# **Environmental Risks Associated with Legacy and Emerging Contaminants at European Aquaculture**

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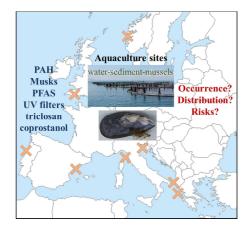
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Abstract (214 words - max 300)

The contamination of marine ecosystems by emerging contaminants such as personal care products or perfluoroalkyl substances is of increasing concern. This work assessed the concentrations of selected contaminants of emerging concern in European aquaculture areas, to evaluate their covariation with legacy contaminants (polycyclic aromatic hydrocarbons) and faecal biomarkers, and estimate the risks associated with their occurrence. The 9 study sites were selected in 7 European countries to be representative of the aquaculture activities of their region: 4 sites in the Atlantic Ocean and 5 in the Mediterranean Sea. Musks, UV filters, preservatives, perfluoroalkyl substances and polycyclic aromatic hydrocarbons were detected in at least one of the sites with regional differences. While personal care products appear to be the main component of the water contamination, polycyclic aromatic hydrocarbons were mostly found in sediments. As expected, generally higher levels of personal care products were found in sewage impacted sites, urbanised coasts and estuaries. The risk assessment for water and sediment revealed a potential risk for the local aquatic environment from both legacy and emerging contaminants, with a significant contribution of the UV filter octocrylene. Despite marginal contributions of perfluoroalkyl substances to the total concentrations, PFOS (perfluorooctane sulfonate) aqueous concentrations combined to its low ecotoxicity thresholds produced significant hazard quotients indicating a potential risk to the ecosystems.

## **Highlights**

- 59 emerging and legacy contaminants investigated in 9 European aquaculture areas
- Levels of personal care products were higher in sewage impacted zones
- 54 Hazard quotients revealed potential environmental risks from PAHs, PFAS and UV filters

## Keywords

Aquaculture, legacy and emerging contaminants, personal care products, perfluoroalkyl substances

## 1. Introduction

The conservation and sustainable use of the oceans, seas and marine resources is a worldwide concern identified as one of the 17 goals of the UN 2030 agenda for sustainable development. In 2016, the products of aquaculture and fisheries accounted for about 17 % of the global population's intake of animal protein and offered means of sustainable livelihoods to 10-12 % of the world population (FAO, 2016). Despite their ecological role as nursery habitats for many marine fish species and their socio-economic value, coastal and estuarine environments are threatened by the presence of human-produced chemicals originating from industrial, domestic and agricultural applications. There are about 100,000 chemicals traded in Europe, of which about 30,000 have a production volume higher than 1 t/y and have been on the market for more than 20 years.

Monitoring strategies for marine environments have essentially focused on the so-called legacy contaminants such as organochlorine pesticides or polychlorinated biphenyls of industrial and agro-

- 71 industrial origins, and polycyclic aromatic hydrocarbons (PAHs) of petrogenic and pyrolytic origins.
- Water pollution is identified as one of the main environmental concerns of European citizens
- 73 (Eurobarometer, European Union, 2017), and chemicals from industrial waste are generally
- 74 perceived as the main cause of marine environmental contamination (Jacobs et al., 2015). However,
- daily use chemicals such as cosmetic additives, intended for domestic, personal and hygiene use, are
- 76 released to the marine environment. Among fragrance compounds, galaxolide, tonalide and lilial are
- produced or imported up to 10,000 tons per year in the EU (Table S1) and are found in coastal
- 78 waters (Andresen et al., 2007; Sumner et al., 2010). Tonalide and lilial are currently under extensive
- 79 evaluation in the EU over concerns of potential endocrine disrupting effects and high aggregated
- 80 tonnage (tonalide), carcinogenic and mutagenic reprotoxic suspicions (CMR), and consumer and
- 81 wide dispersive use (lilial). UV filters are highly produced or imported chemicals (Table S1) and have
- been found in coastal waters, sediment and biota (Baron et al., 2013; Cunha et al., 2015; Picot Groz
- et al., 2014). Other PCPs such as triclosan, parabens and insect repellents have raised concerns over
- 84 their environmental ubiquity and potential ecotoxicity (Díaz-Cruz and Barceló, 2009; Merel and
- 85 Snyder, 2016; Pintado-Herrera et al., 2017a). Perfluoroalkyl substances (PFAS) are also considered as
- 86 emerging contaminants, despite being first synthesised in the 1950's. Their surfactant and thermal
- 87 properties generated multiple industrial and domestic applications, such as fire-fighting foams,
- lubricants, surfactants, pesticides, and coating additives. The unintentional releases and day-to-day
- 89 usages of PFAS have caused a ubiquitous contamination of ecosystems (Munoz et al., 2017a).
- The objectives of this work were to evaluate the levels of impregnation of emerging contaminants in
- 91 European aquaculture areas, evaluate their co-variation with legacy contaminants (PAHs) and faecal
- 92 biomarkers, and estimate the risks associated with these contaminants.

