139.50	220		1000	Oil separation, Neutralisation	No information	4 times per year	No information	
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing	mg/l		7.50			30	Equalisation, Neutralisation, Anaerobic treatment, Nitrification/denitrification, Activated sludge process	No information	Monthly	No information	
PT110_w {2}	IND	Dyeing	mg/l	10	99.58	213		1000	Equalisation, Grit separators, Screening	No information	4 times per year	No information	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	5	8.00	11		80	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 2090B Man 29 2003	Monitoring frequency: spot
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	19	62.72	106		1000	No information	Other	4 times per year	Gravimetry	
PT114_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Desizing - Scouring - Bleaching - - Thermal treatment - Dry cleaning	mg/l	0.014	0.08	0.21		1	Equalisation, Neutralisation, Screening, Coagulation and flocculation, Sedimentation, Sand filtration, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.)	No information	4 times per year	No information	
PT115_w {1}	IND	No information	mg/l	18	39.58	74		1000	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	SMEWW 2540 D	SIDVA - SIDVA - SIDVA
UK124_w {4}	DIR	No information	mg/l	3	5.99	14.2		60	No information	No information	Yearly	Suspended Solids - filtered; determined by gravimetry	
CZ015_w {1}	IND	Dyeing - Functional finishing	mg/l	80	179.83	487			Grit separators, Equalisation, Sedimentation	Flow proportional composite sample	4 times per year	No information	
CZ016_w {1}	IND	Shrink-proof finishing	mg/l	490	16513.06	54000			No information	Flow proportional composite sample	Monthly	No information	
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	19	48.31	118		500	No information	No information	Monthly	No information	
IT096_w {1}	DIR	Dyeing - Other	mg/l	10	12.67	15		200	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	5.9	9.85	17		60	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/D/002	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
FR132_w {1}	DIR	No information	mg/l	2	5.07	20		70	No information	Grab/spot sample	No information	No information	
BE008_w {1}	IND	Printing - Dyeing	mg/l	118	291.67	570		1000	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/D/002	Self Control and taxation waste water - Self Control and taxation waste water - Self Control and taxation waste water
FR132_w {2}	DIR	Bleaching - Dyeing	mg/l	2	11.29	20		600	Other	Grab/spot sample	No information	No information	
BE007_w {1}	DIR	Dyeing	mg/l		22.22				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/D/002	
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	10	14.27	27		60	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Yearly	WAC/III/D/002	
PT117_w {1}	IND	Dyeing - Dyeing - Bleaching - Functional finishing	mg/l	34	90.47	169		1000	Neutralisation	24-hour flow proportional composite sample	Monthly	ISO	
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	19	63.33	107		1000	Screening, Oil separation, Other	No information	4 times per year	Standard Methods 2540, 23rd Ed./Gavimetria	
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	157	224.00	310		500	Flotation	No information	Daily	ÖNORM M 6274:1985	self-monitoring daily - self-monitoring daily - self-monitoring daily
AT002_w {1}	IND	No information	mg/l	100	315.48	880		500	No information	No information	Monthly	DIN 38409 H2	
AT004_w {1}	IND	Washing synthetic fibre	mg/l	220	331.83	550			No information	No information	Twice per year	ÖNORM M 6274:1985 (MH)	
BE013_w {1}	IND	Mercerising	mg/l	23.3	47.67	63.3		1000	Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	MEIN042	sample 22.10.2015-23.10.2015
CZ020_w {1}	DIR	Dyeing	mg/l	2	7.00	28		20	Sedimentation, Nitrification/denitrification, Neutralisation, Coagulation and flocculation, Activated sludge process	No information	Monthly	specified in extern laboratory	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	12	33.90	89	49128	50	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quarterly
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	130	296.00	900	323100		Sedimentation, Neutralisation	24-hour flow proportional composite sample	Weekly	No information	
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	70	382.00	1810	3599474.6		Neutralisation	24-hour flow proportional composite sample	Weekly	No information	
UK128_w {1}	IND	Raw wool scouring	mg/l	1	1200.00	8370	2368710	10000	Coagulation and flocculation	24-hour flow proportional composite sample	No information	No information	Results taken from Local sewerage undertakers routine testing as part of compliance permit -results are settled COD - % average removal efficiency for COD & TSS is calculated using an average input to effluent plant of 80000ppm COD and 30000ppm TSS. Remov - Results taken from Local sewerage undertakers routine testing as part of compliance permit -results are settled COD - % average removal efficiency for COD & TSS is calculated using an average input to effluent plant of 80000ppm COD and 30000ppm TSS. Remov - Results taken from Local sewerage undertakers routine testing as part of compliance permit -results are settled COD - % average removal efficiency for COD & TSS is calculated using an average input to effluent plant of 80000ppm COD and 30000ppm TSS. Remov
UK129_w {1}	IND	Raw wool scouring	mg/l	62	348.00	1700	596700		Grit separators, Screening, Oil separation, Coagulation and flocculation, Ultrafiltration, Flotation	24-hour flow proportional composite sample	Monthly	No information	Suspended solids are monitored by local water company for sewage charging purposes but no limits or compliance requirements set
PT110_w {1}	DIR	Dyeing	mg/l	1	10.15	29		35	Equalisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation, Activated sludge process, Other	No information	Monthly	No information	35 in the normal period and 30 in the dry season - 35 in the normal period and 30 in the dry season - 35 in the normal period and 30 in the dry season
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	5	12.67	29		60	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	4 times per year	SMEWW 2540 D	
UK124_w {1}	DIR	No information	mg/l	3	8.20	37.3	45729.8	35	Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Weekly	Filtered; determined by gravimetry	

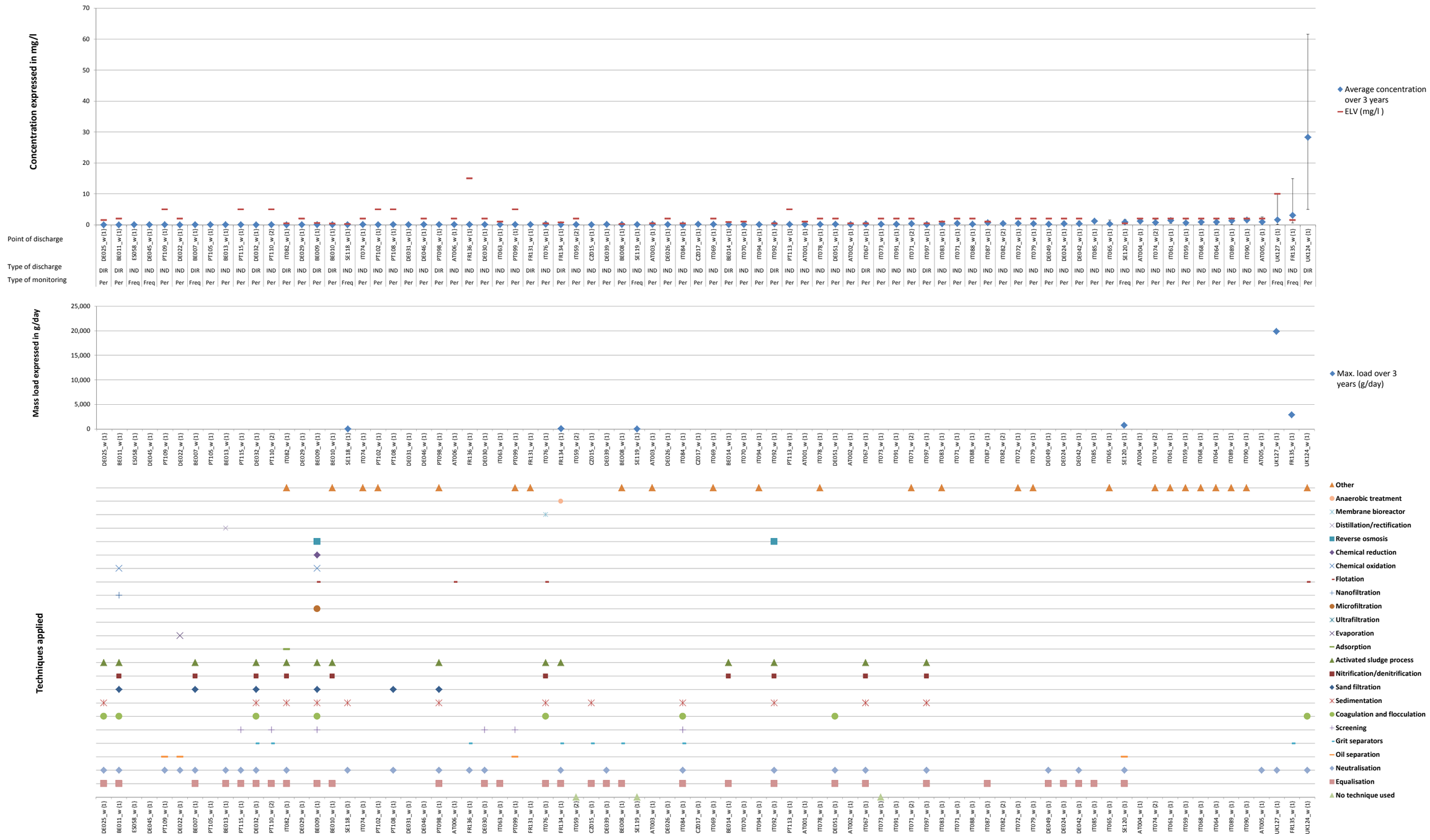
TSS - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
UK126_w {1}	IND	Dyeing	mg/l	32	131.21	688	55494.08		No information	Flow proportional composite sample	No information	No information	Unities Utilities take random samples from the collection unit. It could be once, twice or even three times a month. Unities Utilities take random samples from the collection unit. It could be once, twice or even three times a month. Unities Utilities take random samples from the collection unit. It could be once, twice or even three times a month.
FR135_w {1}	IND	Washing synthetic fibre	No unit reported	32.5	39.26	55		120	Grit separators	24-hour flow proportional composite sample	Weekly	No information	
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	7	46.17	118		1200	Other	Not applicable	Twice per year	APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003	
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	11	150.67	640		1200	No technique used	Not applicable	Twice per year	APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003	
IT092_w {1}	DIR	Dyeing - Other	mg/l	2	10.05	39.2		80	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	APAT CNR IRSA 2090B	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	10	25.83	42		60	Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Twice per year	PNT MA/FQ-17 (2015-09-09), PNT MA/FQ-17 (2015-09-09)-MESU.1 and PNT MA/FQ-17 (2016-04-07) MESU.2, PNT MA/FQ-17 (2016-04-07)	Averaging period for ELVs: Twice per year - Averaging period for ELVs: Twice per year - Uncertainty: Method PNT MA/FQ-17(2016-04-07)MESU.1 12%; PNT-MA/FQ-17(2016-04-07) MESU.2 17% ; Averaging period for ELVs: Twice per year
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	5.85	45		35	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN 872 (H33)	
IT061_w {1}	IND	Scouring - Wool Carbonising	mg/l	73.2	311.85	844		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	36	96.91	157		400	Equalisation	Other	4 times per year	No information	Authorized in derogation - Authorized in derogation - Authorized in derogation
IT064_w {1}	IND	Scouring	mg/l	50.7	75.32	122		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT065_w {1}	IND	No information	mg/l	32.8	116.63	196			Other	No information	Twice per year	ARPAT CNR IRSA 2090B Man 29 2003	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	5	18.00	60		80	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	57.2	135.37	335		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	65.9	484.17	969.3		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT070_w {1}	IND	No information	mg/l	7	81.50	225		1200	No information	Not applicable	Twice per year	APAT-IRSA CNR 29-2003 2090B	
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	30.9	65.48	82.3		1200	No information	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	23	75.62	113		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	28.5	65.73	102		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	83.5	110.50	147		1200	No technique used	Other	Twice per year	ARPAT CNR IRSA2090 MAN 29 2003-2004-2005	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	35.4	112.87	230		1200	Other	Other	No information	APAT CNR IRSA 2090 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	114	197.78	288		1200	Other	Other	No information	APAT CNR IRSA 2090 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT075_w {1}	IND	Raw wool scouring	mg/l	5	24.81	87.5		200	Equalisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant
IT076_w {1}	IND	Raw wool scouring	mg/l	14.86	19.49	87		200	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Weekly	APAT CNR IRSA 2090B Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	No unit reported	61	97.67	177		1200	No information	Other	Twice per year	APAT CNR IRSA 2090 MAN 29 2003	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
IT077_w {2}	IND	Dyeing	No unit reported	12.2	37.60	55		1200	No information	Other	Twice per year	APAT CNR IRSA 2090 MAN 29 2003	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	29.7	59.50	101		1200	Other	Other	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		42.75				No information	No information	4 times per year	No information	
AT001_w {1}	IND	No information	mg/l	55	153.85	580		300	No information	24-hour flow proportional composite sample	4 times per year	DIN 38409 H2	5; one additional control measurement local authority
UK124_w {2}	DIR	No information	mg/l	3	13.05	80		60	No information	No information	Monthly	Suspended Solids - filtered; determined by gravimetry	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	9	25.57	81		60	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/D/002	
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	1	79.00	120			No information	No information	Other	APAT IRSA -CNR 2090/B Man 29 2003	
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	60	150.33	226		400	Other	Not applicable	Twice per year	APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003, APAT CNR IRSA 2090 B Man 29 2003	

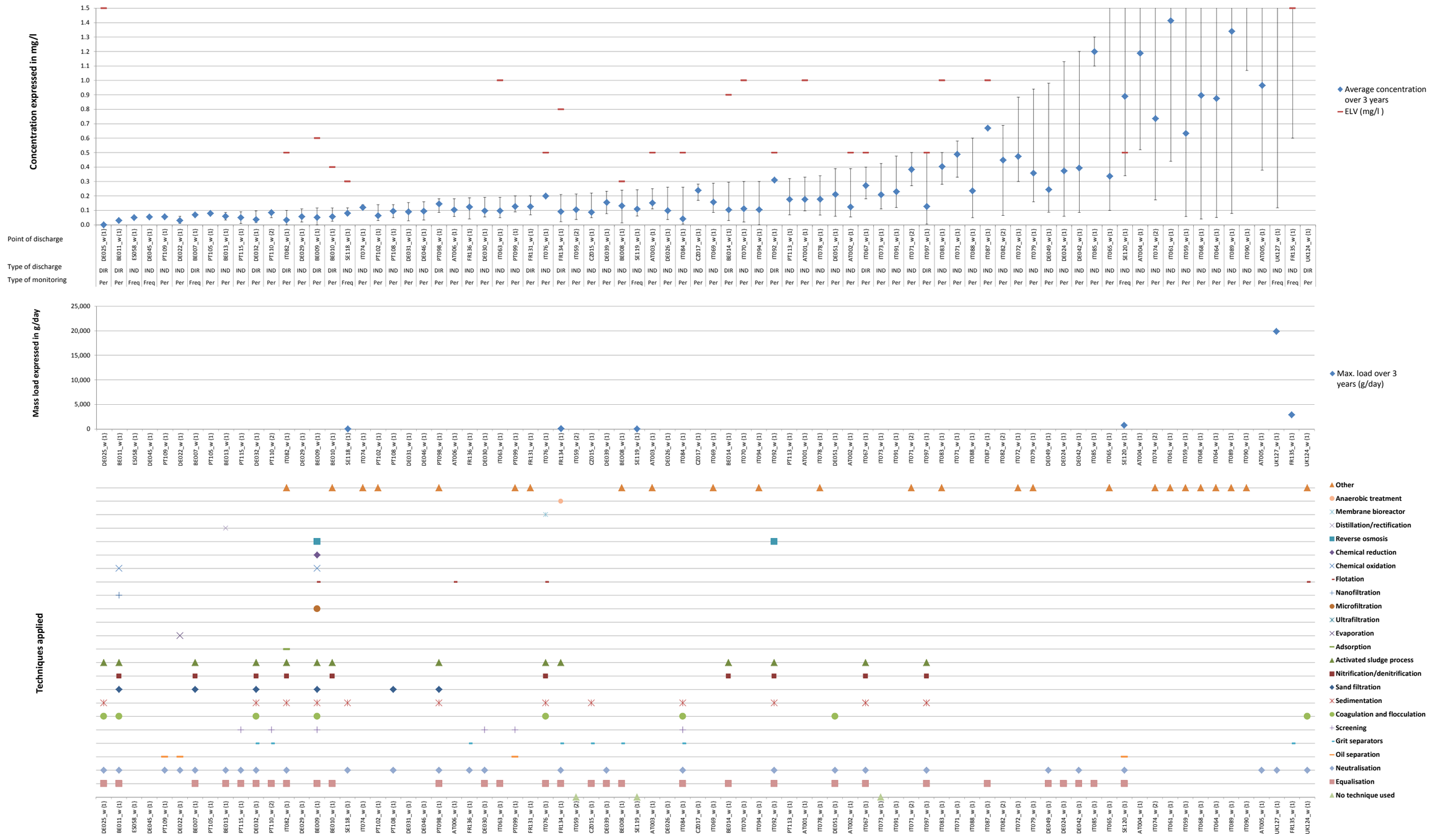
TSS - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	3	10.33	24		80	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	APAT IRSA -CNR 2090/B Man 29 2003	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
IT085_w {1}	IND	Dyeing	mg/l	18	63.29	224			Equalisation	Not applicable	Other	APAT CNR IRSA 2090B Man 29 2003	Monitoring end frequency dependent on the operator of the off-site treatment plant
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	74	253.59	383		340	Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	30	200.33	856		1200	No information	Not applicable	Twice per year	apat irsa cnr 29/2003 2090	Yearly - Yearly - Yearly
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	36.7	114.98	236		1200	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	42.8	87.58	153		1200	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 2090 B MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	107.4	175.23	332.8		1200	No information	Other	No information	APAT CNR IRSA 2090 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0	16.50	105	44625		Other	24-hour flow proportional composite sample	Daily	No information	
IT094_w {1}	IND	No information	mg/l	63	89.53	141			Other	No information	Twice per year	APAT IRSA 2090 B Volume 1:2003	
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	22	70.42	234		35	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN 872	
AT005_w {1}	IND	No information	mg/l	27	99.22	160		300	Neutralisation	No information	Monthly	DIN 38409 H2	
UK121_w {1}	IND	Dyeing	mg/l	19	68.00	180	42840	1000	Equalisation	24-hour flow proportional composite sample	Monthly	ISO 11929	

ZINC - Emissions to water



ZINC - Emissions to water (zoom 0-1.5 mg/l)



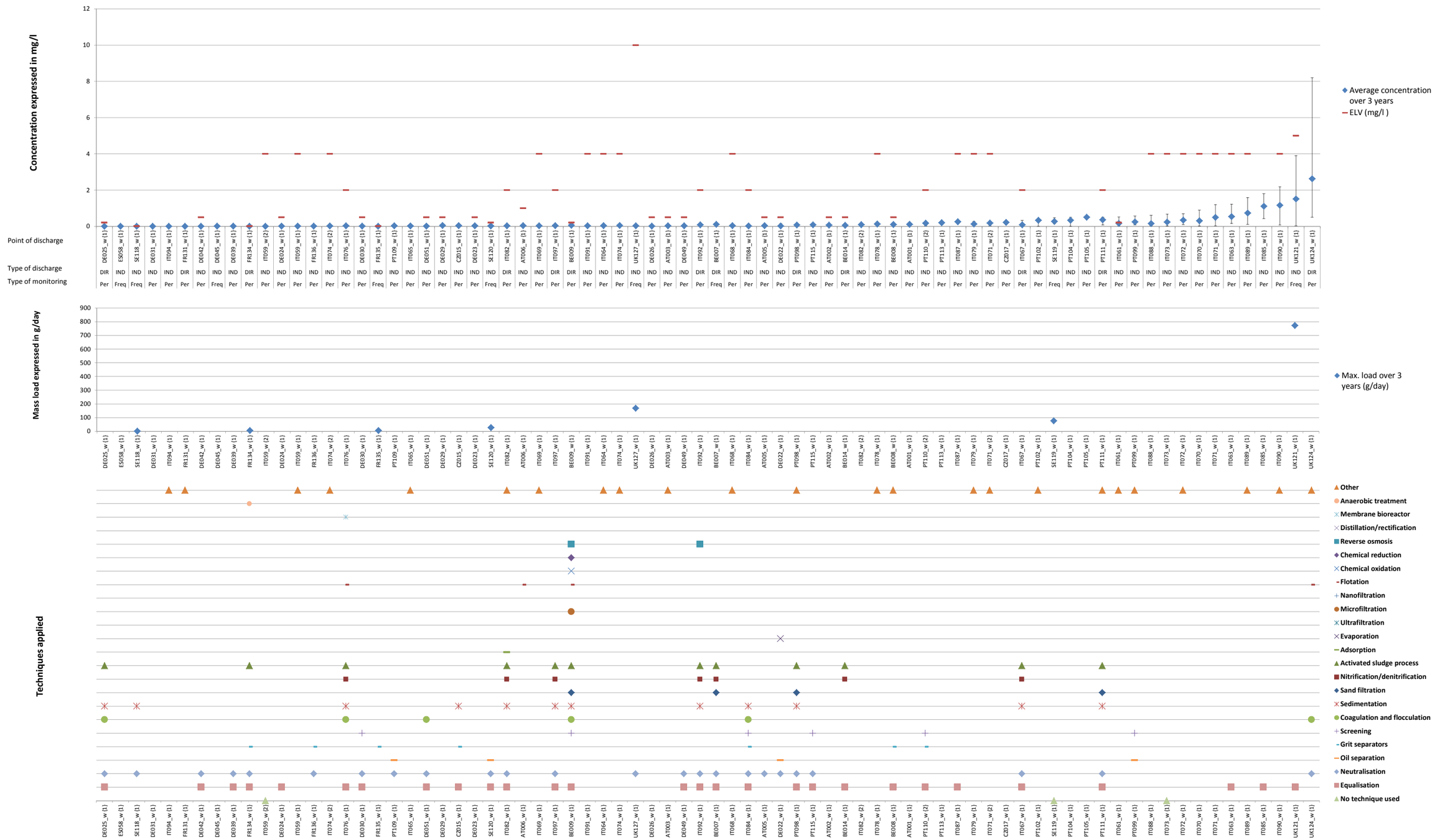
ZINC - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0	0		1.5	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 11885 (E22)	
BE011_w {1}	DIR	Dyeing	mg/l	0.022	0.03	0.038		2	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	5 measurements < DL (0,066 mg/l)
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0.05				No information	No information	4 times per year	No information	
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		0.06				No information	24-hour flow proportional composite sample	Twice per year	No information	
PT109_w {1}	IND	No information	mg/l	0.0564	0.06	0.0564		5	Oil separation, Neutralisation	No information	Yearly	No information	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.01	0.03	0.06		2	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
BE007_w {1}	DIR	Dyeing	mg/l		0.07				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	0.08	0.08	0.08			No information	No information	Yearly	No information	The installation only started operating in 2017.The value of uncertainty is not refered in the reports.
BE013_w {1}	IND	Mercerising	mg/l	0.033	0.06	0.085			Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	MEIN043TAX, MEIN043TAX, MEIN062TAX	sample 23.10.2015, 0,033 mg/l - <0,005 mg/l -
PT115_w {1}	IND	No information	mg/l	0.01	0.05	0.0905		5	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	SMEWW 3030 K/SMEWW 3111 B, SMEWW 3030 K/SMEWW 3111 B, W- METAXDG1	< LQ; LD= 0,01SIDVA - SIDVA - SIDVA
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	0.015	0.04	0.098			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
PT110_w {2}	IND	Dyeing	mg/l	0.05	0.09	0.1		5	Equalisation, Grit separators, Screening	No information	Twice per year	No information	
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0	0.03	0.1		0.5	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	Yearly	IRSA 3010 + 3020*	
DE029_w {1}	IND	Dyeing	mg/l	0.02	0.06	0.11		2	No information	Flow proportional composite sample	4 times per year	No information	
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0	0.05	0.116		0.6	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/BWAC/III/B	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	0.025	0.06	0.116		0.4	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Yearly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	1 measurement < 0,025 mg/l
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	0.065	0.08	0.118	41.536	0.3	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Monthly	No information	Three months average
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	0.106	0.12	0.139		2	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	0.03	0.06	0.14		5	Other	24-hour flow proportional composite sample	Twice per year	IT-DLQ-42/V03;SMEWW3111 B, 21ªed	For the second monitoring the value is below level of quantification - In these monitoring the value is below level of quantification -
PT108_w {1}	IND	Fabric production - Fabric production	mg/l	0.05	0.10	0.14		5	Neutralisation, Sand filtration, Sand filtration	24-hour flow proportional composite sample	Yearly	SMEWW3030 K/SMEWW 3111 B (22ª ed), SMEWW3030 K/SMEWW 3111 B (22ª ed), PT 15 Ed. 12 (2017-01-12)	annual measurement - annual measurement - annual measurement
DE031_w {1}	IND	Dyeing	mg/l	0.028	0.09	0.155			No information	No information	Other	DIN EN ISO 11885DIN EN ISO 11885	3 times/year - 3 times/year - 3 times/year
DE046_w {1}	IND	Washing synthetic fibre - Dyeing	mg/l	0.033	0.10	0.16		2	No information	No information	No information	No information	- qualified sample -
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	0.086	0.15	0.18			Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Yearly	DIN EN ISO 11885 (E22), DIN EN ISO 17294-2(E29), DIN EN ISO 11885 (E22)	There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l ; - MESU. 1 - 0,086 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l - There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l ;
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	0.058	0.10	0.18		2	Flotation	No information	Yearly	EN ISO 11885	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	0.042	0.12	0.188		15	Grit separators, Neutralisation	No information	No information	No information	
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	0.055	0.10	0.19		2	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.05	0.10	0.19		1	Equalisation	Other	4 times per year	No information	
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	0.0898	0.13	0.2		5	Screening, Oil separation, Other	No information	4 times per year	DIN EN ISO 11885/ICP-OES	
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0.07	0.13	0.2			Other	24-hour flow proportional composite sample	Monthly	NF EN ISO 11885	
IT076_w {1}	IND	Raw wool scouring	mg/l	0.2	0.20	0.2		0.5	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	0.022	0.09	0.21	102.9	0.8	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN ISO 11885	RSDE regulation - RSDE regulation - RSDE regulation
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.0379	0.10	0.213		2	No technique used	Not applicable	Twice per year	EPA 6020 B 2014	
CZ015_w {1}	IND	Dyeing - Functional finishing	mg/l	0.05	0.09	0.22			Grit separators, Equalisation, Sedimentation	Flow proportional composite sample	4 times per year	No information	
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.078	0.16	0.232			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
BE008_w {1}	IND	Printing - Dyeing	mg/l	0.014	0.13	0.24		0.3	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	0.061	0.11	0.243	43.497		No technique used	24-hour flow proportional composite sample	No information	No information	
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	0.11	0.15	0.25		0.5	Other	Other	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	mg/l	0.037	0.10	0.26		2	No information	Other	No information	DIN	
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.005	0.04	0.26		0.5	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	EPA 6020 B 2014	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	0.17	0.24	0.283			No information	No information	Yearly	No information	
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	0.087	0.16	0.288		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	0.03	0.10	0.295		0.9	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	1 mesurement < DL (0,025 mg/l)2 measurements < DL (0,025 mg/l)
IT070_w {1}	IND	No information	mg/l	0.02	0.11	0.3		1	No information	Not applicable	Twice per year	EPA 6010 C 2007	

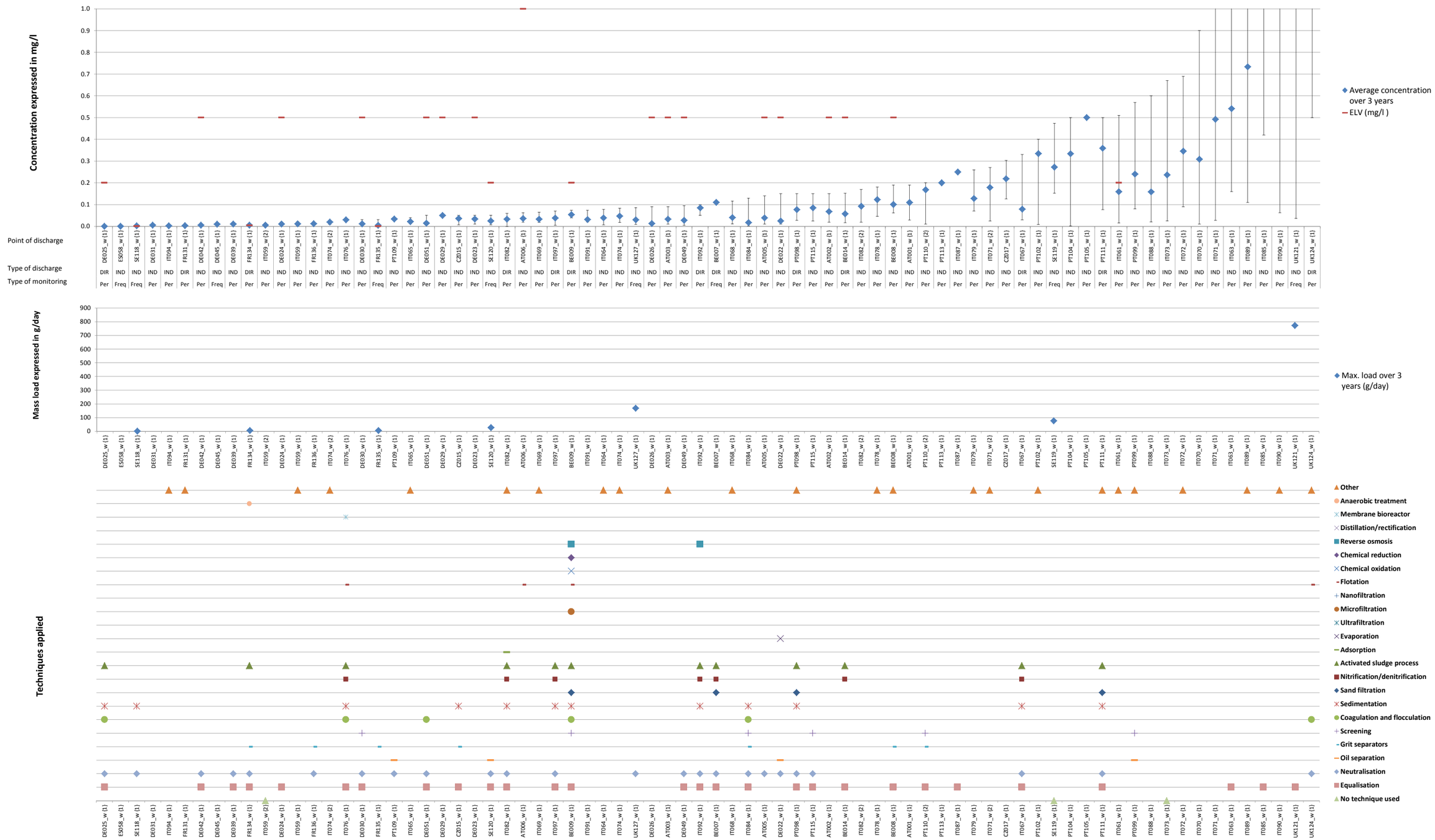
ZINC - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT094_w {1}	IND	No information	mg/l	0.001	0.11	0.3			Other	No information	Twice per year	APAT CNR IRSA 3020 Volume 1:2003	- In the second determination, the concentration was under the detection limit of 0,001mg/l - In the second determination, the concentration was under the detection limit of 0,001mg/l
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.31	0.31	0.31		0.5	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	0.07	0.18	0.32		5	No information	Other	Yearly	No information	
AT001_w {1}	IND	No information	mg/l	0.098	0.18	0.33		1	No information	24-hour flow proportional composite sample	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	5; one additional control measurement local authority
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	0.068	0.18	0.34		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	0.06	0.21	0.39		2	Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
AT002_w {1}	IND	No information	mg/l	0.055	0.12	0.39		0.5	No information	No information	Yearly	DIN EN ISO 11885DIN EN ISO 11885	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.18	0.27	0.4		0.5	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	0.11	0.21	0.425		2	No technique used	Other	Twice per year	UNI EN ISO 11885:2009	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	0.12	0.23	0.475		2	No information	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	0.27	0.38	0.5		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.005	0.13	0.5		0.5	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Twice per year	APAT CNR IRSA 3020 Man 29 2003, UNI EN ISO 15587-1:2002+UNI EN ISO 11885:2009, UNI EN ISO 11885:2009	Measurement 2 is inferior to detection limit: <0,005Value refered to sampling period - Measurement 3 is inferior to detection limit: <0,05Value refered to sampling period - Measurement 1 is inferior to detection limit: <0,05Measurement 4 is inferior to detection limit: <0,5Value refered to sampling period
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	0.28	0.40	0.5		1	Other	Not applicable	Other	APAT CNR IRSA 3010 A Man 29 2003+APAT CNR IRSA 3020 Man 29 2003	RANDOM TEST MADE BY THE COMPANY - RANDOM TEST MADE BY THE COMPANY -
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	0.33	0.49	0.58		2	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.05	0.24	0.6		2	No information	Not applicable	Twice per year	EPA 6010 C 2007	Yearly - Yearly - Yearly
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	0.67	0.67	0.67		1	Equalisation	Not applicable, Grab/spot sample, Not applicable	Other	No information	Monitoring frequency: spot
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	No unit reported	0.03	0.27	0.69		2	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0.065	0.45	0.69			No information	No information	Other	APAT IRSA -CNR 3010/A + 3020Man 29 2003	
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	0.3	0.47	0.883		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	0.16	0.36	0.94		2	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	0.088	0.24	0.98		2	Equalisation, Neutralisation	24-hour flow proportional composite sample	4 times per year	DIN	
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	0.06	0.37	1.13		2	Equalisation	Grab/spot sample	4 times per year	No information	
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	0.087	0.39	1.2		2	Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
IT085_w {1}	IND	Dyeing	mg/l	1.1	1.20	1.3			Equalisation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant
IT065_w {1}	IND	No information	mg/l	0.1	0.34	1.56			Other	No information	Twice per year	ARPAT CNR IRSA 3010 Man 29 2003	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	0.34	0.89	1.7	785.6	0.5	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quartely
AT004_w {1}	IND	Washing synthetic fibre	mg/l	0.52	1.19	1.72		2	No information	No information	Weekly	EN ISO 11885 (MH)	
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	0.173	0.74	1.745		2	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT061_w {1}	IND	Scouring - Wool Carbonising	mg/l	0.44	1.41	1.835		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - Averaging period for ELV: 3 hours; YEAR 2015
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	0.0575	0.63	1.84		2	Other	Not applicable	Twice per year	EPA 6020 B 2014	
IT077_w {2}	IND	Dyeing	No unit reported	0.074	0.45	1.84		2	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	0.041	0.90	1.863		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT064_w {1}	IND	Scouring	mg/l	0.051	0.88	1.87		2	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.08	1.34	1.9		2	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	1.07	1.59	1.91		2	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
AT005_w {1}	IND	No information	mg/l	0.38	0.97	2.5		2	Neutralisation	No information	Monthly	DIN EN ISO 11885DIN EN ISO 11885	
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	0.119	1.65	10	19886.6	10	Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total
FR135_w {1}	IND	Washing synthetic fibre	mg/l	0.6	3.11	14.95	2933.3395	1.5	Grit separators	24-hour flow proportional composite sample	Monthly	No information	
UK124_w {1}	DIR	No information	mg/l	5	28.33	61.6			Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Twice per year	ICPMS Routine- acid digested; determined by ICPMS	
UK126_w {1}	IND	Dyeing	other (please specify in the column "additional information")	96	2038.51	8360			No information	Flow proportional composite sample	No information	No information	The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre

CHROMIUM - Emissions to water



CHROMIUM - Emissions to water (zoom 0-1 mg/l)



CHROMIUM - EMISSIONS TO WATER

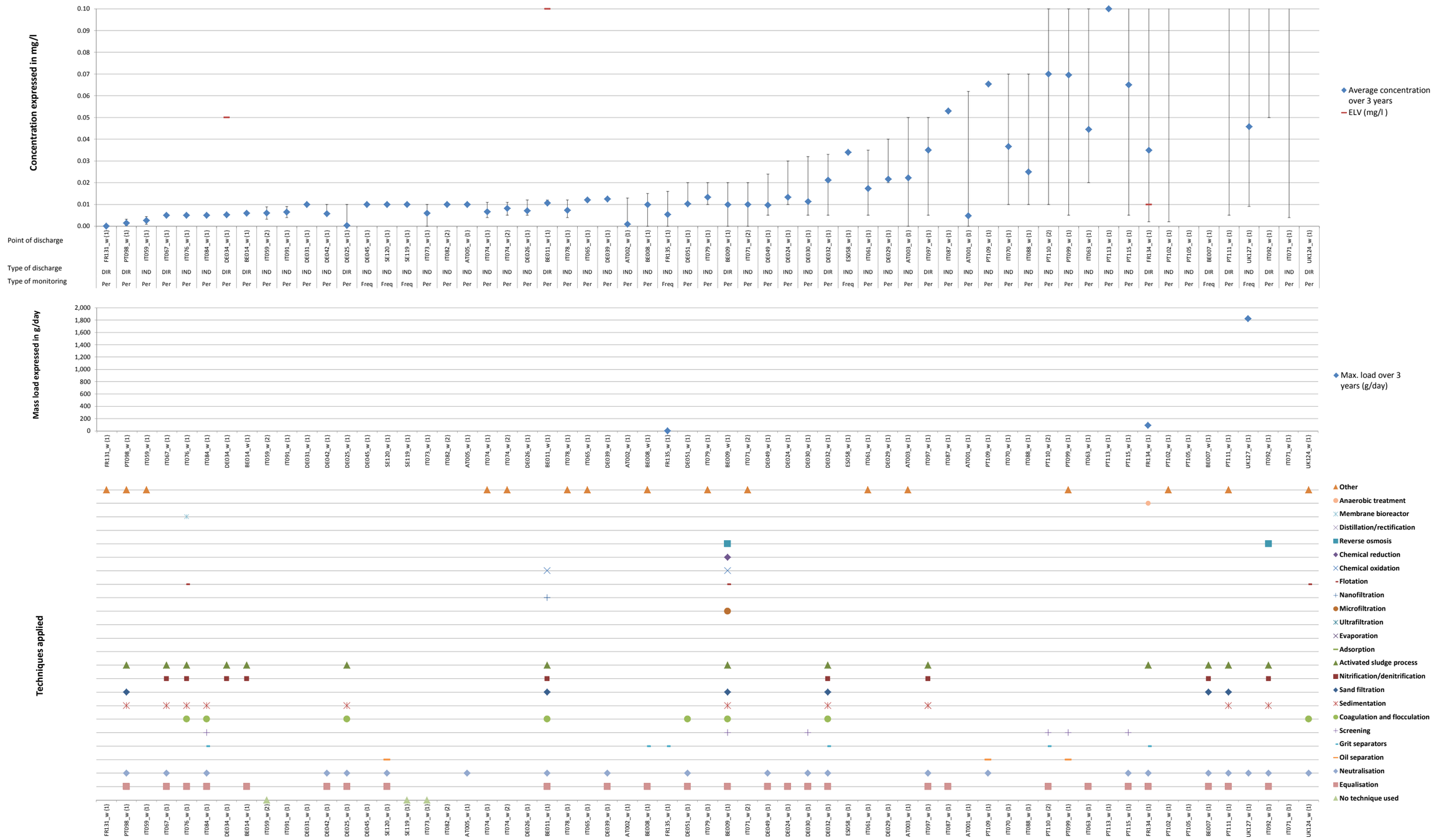
EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0	0		0.2	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 11885 (E22)	
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0				No information	No information	Yearly	No information	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	0.0015	0.0024	0.0057	2.0064	0.0001	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Monthly	No information	Three months average
DE031_w {1}	IND	Dyeing	mg/l	0.005	0.01	0.007			No information	No information	Other	DIN EN ISO 11885DIN EN ISO 11885	3 times/year - 3 times/year - 3 times/year
IT094_w {1}	IND	No information	mg/l	0.001	0.0022	0.008			Other	No information	Twice per year	APAT CNR IRSA 3020 Volume 1:2003	Concentration under the detection limit of 0,001 mg/l - Concentration of mesurement 1 under the detection limit of 0,001 mg/l - Concentration under the detection limit of 0,001 mg/l
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0	0.0035	0.009			Other	24-hour flow proportional composite sample	Monthly	NF EN ISO 11885	
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	0.005	0.01	0.01		0.5	Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		0.01				No information	24-hour flow proportional composite sample	Twice per year	No information	
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.008	0.01	0.013			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	0.0025	0.01	0.013	6.006	0.005	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN ISO 11885	mesures for water agency for calculate a fee - mesures for water agency for calculate a fee - mesures for water agency for calculate a fee
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.00127	0.01	0.0144		4	No technique used	Not applicable	Twice per year	EPA 6020 B 2014	
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	0.01	0.01	0.02		0.5	Equalisation	Grab/spot sample	4 times per year	No information	
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	0.00127	0.01	0.021		4	Other	Not applicable	Twice per year	EPA 6020 B 2014	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	0.006	0.01	0.021			Grit separators, Neutralisation	No information	No information	No information	
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	0.009	0.02	0.028		4	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT076_w {1}	IND	Raw wool scouring	mg/l	0.03	0.03	0.03		2	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	No unit reported	0.01	0.02	0.03		4	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	0.005	0.01	0.031		0.5	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
FR135_w {1}	IND	Washing synthetic fibre	mg/l	0	0.0044	0.031	6.448	0	Grit separators	24-hour flow proportional composite sample	Monthly	No information	
PT109_w {1}	IND	No information	mg/l	0.0335	0.03	0.0335			Oil separation, Neutralisation	No information	Yearly	No information	
IT065_w {1}	IND	No information	mg/l	0.012	0.02	0.04			Other	No information	Twice per year	ARPAT CNR IRSA 3010 Man 29 2003	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	0.01	0.01	0.05		0.5	Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
DE029_w {1}	IND	Dyeing	mg/l	0.05	0.05	0.05		0.5	No information	Flow proportional composite sample	4 times per year	No information	
CZ015_w {1}	IND	Dyeing - Functional finishing	mg/l	0.007	0.04	0.05			Grit separators, Equalisation, Sedimentation	Flow proportional composite sample	4 times per year	No information	
DE023_w {1}	IND	Washing synthetic fibre - Mercerising - Bleaching - Dyeing	mg/l	0.01	0.03	0.05		0.5	No information	No information	No information	No information	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	0.0071	0.03	0.051	27.6	0.2	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quartely
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0	0.03	0.059		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	Yearly	IRSA 3020:2003*, IRSA 3020:2003*, IRSA 3010 + 3020*	
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	0.019	0.04	0.062		1	Flotation	No information	Yearly	EN ISO 11885	
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	0.018	0.03	0.065		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.005	0.04	0.07		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Twice per year	APAT CNR IRSA 3020 Man 29 2003, calculated, calculated	Value refered to sampling periodMeasurements 1,2 are inferior to detection limit: <0,005 - Value refered to sampling periodMeasurement 1 is inferior to detection limit - Value refered to sampling periodMeasurement 1 is inferior to detection limit
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0.039	0.05	0.073		0.2	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/BWAC/III/B	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	0.02	0.03	0.073		4	No information	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
IT064_w {1}	IND	Scouring	mg/l	0.007	0.04	0.078		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	0.018	0.05	0.083		4	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	0.00914	0.03	0.0859	169.570895	10	Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	mg/l	0.005	0.01	0.09		0.5	No information	Other	No information	DIN	
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	0.01	0.03	0.09		0.5	Other	Other	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	0.005	0.03	0.095		0.5	Equalisation, Neutralisation	24-hour flow proportional composite sample	4 times per year	DIN	
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.05	0.08	0.1		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	IRSA 3010 + 3030, EPA 3005A 1992 + EPA 6010D 2014, EPA 3005A 1992 + EPA 6010D 2014	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
BE007_w {1}	DIR	Dyeing	mg/l		0.11				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	0.011	0.04	0.116		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.001	0.02	0.13		2	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	EPA 6020 B 2014	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample

CHROMIUM - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
AT005_w {1}	IND	No information	mg/l	0.01	0.04	0.14		0.5	Neutralisation	No information	Monthly	DIN EN ISO 11885DIN EN ISO 11885	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.01	0.02	0.15		0.5	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	0.028	0.08	0.15			Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Yearly	DIN EN ISO 11885 (E22), DIN EN ISO 17294-2(E29), DIN EN ISO 11885 (E22)	There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l - MESU. 1 - 0,052 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l - MESU. 1 - 0,028 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l
PT115_w {1}	IND	No information	mg/l	0.0239	0.08	0.15			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	PA 45, PA 45, W- METAXDG1	< LQ; LD= 0,08SIDVA - < LQ; LD= 0,15SIDVA - SIDVA
AT002_w {1}	IND	No information	mg/l	0.019	0.07	0.15		0.5	No information	No information	Yearly	DIN EN ISO 11885DIN EN ISO 11885	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	0.017	0.06	0.152		0.5	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	3 measurements < DL 0,01 mg/l
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0.019	0.09	0.17			No information	No information	Other	APAT IRSA -CNR 3010/A + 3020Man 29 2003	
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	0.046	0.12	0.18		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
BE008_w {1}	IND	Printing - Dyeing	mg/l	0.061	0.10	0.19		0.5	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	Self Control and taxation waste water - Self Control and taxation waste water
AT001_w {1}	IND	No information	mg/l	0.029	0.11	0.19			No information	24-hour flow proportional composite sample	No information	EN ISO 11885	control measurement local authority
PT110_w {2}	IND	Dyeing	mg/l	0.01	0.17	0.2		2	Equalisation, Grit separators, Screening	No information	Twice per year	No information	
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	0.2	0.20	0.2			No information	Other	Yearly	No information	detection limit: 0,2 mg/L - detection limit: 0,2 mg/L - detection limit: 0,2 mg/L
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	0.25	0.25	0.25		4	Equalisation	Not applicable, Grab/spot sample, Not applicable	Other	No information	Monitoring frequency: spot
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	0.07	0.13	0.26		4	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	0.024	0.18	0.27		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	0.126	0.22	0.303			No information	No information	Yearly	No information	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.03	0.08	0.33		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 3010 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	0.0084	0.33	0.4			Other	24-hour flow proportional composite sample	Twice per year	IT-DLQ-42/V03;SMEWW3111 B, 21ªed	In these monitoring the value is below level of quantification - For the second monitoring the value is below level of quantification - In these monitoring the value is below level of quantification
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	0.152	0.27	0.474	76.612		No technique used	24-hour flow proportional composite sample	No information	No information	
PT104_w {1}	IND	Dyeing - Bleaching	mg/l	0.002	0.33	0.5			No information	24-hour flow proportional composite sample	Yearly	compound sampling	
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	0.5	0.50	0.5			No information	No information	Yearly	No information	The installation only started operating in 2017.Measurement value : < 0.5 mg/L (below level of quantification). The value of uncertainty is not refered in the reports.
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	0.077	0.36	0.5		2	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	Yearly	W-METAXDG1	
IT061_w {1}	IND	Scouring - Wool Carbonising	mg/l	0.015	0.16	0.51		0.2	Other	Other	Twice per year	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - Averaging period for ELV: 3 hours; YEAR 2015
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	0.08	0.24	0.57			Screening, Oil separation, Other	No information	4 times per year	DIN EN ISO 11885/ICP-OES	
IT077_w {2}	IND	Dyeing	No unit reported	0.03	0.19	0.57		4	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.02	0.16	0.6		4	No information	Not applicable	Twice per year	EPA 6010 C 2007	Yearly - Yearly - Yearly
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	0.025	0.24	0.67		4	No technique used	Other	Twice per year	UNI EN ISO 11885:2009	
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	0.09	0.35	0.69		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT070_w {1}	IND	No information	mg/l	0.01	0.31	0.9		4	No information	Not applicable	Twice per year	EPA 6010 C 2007	
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	0.028	0.49	1.2		4	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.16	0.54	1.22		4	Equalisation	Other	4 times per year	No information	
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.11	0.73	1.58		4	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water. Cr was quantified as Cr VI - ELV is referred to 3 hours sampled waste water. Cr was quantified as Cr VI - ELV is referred to 3 hours sampled waste water. Cr was quantified as CrVI. Data related to 2015.
IT085_w {1}	IND	Dyeing	mg/l	0.42	1.11	1.8			Equalisation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.063	1.16	2.185		4	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water. Cr was quantified as Cr VI - ELV is referred to 3 hours sampled waste water. Cr was quantified as Cr VI - ELV is referred to 3 hours sampled waste water. Cr was quantified as CrVI. Data related to 2015.
UK121_w {1}	IND	Dyeing	mg/l	0.036	1.51	3.9	772.2	5	Equalisation	24-hour flow proportional composite sample	Monthly	BS 6068 Section 2.6	
UK124_w {1}	DIR	No information	mg/l	0.5	2.62	8.2			Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Twice per year	ICPMS Routine- acid digested; determined by ICPMS	
UK126_w {1}	IND	Dyeing	other (please specify in the column "additional information")	4.5	261.80	3140			No information	Flow proportional composite sample	No information	No information	The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre

NICKEL - Emissions to water

NICKEL - Emissions to water (zoom 0-0.1 mg/l)



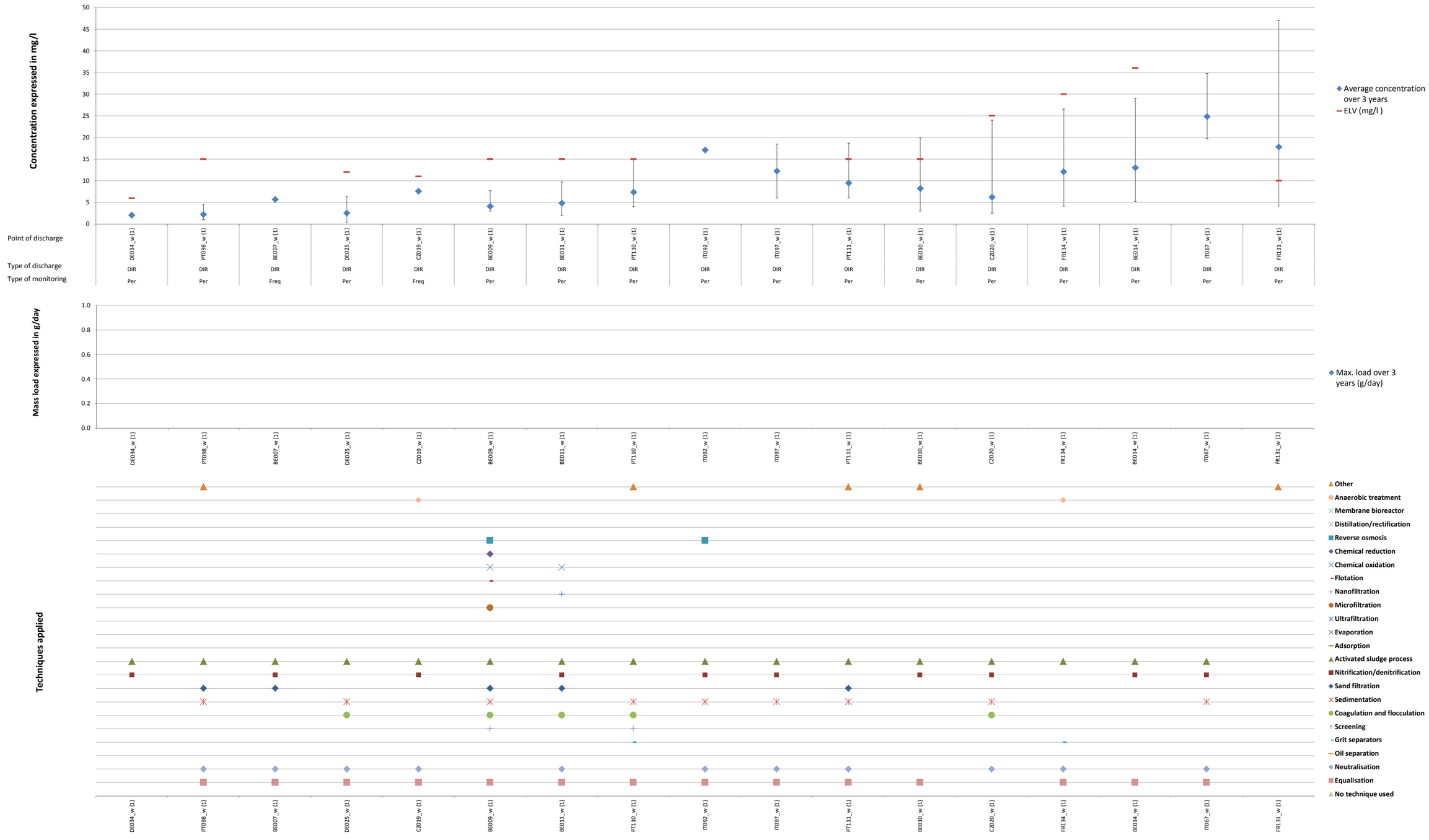
NICKEL - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0	0	0			Other	24-hour flow proportional composite sample	Monthly	NF EN ISO 11885	detection limit of the lab 5µg/L
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	0.0003	0.0014	0.0032			Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Yearly	DIN EN ISO 11885 (E22), DIN EN ISO 17294-2(E29), DIN EN ISO 11885 (E22)	MESU. 1 - 0,0032 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l - MESU. 1 - <0,0010 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l ; < LD - MESU. 1 - <0,0020 mg/l ; There is only VLE for total metals (As, Cd, Pb, Cu, Cr, Zn, Hg and Ni) - VLE 5mg/l ; < LD
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	0.00089	0.0027	0.00442		4	Other	Not applicable	Twice per year	EPA 6020 B 2014	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.005	0.01	0.005		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
IT076_w {1}	IND	Raw wool scouring	mg/l	0.005	0.01	0.005		2	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotMeasurement is inferior to detection limit: <0,005 mg/lValue refered to sampling period
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.005	0.01	0.005		2	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	EPA 6020 B 2014	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l	0.005	0.01	0.006		0.05	Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	Yearly	No information	under mesurement 2 and following,.. you find the measured values from the authority surveillance - under mesurement 2 and following,.. you find the measured values from the authority surveillance - under mesurement 2 and following,.. you find the measured values from the authority surveillance
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	0.0056	0.01	0.0064		0.5	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	6 measurements < DL (0,01 mg/l) - 3 measurements < DL (0,01 mg/l) - 3 measurements < DL (0,01 mg/l)
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.0032	0.01	0.0089		4	No technique used	Not applicable	Twice per year	EPA 6020 B 2014	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	0.004	0.01	0.009		4	No information	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
DE031_w {1}	IND	Dyeing	mg/l	0.01	0.01	0.01			No information	No information	Other	DIN EN ISO 11885DIN EN ISO 11885	3 times/year - 3 times/year - 3 times/year
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	0.005	0.01	0.01		0.5	Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0.0003	0.01		0.2	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 11885 (E22)	
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		0.01				No information	24-hour flow proportional composite sample	Twice per year	No information	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l		0.01				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	No information	No information	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l		0.01				No technique used	24-hour flow proportional composite sample	No information	No information	
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	0	0.01	0.01		4	No technique used	Other	Twice per year	UNI EN ISO 11885:2009	
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0.01	0.01	0.01			No information	No information	Other	APAT IRSA -CNR 3010/A + 3020Man 29 2003	
AT005_w {1}	IND	No information	mg/l	0.01	0.01	0.01		0.5	Neutralisation	No information	Monthly	DIN EN ISO 11885DIN EN ISO 11885	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	0.004	0.01	0.011		4	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	0.005	0.01	0.011		4	Other	Other	No information	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	mg/l	0.005	0.01	0.012		0.5	No information	Other	No information	DIN	
BE011_w {1}	DIR	Dyeing	mg/l	0.01	0.01	0.012		0.1	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	5 measurements < DL (0,01 mg/l)2 measurements < DL (0,009 mg/l)
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	0.004	0.01	0.012		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT065_w {1}	IND	No information	mg/l	0.0112	0.01	0.0129			Other	No information	Twice per year	EPA 6020B :2014 EPA 200,8 rev.5,4	analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.012	0.01	0.013			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
AT002_w {1}	IND	No information	mg/l	0	0.0009	0.013		0.5	No information	No information	Yearly	DIN EN ISO 11885DIN EN ISO 11885	
BE008_w {1}	IND	Printing - Dyeing	mg/l	0	0.01	0.015		0.5	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
FR135_w {1}	IND	Washing synthetic fibre	mg/l	0	0.01	0.016	3.088		Grit separators	24-hour flow proportional composite sample	Monthly	No information	
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	0.01	0.01	0.02		0.5	Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	0.01	0.01	0.02		4	Other	24-hour flow proportional composite sample	Twice per year	UNI EN ISO 11885:2009	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0	0.01	0.02		0.2	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/BWAC/III/B	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	0	0.01	0.02		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	0.005	0.01	0.024		0.5	Equalisation, Neutralisation	24-hour flow proportional composite sample	4 times per year	DIN	
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	0.01	0.01	0.03		0.5	Equalisation	Grab/spot sample	4 times per year	No information	
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	0.005	0.01	0.032		0.5	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	0.005	0.02	0.033			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0.03				No information	No information	Yearly	No information	
IT061_w {1}	IND	Scouring - Wool Carbonising	mg/l	0.005	0.02	0.035		4	Other	Other	Twice per year	UNI EN ISO 11885:2009	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - Averaging period for ELV: 3 hours; YEAR 2015
DE029_w {1}	IND	Dyeing	mg/l	0.02	0.02	0.04		0.5	No information	Flow proportional composite sample	4 times per year	No information	
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	0	0.02	0.05		0.5	Other	Other	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	

NICKEL - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.005	0.04	0.05		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Twice per year	APAT CNR IRSA 3020 Man 29 2003, UNI EN ISO 15587-1:2002+UNI EN ISO 11885:2009, UNI EN ISO 11885:2009	Measurements 1 is inferior to detection limit: <0,005Measurements 3 is inferior to detection limit: <0,005Value refered to sampling period - Measurements 1,3 are inferior to detection limit: <0,05Value refered to sampling period - Measurement 1,3 are inferior to detection limit: <0,05Value refered to sampling period
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	0.053	0.05	0.053		0.3	Equalisation	Not applicable, Grab/spot sample, Not applicable	Other	No information	Monitoring frequency: spot
AT001_w {1}	IND	No information	mg/l	0	0.0048	0.062		0.5	No information	24-hour flow proportional composite sample	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	5; one additional control measurement local authority
PT109_w {1}	IND	No information	mg/l	0.0654	0.07	0.0654		2	Oil separation, Neutralisation	No information	Yearly	No information	
IT070_w {1}	IND	No information	mg/l	0.01	0.04	0.07		4	No information	Not applicable	Twice per year	EPA 6010 C 2007	
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.01	0.03	0.07		4	No information	Not applicable	Twice per year	EPA 6010 C 2007	Yearly - Yearly - Yearly
PT110_w {2}	IND	Dyeing	mg/l	0.01	0.07	0.1		2	Equalisation, Grit separators, Screening	No information	Twice per year	No information	
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	0.005	0.07	0.1		2	Screening, Oil separation, Other	No information	4 times per year	DIN EN ISO 11885/ICP-OES	below level of quantification - below level of quantification - below level of quantification
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.02	0.04	0.1		4	Equalisation	Other	4 times per year	No information	
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	0.1	0.10	0.1		2	No information	Other	Yearly	No information	detection limit: 0,1 mg/L - detection limit: 0,1 mg/L - detection limit: 0,1 mg/L
PT115_w {1}	IND	No information	mg/l	0.005	0.07	0.15		2	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	SMEWW 3030 K/SMEWW 3111 B, SMEWW 3030 K/SMEWW 3111 B, W- METAXDG1	< LQ; LD= 0,04SIDVA - < LQ; LD= 0,15SIDVA - < LQ; LD= Does not exist. SIDVA
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	0.002	0.03	0.19	93.67	0.01	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN ISO 11885	mesures for water agency for calculate a fee - mesures for water agency for calculate a fee - mesures for water agency for calculate a fee
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	0.002	0.17	0.2		2	Other	24-hour flow proportional composite sample	Twice per year	IT-DLQ-42/V03;SMEWW3111 B, 21ªed	In these monitoring the value is below level of quantification - In these monitoring the value is below level of quantification - In these monitoring the value is below level of quantification
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	0.3	0.30	0.3			No information	No information	Yearly	No information	The installation only started operating in 2017.Measurement value: < 0.3 mg/L (below level of quantification). The value of uncertainty is not refered in the reports.
BE007_w {1}	DIR	Dyeing	mg/l		0.49				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	0.005	0.34	0.5		2	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	Yearly	W-METAXDG1	
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	0.00914	0.05	0.917	1823.60122	10	Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total - Toxic metals in excess of 10000ug/l either individually or in total
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.05	0.11	1		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	IRSA 3010 + 3030, EPA 3005A 1992 + EPA 6010D 2014, EPA 3005A 1992 + EPA 6010D 2014	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	0.004	0.35	2		4	No information	Other	Twice per year	UNI EN ISO 11885:2009	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
UK124_w {1}	DIR	No information	mg/l	1.74	3.18	5.62			Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Twice per year	ICPMS Routine- acid digested; determined by ICPMS	
UK126_w {1}	IND	Dyeing	other (please specify in the column "additional information")	5.61	30.90	352			No information	Flow proportional composite sample	No information	No information	The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre - The unit measurement is in microgrammes/litre