# 94 **2. Materials and methods**

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## 2.1 Sites and sampling

- 96 The sites of study were selected in 7 European countries in order to be representative of the
- 97 aquaculture activities throughout their region. Four sites are on the Atlantic Ocean and 5 in the
- 98 Mediterranean Sea. Full details on the sampling locations and parameters are given in Table S2,
- 99 Figure S1 and further information is available in a joint study on flame retardants (Aznar-Alemany et
- al., 2018). Water (n=27), sediment (n=24) and mussel (n=17) were sampled between May and June
- 2016, and physico-chemical parameters were measured in-situ. Glass and PET bottles were used for
- water samples, and aluminium trays for sediment and biota samples. The samples were transported
- 103 frozen and further stored in a freezer at -24 °C until analysis.
- 104 In Portugal, the mouth of the Aveiro lagoon was selected for study. Aquaculture (oysters, mussels),
- tourism and a major harbour are the main activities of the area. The treated sewage of the whole
- Aveiro region (325,700 population equivalent) is collected and discharged 3.3 km offshore.
- 107 Treatment and collection of wastewater effluents have been reported as only partial (Rada et al.,
- 108 2016). The three points were close to the coast, within 700 m of each other.
- 109 In the UK, the site is situated in the Exe estuary (south coast). Bed mussels are the main species
- harvested. The estuary drains an estimated 300,000 inhabitants, including the city of Exeter. The
- sampling points were in areas of commercial mussel collection, with UKS1 close to the mouth
- estuary, 500 m from UKS2 and 2 km from UKS3, upstream in the estuary. Note that the main Exeter
- sewage treatment plant (152,749 population-equivalent) is situated 8 km upstream.

114 115	Two sites on the same stretch of water were selected in Norway, a salmon farm and a bivalve (mainly scallops) farm situated in the Bergen fjord, over 25 km away from Bergen. The area is not
116	densely populated, with no major pollution sources identified.
117	In Spain, the site is situated in the Ebro delta, in a semi enclosed salt water lagoon on the
118	Mediterranean coast. Longline mussels are the main species harvested. The potential pressures
119	identified relate to agriculture (rice), fishing and tourism, and to the potential pollution of the Ebro
120	catchment area. The sampling was made along the mussel lines, with point SPS1 in more open
121	water. Note that the point SPS2 is situated within 500 m of a treated waste water outfall, serving a
122	16,046-population equivalent. The points SPS1 and SPS2 are 150 m and 500 m away, respectively.
123	In Italy, the fish farm site was selected in the northern Tyrrhenian Sea, being 1.5 km offshore and
124	away from two small towns (about 40,000 inhabitants combined). The other Italian site, the Goro
125	lagoon, is situated in the northern Adriatic Sea and produces essentially clams and mussels. The local
126	town of Goro has a 3,582 population-equivalent sewage treatment plant and the lagoon receives the
127	waters of the Po River, draining the North of Italy. The point ITS1 is situated in more open waters,
128	with ITS2 and ITS3 about 2 km inside the lagoon.
129	A fish farm of North-West Greece, on the Adriatic Sea, was selected. The area has a very small
130	population (nearest town of 600 inhabitants 10 km away), with no industrial or town sewage
131	discharge, but a dozen fish farms on a 10 km stretch of coast. The point GRF1 is the closest to the
132	coast, whereas GRF3 is about 200 m offshore.
133	In Albania, the site was in the Butrint lagoon, a semi enclosed water body in a rural area of low
134	population. The lagoon is one of the 2 major mussel farming areas of the country. In 2015, the
135	nearest town of Ksamil (about 3,000 inhabitants) was reported to have septic tanks only for waste
136	water treatment (Kumar, 2015).
137	Solvent-cleaned aluminium or combusted glass containers were used to collect and store the
138	samples. They were sent frozen to the analytical laboratories by courier delivery and stored at –
139	24 °C. Sediments and mussels were freeze-dried in the analytical laboratory. Several whole mussels
140	were collected from each point and the edible content was combined and homogenised after freeze-

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drying.

## 2.2 Chemicals and reagents

144 The selected analytes were 19 personal care products [PCPs] (tonalide, galaxolide, galaxolidone, 145 cashmeran, lilial, celestolide, phantolide, musk xylene, musk ketone, traseolide, oxybenzone, 146 octocrylene, homosalate, ethylhexylmethoxycinnamate [EHMC], 4-methyl benzylidene camphor [4-147 MBC], triclosan, methyl paraben, propyl paraben, and N, N-diethyl-meta-toluamide [DEET]), 2 sterols (coprostanol and cholesterol), 16 PAHs (naphthalene, acenaphthylene, acenaphtene, fluorene, 148 149 phenanthrene, anthracene, fluoranthene, pyrene, benz[a]anthracene, chrysene, 150 benzo[k + f]fluoranthene, benzo[a]pyrene, indeno[1,2,3-c,d]pyrene, benzo[ghi]perylene, and 151 dibenz[ah]anthracene) and 24 perfluoroalkyl substances (PFPA, PFHxA, PFHpA, PFOA, PFNA, PFDA, 152 PFUdA, PFDoA, PFTrA, PFTeA, PFBS, PFHxS, PFOS, PFDS, PFDS, PFOSA, 6:2 F53B, 4:2 F53B, FOSAA, 153 me-FOSAA, et-FOSAA, 4:2 FTS, 6:2 FTS, and 8:2 FTS). 12 labelled molecules were used as internal 154 standards (Table S3)

All chemicals, standards and internal standards were of the highest purity commercially available 155 156 and purchased from QMX Laboratories (UK), Sigma-Aldrich (UK) or LGC Standards (UK). Solvents were of HPLC grade and provided by Rathburn Chemicals Ltd., Walkerburn, UK. Copper powder was 157 158 purchased from Sigma-Aldrich (UK) and activated by using HCl 10 %. Ultra-pure water was produced 159 on-site using a Millipore Milli-Q system (specific resistivity of 18.2 M $\Omega$  cm - 25 °C). 160 2.3 Extraction and analysis 161 162 2.3.1 PCPs and PAHs PCPs and PAHs were quantified in water and sediment (University of Plymouth, UK). Water samples 163 164 were defrosted overnight and spiked with the internal standard mixture. Unfiltered samples (700 165 mL) were loaded onto a pre-conditioned (5 mL methanol) and pre-equilibrated (5 mL ultrapure 166 water) Oasis HLB 200 mg cartridge (Waters, UK), at a flow rate kept at 5-10 mL/min. After loading, 167 the sorbent was washed with 5 mL of ultrapure water and dried under vacuum for 30 min. The 168 elution was performed by sequential percolation of: (1) 3 mL ethyl acetate, (2) 3 mL of ethyl 169 acetate/dichloromethane 1:1, and (3) 3 mL of dichloromethane (DCM). The eluate was evaporated 170 to near dryness under a gentle stream of nitrogen and reconstituted in 300 µL of ethyl acetate. 171 Sediment samples were freeze dried for approximately 3 days and stored in the dark at room 172 temperature. 2 g of sediment was accurately weighed, transferred to a 40-mL glass vial and spiked 173 with the internal standard mixture. The analytes were extracted by ultrasonication assisted 174 extraction with 3 times 10 mL of DCM/acetonitrile (1:1, v:v) for 3 times 10 min in a sonication bath. 175 The extracts were centrifuged for 5 min at 2,500 rpm to collect the supernatants and combined. 176 Elemental sulphur was removed by adding approximately 1 g of activated copper powder to the 177 extracts. After nitrogen evaporation down to 200 µL, 30 mL of water was added, and the extracts 178 were purified by SPE on HLB cartridges following the water extraction protocol. 179 A 100 µL aliquot of the extracts was analysed by GC-MSD (1 µL injected splitless) operated in SIM 180 mode and another 50 μL was derivatised with 20 μL BSTFA + TMCS, 99:1 (Sigma-Aldrich, UK), for 60 181 min at 70 °C to form the trimethylsilyl derivatives of: methyl paraben, propyl paraben, homosalate, 182 triclosan, oxybenzone, coprostanol and cholesterol, before analysis by GC-MSD operated in SIM 183 mode (ions in Table S3) 184 185 2.3.2 PFAS 186 PFAS were screened in water, sediment and mussels (NIVA, Norway). Internal standards were added 187 to the water sample (1 L) before extraction using a HLB solid phase extraction cartridge (Waters). 188 The analytes were eluted of the HLB with methanol. The methanol extract was evaporated under 189 nitrogen and resolved in 60/40 acetonitrile and 2.6 mM ammonium acetate (aq). 190 Sediment and biota samples were homogenized and 2 g aliquots taken. Internal standards were 191 added and the samples were shaken and sonicated for 1 hour with acetonitrile (4 mL) and then 192 centrifuged for 5 min at 3,500 rpm. The solvent was decanted off and the procedure was repeated,