TOTAL N - Emissions to water



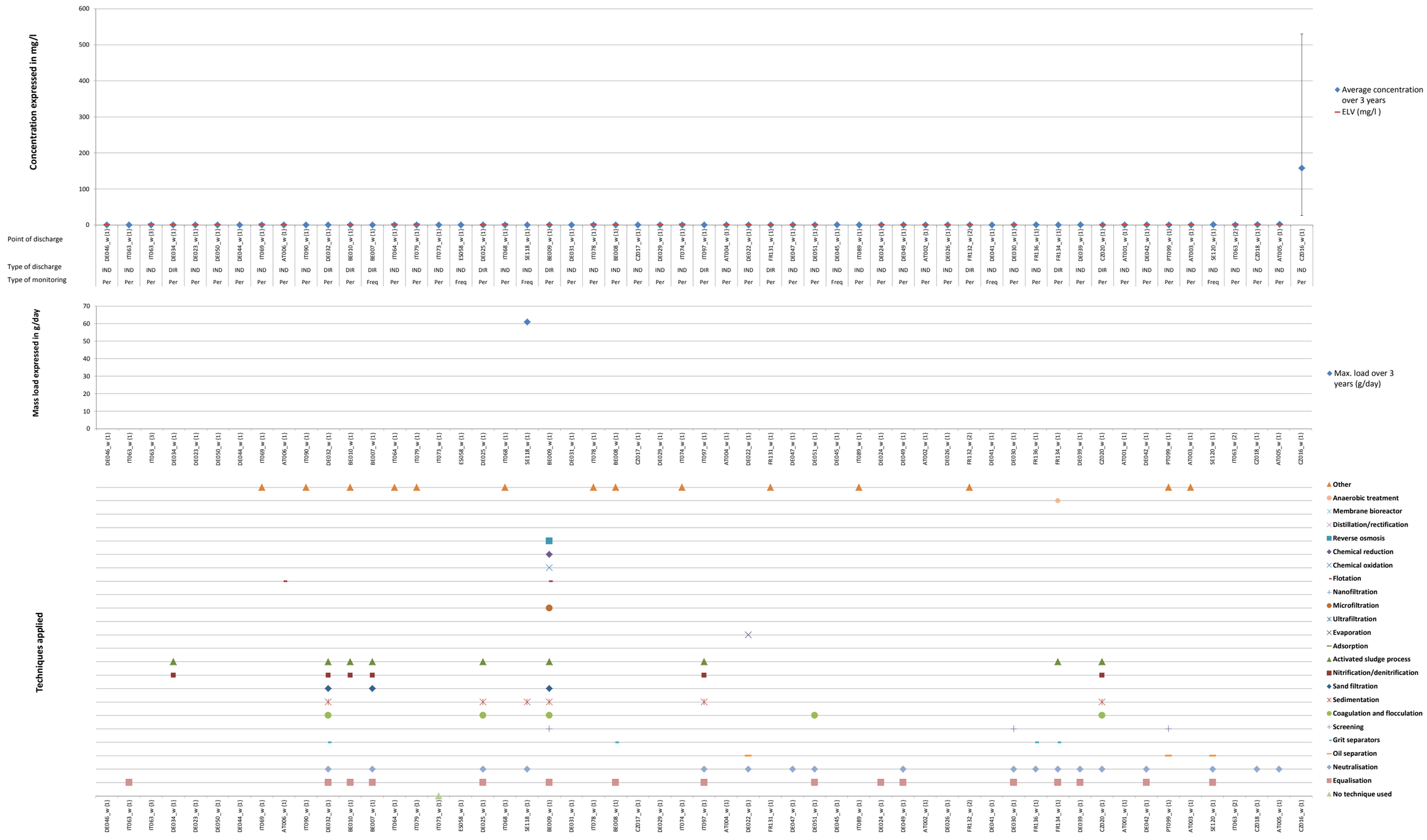
TOTAL N - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l	1.89	2.06	2.22		6	Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	qualified sample - qualified sample - qualified sample
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		3.70				No information	No information	Yearly	No information	
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	1	2.20	4.6		15	Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Yearly	POQ 14 Edição 11, PNT MA/FQ2-07(2015-09-09), PNT MA/FQ2-07(2015-09-09)	- < LD - < LD
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	1.85	3.68	5.5			Other	Not applicable	Twice per year	APAT CNR IRSA 5030 Man 29 2003	
BE007_w {1}	DIR	Dyeing	mg/l		5.70				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/D/033	
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0.39	2.52	6.42		12	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	CALCULATED	
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing	mg/l		7.60			11	Equalisation, Neutralisation, Anaerobic treatment, Nitrification/denitrification, Activated sludge process	No information	Monthly	No information	
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	3	4.11	7.7		15	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/D/033	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
BE011_w {1}	DIR	Dyeing	mg/l	2	4.85	9.7		15	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/D/033	
IT094_w {1}	IND	No information	mg/l	1.67	5.57	10.3			Other	No information	Twice per year	Determined as the sum of NH4-N, NO2-N and NO3-N	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	8.2	9.92	12.3			Other	Other	No information	INTERNAL MHETOD	
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	7.76	10.38	13			No technique used	Not applicable	Twice per year	APAT CNR IRSA 5030 Man 29 2003	
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	8	10.48	13.1			Other	24-hour flow proportional composite sample	Twice per year	Marconcini SRL internal method n. 34	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
PT110_w {1}	DIR	Dyeing	mg/l	4	7.38	15		15	Equalisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation, Activated sludge process, Other	No information	Monthly	No information	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	6.6	10.40	16	2896		No technique used	24-hour flow proportional composite sample	No information	No information	
IT092_w {1}	DIR	Dyeing - Other	mg/l	17.1	17.10	17.1			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	LCK 238	Monitoring frequency: spot
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	6	12.25	18.5			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	No information	LCK 238; UNI EN 12260:2004	Monitoring frequency: spot
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	6	9.48	18.7		15	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	4 times per year	SMEWW 4500 N	
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	3	8.24	19.9		15	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Yearly	WAC/III/D/033	
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	12.3	15.52	19.9			No technique used	Other	Twice per year	Metodo interno n°34	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	12.4	15.25	20.7			No information	Other	No information	INTERNAL MHETOD	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	3.2	10.12	20.8		100	Other	Not applicable	Twice per year	apat cnr irsa 4030 a1-a2/c-4050+5030-4020 Man 29 2003	
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	15	18.00	21			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
CZ020_w {1}	DIR	Dyeing	mg/l	2.5	6.23	24		25	Sedimentation, Nitrification/denitrification, Neutralisation, Coagulation and flocculation, Activated sludge process	No information	Monthly	specified in extern laboratory	
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	16.6	20.65	25			Other	24-hour flow proportional composite sample	Twice per year	Marconcini SRL internal method n. 34	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	4.1	12.08	26.6		30	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN 25663	
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	7.7	14.28	27.7			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	5.2	13.01	29		36	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/D/033	
BE008_w {1}	IND	Printing - Dyeing	mg/l	0.7	19.55	30.8		60	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/D/033	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	19.7	24.83	34.8			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	No information	LCK 238	
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	14	21.61	36			Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	6.9	13.72	36.8			Other	Other	No information	INTERNAL MHETOD	
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	19.7	27.88	39.6			Other	24-hour flow proportional composite sample	Twice per year	Marconcini SRL internal method n. 34	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	9	19.96	40		54	Equalisation	Other	4 times per year	No information	Authorized in derogation - Authorized in derogation - Authorized in derogation
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	6	23.02	42.4			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
BE013_w {1}	IND	Mercerising	mg/l	12.8	25.93	43.6			Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	MEIN040	sample 22.10.2015-23.10.2015
PT115_w {1}	IND	No information	mg/l	9	21.33	45			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	SMEWW 4500 N	Environmetal Permit - Environmetal Permit - Environmetal Permit
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	3.8	18.90	45	22080		Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	
AT004_w {1}	IND	Washing synthetic fibre	mg/l	22	32.55	45.3			No information	No information	Twice per year	EN 25663 (MH)	TKN; no ELV in the permit - TKN; no ELV in the permit - TKN; no ELV in the permit

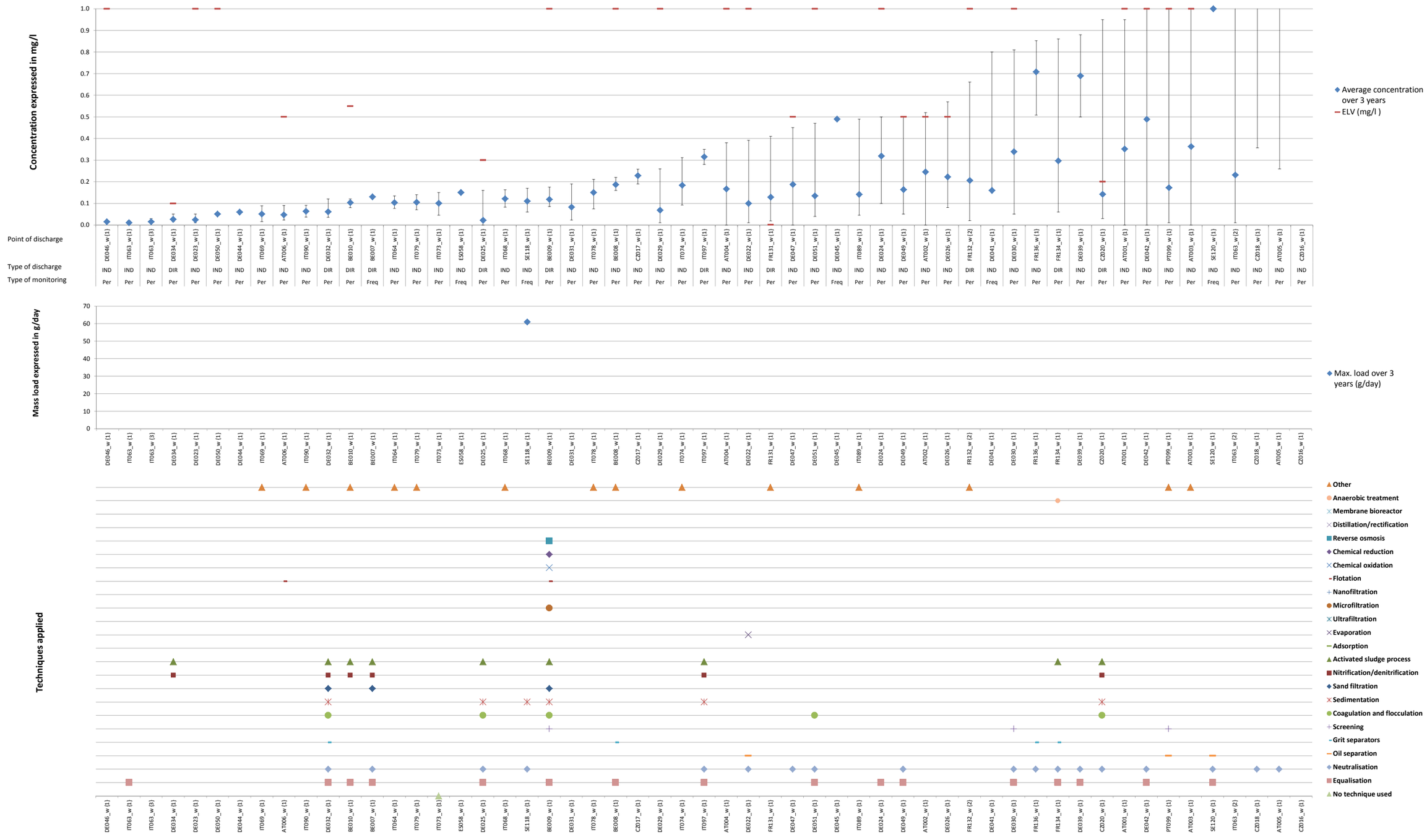
TOTAL N - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	27.9	37.38	46.1			No information	Other	Twice per year	INTERNAL METHOD	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	4.2	17.80	47		10	Other	24-hour flow proportional composite sample	Monthly	NF EN 25663	
AT005_w {1}	IND	No information	mg/l	38	44.33	49		50	Neutralisation	No information	Twice per year	DIN EN 25663DIN EN 25663DIN EN 25663	
IT065_w {1}	IND	No information	mg/l	0.1	12.85	51			Other	No information	Twice per year	ARPAT CNR IRSA4060 Man 29 2003	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		52.00				No information	24-hour flow proportional composite sample	Twice per year	No information	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	13	25.00	56	19712	25	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Three months average
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.5	14.98	60			No information	Not applicable	Twice per year	apat irsa cnr 28/2003 4060	Yearly - Yearly - Yearly
DE031_w {1}	IND	Dyeing	mg/l	18	40.72	91			No information	No information	Other	No information	
IT064_w {1}	IND	Scouring	mg/l	16.8	53.52	91			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	18.9	33.59	93.1			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	No unit reported	38	73.40	95			Equalisation	Not applicable, Grab/spot sample, Not applicable	No information	No information	
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	47.3	79.00	96			Equalisation, Neutralisation	24-hour flow proportional composite sample	Yearly	DIN	
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	70	85.53	107			No information	No information	Yearly	No information	
IT085_w {1}	IND	Dyeing	mg/l	69	93.00	110			Equalisation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant
AT002_w {1}	IND	No information	mg/l	34	61.07	120			No information	No information	No information	DIN EN 25663	
FR135_w {1}	IND	Washing synthetic fibre	mg/l	5.9	29.77	215	44720	50	Grit separators	24-hour flow proportional composite sample	Monthly	No information	
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	23	42.32	225			Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	80	143.56	233		400	Grit separators, Neutralisation	No information	No information	No information	
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	3	88.00	252	497460.6		Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Ammonia values as nitrogen - Ammonia values as nitrogen - Ammonia values as nitrogen
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	13.5	74.40	309			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage (data referring to the year 2015)
CZ015_w {1}	IND	Dyeing - Functional finishing	mg/l	206	303.50	474			Grit separators, Equalisation, Sedimentation	Flow proportional composite sample	4 times per year	No information	
CZ016_w {1}	IND	Shrink-proof finishing	mg/l	211.1	998.41	2791			No information	Flow proportional composite sample	Monthly	No information	

AOX - Emissions to water



AOX - Emissions to water (zoom 0-1 mg/l)



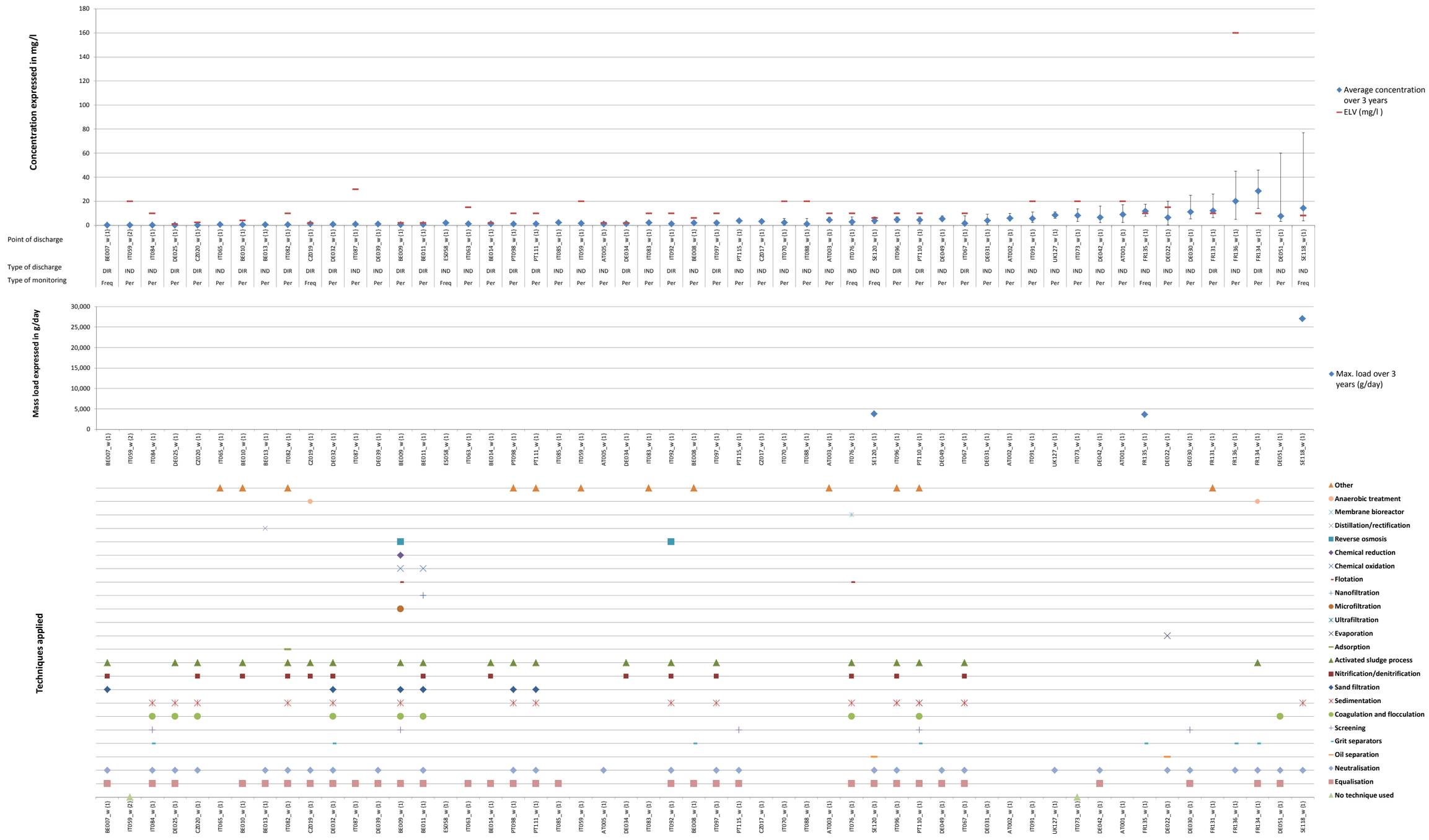
AOX - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE046_w {1}	IND	Washing synthetic fibre - Dyeing	mg/l	0.015	0.015	0.015		1	No information	No information	No information	No information	- qualified sample -
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.01	0.01	0.02			Equalisation	Other	4 times per year	No information	
IT063_w {3}	IND	Dry cleaning	mg/l	0.01	0.02	0.03		2	No information	No information	4 times per year	No information	
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l	0.015	0.03	0.05		0.1	Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	Yearly	No information	under mesurement 2,3,.. you find the measured values from the authority surveillance - under mesurement 2,3,.. you find the measured values from the authority surveillance - under mesurement 2,3,.. you find the measured values from the authority surveillance
DE023_w {1}	IND	Washing synthetic fibre - Mercerising - Bleaching - Dyeing	mg/l	0.01	0.02	0.05		1	No information	No information	No information	No information	
DE050_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	0.051	0.051	0.051		1	No information	No information	Once every 3 years	No information	
DE044_w {1}	IND	Desizing - Mercerising - Bleaching - Dyeing	mg/l	0.06	0.06	0.06			No information	24-hour flow proportional composite sample	Twice per year	No information	
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	0.016	0.05	0.089		2	Other	Other	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	Averaging period for ELV: 3 hours; (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours; (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours; (researched parameter: chlorinated solvents, data referring to the year 2015)
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	0.023	0.05	0.09		0.5	Flotation	No information	Yearly	EN ISO 9562:2004	
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.036	0.06	0.091			Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	0.035	0.06	0.12			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	0.08	0.10	0.12		0.55	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	
BE007_w {1}	DIR	Dyeing	mg/l		0.13				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	No information	
IT064_w {1}	IND	Scouring	mg/l	0.077	0.10	0.134		2	Other	Other	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents)
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	0.07	0.11	0.14		2	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	0.045	0.10	0.15			No technique used	Other	Twice per year	ARPAT CNR IRSA 5150 MAN 29 2003	
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0.15				No information	No information	4 times per year	No information	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	No unit reported	0.033	0.06	0.158		1	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/B/11	
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0.02	0.16		0.3	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 9562 (H14)	
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	0.082	0.12	0.163		2	Other	Other	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents data referring to the year 2015)
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	0.06	0.11	0.17	61.03		Sedimentation, Neutralisation	24-hour flow proportional composite sample	4 times per year	No information	
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0.085	0.12	0.175		1	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/IV/B/011	
DE031_w {1}	IND	Dyeing	mg/l	0.023	0.08	0.19			No information	No information	Other	DIN EN ISO9562	3 times/year - 3 times/year - 3 times/year
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	0.075	0.15	0.211		2	Other	Other	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents)
BE008_w {1}	IND	Printing - Dyeing	mg/l	0.16	0.19	0.22		1	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/IV/B/011	
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	0.19	0.23	0.258			No information	No information	Yearly	No information	
DE029_w {1}	IND	Dyeing	mg/l	0.01	0.07	0.26		1	No information	Flow proportional composite sample	4 times per year	No information	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	0.092	0.18	0.312		2	Other	Other	No information	APAT CNR IRSA 5150 MAN 29 2003	Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) - Averaging period for ELV: 3 hours (researched parameter: chlorinated solvents) (YEAR 2015)
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.28	0.32	0.35			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	No information	ISO 9562:2004	
BE011_w {1}	DIR	Dyeing	No unit reported	0.08	0.17	0.38		1	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/B/011	most measurements result with matrix interference
AT004_w {1}	IND	Washing synthetic fibre	mg/l	0	0.17	0.38		1	No information	No information	Twice per year	EN ISO 9562:2004 (MH)	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.01	0.10	0.391		1	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	0.019	0.13	0.41		0.001	Other	24-hour flow proportional composite sample	Monthly	NF EN ISO 9562	
DE047_w {1}	IND	Desizing - Mercerising - Bleaching - Dyeing - Functional finishing	mg/l	0	0.19	0.451		0.5	Neutralisation	24-hour flow proportional composite sample	4 times per year	No information	

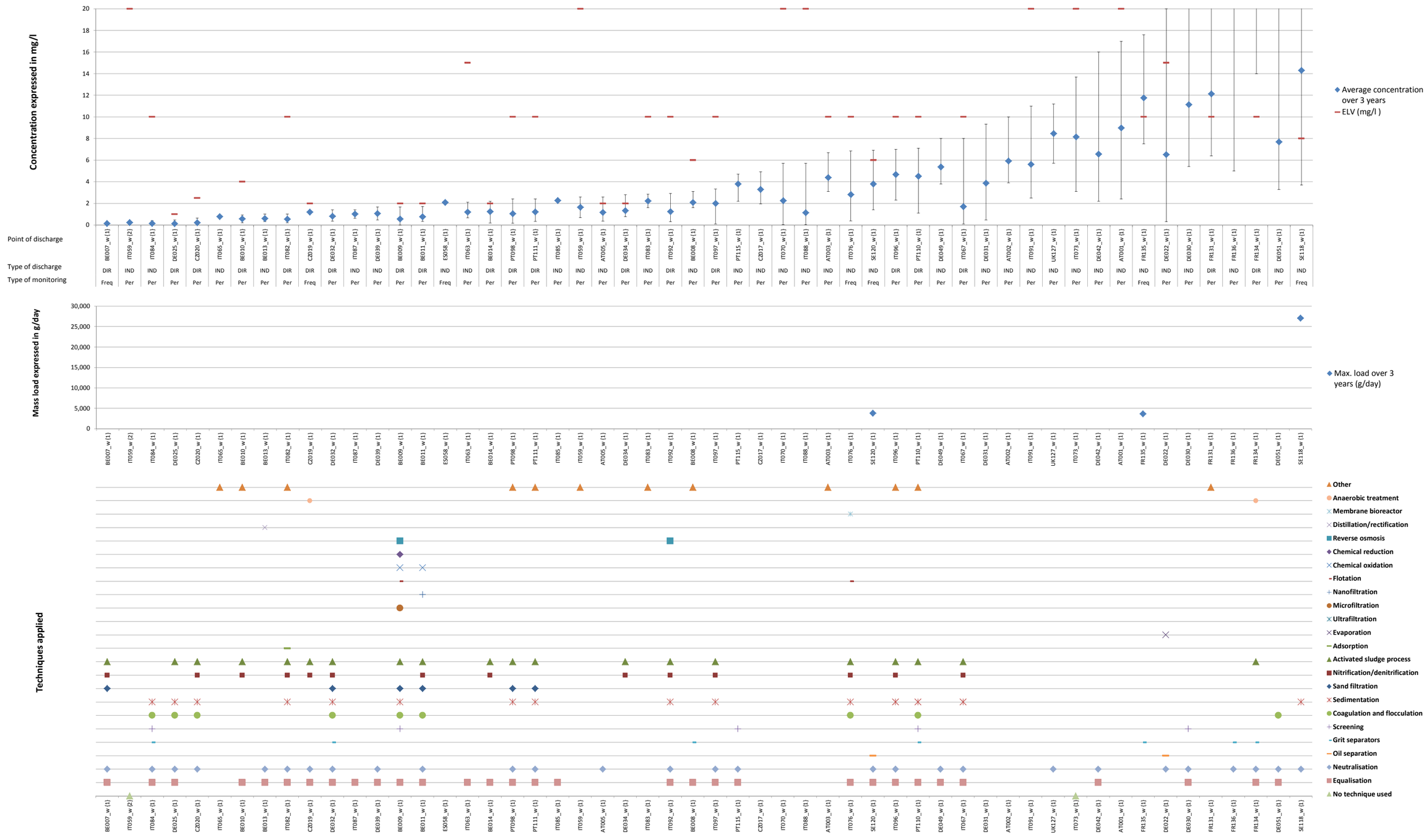
AOX - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	0.04	0.14	0.47		1	Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		0.49				No information	24-hour flow proportional composite sample	Twice per year	No information	
IT065_w {1}	IND	No information	No unit reported	0.19	0.34	0.49			Other	No information	Twice per year	ISO 9562:2004	analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	0.045	0.14	0.49			Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 5150 MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	0.1	0.32	0.5		1	Equalisation	Grab/spot sample	4 times per year	No information	
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	0.05	0.16	0.5		0.5	Equalisation, Neutralisation	24-hour flow proportional composite sample	4 times per year	DIN	
AT002_w {1}	IND	No information	mg/l	0	0.25	0.52		0.5	No information	No information	Yearly	ÖNORM EN ISO 9562	- compliance and selfmonitoring - compliance and selfmonitoring
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	mg/l	0.081	0.22	0.57		0.5	No information	Other	No information	DIN	acc. To our permit
FR132_w {2}	DIR	Bleaching - Dyeing	mg/l	0.02	0.21	0.661		1	Other	Grab/spot sample	No information	No information	
DE041_w {1}	IND	Desizing - Bleaching - Dyeing	mg/l	0.15	0.16	0.8			No information	No information	Monthly	No information	
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	0.05	0.34	0.81		1	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	0.509	0.71	0.853			Grit separators, Neutralisation	No information	No information	No information	
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	0.06	0.30	0.86			Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	NF EN ISO 9562	mesures for water agency for calculate a fee - mesures for water agency for calculate a fee - mesures for water agency for calculate a fee
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.5	0.69	0.88			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
CZ020_w {1}	DIR	Dyeing	mg/l	0.03	0.14	0.95		0.2	Sedimentation, Nitrification/denitrification, Neutralisation, Coagulation and flocculation, Activated sludge process	No information	Monthly	specified in extern laboratory	
AT001_w {1}	IND	No information	mg/l	0	0.35	0.95		1	No information	24-hour flow proportional composite sample	4 times per year	ÖNORM EN ISO 9562	5; one additional control measurement local authority
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	0	0.49	1		1	Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	0.01	0.17	1		1	Screening, Oil separation, Other	No information	4 times per year	EN ISO 9562/-	
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	0	0.36	1		1	Other	Other	4 times per year	ÖMORM EN ISO 9562	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l		1.00				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	No information	No information	
IT063_w {2}	IND	Dry cleaning	mg/l	0.01	0.23	1.64		2	No information	No information	4 times per year	No information	
CZ018_w {1}	IND	Desizing - Functional finishing - Dyeing - Fabric production	mg/l	0.357	1.22	1.85		1.5	Neutralisation	24-hour flow proportional composite sample	Other	No information	monitoring 6 per year - monitoring 6 per year - monitoring 6 per year
AT005_w {1}	IND	No information	mg/l	0.26	1.88	7.4		2.5	Neutralisation	No information	Monthly	ÖNORM EN ISO 9562	
BE013_w {1}	IND	Mercerising	No unit reported	20	20.00	20			Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	No information	
CZ016_w {1}	IND	Shrink-proof finishing	mg/l	26	158.12	530			No information	Flow proportional composite sample	Monthly	No information	

TOTAL P - Emissions to water



TOTAL P - Emissions to water (zoom 0-20 mg/l)



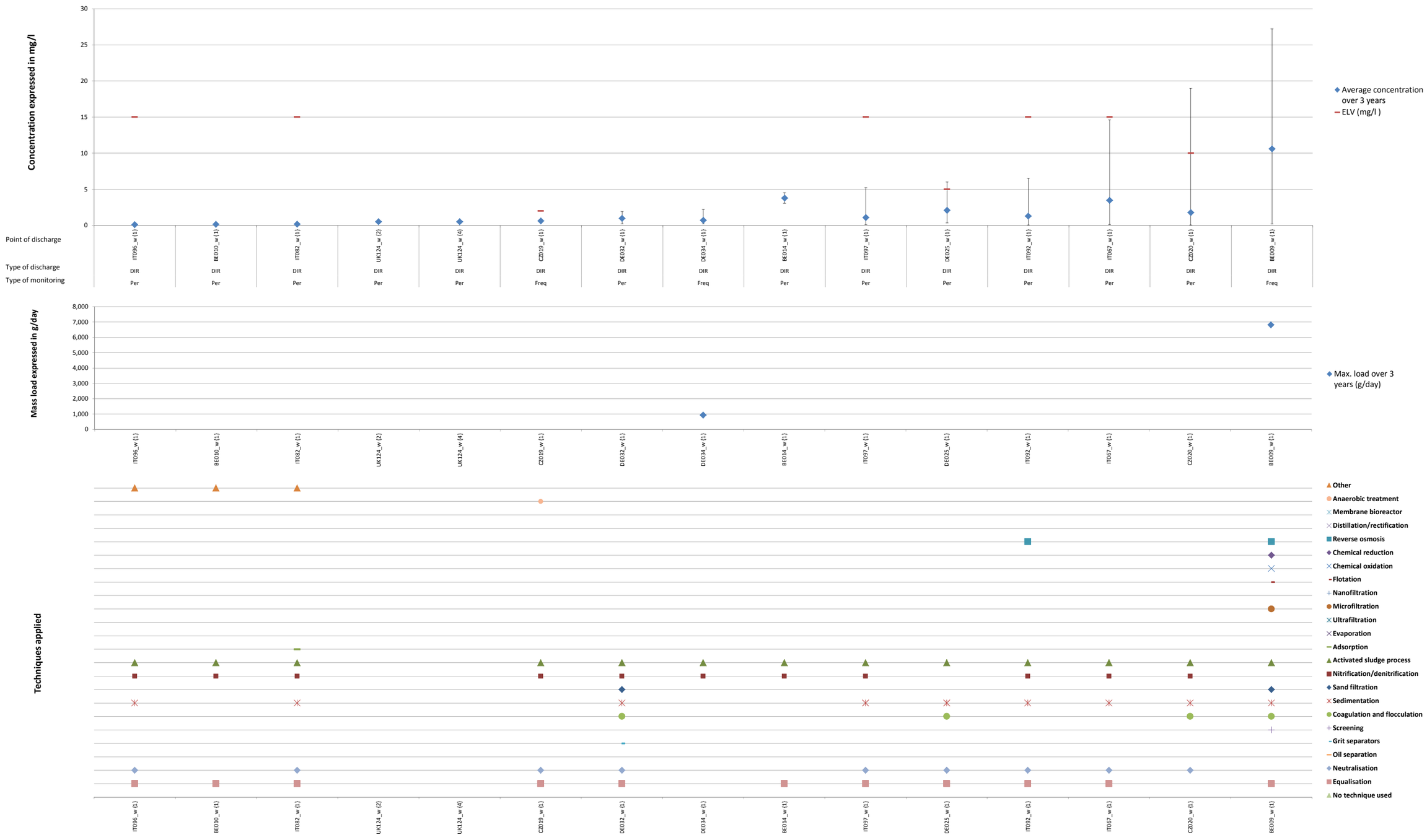
TOTAL P - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
BE007_w {1}	DIR	Dyeing	mg/l		0.14				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.219	0.23	0.239		20	No technique used	Not applicable	Twice per year	APAT CNR IRSA 5030 Man 29 2003	
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.1	0.13	0.4		10	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	ALPHA St. Mth. For the Examination of water snd wastewater ed 23 rd 2017, 4500-P B + 4500 P E	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0.13	0.47		1	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 6878 (D11):2004-2005-2006	
CZ020_w {1}	DIR	Dyeing	mg/l	0.08	0.21	0.65		2.5	Sedimentation, Nitrification/denitrification, Neutralisation, Coagulation and flocculation, Activated sludge process	No information	Monthly	specified in extern laboratory	
IT065_w {1}	IND	No information	mg/l	0.75	0.78	0.8			Other	No information	Twice per year	ISO 6878:2004	Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	0.2	0.57	0.91		4	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Yearly	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
BE013_w {1}	IND	Mercerising	mg/l	0.3	0.60	1			Distillation/rectification, Equalisation, Neutralisation	Flow proportional composite sample	Yearly	MEIN039	sample 22.10.2015-23.10.2015
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0.198	0.53	1		10	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	Yearly	IRSA 4110-A2:2003, IRSA 4110-A2:2003, IRSA 3010 +3020*	
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing	mg/l		1.20			2	Equalisation, Neutralisation, Anaerobic treatment, Nitrification/denitrification, Activated sludge process	No information	Monthly	No information	
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	0.35	0.81	1.4			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	0.62	1.01	1.4		30	Equalisation	Not applicable, Grab/spot sample, Not applicable	Other	No information	Monitoring frequency: spot
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.47	1.07	1.66			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0	0.56	1.67		2	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/C/010	Less than 12/year flow proportionate sampling, >12/year are grab sample results. Value 0 means results beneath detection limit of analyses
BE011_w {1}	DIR	Dyeing	mg/l	0.33	0.77	1.7		2	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		2.09				No information	No information	4 times per year	No information	
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.66	1.20	2.1		15	Equalisation	Other	4 times per year	No information	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	0.18	1.24	2.2		2	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
PT098_w {1}	DIR	Wool Fulling - Functional finishing - Dyeing - Thermal treatment	mg/l	0.15	1.05	2.4		10	Equalisation, Neutralisation, Sedimentation, Sand filtration, Activated sludge process, Other	No information	Yearly	POQ 15 Edição 10, W-PTOT-SPC, PNT-MA/FQ2-09(2017-03-20)	- MESU.1 - 0,601 mg/l - < LD
PT111_w {1}	DIR	Desizing - Dyeing - Fabric production - Wool Fulling - Functional finishing - Shrink-proof finishing - Dry cleaning - Thermal treatment	mg/l	0.33	1.20	2.4		10	Equalisation, Neutralisation, Activated sludge process, Sedimentation, Sand filtration, Other	No information	4 times per year	SMEWW 4500 P	
IT085_w {1}	IND	Dyeing	mg/l	2.1	2.27	2.4			Equalisation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	0.68	1.64	2.59		20	Other	Not applicable	Twice per year	APAT CNR IRSA 5030 Man 29 2003	
AT005_w {1}	IND	No information	mg/l	0.37	1.17	2.6		2	Neutralisation	No information	Twice per year	DIN EN ISO 11885DIN EN ISO 11885	
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l	0.76	1.33	2.8		2	Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	under mesurement 1,.. you find the measured values from the authority surveillance - under mesurement 1,.. you find the measured values from the authority surveillance - under mesurement 1,.. you find the measured values from the authority surveillance
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	1.6	2.23	2.85		10	Other	Not applicable	Twice per year	APAT CNR IRSA 3010 Man 29 2003+APAT CNR IRSA 3020 Man 29 2003	
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.3	1.24	2.9		10	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	IRSA 3010+3020:2003, EPA 3005A 1992 + EPA 6010D 2014, EPA 3005A 1992 + EPA 6010D 2014	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
BE008_w {1}	IND	Printing - Dyeing	mg/l	1.6	2.09	3.1		6	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/III/B011 of WAC/III/B010- WAC/III/B002	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.1	1.99	3.32		10	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003, IRSA 4110/A2, IRSA 4110/A2	Monitoring frequency: once every 4 monthsValue refered to sampling periodMeasurement 2 is inferior to detection limit: <0,1 - Monitoring frequency: once every 4 monthsValue refered to sampling period - Monitoring frequency: once every 4 monthsValue refered to sampling period
PT115_w {1}	IND	No information	mg/l	2.2	3.80	4.7			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	SMEWW 4500 P	Environmetal Permit - Environmetal Permit - Environmetal Permit
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	1.95	3.29	4.93			No information	No information	Yearly	No information	
IT070_w {1}	IND	No information	mg/l	0.03	2.26	5.7		20	No information	Not applicable	Twice per year	APAT-IRSA CNR 29-2003 4110	
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.03	1.13	5.7		20	No information	Not applicable	Twice per year	apat irsa cnr 29/2003 4110	Yearly - Yearly - Yearly
AT003_w {1}	IND	Mercerising - Dyeing - Desizing - Bleaching	mg/l	3.1	4.39	6.7		10	Other	Other	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	
IT076_w {1}	IND	Raw wool scouring	mg/l	0.38	2.81	6.85		10	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Weekly	EPA 3005A 1992 + EPA 6010D 2014; IRSA 4110/A2	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	1.4	3.80	6.9	3808.8	6	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quartely
IT096_w {1}	DIR	Dyeing - Other	mg/l	2.3	4.67	7		10	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	APAT CNR IRSA 4110/A2 Man 29 2003, APAT CNR IRSA 4110/A2 Man 29 2003, APAT CNR IRSA 3020 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
PT110_w {1}	DIR	Dyeing	mg/l	1.1	4.50	7.1		10	Equalisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation, Activated sludge process, Other	No information	Monthly	No information	
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	3.8	5.37	8			Equalisation, Neutralisation	24-hour flow proportional composite sample	Yearly	DIN	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.1	1.70	8		10	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 3020 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
DE031_w {1}	IND	Dyeing	mg/l	0.47	3.87	9.32			No information	No information	Other	DIN EN ISO 6878	3 tests/year - 3 tests/year - 3 tests/year