and the two extracts were combined. One mL of the extract was diluted with 0.5 mL 5.2 mM

sample was finally centrifuged with a 0.2 µm nylon Spin-X filter (Costar).

ammonium acetate (aq) and 75 µL acetic acid (cons) before active coal was added. After mixing, the

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196 197 198 199	PFAS analyses were performed on a UPLC-HRMS system. Separation was achieved on an Acquity BEH C8 column (100 x 2 mm x 1.7 $\mu$ m) with water (5.2 mM ammonium acetate) and acetonitrile mobile phases using a gradient elution program over a period of 8 minutes with a flow rate of 0.5 ml/min. The MS parameters are shown in Table S4.
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201	2.4 QA/QC
202 203 204	Appropriate procedural and instrumental blanks were analysed within each set of analyses. For compounds measured in the procedural blanks, the limits of detection and quantification were calculated as 3 and 10 times, respectively, the variability of the blank average concentration (n=5).
205 206 207 208 209 210 211 212	In all investigated sites, the water concentrations of methyl and propyl parabens showed a decreasing pattern from the 1 <sup>st</sup> sampling spot to the 3 <sup>rd</sup> sampling spot. This systematic behaviour seemed unrelated to the actual water contamination levels when compared to the other determinants and was attributed to a progressive decontamination of the sampling material during sampling operations. It is noteworthy that the sampling was performed by 6 different sampling teams using their own sampling material and that none of the sampling, procedural and instrumental blanks revealed contamination by parabens. No contamination issues were encountered in sediment.
<ul><li>213</li><li>214</li><li>215</li><li>216</li></ul>	Recoveries were calculated on fortified water and sediment samples (n=5) and were for PCPs and PAHs 82-124 % and 80-131 % for water and sediment, respectively, and, for PFAS, 44-124 and 79-103 % (Tables S2 and S3). In addition, NIST-1941b reference sediment was analysed for PAHs in sediment and indicated good agreement and precision (Figure S2).
217 218	Analysis of the sediment total organic content was performed using an Elemental Microanalysis EA1110 CHN analyser after acidification of the sediment aliquots with HCl (10 %).
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220	2.5 Risk assessment
<ul><li>221</li><li>222</li><li>223</li><li>224</li><li>225</li><li>226</li></ul>	The concentration of contaminants measured during this survey in water and sediment (MEC) were compared with threshold values to assess potential risks to the environment, following previously published methodologies (Langford et al., 2015; Pintado-Herrera et al., 2017b). Predicted no effect concentrations (PNEC) were used for the set of emerging contaminants when available and environmental quality standards (EQS) were used for the PAHs and selected PFAS (Table S5). Hazard quotients (HQ) were calculated as the ratio of the MEC to the PNEC or EQS.
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228	3. Results and discussions
229	3.1 Occurrence in water
230	The sum of the PCPs, PAHs and PFAS is given per site in Figure 1a and Table 1.
231	3.1.1 Musks and fragrances
<ul><li>232</li><li>233</li><li>234</li></ul>	The polycyclic musk galaxolide was the most concentrated fragrance with concentrations of 5.7-6.1 ng/L in the Italian Goro lagoon, 5.2-10.8 ng/L in the British Exe estuary, 17-99 ng/L in the Albanian lagoon and 92 ng/L in one spot of the Ebro delta site. Galaxolide's main transformation product, the

lactone derivative galaxolidone, was found at generally higher levels (ratio 2:1), with matching geographical trends, and up to 196 ng/L in the Ebro delta. Galaxolide sources are associated with treated or partially treated waste waters and galaxolidone can be formed during waste water treatment and after discharge into the environment (Lange et al., 2015). Our results suggest a sewage origin, as the contaminated spot of the Ebro delta is within 500 m of a treated waste water outfall and the British Exe estuary site is situated 8 km downstream of the Exeter city main waste water treatment plant. The site in the Italian Goro lagoon does not appear to be in a very populated area but receives the waters of the densely populated Po basin, of known historical pollution from municipal wastewater discharges (Casatta et al., 2015; European Commission, 2016). Conversely, the Norwegian and Greek sites, in areas of low population density, indicated limited to no galaxolide/galaxolidone contamination. In the Albanian lagoon, the higher values can relate to the absence of wastewater treatment in the local town (Kumar, 2015). The concentrations of galaxolide reported in our study are similar to those found in British coastal waters in 2007 (Sumner et al., 2010) but higher than those found in the German bight (< 5 ng/L) in the early 1990's, reported in one of the first observation of musks in marine waters (Bester et al., 1998). As the nitro-musks were partially phased out for persistence and toxicity, increase in the use of galaxolide as a replacement compound over the past 30 years most likely accounts for this increase.

Within the exception of tonalide, found in one sample at 12 ng/L and matching a galaxolide contaminated spot (SPS2), the other polycyclic musks celestolide, phantolide and traseolide were not detected, in agreement with their lower reported use and previous reports in coastal waters (Aminot et al., 2017; Sumner et al., 2010). Among nitro-musks, only musk ketone was measured at low levels (<6 ng/L) in the samples also showing higher galaxolide concentrations. Nitro musks were banned or substituted with polycyclic musks in the 1980's and their lower concentrations match previous studies in coastal waters. Lilial, a less widely reported aromatic aldehyde fragrance, was not found in any of the studied sites despite its widespread use in cosmetics (1,000 – 10,000 tonnes per year in REACH; (Celeiro et al., 2015). Rapid degradation through wastewater treatment and after discharge can explain our results, as it is documented as readily biodegradable according to OECD criteria in the REACH chemicals database.

### 3.1.2 Preservatives and insect repellents

As previously discussed, methyl and propyl parabens results were discarded following the evidence of a ubiquitous contamination occurring during sampling.

The antiseptic compound triclosan was quantified in 10 samples, at concentrations below 2 ng/L. The highest values were found in the waters from the urbanised Exe estuary in the UK (0.4 - 1.3 ng/L) and close to the sewage treatment plant outfall in the Ebro delta (1.9 ng/L). In previous studies, low ng/L were also measured in the Hudson river estuary (Wilson et al., 2009) whilst 1-2 order of magnitude higher concentrations (27-314 ng/L) were found in estuarine waters from the south of Spain (Pintado-Herrera et al., 2014). With concerns over its endocrine disrupting potential and its broad-spectrum antibacterial activity that has led to restrictions on its use in cosmetics in EU from the beginning of 2017, under ten tonnes of triclosan per year are currently imported/manufactured in the European Union (REACH). Its occurrence in sewage-impacted coastal zones needs to be documented in the coming years to evaluate the environmental impact of such policies.

The insect repellent DEET was detected in 17 out of the 27 water samples and was quantified between the limit of quantification (LQ 1 ng/L) and 12.5 ng/L, confirming its reported ubiquity (Merel and Snyder, 2016). Similarly to fragrance compounds, findings occurred mostly in the sewage impacted spots (the British estuary Exe and one sampling location of the Spanish Ebro delta), consistent with its application as a skin product and further wash-off in waste waters. In the Ebro delta in particular, a high use of DEET is likely, being an area known for substantial populations of mosquitoes growing in the rice fields.