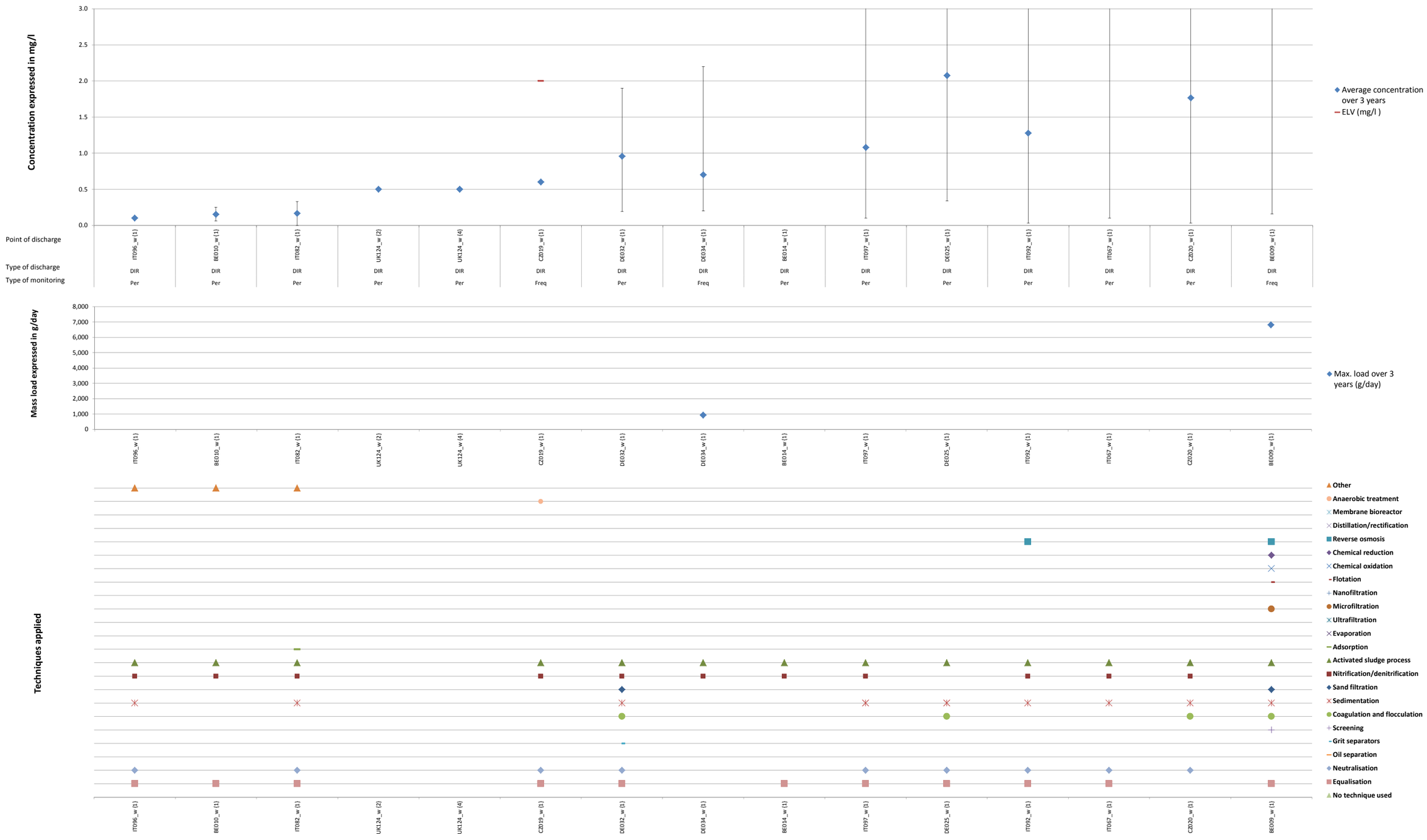
TOTAL P - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
AT002_w {1}	IND	No information	mg/l	3.9	5.91	10			No information	No information	No information	DIN EN ISO 11885	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	2.5	5.60	11		20	No information	Other	No information	INTERNAL MHETOD	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	mg/l	5.71	8.46	11.2			Neutralisation	24-hour flow proportional composite sample	No information	No information	
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	3.1	8.15	13.7		20	No technique used	Other	Twice per year	Metodo interno n°33	
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	2.2	6.56	16			Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	No unit reported	3.2	5.40	17			No technique used	24-hour flow proportional composite sample	No information	No information	
AT001_w {1}	IND	No information	mg/l	2.4	8.98	17		20	No information	24-hour flow proportional composite sample	4 times per year	DIN EN ISO 11885DIN EN ISO 11885	5; one additional control measurement local authority
FR135_w {1}	IND	Washing synthetic fibre	mg/l	7.5	11.76	17.6	3660.8	10	Grit separators	24-hour flow proportional composite sample	Monthly	No information	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.31	6.51	20		15	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	5.4	11.14	25			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	mg/l	6.4	12.12	26		10	Other	24-hour flow proportional composite sample	Monthly	NF EN ISO 11885	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	5	20.17	45		160	Grit separators, Neutralisation	No information	No information	No information	
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	mg/l	14	28.50	46		10	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	No information	
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	3.3	7.68	60			Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	3.7	14.30	77	27104	8	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Weekly	No information	Limit on yearly basis: 6 kg/dayriktvärde: 8 mg/l three months average

NH_4-N - Emissions to water



NH_4-N - Emissions to water (zoom 0-3 mg/l)



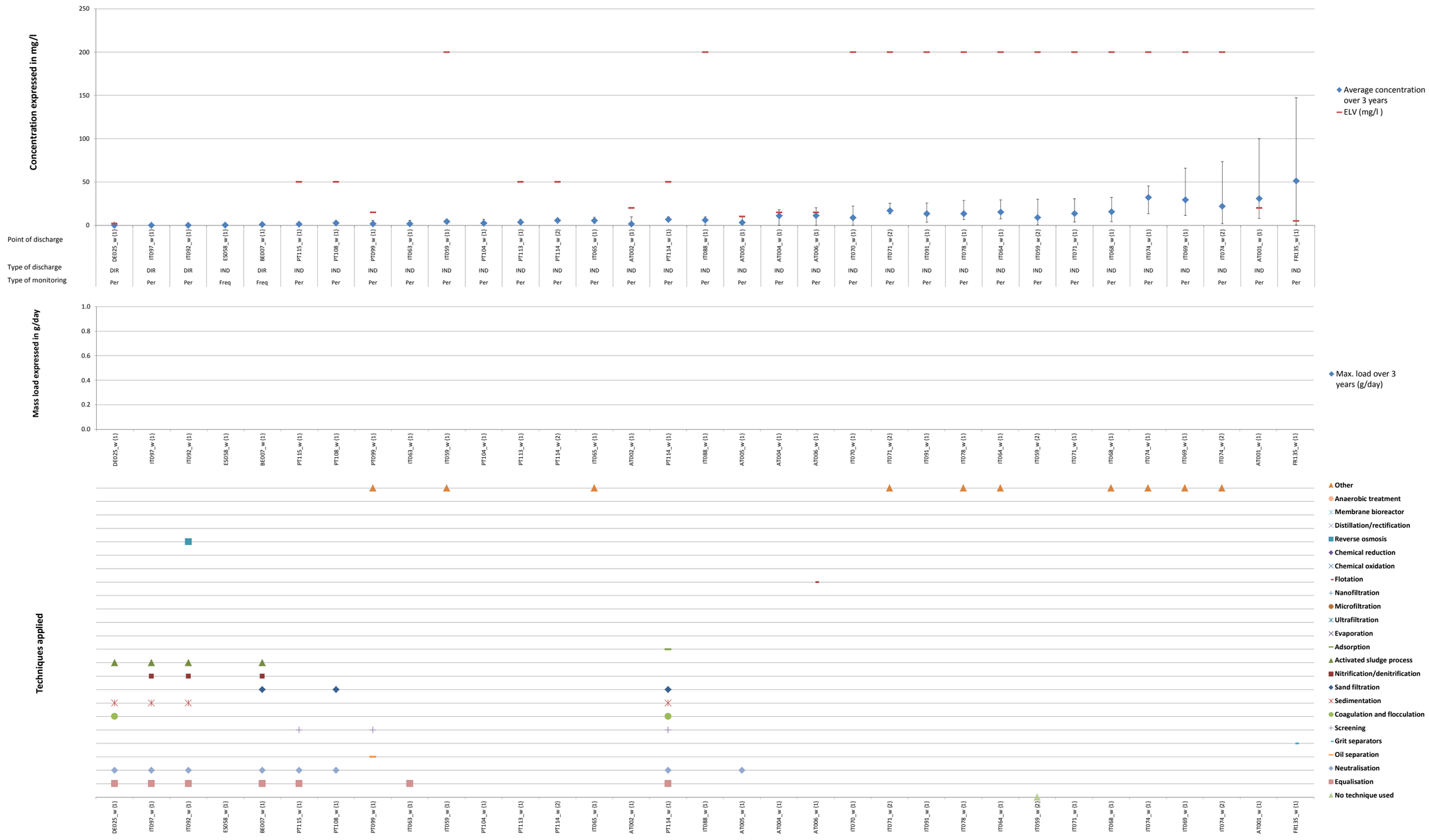
NH_4-N - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	0.1	0.10	0.1		100	Other	Not applicable	Twice per year	APAT CNR IRSA 5030 Man 29 2003	
IT096_w {1}	DIR	Dyeing - Other	mg/l	0.1	0.10	0.1		15	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	APAT CNR IRSA 3030 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
PT114_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Desizing - Scouring - Bleaching - - Thermal treatment - Dry cleaning	mg/l	0.04	0.09	0.19		100	Equalisation, Neutralisation, Screening, Coagulation and flocculation, Sedimentation, Sand filtration, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.)	No information	Yearly	No information	
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	0.06	0.15	0.25			EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	mg/l	0	0.17	0.33		15	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	4 times per year	IRSA 4030-A1:2003	
UK124_w {2}	DIR	No information	mg/l	0.5	0.50	0.5			No information	No information	Monthly	nutrients - determined colourimetrically by autoanalyser	Each of the values reported as <0.5
UK124_w {4}	DIR	No information	mg/l	0.5	0.50	0.5			No information	No information	Yearly	nutrients - determined colourimetrically by autoanalyser	All values reported as <0.5 - All values reported as <0.5 - All values reported as <0.5
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing	mg/l		0.60			2	Equalisation, Neutralisation, Anaerobic treatment, Nitrification/denitrification, Activated sludge process	No information	Monthly	No information	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	0.2	0.50	0.9		100	Other	Other	No information	APAT CNR IRSA 4030 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	mg/l	0.1	0.58	1.4		100	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	0.1	0.60	1.5		100	Other	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	0.19	0.96	1.9			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Twice per year	No information	
IT094_w {1}	IND	No information	mg/l	0.27	0.91	2			Other	No information	Twice per year	APAT IRSA 5030 Volume 2:2003	
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	mg/l	0.2	0.70	2.2	939.4		Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	- qualified sample -
IT070_w {1}	IND	No information	mg/l	0.06	1.81	3.1		100	No information	Not applicable	Twice per year	APAT-IRSA CNR 29-2003 4030	
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	0.8	1.88	3.3		100	No information	Other	No information	APAT CNR IRSA 4030 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	0.39	1.59	3.7			Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
DE045_w {1}	IND	Washing synthetic fibre - Desizing - Desizing	mg/l		3.90				No information	24-hour flow proportional composite sample	Twice per year	No information	
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.1	2.05	4		100	No technique used	Not applicable	Twice per year	APAT CNR IRSA 5030 Man 29 2003	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	3.06	3.77	4.51			Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	No information	
IT073_w {1}	IND	Dyeing - Functional finishing	mg/l	1.4	2.83	4.8		100	No technique used	Other	Twice per year	ARPAT CNR IRSA 4030 MAN 29 2003	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.1	1.08	5.2		15	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3030 Man 29 2003, IRSA 4030/C, IRSA 4030/C	Monitoring frequency: once every 4 monthsValue refered to sampling period - Monitoring frequency: once every 4 monthsValue refered to sampling periodMeasurements 1,2,3 are inferior to detection limit: <0,5 - Monitoring frequency: once every 4 monthsValue refered to sampling periodMeasurements 2,3 are inferior to detection limit: <0,5
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	0.5	2.37	5.2		30	Other	Not applicable	Twice per year	APAT CNR IRSA 4030 A2/C Man 29 2003	
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	5.8	5.80	5.8			No information	No information	Yearly	No information	The installation only started operating in 2017.The value of uncertainty is not refered in the reports.
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	No unit reported	0.5	2.37	5.8		100	No information	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0.34	2.08	6		5	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN ISO 11732 (E23)	
PT109_w {1}	IND	No information	mg/l	6	6.00	6		100	Oil separation, Neutralisation	No information	Yearly	No information	
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.03	1.28	6.5		15	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	EPA 350.1 1993	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	4.49	5.39	6.76		100	No information	Other	Yearly	No information	
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	0.1	2.92	6.8		100	Other	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	0.1	1.62	7		100	Other	Other	No information	APAT CNR IRSA 4030 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		7.13				No information	No information	4 times per year	No information	
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	mg/l	2.2	4.65	9.1		100	Other	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT077_w {2}	IND	Dyeing	No unit reported	0.1	2.43	9.3		100	No information	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	1	5.92	11		30	Equalisation	Other	4 times per year	No information	
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.06	3.16	12		15	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	APAT CNR IRSA 4030 A2 Man. 29 2003	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	1.1	3.38	12.7		100	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.1	2.95	13.2		100	No information	Not applicable	Twice per year	apat irsa cnr 29/2003 4030	Yearly - Yearly - Yearly
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.1	3.46	14.6		15	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 3030 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
CZ020_w {1}	DIR	Dyeing	mg/l	0.03	1.77	19		10	Sedimentation, Nitrification/denitrification, Neutralisation, Coagulation and flocculation, Activated sludge process	No information	Monthly	specified in extern laboratory	
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	mg/l	1.6	11.32	23.5		100	Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water - ELV is referred to 3 hours sampled waste water. Data related to 2015.

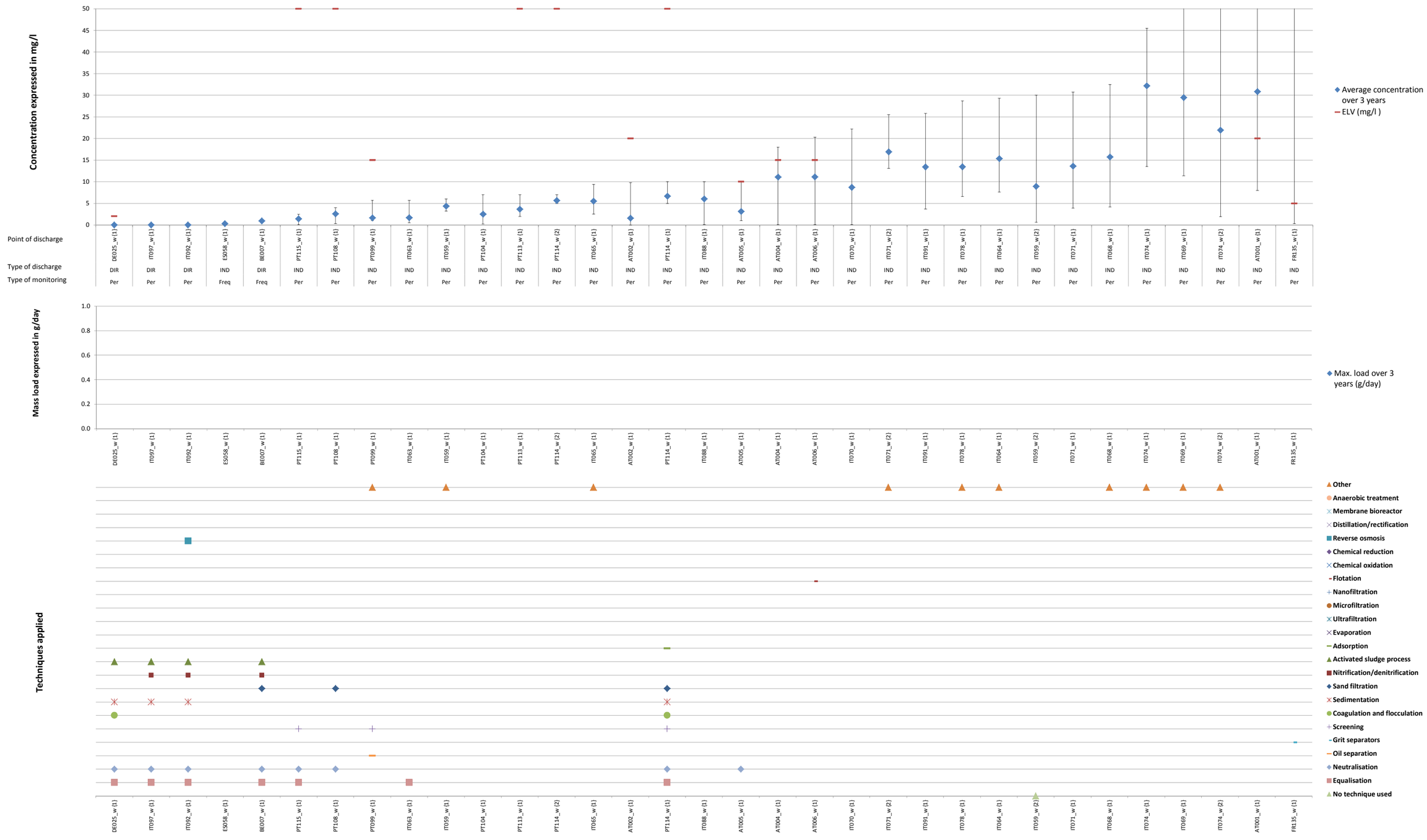
NH_4-N - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	0.16	10.59	27.2	6816.4016		Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	No information	
IT064_w {1}	IND	Scouring	mg/l	6.8	12.68	28.5		100	Other	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT076_w {1}	IND	Raw wool scouring	mg/l	1.2	4.70	32.6		200	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Weekly	ARPAT CNR IRSA 4030 MAN 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	1.1	12.37	33.7		100	Other	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	17	23.83	35		100	No information	Other	Twice per year	APAT CNR IRSA 4030 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
PT110_w {2}	IND	Dyeing	mg/l	0.15	4.26	38		100	Equalisation, Grit separators, Screening	No information	4 times per year	No information	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	0.82	10.40	42	14784		Sedimentation, Neutralisation	24-hour flow proportional composite sample	Weekly	No information	
IT065_w {1}	IND	No information	mg/l	0.1	8.88	52			Other	No information	Twice per year	ARPAT CNR IRSA 4030 a2 Man 29 2003	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	mg/l	32	56.25	82.6		70.9	Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT075_w {1}	IND	Raw wool scouring	mg/l	0.09	23.84	106		80	Equalisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant
IT085_w {1}	IND	Dyeing	mg/l	82	91.45	115			Equalisation	Not applicable	Other	EPA 350,1 1993	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	0.2	925.00	25	12275		Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	

HYDROCARBON OIL INDEX - Emissions to water



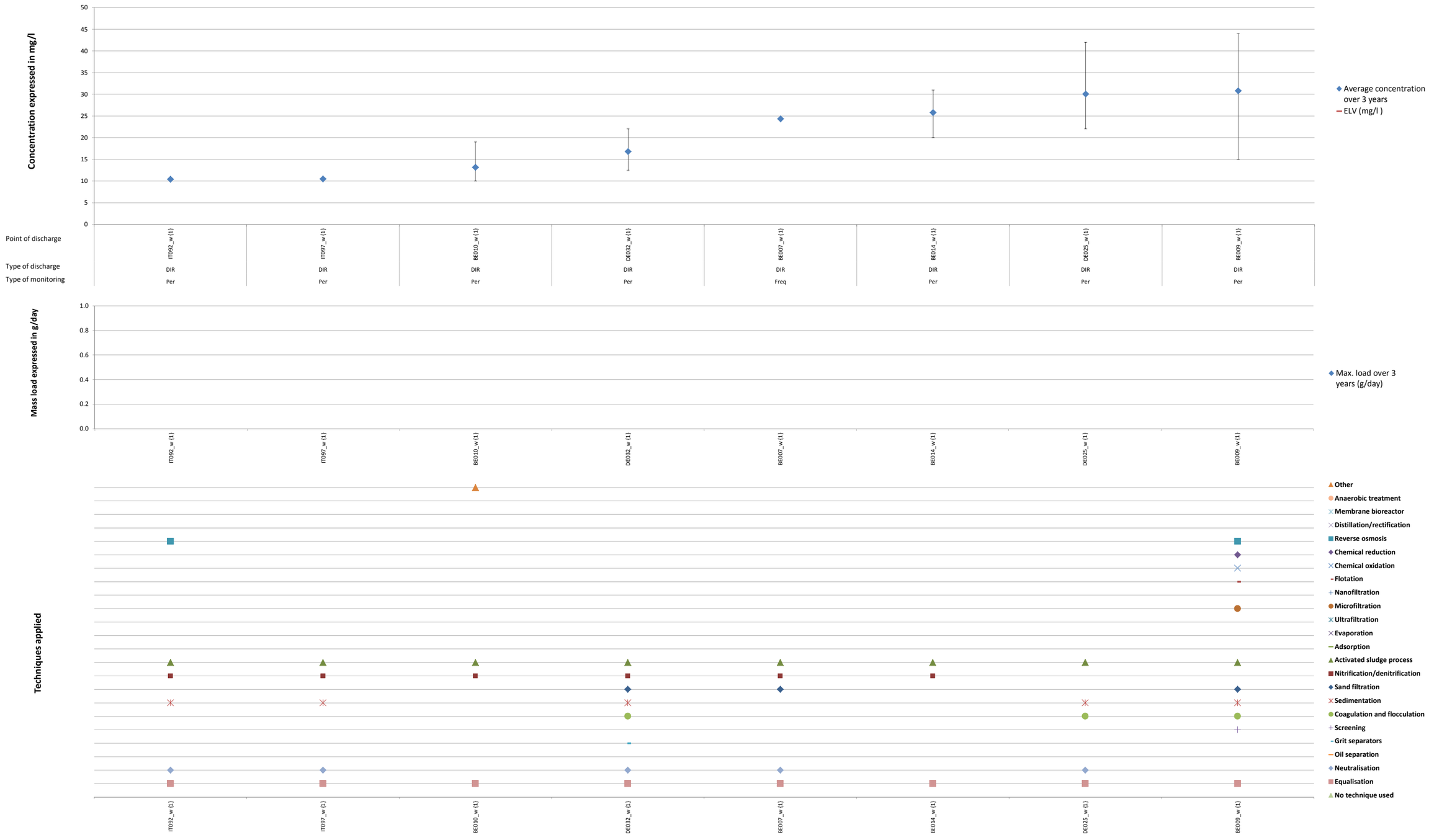
HYDROCARBON OIL INDEX - Emissions to water (zoom 0-50 mg/l)



HYDROCARBON OIL INDEX - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0	0		2	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Other	DO-H53-1	measured by regulating authority as required - measured by regulating authority as required - measured by regulating authority as required
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.03	0.03	0.03			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	UNI EN ISO 9377-2:2002	Monitoring frequency: spotValue measured inferior to detection limit: < 0,030mg/l
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.03	0.03	0.03			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	UNI EN ISO 9377-2:2002	Monitoring frequency: spotMeasurement 1 is inferior to detection limit: <0,030 mg/l
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0.32				No information	No information	4 times per year	No information	
BE007_w {1}	DIR	Dyeing	mg/l		0.93				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	No information	
PT115_w {1}	IND	No information	mg/l	0.04	1.41	2.48		50	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	PA 69	SIDVA - < LQ; LD= 0,04SIDVA - SIDVA
PT108_w {1}	IND	Fabric production - Fabric production	mg/l	0.3	2.58	4		50	Neutralisation, Sand filtration, Sand filtration	24-hour flow proportional composite sample	Yearly	Non-infrared spectrometry after extraction with suitable solvents; Gravimetry after extraction with suitable solvents	annual measurement - annual measurement - annual measurement
PT099_w {1}	IND	Dyeing - Printing - Functional finishing	mg/l	1	1.64	5.7		15	Screening, Oil separation, Other	No information	4 times per year	Standard Methods 5520F, 23rd Ed./FT-IR	below level of quantification - below level of quantification - below level of quantification
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	mg/l	0.5	1.69	5.7			Equalisation	Other	4 times per year	No information	
IT059_w {1}	IND	Scouring - Mercerising - Bleaching - Dyeing - Singeing - Dry cleaning	mg/l	3.2	4.37	6		200	Other	Not applicable	Twice per year	APAT CNR IRSA 5160 A1/A2 Man 29 2003	
PT104_w {1}	IND	Dyeing - Bleaching	mg/l	0.23	2.51	7			No information	24-hour flow proportional composite sample	Yearly	compound sampling	total hydrocarbons without oil - total hydrocarbons without oil - total hydrocarbons without oil
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	mg/l	2	3.67	7		50	No information	Other	Yearly	No information	- detection limit: 2 mg/L - detection limit: 2 mg/L
PT114_w {2}	IND	No information	mg/l	5	5.67	7		50	No information	No information	Yearly	No information	
IT065_w {1}	IND	No information	mg/l	2.5	5.53	9.4			Other	No information	Twice per year	UNI EN ISO 9377-2:2002	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law,and other analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
AT002_w {1}	IND	No information	mg/l	0	1.56	9.8		20	No information	No information	Twice per year	ÖNORM EN ISO 9377-2	ELV: sum of hydrocarbons - ELV: sum of hydrocarbons - ELV: sum of hydrocarbons
PT114_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Desizing - Scouring - Bleaching - - Thermal treatment - Dry cleaning	mg/l	5	6.67	10		50	Equalisation, Neutralisation, Screening, Coagulation and flocculation, Sedimentation, Sand filtration, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.)	No information	Yearly	No information	
IT088_w {1}	IND	Dyeing - Bleaching	mg/l	0.1	6.02	10		200	No information	Not applicable	Twice per year	UNI EN ISO 9377-2:2002	Yearly - Yearly - Yearly
AT005_w {1}	IND	No information	mg/l	1	3.13	10		10	Neutralisation	No information	Monthly	ÖNORM EN ISO 9377-2	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	No unit reported	0.05	2.85	18		20	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
AT004_w {1}	IND	Washing synthetic fibre	mg/l	0.05	11.08	18		15	No information	No information	Twice per year	DIN 38409-18:1981 EN ISO 9377-2:2000 (MH)	sum of hydrocarbons - sum of hydrocarbons - 1st measurement: sum of hydrocarbons
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	0.05	11.12	20.3		15	Flotation	No information	Yearly	EN ISO 9377-2:2000	measurement and ELV: sum of hydrocarbons - measurement and ELV: sum of hydrocarbons - ELV: sum of hydrocarbons
IT070_w {1}	IND	No information	mg/l	0.1	8.72	22.2		200	No information	Not applicable	Twice per year	UNI EN ISO 9377-2:2002	
IT071_w {2}	IND	Dyeing - Other - Functional finishing	mg/l	13.1	16.92	25.5		200	Other	Other	Twice per year	APAT CNR IRSA 5160 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	mg/l	3.7	13.43	25.8		200	No information	Other	No information	APAT CNR IRSA 5160 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	mg/l	6.6	13.47	28.7		200	Other	Other	Twice per year	APAT CNR IRSA 5160 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT064_w {1}	IND	Scouring	mg/l	7.6	15.35	29.3		200	Other	Other	Twice per year	APAT CNR IRSA 5160 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT059_w {2}	IND	Thermal treatment - Functional finishing	mg/l	0.6	8.93	30		200	No technique used	Not applicable	Twice per year	APAT CNR IRSA 5160 A1/A2 Man 29 2003	
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	mg/l	3.9	13.62	30.7		200	No information	Other	Twice per year	APAT CNR IRSA 5160 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	mg/l	4.2	15.73	32.5		200	Other	Other	Twice per year	APAT CNR IRSA 5160 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	mg/l	13.5	32.18	45.5		200	Other	Other	No information	APAT CNR IRSA 5160 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	mg/l	11.4	29.47	66		200	Other	Other	Twice per year	APAT CNR IRSA 5160 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT074_w {2}	IND	Washing synthetic fibre - Scouring	mg/l	1.9	21.93	73.5		200	Other	Other	No information	APAT CNR IRSA 5160 MAN 29 2003	AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS - AVERAGE PERIOD 3 HOURS (YEAR 2015)
AT001_w {1}	IND	No information	mg/l	8	30.86	100		20	No information	24-hour flow proportional composite sample	4 times per year	ÖNORM EN ISO 9377-2	5; one additional control measurement local authority
FR135_w {1}	IND	Washing synthetic fibre	mg/l	0.3	51.37	147.5		5	Grit separators	24-hour flow proportional composite sample	4 times per year	No information	

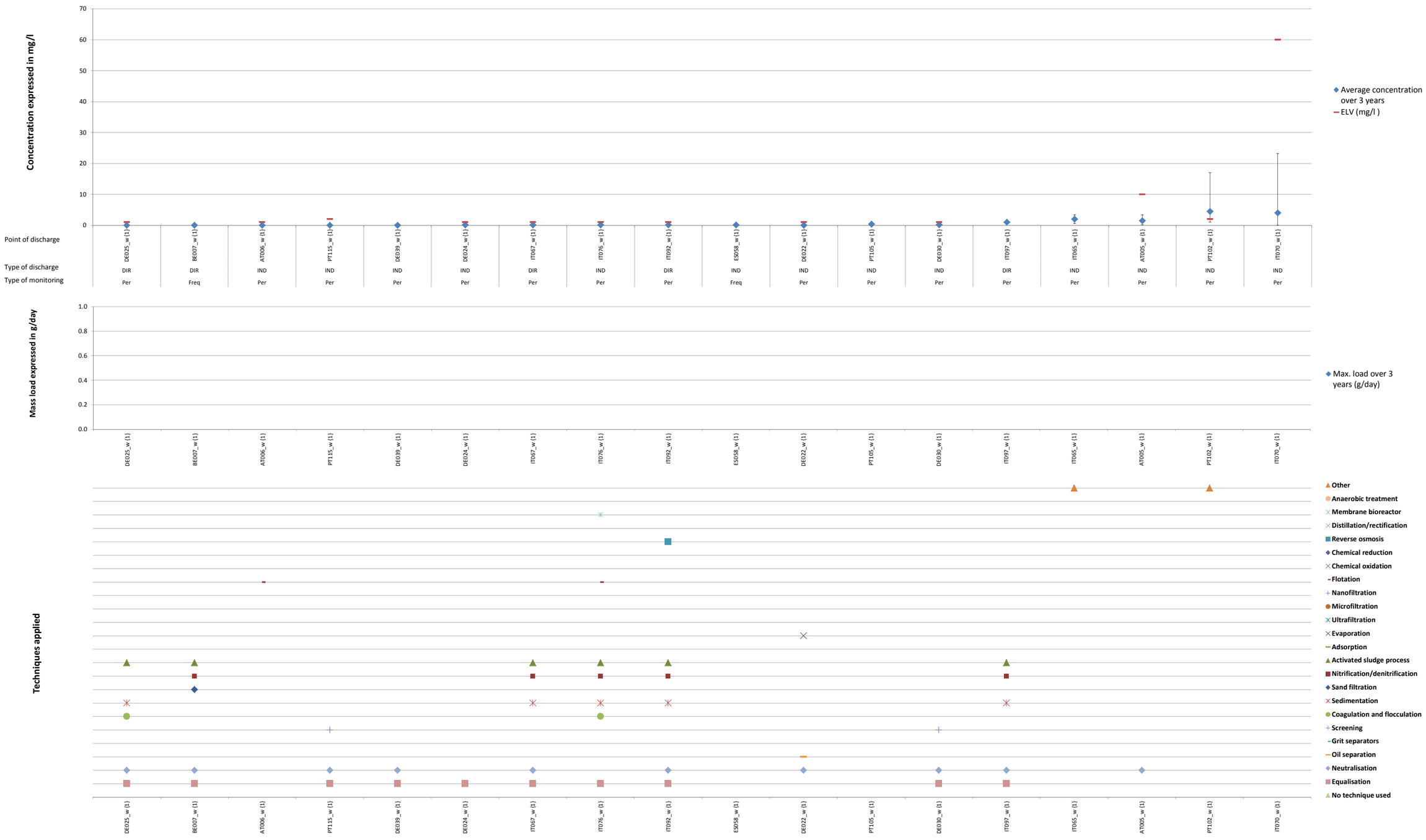
TOC - Emissions to water



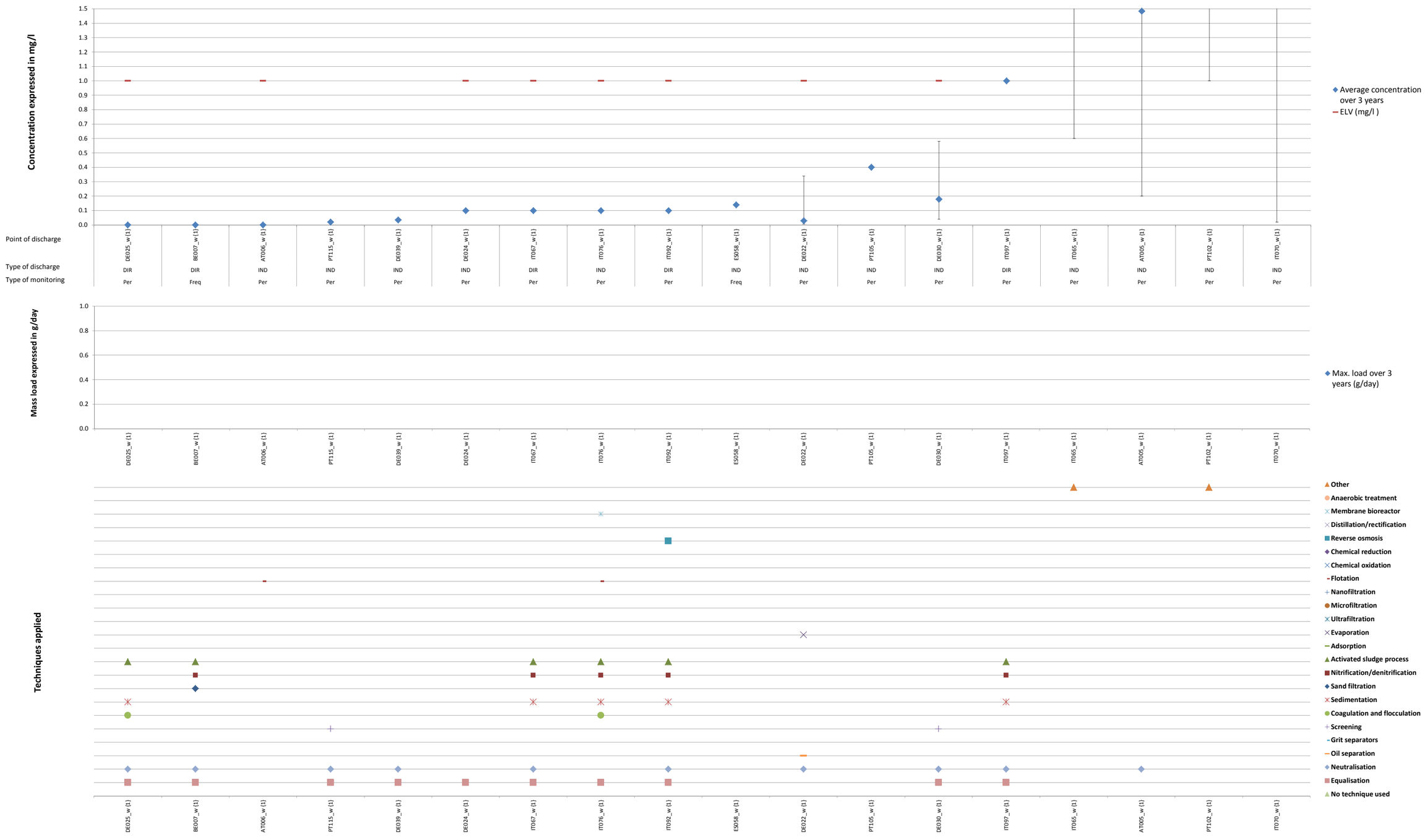
TOC - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT092_w {1}	DIR	Dyeing - Other	mg/l	10.4	10.40	10.4			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	UNI EN 1484:1999	Monitoring frequency: spot
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	10.5	10.50	10.5			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	UNI EN 1484:1999	Monitoring frequency: spot
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	10	13.17	19			EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	mg/l	12.5	16.82	22			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Other	No information	Occasional - Occasional - Occasional
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	No unit reported	9.6	16.53	23			Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	
BE007_w {1}	DIR	Dyeing	mg/l		24.36				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	WAC/III/D	
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	20	25.80	31			Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	No information	
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	22	30.06	42			Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN EN 1484 (H3)	
BE009_w {1}	DIR	Printing - Coating and laminating	mg/l	15	30.80	44			Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	WAC/III/D/050	
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		51.00				No information	No information	4 times per year	No information	
PT115_w {1}	IND	No information	mg/l	64	194.00	269			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	SMEWW 5310 B	Environmetal Permit - Environmetal Permit - Environmetal Permit
BE008_w {1}	IND	Printing - Dyeing	mg/l	11	166.83	290			Equalisation, Grit separators, Other	24-hour flow proportional composite sample	Other	No information	- Monitoring 2 yearly measurement IPPC control -
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	61	170.00	300	143520	165	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quarterly
AT002_w {1}	IND	No information	mg/l	52	235.40	410			No information	No information	No information	DIN EN 1484	
CZ015_w {1}	IND	Dyeing - Functional finishing	mg/l	150	256.75	443			Grit separators, Equalisation, Sedimentation	Flow proportional composite sample	4 times per year	No information	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	210	399.00	560	100240		No technique used	24-hour flow proportional composite sample	No information	No information	
DE031_w {1}	IND	Dyeing	mg/l	24	351.56	870			No information	No information	Other	DIN EN 1484	3 times/year - 3 times/year - 3 times/year
DE042_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Functional finishing	mg/l	410	660.00	870			Neutralisation, Equalisation	24-hour flow proportional composite sample	4 times per year	No information	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	220	535.00	1000	352000		Sedimentation, Neutralisation	24-hour flow proportional composite sample	Weekly	No information	
DE049_w {1}	IND	Desizing - Bleaching - Bleaching - Dyeing - Singeing - Printing - Coating and laminating - Scouring - Functional finishing	mg/l	430	823.33	1400			Equalisation, Neutralisation	24-hour flow proportional composite sample	Yearly	DIN	
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	730	1211.67	1600			Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	

SULPHIDE - Emissions to water



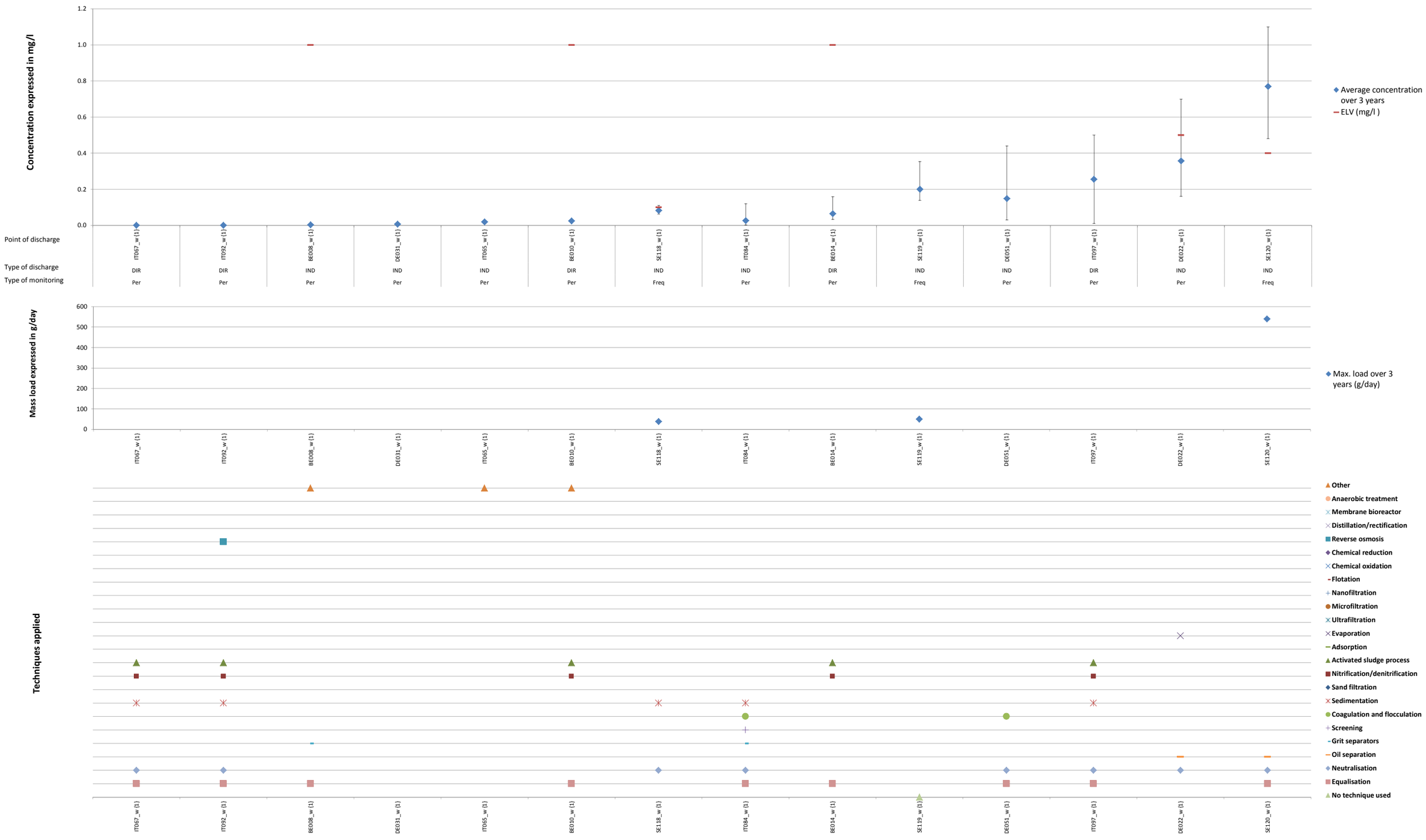
SULPHIDE - Emissions to water (zoom 0-1.5 mg/l)



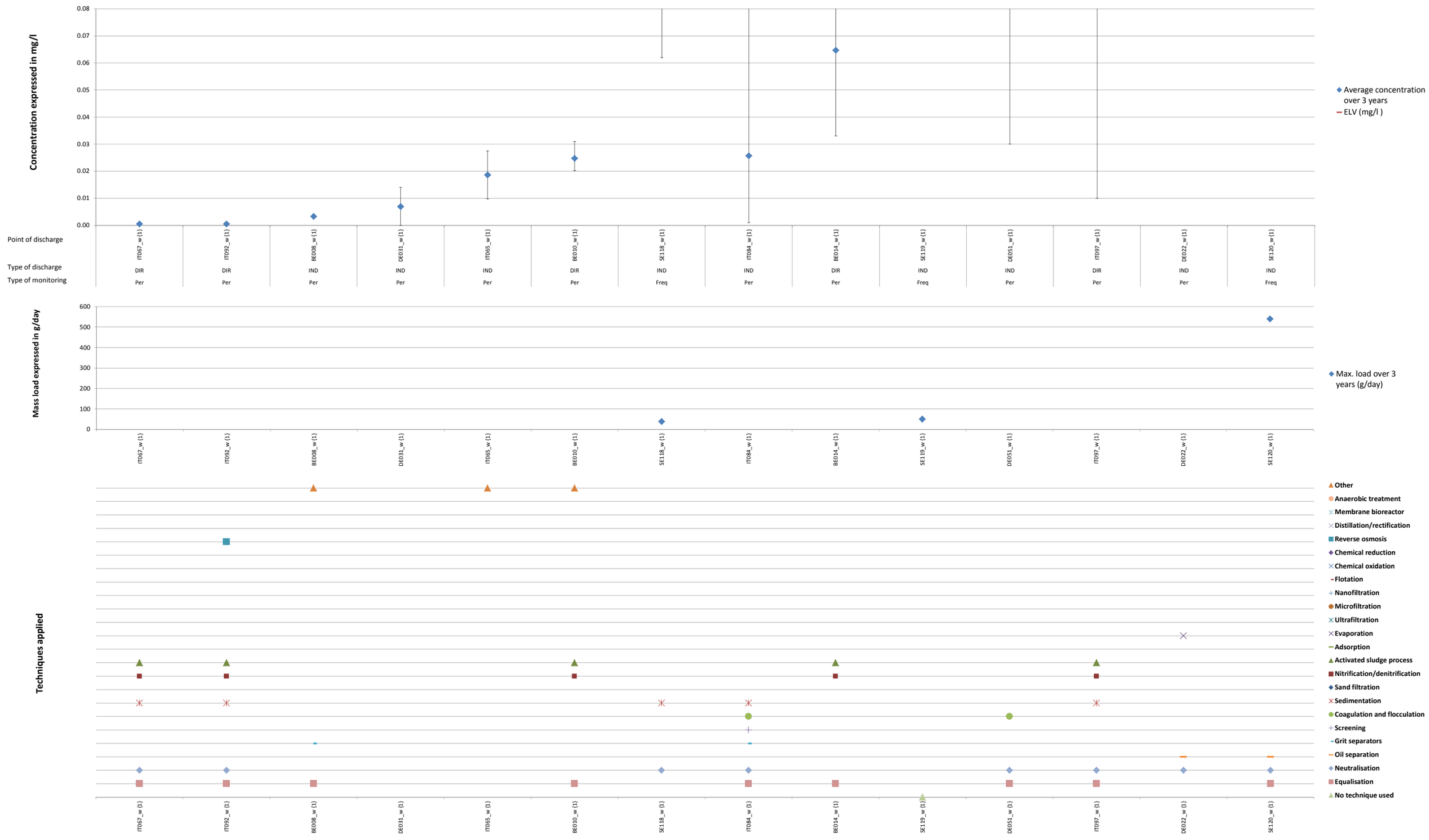
SULPHIDE - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE025_w {1}	DIR	Washing synthetic fibre - Dyeing - Printing	mg/l	0	0	0		1	Equalisation, Neutralisation, Coagulation and flocculation, Sedimentation, Activated sludge process	24-hour flow proportional composite sample	Monthly	DIN 38405-27:1992-07	
BE007_w {1}	DIR	Dyeing	mg/l		0				Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	Monthly	No information	
AT006_w {1}	IND	Bleaching - Dyeing	mg/l	0	0	0		1	Flotation	No information	Yearly	ÖNORM M 6615:1994	
PT115_w {1}	IND	No information	mg/l	0.02	0.02	0.02		2	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	Yearly	PA 17	< LQ; LD= 0,02SIDVA - < LQ; LD= 0,02SIDVA - < LQ; LD= 0,02SIDVA
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	mg/l	0.03	0.04	0.04			Equalisation, Neutralisation	Flow proportional composite sample	Twice per year	No information	
DE024_w {1}	IND	Desizing - Dyeing - Scouring - Singeing	mg/l	0.1	0.10	0.1		1	Equalisation	Grab/spot sample	4 times per year	No information	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.1	0.10	0.1		1	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	LCK 653	Monitoring frequency: spotValue refered to sampling period
IT076_w {1}	IND	Raw wool scouring	mg/l	0.1	0.10	0.1		1	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	LCK 652	Monitoring frequency: spotValue refered to sampling period
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.1	0.10	0.1		1	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	APAT CNR IRSA 4160 Man 29 2003	Monitoring frequency: spotMeasurement 1 is inferior to limit value: <0,1 mg/lValue refered to sampling period
ES058_w {1}	IND	Mercerising - Bleaching - Dyeing - Desizing - Fabric production - Printing - Thermal treatment	mg/l		0.14				No information	No information	4 times per year	No information	
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.006	0.03	0.34		1	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
PT105_w {1}	IND	Dyeing - Bleaching	mg/l	0.4	0.40	0.4			No information	No information	Yearly	No information	The installation only started operating in 2017.The value of uncertainty is not refered in the reports.
DE030_w {1}	IND	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Singeing - Dyeing - Functional finishing - Thermal treatment	mg/l	0.04	0.18	0.58		1	Equalisation, Neutralisation, Screening	24-hour flow proportional composite sample	4 times per year	DIN	
PT108_w {1}	IND	Fabric production - Fabric production	No unit reported	0.05	0.36	0.97		2	Neutralisation, Sand filtration, Sand filtration	24-hour flow proportional composite sample	Yearly	Molecular Absorption Spectrometry (EAM) - Methylene Blue	annual measurement - annual measurement - annual measurement
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	1	1.00	1			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 4160 Man 29 2003	Monitoring frequency: spotMeasurement 1 is inferior to detection limit: <1
IT065_w {1}	IND	No information	mg/l	0.6	2.00	3.4			Other	No information	Twice per year	ISO 10530:1992	We do not use Sulphur dyes; This Analysis has been introduced during 2018 to follow the ZDHC Waste Water Guide lines
AT005_w {1}	IND	No information	mg/l	0.2	1.48	3.4		10	Neutralisation	No information	Twice per year	No information	
PT102_w {1}	IND	Scouring - Dyeing - Bleaching	mg/l	1	4.52	17		2	Other	24-hour flow proportional composite sample	Twice per year	SMEWW 4500 S2-F	For the third monitoring the value is below level of quantificationFor the last two monitoring the value is below level of quantification
IT070_w {1}	IND	No information	mg/l	0.02	4.05	23.2		60	No information	Not applicable	Twice per year	ISO 10530-1992	

ANTIMONY - Emissions to water



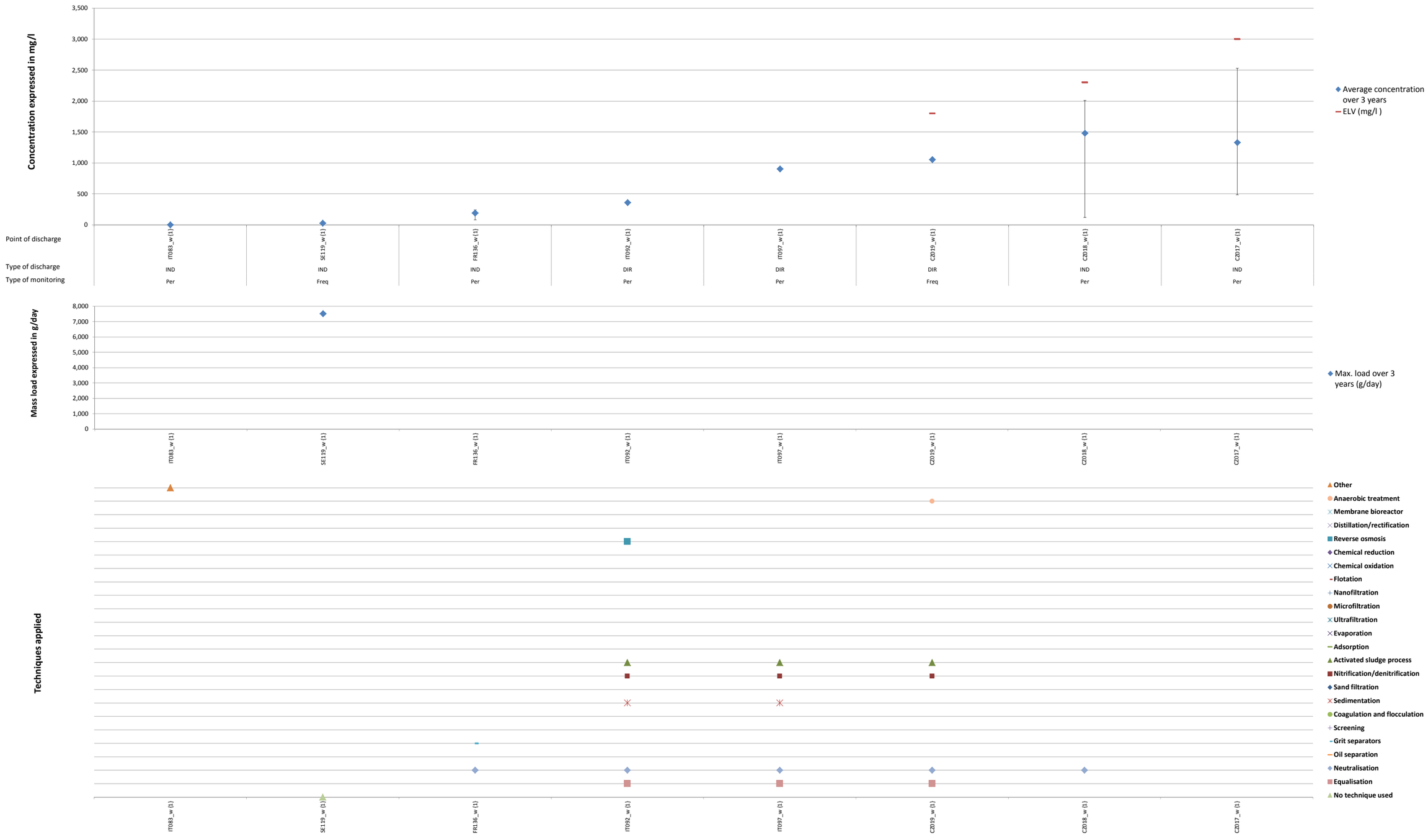
ANTIMONY - Emissions to water (zoom 0-0.08 mg/l)



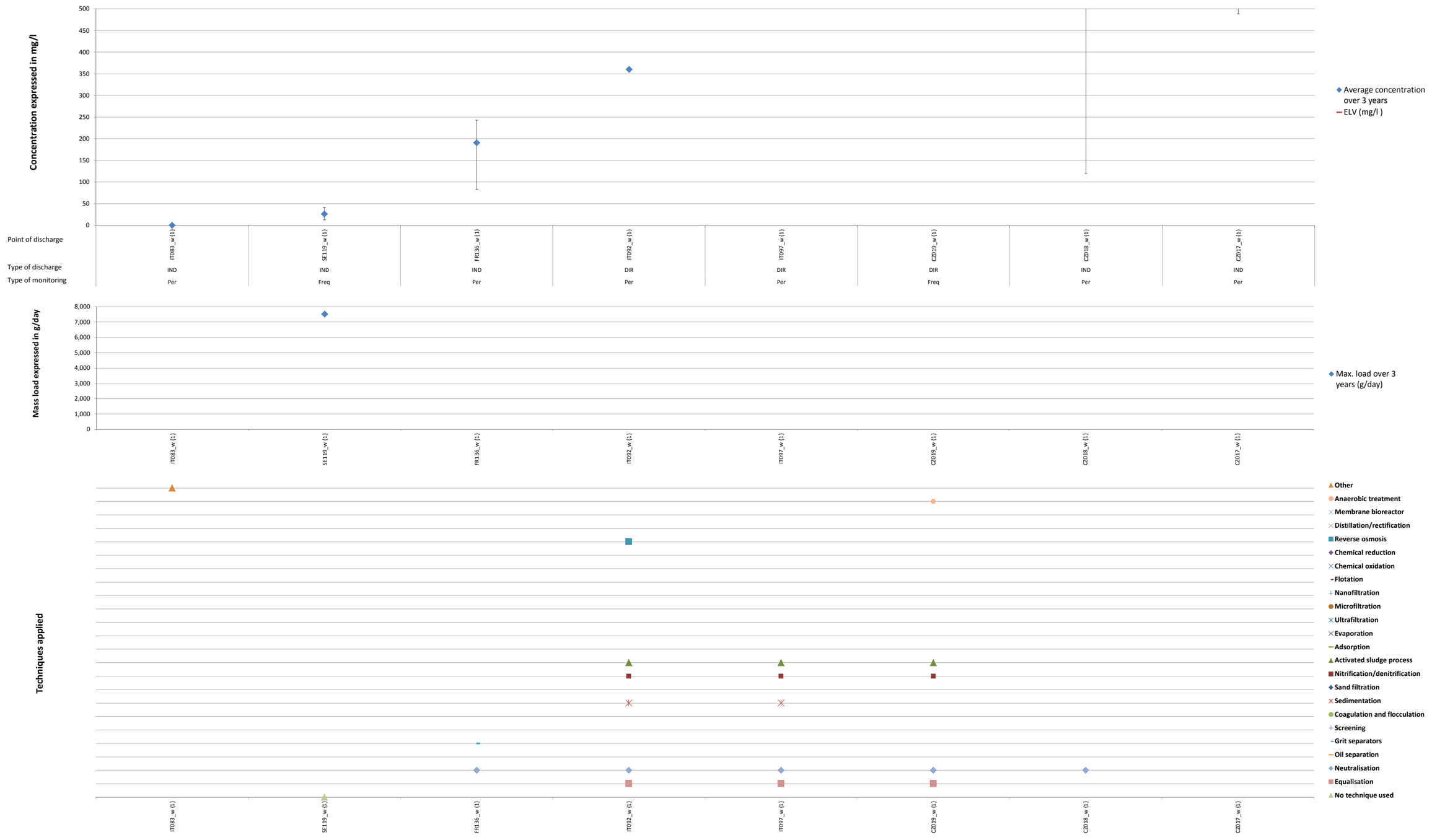
ANTIMONY - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	mg/l	0.0005	0.0005	0.0005			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotValue refered to sampling period
IT092_w {1}	DIR	Dyeing - Other	mg/l	0.0005	0.0005	0.0005			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spot
BE008_w {1}	IND	Printing - Dyeing	mg/l	0.0033	0.0033	0.0033		1	Equalisation, Grit separators, Other	24-hour flow proportional composite sample	No information	WAC/II/B	Inspection, 0,0033 mg/l
DE031_w {1}	IND	Dyeing	mg/l	0	0.01	0.014			No information	No information	Yearly	U.S. EPA 3015A +U.S. EPA 6020A	Detection limit: 1 µg/L; result was lower as detection limit
BE011_w {1}	DIR	Dyeing	No unit reported	0.01	0.01	0.02		0.2	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/III/B	- 1 measurement < 0,03 mg/l (DL) - 4 measurments < 0,03 mg/l (result with matrix interference)
IT065_w {1}	IND	No information	mg/l	0.00974	0.02	0.0275			Other	No information	Twice per year	EPA 6020B :2014 EPA 200,8 rev.5,4	analyses introduced during 2018 to follow the ZDHC Waste Water Guide lines
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	mg/l	0.0202	0.02	0.031		1	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	
SE118_w {1}	IND	Washing synthetic fibre - Scouring - Scouring - Bleaching - Dyeing - Singeing - Printing - Functional finishing - Shrink-proof finishing - Coating and laminating - Thermal treatment	mg/l	0.062	0.08	0.11	38.72	0.1	Sedimentation, Neutralisation	24-hour flow proportional composite sample	Monthly	No information	Three months average
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	mg/l	0.001	0.03	0.12			Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	EPA 6020 B 2014	3 h medium composite sample - 3 h medium composite sample - 3 h medium composite sample
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	mg/l	0.033	0.06	0.158		1	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/III/B	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	0.138	0.20	0.354	50.976		No technique used	24-hour flow proportional composite sample	No information	No information	
DE051_w {1}	IND	Washing synthetic fibre - Scouring - Bleaching - Dyeing - Functional finishing	mg/l	0.03	0.15	0.44			Neutralisation, Coagulation and flocculation, Equalisation	No information	Monthly	No information	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	0.01	0.26	0.5			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 3020 Man 29 2003	Monitoring frequency: spotMeasurement 1 is inferior to detection limit: <0,5 mg/lMeasurement 2 is inferior to detection limit: <0,01 mg/l
DE022_w {1}	IND	Raw wool scouring - Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Thermal treatment - Functional finishing - Coating and laminating	mg/l	0.16	0.36	0.7		0.5	Neutralisation, Oil separation, Evaporation	Other	Monthly	DIN	
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	mg/l	0.48	0.77	1.1	540.1	0.4	Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Continuous	No information	Quartely

TOTAL DISSOLVED SOLIDS - Emissions to water



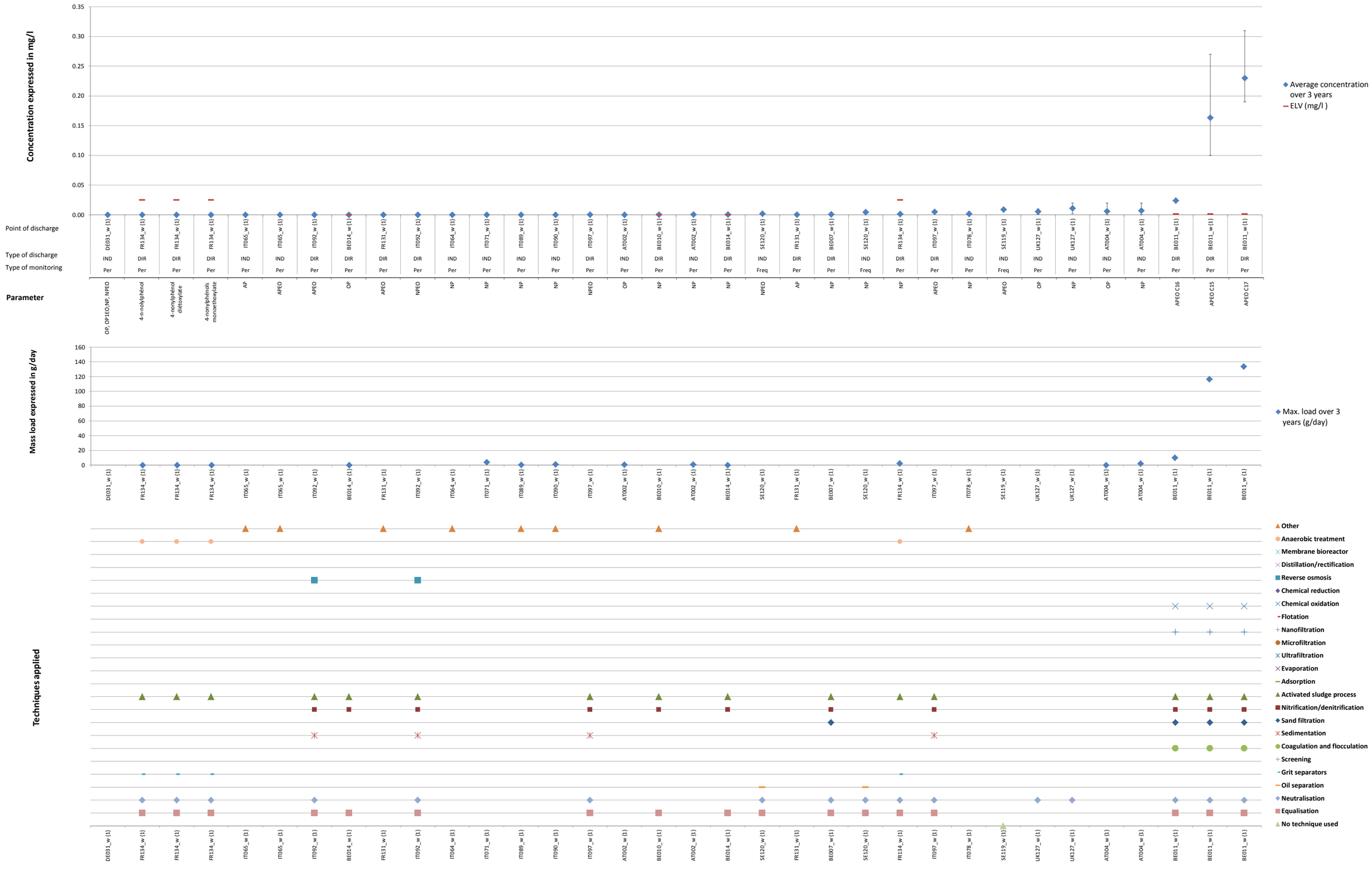
TOTAL DISSOLVED SOLIDS - Emissions to water (zoom 0-500 mg/l)