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### 3.1.3 UV filters

Four of the 5 monitored UV filters were found in water samples. Octocrylene had the highest concentrations (median 19 ng/L), followed by homosalate (median 13 ng/L), EHMC (median 9 ng/L) and 4-MBC (median 2 ng/L). Octocrylene was ubiquitous from 1.2 ng/L to 509 ng/L. The Spanish Ebro delta site indicated a similar contamination profile compared to other sewage related markers, with the SPS2 spot (303 ng/L) exhibiting concentrations 8 times higher than the other spots of this site. The levels in the Aveiro lagoon in Portugal, ranging from 27 to 46 ng/L, were comparable to those encountered in the north Italian fish-farming site (19 to 77 ng/L) and in the north Greek fish farming site (24-87 ng/L). The concentrations measured in the Butrint lagoon (Albania) spanned a wider range, from 19 to 509 ng/L, with no clear geographical distribution but in agreement with galaxolide findings. In the Exe estuary (UK), the Norwegian fjord and the Goro lagoon (Italy), octocrylene concentrations were notably lower: 4.3, 9.8 and 4.2 ng/L, respectively. EHMC and homosalate showed generally similar geographical distributions to octocrylene. The camphor-based compound 4-MBC had lower levels and was quantified only in the Aveiro lagoon site (Portugal) and in the sewage-impacted Ebro delta spot, at concentrations in the low ng/L. Interestingly, the UV filters contamination hot spots do not necessarily match those of other sewage markers, in particular in the Exe estuary (UK) and Goro lagoon (Italy). Previous studies have successfully correlated UV filter concentrations and touristic recreational activities (Langford and Thomas, 2008; Mandaric et al., 2017; Picot-Groz et al., 2018). The littoral of the Po delta is a preserved natural area where tourism is limited. The south coast of the UK is a popular touristic destination in summer but the early sampling period (mid-June) was likely in a period of lower sunscreen product use. Conversely, the higher touristic season at the same period of time in milder southern European countries could account for the higher concentrations observed in Spain, Portugal and Greece.

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## 3.1.4 Sewage biomarker

Coprostanol, a sterol produced in mammalian digestive systems, is a useful marker of faecal contamination for tracing sewage inputs (Readman et al., 2005; Tolosa et al., 2014). Water concentrations ranged from below the limit of detection (LD) to 250 ng/L in the British estuary. Waters of the Norwegian fjord (bivalves and fish culture), the Albanian lagoon (mussels) and of the Italian fish farming site exhibited negligible concentrations, attributed to the lower population of the studied areas or the higher distance to the shore. In the Ebro delta (Spain), the concentration at the site close to the sewage discharge (SPS2 - 46 ng/L) was more than 10 times higher than those 1 to 4 km further (SPS1 and SPS3, respectively), indicating its situation in the plume. In the Exe estuary, the concentrations were found to decrease gradually from the site UKS3 to UKS1, i.e. from the middle estuary to more open seas (250 to 134 ng/L). In the Aveiro lagoon (Portugal), the concentrations ranged from 12 to 33 ng/L, suggesting incomplete collection of the sewage in the offshore

322 discharging collector. Coprostanol was found in the Greek site at values between 35 and 59 ng/L, 323 indicating possible contamination by faecal material in the surrounding waters. 324 325 3.1.5 Polycyclic aromatic hydrocarbons 326 PAHs were almost only detected in the Exe estuary (UK), with values ranging from 22 to 46 ng/L as a 327 sum of the 16 PAHs. Their decreasing distribution from the inside of the estuary towards more open 328 waters is in agreement with the turbidity distribution, proxy for suspended solid concentrations (see 329 Table S2). The particulate fraction most likely accounts for these results, as PAHs are hydrophobic 330 compounds. The marginal values (0.6-1.2 ng/L as the sum of the PAHs) measured in the Aveiro 331 lagoon (Portugal) can relate to the surrounding harbour and industrial area. High sum of the PAHs in 332 Spanish samples is due to the light naphthalene and acenaphthylene, attributed to a local oil spill. 333 3.1.6 Perfluoroalkyl substances 334 Out of the 24 monitored PFAS, 7 legacy PFAS were found at least once above their LD (between 0.1 335 and 0.4 ng/L depending on the compounds) with total concentrations as high as 25-30 ng/L in the 336 337 Goro lagoon in the Po delta. In this site, PFBS was the dominant compound (17-19 ng/L) followed by 338 PFPA and PFOA (both at 3-4 ng/L), whilst PFHxA, PFHxA, PFHxS and PFOS were in the low ng/L. 339 Alternative PFAS such as 6:2 FTS, FOSAA or the PFOS replacement 6:2 F53B were not found in any 340 sample. The Exe estuary (UK) and the sewage-impacted spot in the Ebro delta had summed 341 concentrations of 4-8 and 1.6 ng/L, respectively. PFOS was the dominant compound in the Exe 342 estuary (UK) and had notable levels in the Goro lagoon (Italy), Aveiro lagoon (Portugal) and 343 Norwegian fjord fish farm site. 344 The molecular profile observed in the water was generally in good agreement with previous reports, with a predominance of short to medium perfluoroalkyl chain-length compounds such as PFHxA, 345 346 PFOA, PFBS and PFOS (Pignotti et al., 2017). Unusually high level of PFBS in the water such as those measured consistently in the Po delta (16-21 times higher than PFOS in all 3 samples) have been 347 348 previously attributed to local industrial point sources, such as in the Rhine River (Kwadijk et al., 349 2010) or in Shanghai surface waters (Sun et al., 2018). The higher turbidity measured in the British 350 Exe estuary and the high affinity of PFOS to suspended particles (Munoz et al., 2017b) accounted for 351 the relative prevalence of PFOS in this hydrosystem.