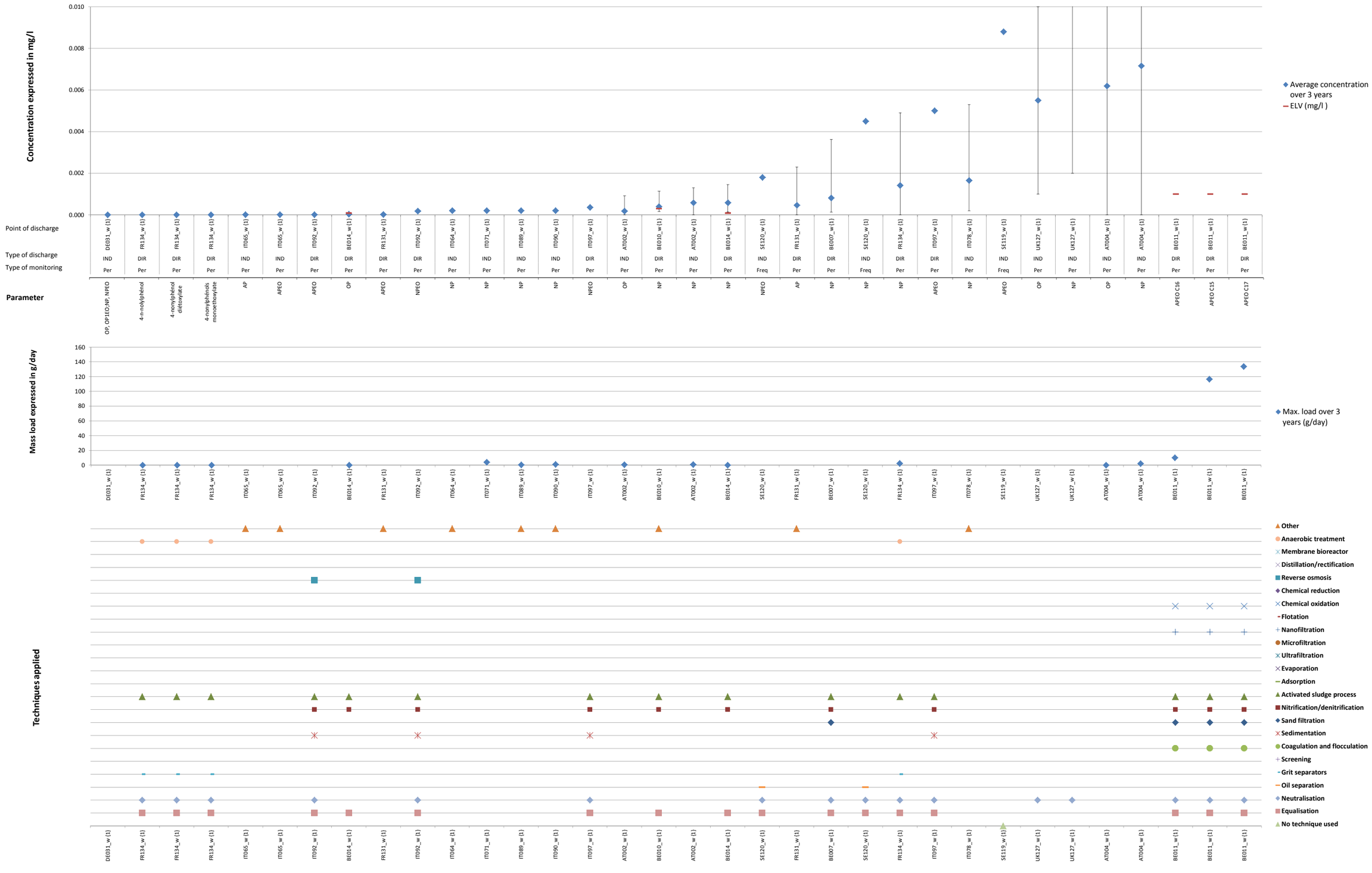
TOTAL DISSOLVED SOLIDS - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct	Associated processes	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT083_w {1}	IND	Scouring - Dyeing - Functional finishing	mg/l	0.1	0.30	0.8			Other	Not applicable	Twice per year	APAT CNR IRSA 2090 MAN 29 2003	
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	mg/l	13	26.00	42	7518		No technique used	24-hour flow proportional composite sample	No information	No information	
FR136_w {1}	IND	Desizing - Scouring - Bleaching - Mercerising - Dyeing - Singeing - Fabric production - Functional finishing	mg/l	83	190.53	243			Grit separators, Neutralisation	No information	No information	No information	
IT092_w {1}	DIR	Dyeing - Other	mg/l	360	360.00	360			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	APAT CNR IRSA 2090 A Man 29 2003	Monitoring frequency: spot
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	mg/l	904	904.00	904			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 2090 Man 29 2003	Monitoring frequency: spot
CZ019_w {1}	DIR	Bleaching - Dyeing - Printing - Functional finishing - Desizing	mg/l		1054.00			1800	Equalisation, Neutralisation, Anaerobic treatment, Nitrification/denitrification, Activated sludge process	No information	Monthly	No information	
CZ018_w {1}	IND	Desizing - Functional finishing - Dyeing - Fabric production	mg/l	120	1481.11	2010		2300	Neutralisation	24-hour flow proportional composite sample	Other	No information	monitoring 6 per year - monitoring 6 per year - monitoring 6 per year
CZ017_w {1}	IND	Spinning - Fabric production - Singeing - Functional finishing - Shrink-proof finishing - Thermal treatment - Other	mg/l	488	1330.50	2530		3000	No information	No information	Monthly	No information	

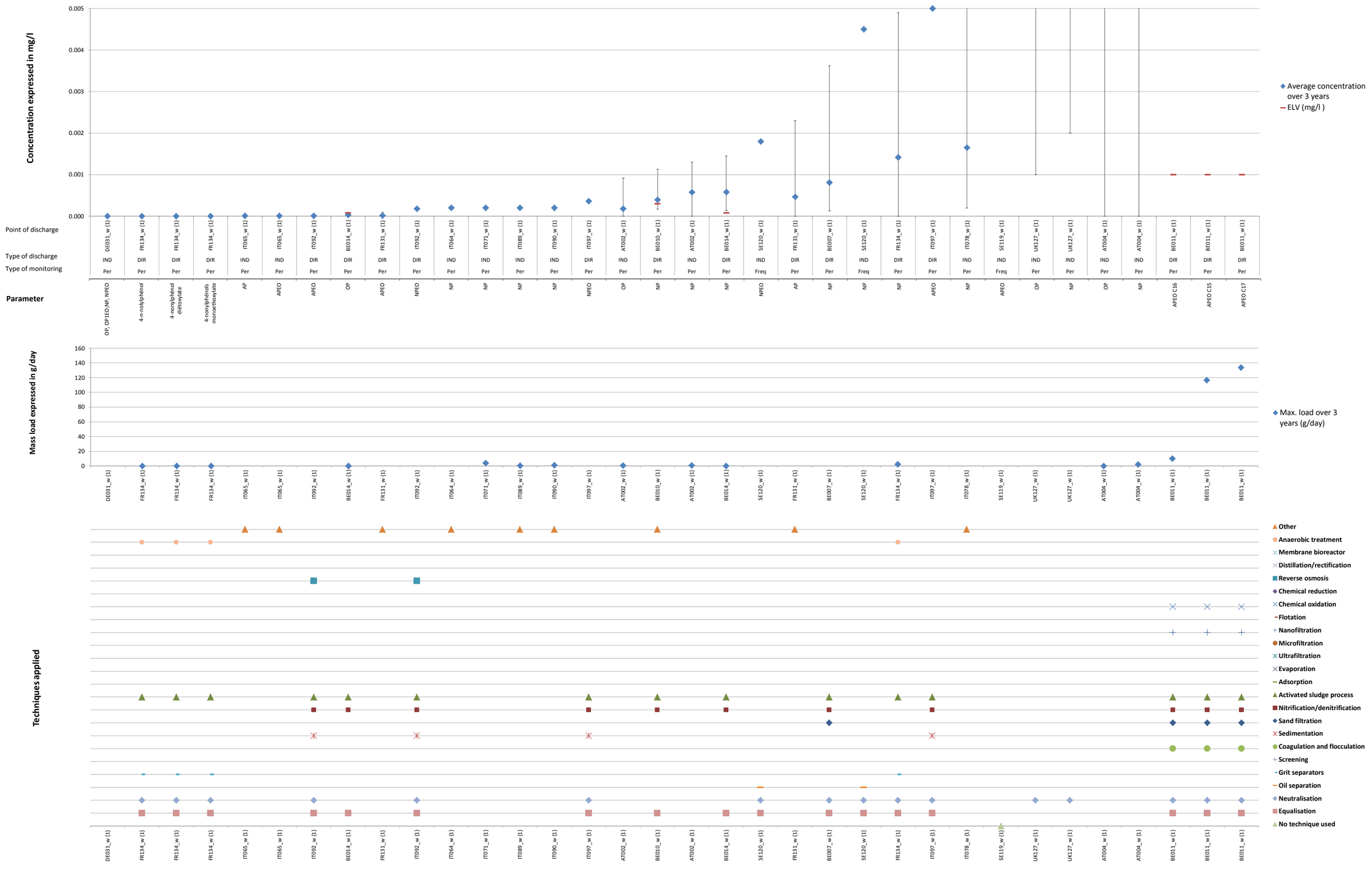
APs and APEOs - Emissions to water



APs and APEOs - Emissions to water (zoom 0-0.01 mg/l)



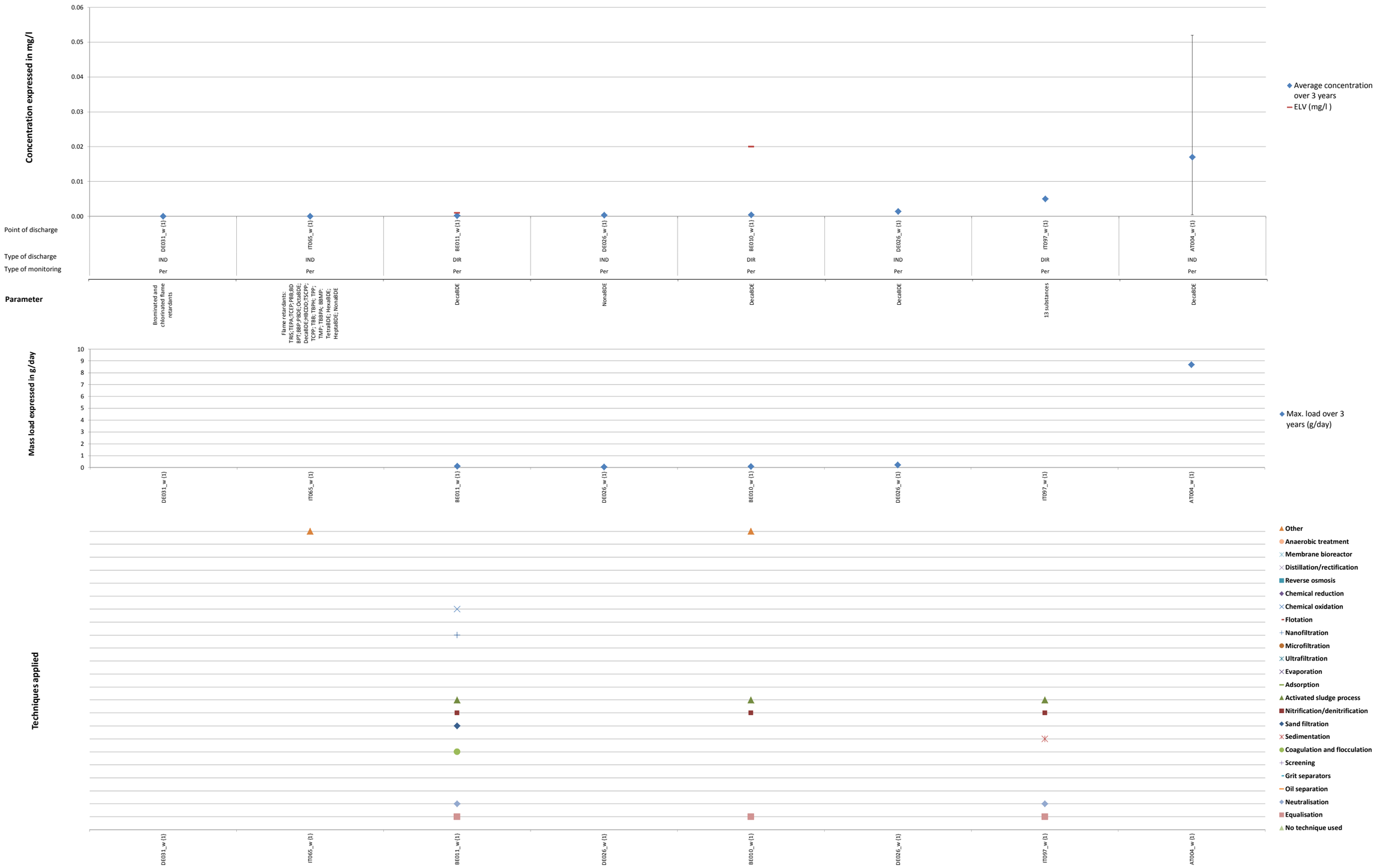
APs and APEOs - Emissions to water (zoom 0-0.005 mg/l)



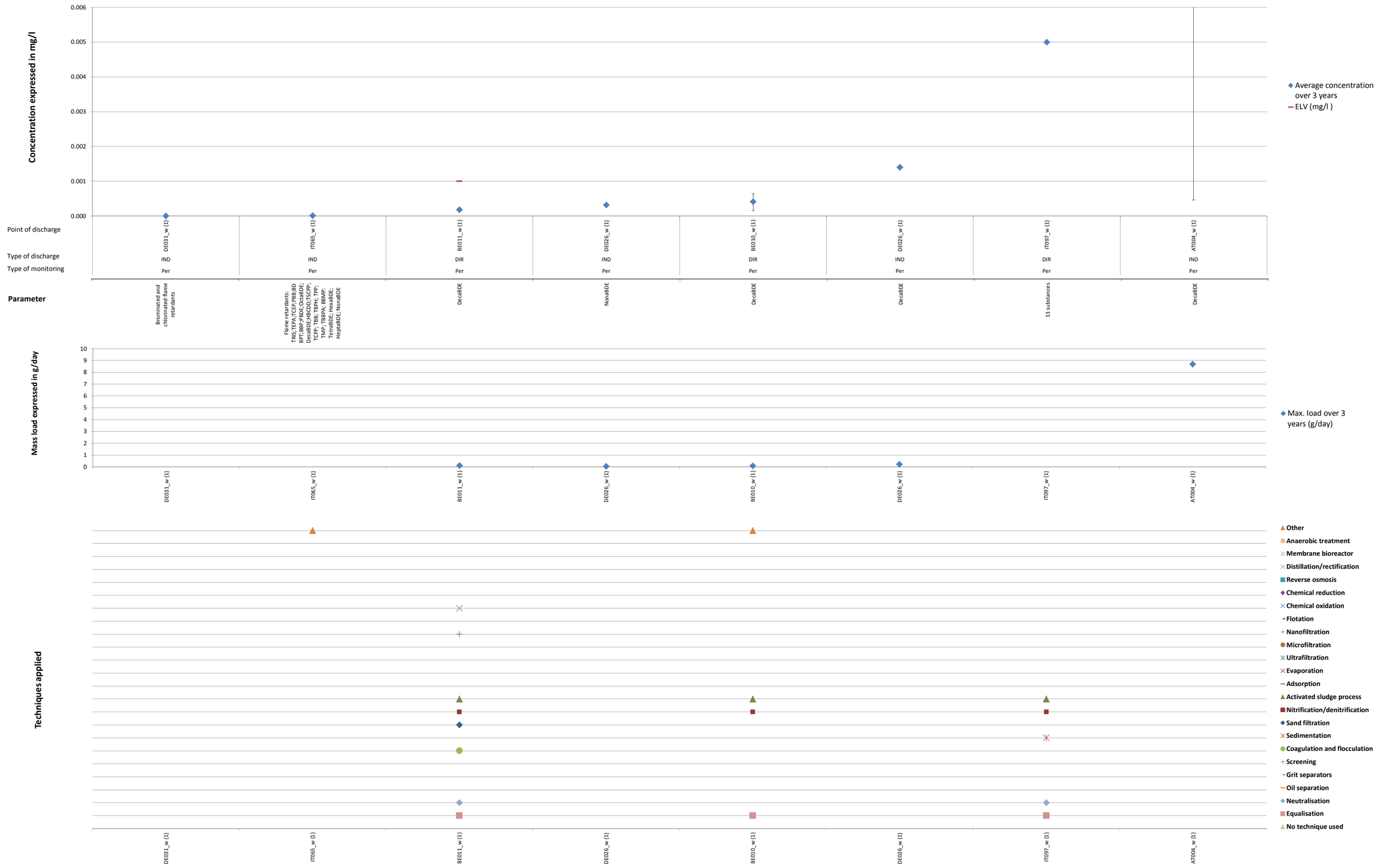
APs and APEOs - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE031_w {1}	IND	Dyeing	OP, OP1EO;NP, NPEO	mg/l	0	0	0			No information	No information	Yearly	ASTM D7065	Detection limit: 1 µg/L; result was lower as detection limit - Detection limit: 1 µg/L; result was lower as detection limit - Detection limit: 1 µg/L; result was lower as detection limit
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	4-n-nolylphénol	mg/l	0	0	0	0	0.025	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	No information	- RSDE regulation - RSDE regulation
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	4-nonylphénol diétoxylate	mg/l	0	0	0	0	0.025	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	No information	- RSDE regulation - RSDE regulation
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	4-nonylphénols monoethoxylate	mg/l	0	0	0	0	0.025	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	No information	- RSDE regulation - RSDE regulation
IT065_w {1}	IND	No information	AP	mg/l	0.00001	0.00001	0.00001			Other	No information	Twice per year	ISO 18857-1 2005	Not detected, LOD 0.01 ; introduced during 2018 to follow the ZDHC Waste Water Guide lines
IT065_w {1}	IND	No information	APEO	mg/l	0.00001	0.00001	0.00001			Other	No information	Twice per year	ISO 18857-2:2009	Not detected, LOD 0.01 ; introduced during 2018 to follow the ZDHC Waste Water Guide lines
IT092_w {1}	DIR	Dyeing - Other	APEO	mg/l	0.00001	0.00001	0.00001			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	ISO 18857-1:2005	Monitoring frequency: spotMeasurement is inferior to limit value: <0,01 µg/l
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	OP	mg/l	0.00003	0.00003	0.00003	0.00303	0.00008	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/A/01-05	4-ter octylphenol: 6 measurements < DL (0,10 ug/l), sum phenols (limit value)4 n-octylphenol: 5 measurements < DL (0,01 ug/l), 1 mesurement 0,03 ug/l
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	APEO	mg/l	0	0.00002	0.0001			Other	24-hour flow proportional composite sample	4 times per year	ISO 18857-1/-2	RSDE detection limit of the lab 0,1µg/L - RSDE detection limit of the lab 0,1µg/L - RSDE detection limit of the lab 0,1µg/L
IT092_w {1}	DIR	Dyeing - Other	NPEO	mg/l	0.0002	0.0002	0.00018			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	ISO 18857-1:2005	Monitoring frequency: spot
IT064_w {1}	IND	Scouring	NP	mg/l	0.0002	0.0002	0.0002			Other	Other	Twice per year	UNI EN ISO 18857-2:2012	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	NP	mg/l	0.0002	0.0002	0.0002	4.0398		No information	Other	Yearly	UNI EN ISO 18857-2:2012	- Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage -
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	NP	mg/l	0.0002	0.0002	0.0002	0.4094		Other	24-hour flow proportional composite sample	Yearly	UNI EN ISO 18857-2:2012	- Averaging period of monitoring: 3 hours. Parameter monitored on basis of manager of the public waste water plant -
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	NP	mg/l	0.0002	0.0002	0.0002	1.2306		Other	24-hour flow proportional composite sample	Yearly	UNI EN ISO 18857-2:2012	- Averaging period of monitoring: 3 hours. Parameter monitored on basis of manager of the public waste water plant -
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	NPEO	mg/l	0.00036	0.0004	0.00036			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	ISO 18857-1:2005	Monitoring frequency:spot
AT002_w {1}	IND	No information	OP	mg/l	0	0.0002	0.00092	0.6992		No information	No information	No information	DIN EN ISO 18857-1	measurement to calculate loads for EMREG reporting; date of sampling: 2015
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	NP	mg/l	0.00017	0.0004	0.00113		0.0003	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	alle measurements < DL - alle measurements < DL - 1 measurement < 0,01 ug/l
AT002_w {1}	IND	No information	NP	mg/l	0.0	0.0006	0.0013	0.988		No information	No information	No information	DIN EN ISO 18857-1	measurement to calculate loads for EMREG reporting; date of : 2015
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	NP	mg/l	0.00014	0.0006	0.00145	0.143086	0.00008	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/A/01-05	sum phenols (limit value)
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	NPEO	mg/l		0.002				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Other	No information	One week every two years, See appendix 2One week every two years, See Appendix 1
FR131_w {1}	DIR	Washing synthetic fibre - Bleaching - Dyeing - Printing - Functional finishing - Coating and laminating - Thermal treatment	AP	mg/l	0.0	0.0005	0.0023			Other	24-hour flow proportional composite sample	4 times per year	ISO 18857-1/-2	RSDE detection limit of the lab 0,1µg/L - RSDE detection limit of the lab 0,1µg/L - RSDE detection limit of the lab 0,1µg/L
BE007_w {1}	DIR	Dyeing	NP	mg/l	0.00013	0.0008	0.0036			Equalisation, Neutralisation, Sand filtration, Activated sludge process, Nitrification/denitrification	Flow proportional composite sample, Not applicable, Flow proportional composite sample	No information	No information	- 3 Measuring result < 0,1 ug/l (DL) -
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	NP	mg/l		0.005				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Other	No information	One week every two years, see Appendix 2One week every two years, see Appendix 1
FR134_w {1}	DIR	Washing synthetic fibre - Desizing - Mercerising - Bleaching - Dyeing - Singeing - Functional finishing	NP	mg/l	0.0	0.0014	0.0049	2.4157	0.025	Equalisation, Neutralisation, Grit separators, Activated sludge process, Anaerobic treatment	No information	4 times per year	No information	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	APEO	mg/l	0.005	0.005	0.005			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	No information	Monitoring frequency:spotMeasurement is inferior to detection limit: <5 µg/l
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	NP	mg/l	0.0002	0.002	0.0053			Other	Other	Twice per year	UNI EN ISO 18857-2:2012	Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage - Averaging period for monitoring: 3 hours; Parameter monitored on indication of the manager of the public sewage
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	APEO	mg/l		0.009				No technique used	24-hour flow proportional composite sample	No information	No information	Appendix 2Appendix 1
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	OP	mg/l	0.001	0.006	0.01			Neutralisation	24-hour flow proportional composite sample	Yearly	No information	less than. Whole site APEO free - less than. Whole site APEO free -
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	NP	mg/l	0.002	0.011	0.02			Neutralisation	24-hour flow proportional composite sample	Yearly	No information	less than. Whole site APEO free - less than. Whole site APEO free -
AT004_w {1}	IND	Washing synthetic fibre	OP	mg/l	0	0.006	0.02	0.126		No information	No information	Other	DIN EN ISO 18857-2	Reference year: 2015; once every 6 years
AT004_w {1}	IND	Washing synthetic fibre	NP	mg/l	0	0.007	0.02	2.1		No information	No information	Other	DIN EN ISO 18857-2	Reference year: 2015; once every 6 years
BE011_w {1}	DIR	Dyeing	APEO C16	mg/l	0.024	0.024	0.024	10.1832	0.001	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/A/001-WAC/IV/A/005	Permit: Sum APEO2 measurements < DL (3 ug/l)
BE011_w {1}	DIR	Dyeing	APEO C15	mg/l	0.1	0.16	0.27	116.532	0.001	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/A/001-WAC/IV/A/005	Permit: Sum APEO
BE011_w {1}	DIR	Dyeing	APEO C17	mg/l	0.19	0.23	0.31	133.796	0.001	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/A/001-WAC/IV/A/005	Permit: Sum APEO

Brominated and brominated flame retardants - Emissions to water



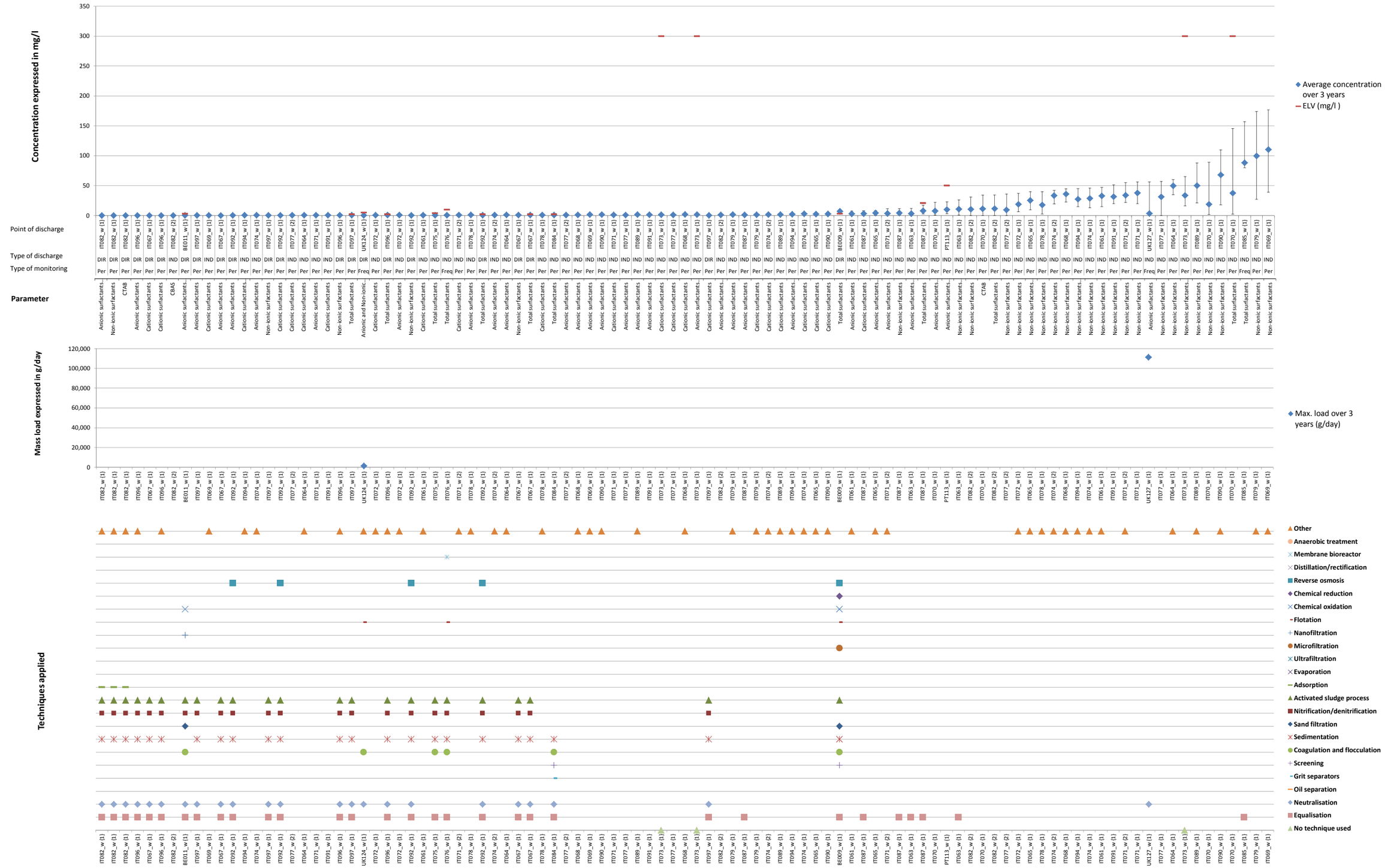
Brominated and brominated flame retardants - Emissions to water (zoom 0-0.006 mg/l)



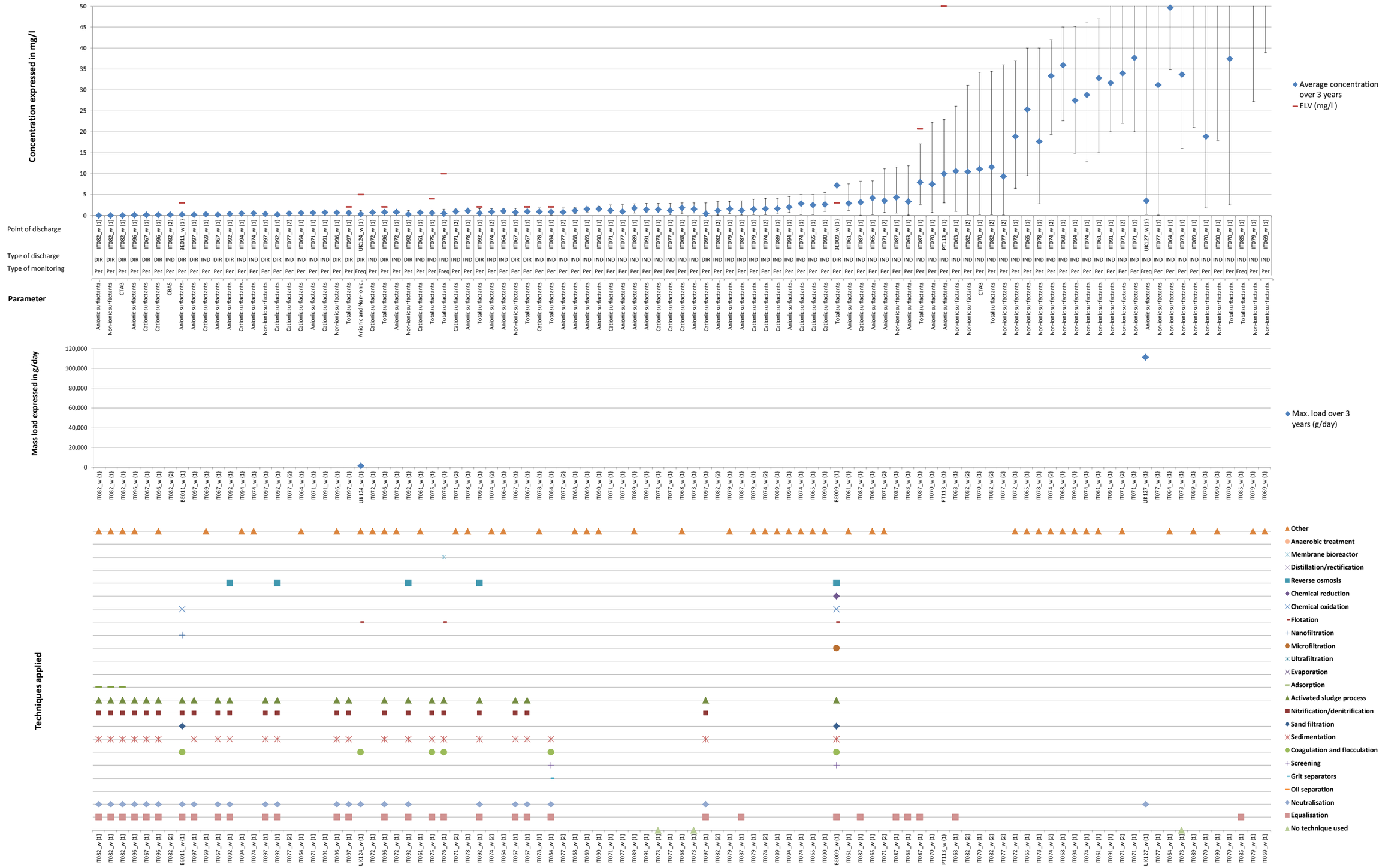
Brominated and brominated flame retardants - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE031_w {1}	IND	Dyeing	Brominated and chlorinated flame retardants	mg/l	0	0	0			No information	No information	Yearly	U.S. EPA 527+ U.S. EPA 8321 B	Detection limit: 1 µg/L; result was lower as detection limit - Detection limit: 1 µg/L; result was lower as detection limit - Detection limit: 1 µg/L; result was lower as detection limit
IT065_w {1}	IND	No information	Flame retardants: TRIS;TEPA;TCEP;PBB;BDBPT;BBP;PBDE;OctaBDE;DecaBDE;HBCDD;TSCPP; TCPP; TBB; TBPH; TPP; TMP; TBBPA; BBMP: TetraBDE; HexaBDE; HeptaBDE; NonaBDE	mg/l	0.00001	0.00001	0.00001			Other	No information	Twice per year	No information	Not detected, LOD 0.01 ; introduced during 2018 to follow the ZDHC Waste Water Guide lines
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	HpBDe	other (please specify in the column "additional information")		0.00005				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	No information	No information	
BE011_w {1}	DIR	Dyeing	DecaBDE	mg/l	0.00018	0.0002	0.00018	0.126171	0.001	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/A/030	- 1 measurement 0,18 - 2 measurements <0,40 and <0,0038
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	NonaBDE	mg/l	0.00032	0.0003	0.00032	0.05248		No information	Other	No information	No information	
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	DecaBDE	mg/l	0.00016	0.0004	0.00064	0.09792	0.02	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	< 0,079 ug/l
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	DecaBDE	mg/l	0.0014	0.0014	0.0014	0.2296		No information	Other	No information	No information	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	13 substances	mg/l	0.005	0.005	0.005			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	No information	No information	all the substances analysed are inferior to detection limit: <5 µg/l
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	DecaBDE	No unit reported		0.005				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	No information	No information	See Appendix 1
AT004_w {1}	IND	Washing synthetic fibre	DecaBDE	mg/l	0.0005	0.017	0.052	8.684		No information	No information	Other	EPA 8270	Reference year: 2015; once every 6 years