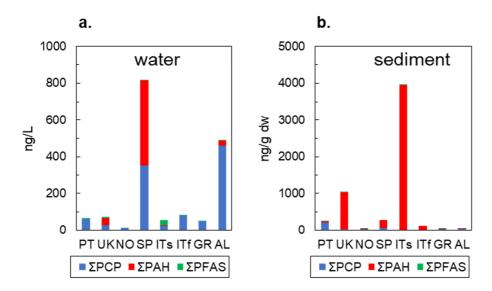


Figure 1. Water and sediment concentrations of PCPs, PAHs and PFAS (average of the site 3 sampling spots).

Secondary   Seco	Section   Sect		LD	LQ																											
Secondary   1	Secondary   12   67   145   83   81   82   81   82   81   82   82   71   82   82   80   80   80   80   80   80	Musks			PTS1	PTS2	PTS3	UKS1	UKS2	UKS3	NOF1	NOF2	NOF3	NOS1	NOS2	NOS3	SPS1	SPS2	SPS3	ITS1	ITS2	ITS3	ITF1	ITF2	ITF3	GRF1	GRF2	GRF3	ALS1	ALS2	ALS3
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Self-Self-Self-Self-Self-Self-Self-Self-	Seminary   Seminary		1.0	6.1	12 5	<10	<10	<10	ZID.	ZI D	<i.d.< td=""><td><i.d.< td=""><td>-ID</td><td><i.d.< td=""><td>&lt;1.D</td><td>ZI D</td><td>10 2</td><td>1/1 1</td><td>7.2</td><td><i d<="" td=""><td>ZID.</td><td><i.d.< td=""><td><i.d.< td=""><td>&lt;10</td><td>&lt;10</td><td><i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<></td></i.d.<></td></i.d.<></td></i></td></i.d.<></td></i.d.<></td></i.d.<>	<i.d.< td=""><td>-ID</td><td><i.d.< td=""><td>&lt;1.D</td><td>ZI D</td><td>10 2</td><td>1/1 1</td><td>7.2</td><td><i d<="" td=""><td>ZID.</td><td><i.d.< td=""><td><i.d.< td=""><td>&lt;10</td><td>&lt;10</td><td><i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<></td></i.d.<></td></i.d.<></td></i></td></i.d.<></td></i.d.<>	-ID	<i.d.< td=""><td>&lt;1.D</td><td>ZI D</td><td>10 2</td><td>1/1 1</td><td>7.2</td><td><i d<="" td=""><td>ZID.</td><td><i.d.< td=""><td><i.d.< td=""><td>&lt;10</td><td>&lt;10</td><td><i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<></td></i.d.<></td></i.d.<></td></i></td></i.d.<>	<1.D	ZI D	10 2	1/1 1	7.2	<i d<="" td=""><td>ZID.</td><td><i.d.< td=""><td><i.d.< td=""><td>&lt;10</td><td>&lt;10</td><td><i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<></td></i.d.<></td></i.d.<></td></i>	ZID.	<i.d.< td=""><td><i.d.< td=""><td>&lt;10</td><td>&lt;10</td><td><i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<></td></i.d.<></td></i.d.<>	<i.d.< td=""><td>&lt;10</td><td>&lt;10</td><td><i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<></td></i.d.<>	<10	<10	<i.d.< td=""><td>&lt;10</td><td>۷۱.0</td><td>10 E</td><td>ZID.</td><td>14.0</td></i.d.<>	<10	۷۱.0	10 E	ZID.	14.0
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methy-prophene 0.5 16 128 128 128 53 97 54 40 478 1297 648 868 624 138 3 125 114 34 40 40 40 40 40 40 40 40 40 40 40 40 40	methyfospower 0.5 1.6 21.8 12.8 5.9 9.7 5.4									0.0									1010												