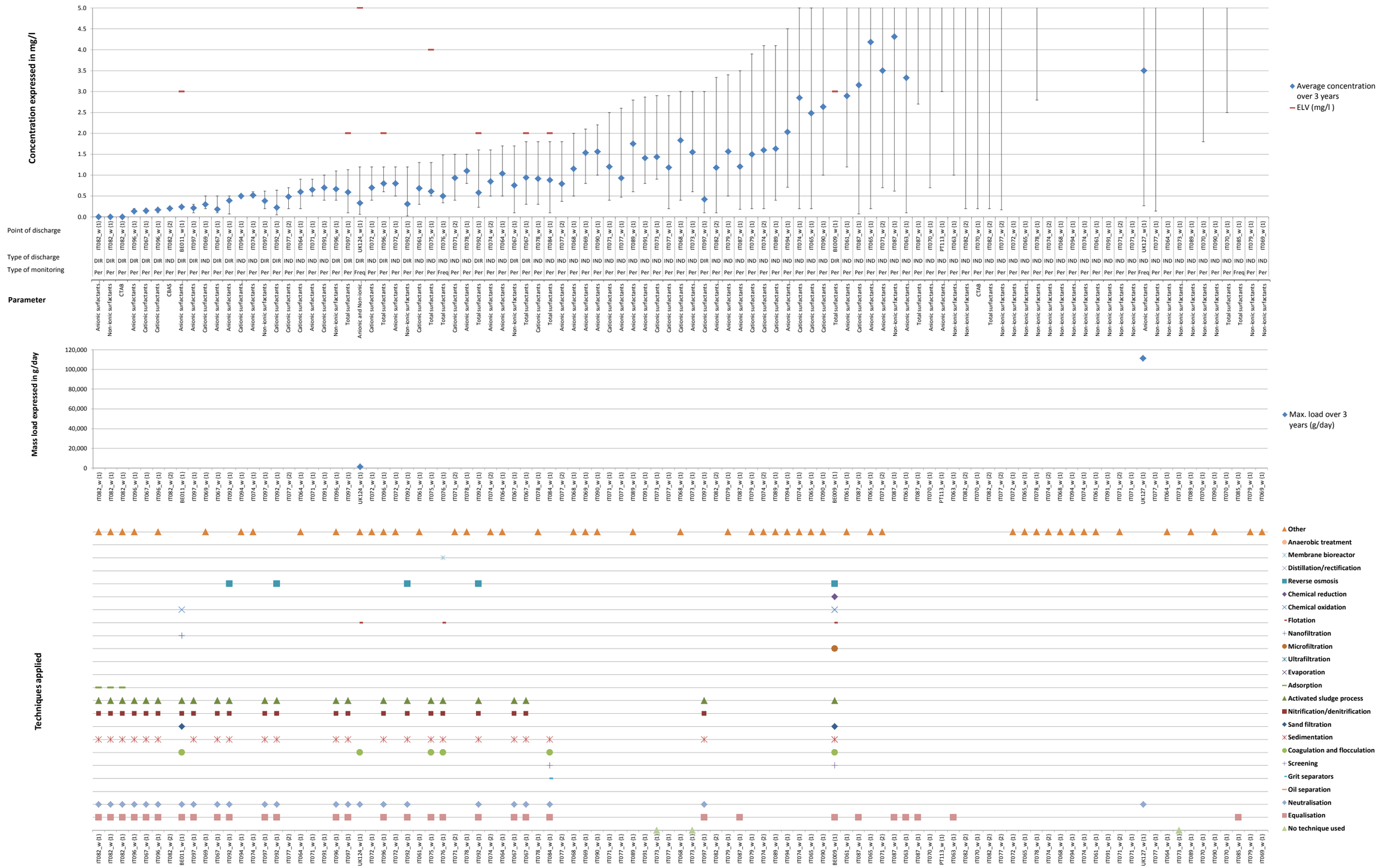
Surfactants - Emissions to water



Surfactants - Emissions to water (zoom 0-50 mg/l)



Surfactants - Emissions to water (zoom 0-5 mg/l)



Surfactants - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	Anionic surfactants (MBAS)	mg/l	0	0	0			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	4 times per year	IRSA 5170:2003*	Limit value MBAS + MBAS + CTAB is 2mg/l - Limit value MBAS + MBAS + CTAB is 2mg/l - Limit value MBAS + MBAS + CTAB is 2mg/l
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	Non-ionic surfactants	mg/l	0	0	0			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	4 times per year	IRSA 5180:2003*	Limit value MBAS + MBAS + CTAB is 2mg/l - Limit value MBAS + MBAS + CTAB is 2mg/l - Limit value MBAS + MBAS + CTAB is 2mg/l
IT082_w {1}	DIR	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	CTAB	mg/l	0	0	0			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Adsorption (e.g. powdered/granular activated carbon, lignite coke, etc.), Other	Not applicable	4 times per year	DIN 38409-20:1989*	Limit value MBAS + MBAS + CTAB is 2mg/l - Limit value MBAS + MBAS + CTAB is 2mg/l - Limit value MBAS + MBAS + CTAB is 2mg/l
IT096_w {1}	DIR	Dyeing - Other	Anionic surfactants	mg/l	0.1	0.13	0.2			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	APAT CNR IRSA 5170 Man 29 2003, APAT CNR IRSA 5170 Man 29 2003, APAT CNR IRSA 5170 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	Cationic surfactants	mg/l	0.1	0.15	0.2			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	M008:2005 Rev.0	
IT096_w {1}	DIR	Dyeing - Other	Cationic surfactants	mg/l	0.1	0.17	0.2			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	M008:2005 Rev.0	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	CBAS	mg/l	0.2	0.20	0.2			No information	No information	No information	Kit colorimetrico Tensiattivi cationici	
BE011_w {1}	DIR	Dyeing	Anionic surfactants (MBAS)	mg/l	0.24	0.24	0.24		3	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/A/22	Permit: Sum anion, non ion and kation2 measurements <DL (0,20 mg/l)
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	Anionic surfactants	mg/l	0.1	0.21	0.3			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 5170 5170 Man 29 2003, IRSA 5170, IRSA 5170	Monitoring frequency: once every 4 months - Monitoring frequency: once every 4 months - Monitoring frequency: once every 4 months
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	Cationic surfactants	mg/l	0.2	0.30	0.5			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	Anionic surfactants	mg/l	0.1	0.18	0.5			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 5170 Man 29 2003, APAT CNR IRSA 5170 Man 29 2003, APAT CNR IRSA 5170 Man 29 2003	
IT092_w {1}	DIR	Dyeing - Other	Anionic surfactants	mg/l	0.07	0.39	0.5			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	EPA 425.1, ISO 16265:2009, ISO 16265:2009	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT094_w {1}	IND	No information	Cationic surfactants (DBAS)	mg/l	0.5	0.50	0.5			Other	No information	Twice per year	Internal method, Internal method, Internal method	Concentration under the detection limit of 0,5mg/l - Concentration under the detection limit of 0,5mg/l - Concentration under the detection limit of 0,5mg/l
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	Anionic surfactants	mg/l	0.5	0.52	0.6			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (YEAR 2015)
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	Non-ionic surfactants	mg/l	0.2	0.39	0.62			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 5180 Man 29 2003, IRSA 5180, IRSA 5180	Monitoring frequency: once every 4 monthsMeasurement 2 is inerior to detection limit: <0,3 - Monitoring frequency: once every 4 months - Monitoring frequency: once every 4 months
IT092_w {1}	DIR	Dyeing - Other	Cationic surfactants	mg/l	0.05	0.22	0.64			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	DIN 38409-20:1989, Bromophenol blue (Dr Lange LCK 331), Bromophenol blue (Dr Lange LCK 331)	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT077_w {2}	IND	Dyeing	Cationic surfactants	mg/l	0.20	0.48	0.7			No information	Other	Twice per year	MARCONCINI SRL INTERNAL METHOD 22	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT064_w {1}	IND	Scouring	Cationic surfactants	mg/l	0.20	0.60	0.9			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	Anionic surfactants	mg/l	0.50	0.65	0.9			No information	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	Cationic surfactants	mg/l	0.40	0.70	1			No information	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT096_w {1}	DIR	Dyeing - Other	Non-ionic surfactants	mg/l	0.40	0.67	1.1			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	APAT CNR IRSA 5180 Man 29 2003	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	Total surfactants	mg/l	0.10	0.59	1.13		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	M008:2005 Rev.0	Monitoring frequency: once every 4 monthsValue refered to sampling period - Monitoring frequency: once every 4 monthsValue refered to sampling period - Monitoring frequency: once every 4 monthsValue refered to sampling period
UK124_w {1}	DIR	No information	Anionic and Non-ionic surfactants	mg/l	0.06	0.33	1.2	1471.2	5	Neutralisation, Coagulation and flocculation, Flotation, Other	Other	Monthly	OPPE / BAC Detergents	
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	Cationic surfactants	mg/l	0.40	0.70	1.2			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT096_w {1}	DIR	Dyeing - Other	Total surfactants	mg/l	0.60	0.80	1.2		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Other	No information	Yearly	M009:2013 Rev.0	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	Anionic surfactants	mg/l	0.50	0.80	1.2			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT092_w {1}	DIR	Dyeing - Other	Non-ionic surfactants	mg/l	0.02	0.31	1.2			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	Specroquant Merck 01787, UNI 10511/1:1996 + A1 2000, UNI 10511/1:1996 + A1 2000	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT061_w {1}	IND	Scouring - Wool Carbonising	Cationic surfactants	mg/l	0.30	0.68	1.3			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours; YEAR 2015
IT075_w {1}	IND	Raw wool scouring	Total surfactants	mg/l	0.50	0.61	1.3		4	Equalisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant - Monitoring end frequency dependent on the operator of the off-site treatment plant -
IT076_w {1}	IND	Raw wool scouring	Total surfactants	mg/l	0.34	0.50	1.48		10	Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Weekly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT071_w {2}	IND	Dyeing - Other - Functional finishing	Cationic surfactants	mg/l	0.40	0.93	1.5			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	Anionic surfactants	mg/l	0.80	1.10	1.5			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT092_w {1}	DIR	Dyeing - Other	Total surfactants	mg/l	0.23	0.58	1.6		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Monthly	Calculated, Calculated, Calculated	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT074_w {2}	IND	Washing synthetic fibre - Scouring	Anionic surfactants	mg/l	0.50	0.85	1.6			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (YEAR 2015)

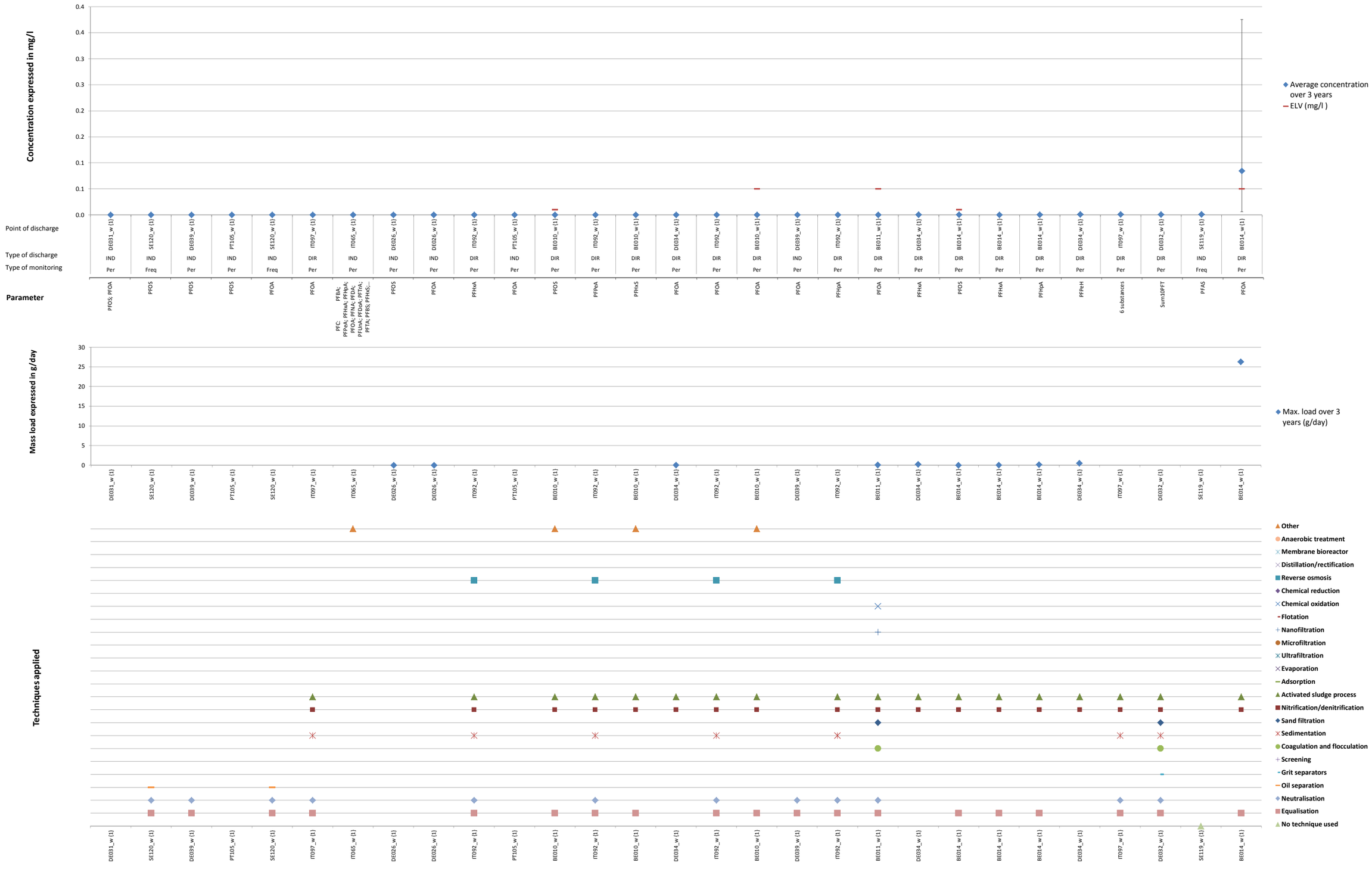
Surfactants - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT064_w {1}	IND	Scouring	Anionic surfactants	mg/l	0.50	1.04	1.7			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	Non-ionic surfactants	mg/l	0.10	0.75	1.7			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	APAT CNR IRSA 5180 Man 29 2003	
IT067_w {1}	DIR	Dyeing - Printing - Other - Shrink-proof finishing	Total surfactants	mg/l	0.30	0.94	1.8		2	Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Monthly	M009:2013 Rev.0	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	Cationic surfactants	mg/l	0.30	0.92	1.8			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT084_w {1}	IND	Bleaching - Dyeing - Thermal treatment	Total surfactants	mg/l	0.10	0.88	1.8		2	Equalisation, Neutralisation, Grit separators, Screening, Coagulation and flocculation, Sedimentation	No information	4 times per year	APAT CNR IRSA 5170 + APAT CNR IRSA 5180 Man. 29 2003 + MPI	3 h medium composite sample - 3 h medium composite sample -
IT077_w {2}	IND	Dyeing	Anionic surfactants	mg/l	0.37	0.79	1.8			No information	Other	Twice per year	APAT IRSA CNR 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	Anionic surfactants	mg/l	0.50	1.15	2			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	Anionic surfactants	mg/l	0.80	1.54	2.1			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	Anionic surfactants	mg/l	1.00	1.56	2.2			Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. AVERAGED PERIOD FOR ELV 3 HOURS
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	Cationic surfactants	mg/l	0.40	1.20	2.5			No information	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	Anionic surfactants	mg/l	0.47	0.93	2.6			No information	Other	Twice per year	APAT IRSA CNR 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	Anionic surfactants	mg/l	0.60	1.75	2.8			Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. AVERAGED PERIOD FOR ELV 3 HOURS
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	Anionic surfactants	mg/l	0.80	1.41	2.87			No information	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT073_w {1}	IND	Dyeing - Functional finishing	Cationic surfactants	mg/l	0.90	1.43	2.9		300	No technique used	Other	Twice per year	Metedo interno n°22	
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	Cationic surfactants	mg/l	0.20	1.18	2.9			No information	Other	Twice per year	MARCONCINI SRL INTERNAL METHOD 22	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	Cationic surfactants	mg/l	0.40	1.83	3			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT073_w {1}	IND	Dyeing - Functional finishing	Anionic surfactants (MBAS)	mg/l	0.60	1.55	3		300	No technique used	Other	Twice per year	ARPAT CNR IRSA 5170 MAN 29 2003	
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	Cationic surfactants	mg/l	0.10	0.42	3			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	M008:2005 Rev.0, M.I. (d), M.I. (d)	Monitoring frequency: once every 4 monthsMeasurements 1,2,3 are inferior to detection limit: 0,1 - Monitoring frequency: once every 4 monthsMeasurements 2,3 are inferior to detection limit: 0,1 - Monitoring frequency: once every 4 monthsMeasurements 1,2,3 are inferior to detection limit: 0,1
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	Anionic surfactants (MBAS)	mg/l	0.10	1.18	3.34			No information	No information	No information	APAT IRSA -CNR 5170 Man 29 2003	
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	Anionic surfactants	mg/l	0.50	1.57	3.4			Other	24-hour flow proportional composite sample	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. AVERAGED PERIOD FOR ELV 3 HOURS
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	Anionic surfactants	mg/l	0.18	1.20	3.5			Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	Cationic surfactants	mg/l	0.20	1.50	3.9			Other	24-hour flow proportional composite sample	Twice per year	MARCONCINI SRL INTERNALMETHOD 22	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. MEASUREMENT 1 VALUE <0,2 mg/l. AVERAGED PERIOD FOR ELV 3 HOURS
IT074_w {2}	IND	Washing synthetic fibre - Scouring	Cationic surfactants	mg/l	0.20	1.60	4.1			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (YEAR 2015)
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	Cationic surfactants	mg/l	0.40	1.63	4.1			Other	24-hour flow proportional composite sample	Twice per year	MARCONCINI SRL INTERNALMETHOD 22	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. MEASUREMENT 1 VALUE <0,2 mg/l. AVERAGED PERIOD FOR ELV 3 HOURS
IT094_w {1}	IND	No information	Anionic surfactants (MBAS)	mg/l	0.71	2.04	4.5			Other	No information	Twice per year	APAT IRSA 5180 Volume 2:2003	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	Cationic surfactants	mg/l	0.20	2.85	5			Other	Other	Twice per year	INTERNAL METHOD	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (YEAR 2015)
IT065_w {1}	IND	No information	Cationic surfactants	mg/l	0.20	2.48	5			Other	No information	No information	MIESO06/11 REV 0	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	Cationic surfactants	mg/l	1.00	2.63	5.5			Other	24-hour flow proportional composite sample	Twice per year	MARCONCINI SRL INTERNALMETHOD 22	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. MEASUREMENT 1 VALUE <0,2 mg/l. AVERAGED PERIOD FOR ELV 3 HOURS
BE009_w {1}	DIR	Printing - Coating and laminating	Total surfactants	mg/l	7.21	7.21	7.21		3	Screening, Sedimentation, Equalisation, Activated sludge process, Sand filtration, Coagulation and flocculation, Flotation, Chemical oxidation (incl. Advanced oxidation), Sand filtration, Chemical reduction, Microfiltration, Reverse osmosis	Other, 24-hour flow proportional composite sample, Other	No information	No information	
IT061_w {1}	IND	Scouring - Wool Carbonising	Anionic surfactants	mg/l	1.20	2.90	7.6			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours; YEAR 2015
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	Cationic surfactants	mg/l	0.07	3.15	8.2			Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT065_w {1}	IND	No information	Anionic surfactants (MBAS)	mg/l	0.20	4.18	8.3			Other	No information	No information	MIESC01/09 rev 4/2011	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law
IT071_w {2}	IND	Dyeing - Other - Functional finishing	Anionic surfactants	mg/l	0.70	3.50	11.2			Other	Other	Twice per year	APAT CNR IRSA 5170 MAN 29 2003	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	Non-ionic surfactants	mg/l	0.62	4.31	11.6			Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	Anionic surfactants (MBAS)	mg/l	0.10	3.33	11.9			Equalisation	Other	4 times per year	No information	Authorized in derogation - Authorized in derogation - Authorized in derogation
IT087_w {1}	IND	Dyeing - Shrink-proof finishing - Shrink-proof finishing - Other	Total surfactants	mg/l	2.70	7.97	17.1		20.72	Equalisation	Not applicable, Grab/spot sample, Not applicable	Monthly	No information	Value refered to sampling period - Value refered to sampling period - Value refered to sampling period

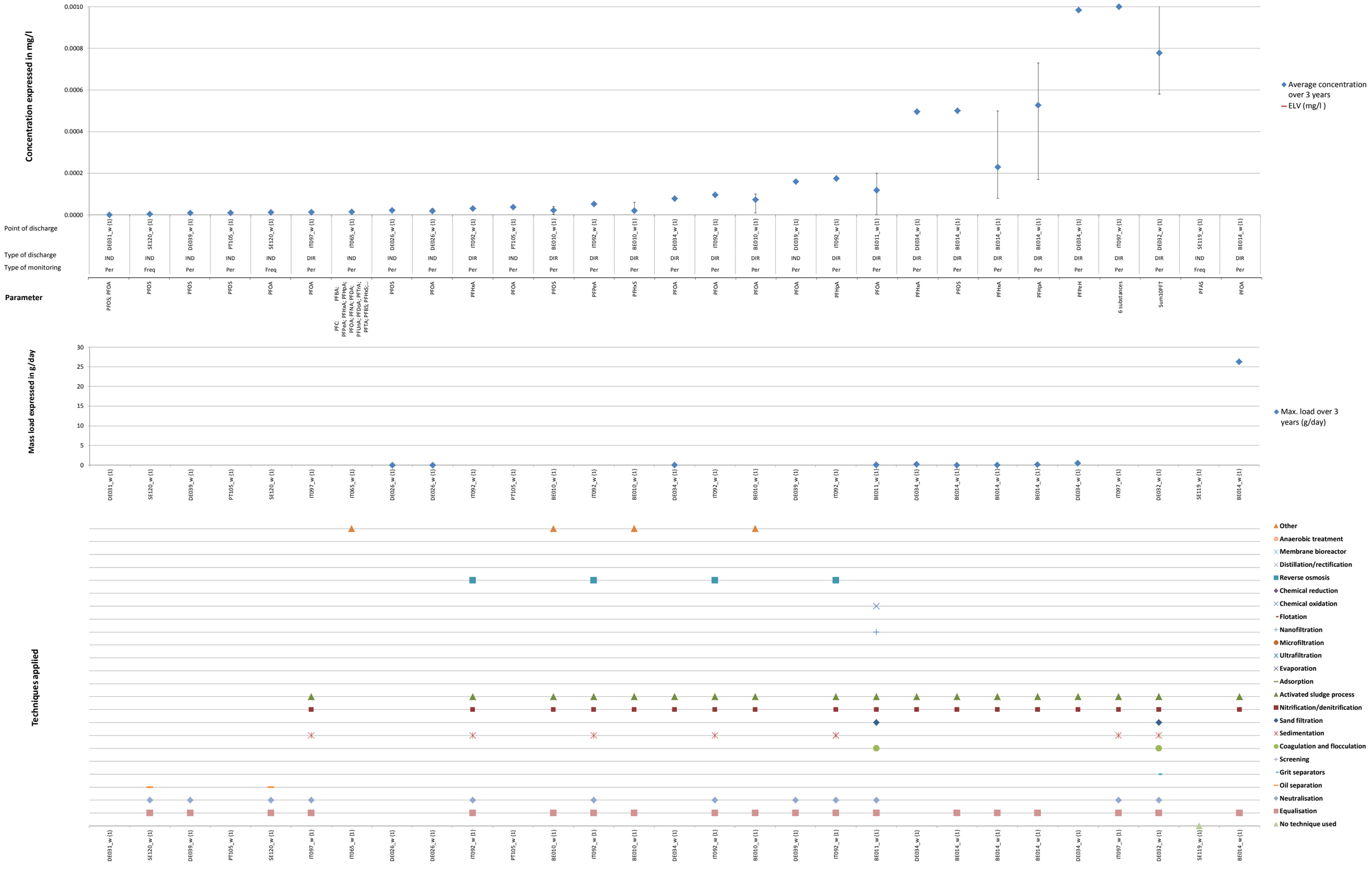
Surfactants - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT070_w {1}	IND	No information	Anionic surfactants (MBAS)	mg/l	0.70	7.53	22.3			No information	Not applicable	Twice per year	APAT-IRSA CNR 29-2003 5170	
PT113_w {1}	IND	Dyeing - Washing synthetic fibre - Bleaching - Functional finishing	Anionic surfactants (MBAS)	mg/l	3.00	10.00	23		50	No information	Other	Yearly	No information	detection limit: 4 mg/Ldetection limit: 3 mg/L (since 2018)
IT063_w {1}	IND	Dyeing - Fabric production - Dry cleaning - Printing - Printing - Functional finishing	Non-ionic surfactants (TAS)	mg/l	1.00	10.62	26.1			Equalisation	Other	4 times per year	No information	Authorized in derogation - Authorized in derogation - Authorized in derogation
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	Non-ionic surfactants	mg/l	0.20	10.50	31.1			No information	No information	No information	APAT IRSA -CNR 5180 Man 29 2003 con variazione	
IT070_w {1}	IND	No information	CTAB	mg/l	0.20	11.13	34.2			No information	Not applicable	Twice per year	DIN 38409	
IT082_w {2}	IND	Dyeing - Singeing - Functional finishing - Thermal treatment - Wool Fulling	Total surfactants	mg/l	0.20	11.61	34.44			No information	No information	No information	Calcolo	
IT077_w {2}	IND	Dyeing	Non-ionic surfactants	mg/l	0.17	9.36	36			No information	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT072_w {1}	IND	Thermal treatment - Scouring - Bleaching - Dyeing - Other	Non-ionic surfactants	mg/l	6.50	18.87	37			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT065_w {1}	IND	No information	Non-ionic surfactants (BIAS)	mg/l	9.50	25.32	40			Other	No information	No information	MIES001/10 rev3/2011	Requested by Italian Law - Requested by Italian Law - Requested by Italian Law
IT078_w {1}	IND	Wool Fulling - Washing synthetic fibre - Dyeing	Non-ionic surfactants	mg/l	2.80	17.70	40			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT074_w {2}	IND	Washing synthetic fibre - Scouring	Non-ionic surfactants	mg/l	19.40	33.33	42			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (YEAR 2015)
IT068_w {1}	IND	Washing synthetic fibre - Desizing - Scouring - Bleaching - Dyeing - Functional finishing - Other	Non-ionic surfactants	mg/l	22.60	35.90	45			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)
IT094_w {1}	IND	No information	Non-ionic surfactants (BIAS)	mg/l	14.90	27.47	45.2			Other	No information	Twice per year	APAT IRSA 5180 Volume 2:2003	
IT074_w {1}	IND	Washing synthetic fibre - Scouring - Functional finishing - Dry cleaning - Other	Non-ionic surfactants	mg/l	13.00	28.78	46			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (YEAR 2015)
IT061_w {1}	IND	Scouring - Wool Carbonising	Non-ionic surfactants	mg/l	15.00	32.80	47			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours; YEAR 2015
IT091_w {1}	IND	Scouring - Dyeing - Functional finishing - Thermal treatment - Other	Non-ionic surfactants	mg/l	20.00	31.67	51			No information	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT071_w {2}	IND	Dyeing - Other - Functional finishing	Non-ionic surfactants	mg/l	22.00	33.98	55			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT071_w {1}	IND	Dyeing - Bleaching - Scouring	Non-ionic surfactants	mg/l	20.00	37.67	56			No information	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
UK127_w {1}	IND	Mercerising - Bleaching - Dyeing - Scouring - Singeing - Printing	Anionic surfactants	mg/l	0.27	3.50	56.4	111336.42		Neutralisation	24-hour flow proportional composite sample	Weekly	No information	
IT077_w {1}	IND	Desizing - Mercerising - Scouring - Bleaching - Singeing - Thermal treatment	Non-ionic surfactants	mg/l	0.14	31.19	57			No information	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT064_w {1}	IND	Scouring	Non-ionic surfactants	mg/l	34.80	49.63	60			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours
IT073_w {1}	IND	Dyeing - Functional finishing	Non-ionic surfactants (TAS)	mg/l	16.00	33.67	65		300	No technique used	Other	Twice per year	UNI 10511-1:1996/A1:2000	
IT089_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	Non-ionic surfactants	mg/l	21.00	50.08	88			Other	24-hour flow proportional composite sample	Twice per year	UNI 10511-1:1996a1:2000	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. AVERAGED PERIOD FOR ELV 3 HOURS
IT070_w {1}	IND	No information	Non-ionic surfactants	mg/l	1.80	18.88	89.1			No information	Not applicable	Twice per year	APAT-IRSA CNR 29-2003 5180	
IT090_w {1}	IND	Scouring - Dyeing - Thermal treatment - Other - Bleaching	Non-ionic surfactants	mg/l	18.00	68.00	110			Other	24-hour flow proportional composite sample	Twice per year	UNI 10511-1:1996a1:2000	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. AVERAGED PERIOD FOR ELV 3 HOURS
IT070_w {1}	IND	No information	Total surfactants	mg/l	2.50	37.45	145.6		300	No information	Not applicable	Twice per year	SUMMATION MBAS+BIAS+CTAB	
IT085_w {1}	IND	Dyeing	Total surfactants	mg/l	80.00	88.30	157			Equalisation	Not applicable	Other	No information	Monitoring end frequency dependent on the operator of the off-site treatment plant
IT079_w {1}	IND	Scouring - Wool Fulling - Functional finishing - Thermal treatment - Other	Non-ionic surfactants	mg/l	27.20	99.73	174			Other	24-hour flow proportional composite sample	Twice per year	UNI 10511-1:1996a1:2000	AVERAGED PERIOD FOR ELV 3 HOURS - AVERAGED PERIOD FOR ELV 3 HOURS - DATA RELATED TO 2015. AVERAGED PERIOD FOR ELV 3 HOURS
IT069_w {1}	IND	Scouring - Bleaching - Mercerising	Non-ionic surfactants	mg/l	39.00	110.45	176.7			Other	Other	Twice per year	UNI 10511-1:1996/A1:2000	Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours - Averaging period for ELV: 3 hours (data referring to the year 2015)

Perfluorocarbons - Emissions to water



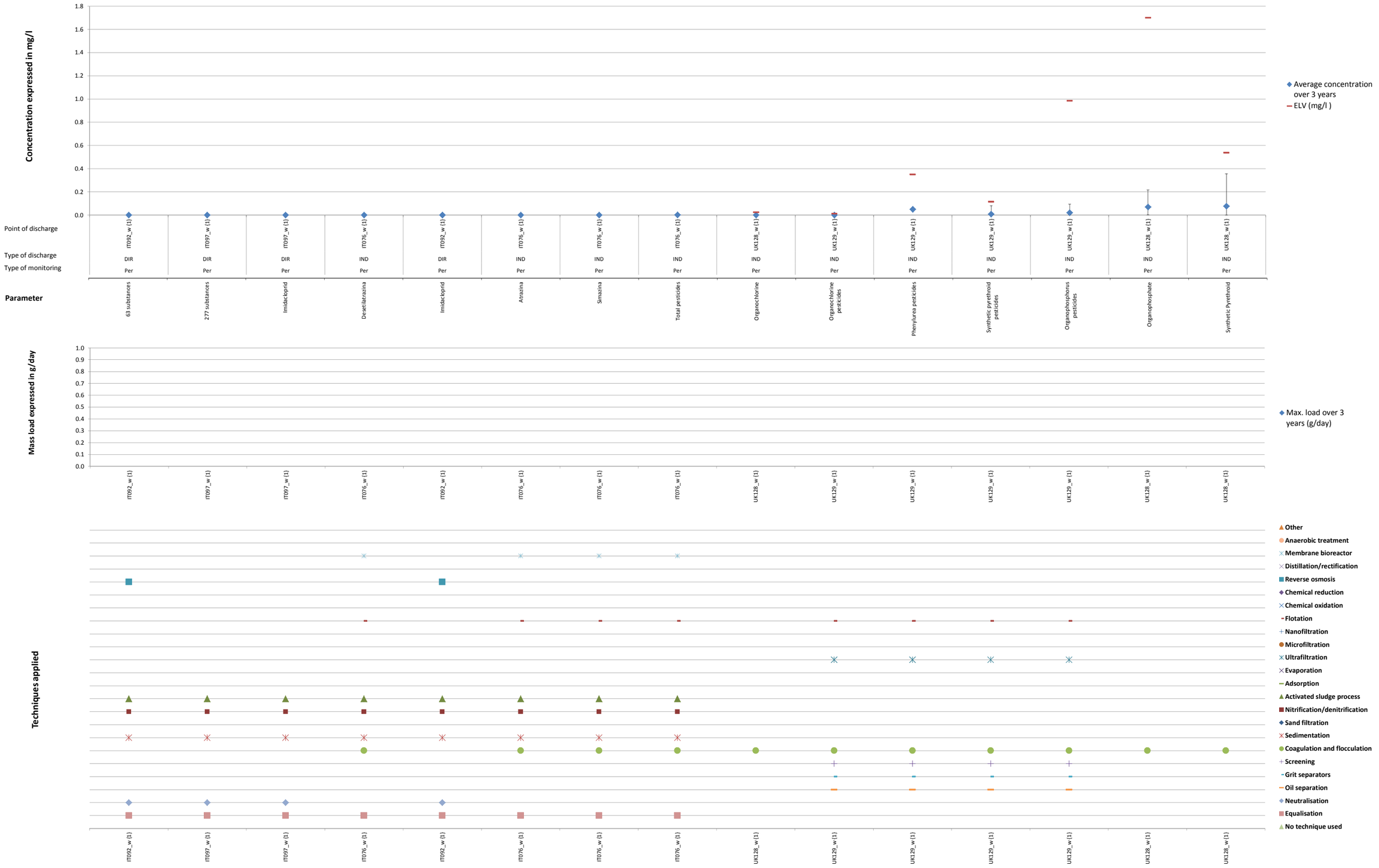
Perfluorocarbons - Emissions to water (zoom 0-0.001 mg/l)



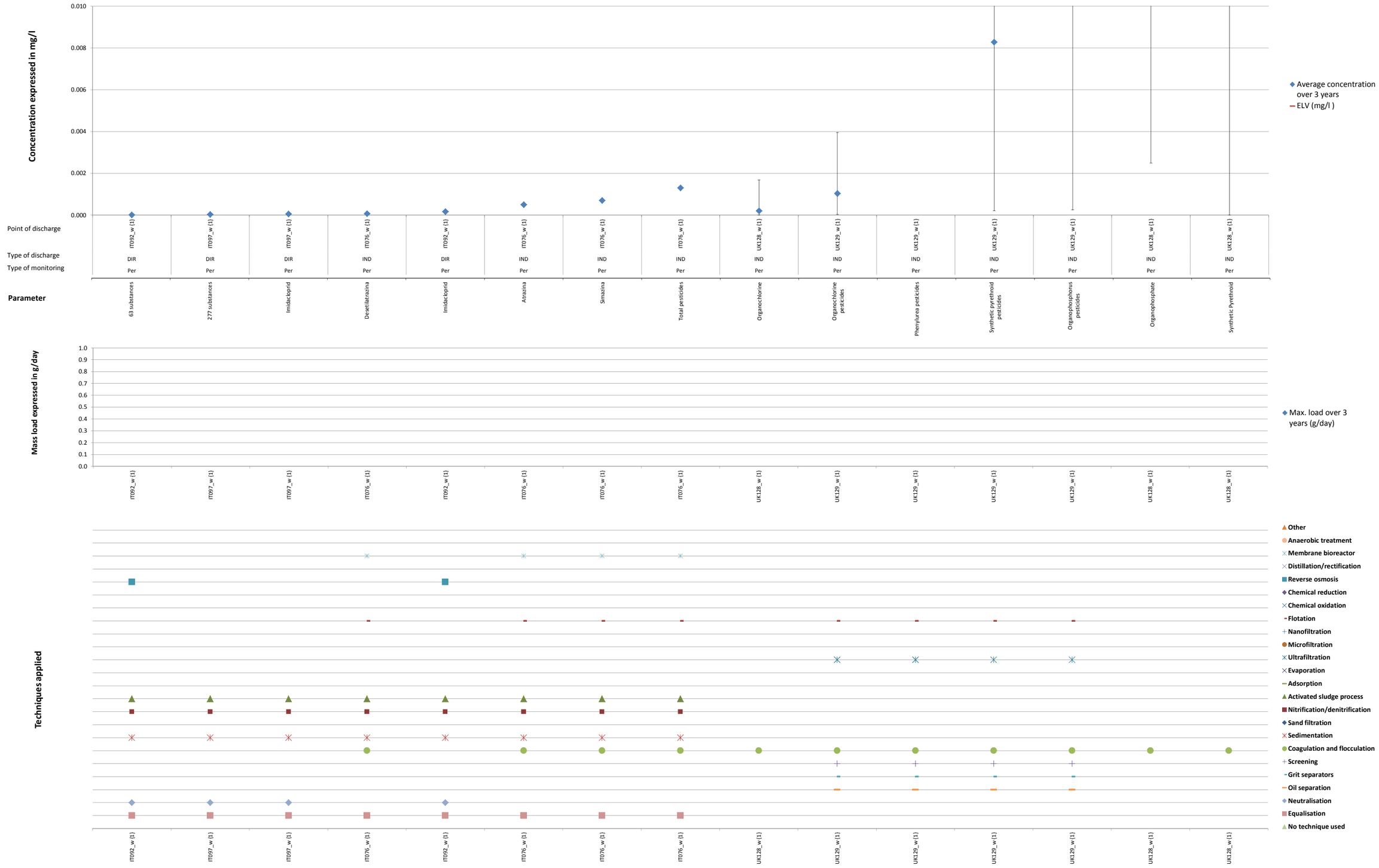
Perfluorocarbons - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
DE031_w {1}	IND	Dyeing	PFOS; PFOA	mg/l	0	0	0			No information	No information	Yearly	Liquid Chromatograph Mass Spectrometer	detection limit: PFOA&PFOS: 0,01, Other 0,5: result was lower as detection limit - detection limit: PFOA&PFOS: 0,01, Other 0,5: result was lower as detection limit - detection limit: PFOA&PFOS: 0,01, Other 0,5: result was lower as detection limit
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	PFOS	mg/l		0.0000042				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Other	No information	One week every two years, See appendix 2One week every two years, See Appendix 1
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	PFOS	mg/l	0.000009	0.0000090	0.000009			Equalisation, Neutralisation	Flow proportional composite sample	No information	No information	
PT105_w {1}	IND	Dyeing - Bleaching	PFOS	mg/l	0.00001	0.0000100	0.00001			No information	No information	Yearly	No information	Type of sampling not specified. Measurement value: < 0.01 (below level of quantification)
SE120_w {1}	IND	Washing synthetic fibre - Desizing - Bleaching	PFOA	mg/l		0.0000120				Neutralisation, Oil separation, Equalisation	24-hour flow proportional composite sample	Other	No information	One week every two years, See Appendix 2One week every two years, See Appendix 1
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	PFOA	mg/l	0.000013	0.0000130	0.000013			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	MI1207 Rev.2:2018	Monitoring frequency: spot
IT065_w {1}	IND	No information	PFC: PFBA; PFPeA; PFHxA; PFHpA; PFOA; PFNA; PFDA; PFUnA; PFDoA; PFTrA; PFTA; PFBS; PFHxS; PFHpS; PFOS; PFDS; PFOSA; PFHxO; PFOcO; PFDeO; PFOcAc; FTOH 10-2; PFHxS; N-MeFOSE; N-EtFOSE; N-MeFOSA; N-EtFOSA; FTA 10-2; H2PFDA; HPFHpA; HPFUnA; H4PFO	mg/l	0.00001	0.0000140	0.000018			Other	No information	Twice per year	MIP_CW1207_rev2:2018	Not detected, LOD 0.01 ; introduced during 2018 to follow the ZDHC Waste Water Guide lines
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	PFOS	mg/l	0.000019	0.0000216	0.0000246	0.0038868		No information	Other	No information	No information	
DE026_w {1}	IND	Washing synthetic fibre - Desizing - Dyeing - Bleaching	PFOA	mg/l	0.00001	0.0000190	0.0000305	0.004819		No information	Other	No information	No information	
IT092_w {1}	DIR	Dyeing - Other	PFHxA	mg/l	0.00003	0.0000310	0.000031			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	MI1207 rev2:2018	Monitoring frequency: spot
PT105_w {1}	IND	Dyeing - Bleaching	PFOA	mg/l	0.000037	0.0000373	0.0000373			No information	No information	Yearly	No information	Type of sampling not specified.
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	PFOS	mg/l	0.000002	0.0000217	0.00004		0.01	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	
IT092_w {1}	DIR	Dyeing - Other	PFPeA	mg/l	0.00005	0.00005	0.000052			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	MI1207 rev2:2018	Monitoring frequency: spot
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	PFHxS	mg/l	0.00001	0.0000200	0.00006			EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	2 measurements < 0,01 ug/l
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	PFOA	mg/l	0.000078	0.00008	0.000078	0.041184		Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	measured values from the authority surveillance
IT092_w {1}	DIR	Dyeing - Other	PFOA	mg/l	0.000096	0.00010	0.000096			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	MI1207 rev2:2018	Monitoring frequency: spot
BE010_w {1}	DIR	Bleaching - Dyeing - Bleaching - Scouring - Functional finishing	PFOA	mg/l	0.000009	0.00007	0.0001		0.05	EqualisationActivated sludge process, Nitrification/denitrification, Other	24-hour flow proportional composite sample	Other	No information	
DE039_w {1}	IND	Mercerising - Dyeing - Washing synthetic fibre - Bleaching - Desizing	PFOA	mg/l	0.00016	0.0002	0.00016			Equalisation, Neutralisation	Flow proportional composite sample	No information	No information	
IT092_w {1}	DIR	Dyeing - Other	PFHpA	mg/l	0.000175	0.0002	0.000175			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	MI1207 rev2:2018	Monitoring frequency: spot
BE011_w {1}	DIR	Dyeing	PFOA	mg/l	0.0000004	0.00012	0.0002	0.10147	0.05	Equalisation, Neutralisation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sand filtration, Nanofiltration, Chemical oxidation (incl. Advanced oxidation)	24-hour flow proportional composite sample	No information	WAC/IV/A/025,	- 1 measurement <0,10 ug/l -
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	PFHxA	mg/l	0.0005	0.0005	0.000496	0.261888		Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	measured values from the authority surveillance
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	PFOS	mg/l	0.0005	0.0005	0.0005	0.0282	0.01	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/A/025	5 measurements < DL (0,03 ug/l)
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	PFHxA	mg/l	0.0001	0.0002	0.0005	0.046873		Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/A/025	Limit value 200 ug/l (sum PFT excl. PFOA, PFOS)
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	PFHpA	mg/l	0.0002	0.0005	0.00073	0.177624		Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/A/025	Limit value 200 ug/l (sum PFT excl. PFOA, PFOS)
DE034_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing	PFPeH	mg/l	0.0010	0.0010	0.000984	0.519552		Activated sludge process, Nitrification/denitrification	Flow proportional composite sample	No information	No information	measured values from the authority surveillance
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	6 substances	mg/l	0.0010	0.0010	0.001			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	With reference to DIN38407-42 or CEN/TS15968 and followed by LCMS or LC/MS/MS analysis	Monitoring frequency: spotall the substance analysed are inferior to detection limit: <1 or < 0,01 µg/l
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	Sum10PFT	mg/l	0.0006	0.0008	0.0011			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Other	No information	Occasional - Occasional - Occasional
SE119_w {1}	IND	Washing synthetic fibre - Desizing - Functional finishing - Dyeing	PFAS	mg/l		0.0011				No technique used	24-hour flow proportional composite sample	No information	No information	- See appendix about PFAS-analysis. - See appendix about PFAS-analysis.
DE032_w {1}	DIR	Washing synthetic fibre - Desizing - Bleaching - Dyeing - Printing	Sum2PFT	No unit reported	0.04	0.088	0.15			Equalisation, Neutralisation, Grit separators, Coagulation and flocculation, Sedimentation, Sand filtration, Nitrification/denitrification, Activated sludge process	24-hour flow proportional composite sample	Other	No information	Occasional - Occasional - Occasional
BE014_w {1}	DIR	Bleaching - Dyeing - Functional finishing	PFOA	mg/l	0.006	0.084	0.3756	26.292	0.05	Equalisation, Activated sludge process, Nitrification/denitrification	24-hour flow proportional composite sample	No information	WAC/IV/A/025	

Pesticides - Emissions to water



Pesticides - Emissions to water (zoom 0-0.01 mg/l)



Pesticides - EMISSIONS TO WATER

EP water name	Type of discharge DIR = Direct IND = Indirect	Associated processes	KEI	Units for concentration values	Min. concentration over 3 years	Average concentration over 3 years	Max. concentration over 3 years	Max. load over 3 years (g/day)	ELV (mg/l)	Combination of techniques	Type of sampling	Monitoring frequency	Monitoring standard	Additional information
IT092_w {1}	DIR	Dyeing - Other	63 substances	mg/l	0.00001	0.00001	0.00001			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spotAll the substances analysed are inferior to detection limit: <0,01 µg/l
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	277 substances	mg/l	0.00003	0.00003	0.00003			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spotall the substance analysed are inferior to detection limit:until < 0,03 µg/l
IT097_w {1}	DIR	Dyeing - Shrink-proof finishing - Printing - Other	Imidacloprid	mg/l	0.00005	0.00005	0.000053			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spot
IT076_w {1}	IND	Raw wool scouring	Desetilatrazina	mg/l	0.00007	0.00007	0.00007			Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spot
IT092_w {1}	DIR	Dyeing - Other	Imidacloprid	mg/l	0.00017	0.0002	0.000165			Equalisation, Neutralisation, Activated sludge process, Nitrification/denitrification, Sedimentation, Reverse osmosis	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spot
IT076_w {1}	IND	Raw wool scouring	Atrazina	mg/l	0.0005	0.0005	0.0005			Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spot
IT076_w {1}	IND	Raw wool scouring	Simazina	mg/l	0.0007	0.0007	0.0007			Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spot
IT076_w {1}	IND	Raw wool scouring	Total pesticides	mg/l	0.0013	0.0013	0.0013			Equalisation, Flotation, Coagulation and flocculation, Activated sludge process, Nitrification/denitrification, Sedimentation, Membrane bioreactor	Not applicable	Other	APAT CNR IRSA 5060 Man 29 2003	Monitoring frequency: spot
UK128_w {1}	IND	Raw wool scouring	Organochlorine	mg/l	0	0.0002	0.001685		0.025	Coagulation and flocculation	24-hour flow proportional composite sample	4 times per year	No information	OC individual ELV - all values are Microgram/litre - HCB & Isomers 1.0 - HCH & Isomers 1.0 - Aldrin 1.0 - Dieldrin 1.0 - Endrin 1.0 - Endosulphan 1.0 - DDT & Isomers 10.0. - OC individual ELV - all values are Microgram/litre - HCB & Isomers 1.0 - HCH & Isomers 1.0 - Aldrin 1.0 - Dieldrin 1.0 - Endrin 1.0 - Endosulphan 1.0 - DDT & Isomers 10.0. - OC individual ELV - all values are Microgram/litre - HCB & Isomers 1.0 - HCH & Isomers 1.0 - Aldrin 1.0 - Dieldrin 1.0 - Endrin 1.0 - Endosulphan 1.0 - DDT & Isomers 10.0.
UK129_w {1}	IND	Raw wool scouring	Organochlorine pesticides	mg/l	0.000035	0.0010	0.003958		0.013	Grit separators, Screening, Oil separation, Coagulation and flocculation, Ultrafiltration, Flotation	24-hour flow proportional composite sample	4 times per year	liquid/liquid extraction, GPC/SPE cleanup, GC-MS analysis	7 different OC pesticides are separately limited and analysed for - values given are for combined OC pesticides. Individual ELV for each pesticide are: HCH = 5ug/litre, HCB = 1ug/litre; Aldrin = 1ug/litre; Dieldrin = 1ug/litre; Endrin = 1ug/litre; Endosu - as above - as above
UK129_w {1}	IND	Raw wool scouring	Phenylurea pesticides	mg/l	0.05	0.050	0.05		0.35	Grit separators, Screening, Oil separation, Coagulation and flocculation, Ultrafiltration, Flotation	24-hour flow proportional composite sample	4 times per year	liquid/liquid extraction, GPC/SPE cleanup, GC-MS analysis	2 different PU pesticides are separately limited and analysed for - values are given for combined PU pesticides. Individual ELV for each pesticide are: Flucofuron = 100ug/litre; Sulcofuron = 250ug/litre. These pesticides are no longer used in UK for tex - as above - as above
UK129_w {1}	IND	Raw wool scouring	Synthetic pyrethroid pesticides	mg/l	0.0002	0.008	0.08165		0.1145	Grit separators, Screening, Oil separation, Coagulation and flocculation, Ultrafiltration, Flotation	24-hour flow proportional composite sample	4 times per year	liquid/liquid extraction, GPC/SPE cleanup, GC-MS analysis	3 different SP pesticides are separately limited and analysed for - values given are for combined SP pesticides. Individual ELV for each pesticide are: Cyfluthrin =1ug/litre; Cypermethrin = 110ug/litre; Permethrin = 3.5ug/litre. All pesticide removal e - as above - as above
UK129_w {1}	IND	Raw wool scouring	Organophosphorus pesticides	mg/l	0.0003	0.020	0.09447		0.985	Grit separators, Screening, Oil separation, Coagulation and flocculation, Ultrafiltration, Flotation	24-hour flow proportional composite sample	4 times per year	liquid/liquid extraction, GPC/SPE cleanup, GC-MS analysis	3 different OP pesticides are separately limited and analysed for - values given are for combined OP pesticides. Individual ELV for each pesticide are: Propetamphos = 150ug/litre; Diazinon = 800ug/litre; Chlorfenvinphos = 35ug/litre. All pesticide remov - as above - as above
UK128_w {1}	IND	Raw wool scouring	Organophosphate	mg/l	0.0025	0.070	0.21586		1.7	Coagulation and flocculation	24-hour flow proportional composite sample	4 times per year	No information	OP individual ELV - all values are Microgram/litre - Propetamphos 800 - Diazinon 800 - Chlorfenvinphos 100. - OP individual ELV - all values are Microgram/litre - Propetamphos 800 - Diazinon 800 - Chlorfenvinphos 100. - OP individual ELV - all values are Microgram/litre - Propetamphos 800 - Diazinon 800 - Chlorfenvinphos 100.
UK128_w {1}	IND	Raw wool scouring	Synthetic Pyrethroid	mg/l	0	0.077	0.35476		0.537	Coagulation and flocculation	24-hour flow proportional composite sample	4 times per year	No information	SP individual ELV - all values are Microgram/litre - Cypermethrin 500 - Cyfluthrin 10.0 - Permethrin 17.0 - Deltamethrin 10.0 - SP individual ELV - all values are Microgram/litre - Cypermethrin 500 - Cyfluthrin 10.0 - Permethrin 17.0 - Deltamethrin 10.0 - SP individual ELV - all values are Microgram/litre - Cypermethrin 500 - Cyfluthrin 10.0 - Permethrin 17.0 - Deltamethrin 10.0

WASTE WATER CHARACTERISTICS: TOXICITY, BIODEGRADABILITY/ELIMINABILITY AND COLOUR

EP water name	Parameter	Monitoring frequency	Type of sampling	Unit	Individual measurements (unless mentioned otherwise)	ELV	Standard monitoring method	Additional information
DE025 w{1}	Toxicity 1	4 times per year	Grab/spot sample	GEI	Report 11 measurements: six times 1, five times 2	2	DIN EN ISO 15088	(Giftigkeit gegenüber Fischeiern)Toxicity to fish-spawn
BE007 w{1}	Toxicity 1	Yearly	Grab/spot sample;Not applicable	LC50 (96h)	0.431		WAC/V/B/004	
BE009 w{1}	Toxicity 1	No information	Grab/spot sample	%	7.9-10-8.9		OECD201;OECD202;ISO 11348-3:1996E	One time measurement (2012) P. Subcapitata;One time measurement (2012) Daphnia Magna;One time measurement 2012 (Virbrio Fischeri)
BE011 w{1}	Toxicity 1	No information	Grab/spot sample	OECD203	11.1-11-42-41.7	50	OECD203	2 measurements < 10%, expressed in %effect
FR134 w{1}	Toxicity 1	Twice per year	Grab/spot sample	No information	Report 6 measurements, all equal to 0	not detected	NF EN ISO 6341	
SE120 w{1}	Toxicity 1	No information	Flow proportional composite sample	%	5-5			One week every two years, See appendix 2;;One week every two years, See appendix 1
SE119 w{1}	Toxicity 1	No information	24-hour flow proportional composite sample	No information	5.1-5.5	1,3 % (15 min exp)		micro tox, period of one week. See appendix 3.;;Ec50 (15 min exp)
FR131 w{1}	Toxicity 1	4 times per year	24-hour flow proportional composite sample	No information	Report 12 measurements, all equal to 0	none	NF EN ISO 6341	measurements carried out for water agencies to calculate a fee
IT063 w{1}	Toxicity 1	Yearly	Other or more than one type	No information	17-3			Average sample of 3 hours
IT067 w{1}	Toxicity 1	No information	Grab/spot sample	%I 30'	11	50	UNI EN ISO 11348-3:2009	Value refered to sampling period - test on Vibrio fischeri
ES058 w{1}	Toxicity 1	4 times per year	Grab/spot sample	Equitox	2.45-0-0			
IT097 w{1}	Toxicity 1	Yearly	Grab/spot sample	%	0-16-31	50	UNI EN ISO 8692:2005 rev.2012	value refered to sampling period - Test on Pseudokirchrneriella Subcapitata
IT092 w{1}	Toxicity 1	Other (please specify in "additional information")	Grab/spot sample	%	3	50	UNI EN ISO 11348-1:2009	Monitoring frequency: spotValue refered to sampling period - Test on Vibrio Fischeri
IT096 w{1}	Toxicity 1	Yearly	Grab/spot sample	%	Report 3 measurements, all equal to 0	50	APAT CNR IRSA 8020B Man 29 2003	Value refered to sampling period
BE009 w{1}	Toxicity 2	No information	Grab/spot sample	%	45-12.5-78.4-0		OECD203	4 measurement (Oncorhynchus Mykiss) to determine if further actions were needed
SE119 w{1}	Toxicity 2	No information	24-hour flow proportional composite sample	%	100-5	Not toxic		EN ISO 9509:2006, period of one week. See appendix 3.;;40 vol% sample (% inhibition)
IT067 w{1}	Toxicity 2	No information	Grab/spot sample	%-24h	3	50	APAT CNR IRSA 8020B Man 29 2003	Value refered to sampling period - test n Daphnea Magna
IT097 w{1}	Toxicity 2	Yearly	Grab/spot sample	%	0-0-3	50	APAT CNR IRSA 8020B Man 29 2003	value refered to sampling period - Test on Daphnea Magna
IT092 w{1}	Toxicity 2	Other (please specify in "additional information")	Grab/spot sample	%	0	50	APAT CNR IRSA 8020B Man 29 2003	Monitoring frequency: spotValue refered to sampling period - Test on Daphnia
SE119 w{1}	Toxicity 3	No information	24-hour flow proportional composite sample	%	1.6-2	Not toxic		EN 8192-1995B, period of one week. See appendix 3. ;;40 vol% sample speed 30 and 180 minutes)
IT067 w{1}	Toxicity 3	No information	Grab/spot sample	%-72h	53	50	UNI EN ISO 8692:2012	Value refered to sampling period - test on Pseudokirchrneriella Subcapitata
IT097 w{1}	Toxicity 3	Yearly	Grab/spot sample	%	11-7-14	50	UNI EN ISO 11348-3:2009	value refered to sampling period - Test on vibrio fischeri
IT092 w{1}	Toxicity 3	Other (please specify in "additional information")	Grab/spot sample	%	26	50	UNI EN ISO 8692:2012	Monitoring frequency: spotValue refered to sampling period - Test on Pseudokirchneriella subcapitata
SE120 w{1}	Biodeg/elim	No information	Flow proportional composite sample	% DOC	52			One week sample, see appendix 3
SE119 w{1}	Biodeg/elim	No information	24-hour flow proportional composite sample	%	61-57	40% after 28 days		OECD 301A, period of one week . See appendix 3.;;52% after 10 days, 57 %after 28 days
PT110 w{1}	Colour	Monthly	24-hour flow proportional composite sample	mg/l Pt	Report 36 measurement in the range of 2-8.4, except 2 measurements of 24 and 32	not visible 1:20		
AT006 w{1}	Colour	Daily;Daily;Daily	24-hour flow proportional composite sample	[m-1] (SAC:436nm; 525; 620nm)	//	28/24/20;28/24/20;28/24/20	EN ISO 7887;EN ISO 7887;EN ISO 7887	3,4/2/1,2; self-monitoring daily;3,6/1,7/1,3; self-monitoring daily;2,4/0,8/0,5; self-monitoring daily
AT002 w{1}	Colour	Monthly	24-hour flow proportional composite sample;24-hour flow proportional composite sample;	[m-1] (SAC:436nm; 525; 620nm)	//	28/24/20;;	DIN EN ISO 7887;;	M1: 43/43/28; M2: 27/27/19; M3: 49/44/28; M4: 24/25/13; M6: 23/20/22; M7: 33/30/18; M8: 26/23/17; M9: 28/23/25; M10: 33/34/38; M11: 33/28/29; M12: 48/47/43;M1: 24/22/19; ;
AT004 w{1}	Colour	Twice per year	24-hour flow proportional composite sample	[m-1] (SAC:436nm; 525; 620nm)	//	28/24/20;28/24/20;28/24/20	EN ISO 7887 (MH);EN ISO 7887 (MH);EN ISO 7887 (MH)	M1: 8,2/5/3,2; M2: 8,1/6,2/4,4;M1: 2,1/1,6/0,81; M2: 10/5,5/3,8;M1: 8,8/6,1/4,6; M2: 4,5/2,8/3,5
BE013 w{1}	Colour	Yearly	Grab/spot sample	Pt-Co scale	16-56-187	-	MEIN001	sample 23.10.2015

WASTE WATER CHARACTERISTICS: TOXICITY, BIODEGRADABILITY/ELIMINABILITY AND COLOUR

EP water name	Parameter	Monitoring frequency	Type of sampling	Unit	Individual measurements (unless mentioned otherwise)	ELV	Standard monitoring method	Additional information
UK124 w{1}	Colour	Monthly		No information	Measurements reported as frequent sampling. Min=0.01-Ave=0.02-Max=0.04	0.1nm	Absorbance Scan - determined by scanning UV/ visible spectrometry	Measured in absorbance units nm
IT065 w{1}	Colour	Twice per year	Flow proportional composite sample	[m-1] (SAC:436nm; 525; 620nm)	0.01-0.01		ISO 7887:2001	not detected ; LOD 1 m-1 ISO 7887-2001 introduced during 2018 to follow the ZDHC Waste Water Guide lines
IT076 w{1}	Colour	Other (please specify in "additional information")	Grab/spot sample	No information	20	N.P. 1:20	APAT CNR IRSA 2020 Man 29 2003	Monitoring frequency: spotMeasurement is N.P. 1:20: not percepible with diluition 1:20Value refered to sampling period
ES058 w{1}	Colour	4 times per year	Grab/spot sample	No information	Report 3 measurements, all equal to 0			
AT001 w{1}	Colour	No information	24-hour flow proportional composite sample	[m-1] (SAC:436nm; 525; 620nm)	//			;;M3: 148/129/105; control measurement local authority
IT097 w{1}	Colour	Other (please specify in "additional information")	Other or more than one type	No information	Report 8 measurements, all equal to 20	N.P. 1:20	APAT CNR IRSA 2020 Man 29 2003;IRSA 2020/A;IRSA 2020/A	Monitoring frequency: spotMeasurements (N.P. 1:20) non percepition with diluition 1:20Value refered to sampling period;Monitoring frequency: once every 4 monthsMeasurements (N.P. 1:20) non percepition with diluition 1:20Value refered to sampling period;Monitoring frequency: once every 4 monthsMeasurements (N.P. 1:20) non percepition with diluition 1:20Value refered to sampling period
IT085 w{1}	Colour	Other (please specify in "additional information")	Grab/spot sample	No information	100-100-80-40-100-100		APAT CNR IRSA 2020	Measurements are N.P. 1:100: not percepible with diluition 1:100Monitoring frequency: spot;Measurement is N.P. 1:80: not percepible with diluition 1:80Monitoring frequency: spot;Measurements are N.P. 1:40 and N.P. 1:100: not percepible with diluition 1:40 and 1:100Monitoring frequency: spot
IT087 w{1}	Colour	Other (please specify in "additional information")	Grab/spot sample	No information	50-20-20-39-9-40	80		Monitoring frequency: spot
IT092 w{1}	Colour	Monthly	Grab/spot sample	No information	Report 34 measurements, twenty-three times 10, eleven times 20	20	IRSA 2020-A:2003;APAT CNR IRSA 2020A ;APAT CNR IRSA 2020A	not perceptible in dilution 1:10 - 1:20Value refered to sampling period
IT096 w{1}	Colour	Yearly	Grab/spot sample	No information	Report 3 measurements, all equal to 20	N.P. 1:20	APAT CNR IRSA 2020 Man 29 2003	Measurement is N.P. 1:20: not percepible with diluition 1:20Value refered to sampling period
AT005 w{1}	Colour	Twice per year	24-hour flow proportional composite sample	[m-1] (SAC:436nm; 525; 620nm)	//	20/ 28 / 24 1/m;20/ 28 / 24 1/m;20/ 28 / 24 1/m	DIN EN ISO 7887;DIN EN ISO 7887;DIN EN ISO 7887	M1: 32/30/35; M2: 32/29/33;M1: 46/15/8; M2: 39/52/61;M1: 35/32/36; M2: 33/21/16