Property   15   9   94   17   18   18   18   18   18   18   18	Part		0.5	1.6	21.6	12.8	5.9	9.7	5.4	<lq< td=""><td>476.3</td><td>287.0</td><td>49.8</td><td>86.6</td><td>62.4</td><td>38.3</td><td>28.5</td><td>11.4</td><td>3.4</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><lq< td=""><td><lq< td=""><td>1.6</td><td>1.6</td><td>1.7</td><td>1.6</td><td>18.4</td><td>4.7</td><td>7.9</td></lq<></td></lq<></td></ld<></td></ld<></td></ld<></td></lq<>	476.3	287.0	49.8	86.6	62.4	38.3	28.5	11.4	3.4	<ld< td=""><td><ld< td=""><td><ld< td=""><td><lq< td=""><td><lq< td=""><td>1.6</td><td>1.6</td><td>1.7</td><td>1.6</td><td>18.4</td><td>4.7</td><td>7.9</td></lq<></td></lq<></td></ld<></td></ld<></td></ld<>	<ld< td=""><td><ld< td=""><td><lq< td=""><td><lq< td=""><td>1.6</td><td>1.6</td><td>1.7</td><td>1.6</td><td>18.4</td><td>4.7</td><td>7.9</td></lq<></td></lq<></td></ld<></td></ld<>	<ld< td=""><td><lq< td=""><td><lq< td=""><td>1.6</td><td>1.6</td><td>1.7</td><td>1.6</td><td>18.4</td><td>4.7</td><td>7.9</td></lq<></td></lq<></td></ld<>	<lq< td=""><td><lq< td=""><td>1.6</td><td>1.6</td><td>1.7</td><td>1.6</td><td>18.4</td><td>4.7</td><td>7.9</td></lq<></td></lq<>	<lq< td=""><td>1.6</td><td>1.6</td><td>1.7</td><td>1.6</td><td>18.4</td><td>4.7</td><td>7.9</td></lq<>	1.6	1.6	1.7	1.6	18.4	4.7	7.9
Infolsion   O.   1	Interest   Column	<u> </u>		_															_												
Secondaries   1	DET   13   10   10   10   12   13   14   15   15   14   15   15   15   15															-,-															
Face Information   Composition   Compositi	Free Househors   Free			1.0	<lq< td=""><td>1.2</td><td><lq< td=""><td>7.8</td><td>9.2</td><td>10.8</td><td><lq< td=""><td><lq< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<></td></ld<></td></ld<></td></lq<></td></lq<></td></lq<></td></lq<>	1.2	<lq< td=""><td>7.8</td><td>9.2</td><td>10.8</td><td><lq< td=""><td><lq< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<></td></ld<></td></ld<></td></lq<></td></lq<></td></lq<>	7.8	9.2	10.8	<lq< td=""><td><lq< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<></td></ld<></td></ld<></td></lq<></td></lq<>	<lq< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<></td></ld<></td></ld<></td></lq<>	<ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<></td></ld<></td></ld<>		<ld< td=""><td><ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<></td></ld<>	<ld< td=""><td><lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<></td></ld<>	<lq< td=""><td>12.5</td><td><ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<></td></lq<>	12.5	<ld< td=""><td></td><td>1.7</td><td></td><td><lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<></td></ld<>		1.7		<lq< td=""><td></td><td></td><td><ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<></td></lq<>			<ld< td=""><td><ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<></td></ld<>	<ld< td=""><td></td><td><ld< td=""><td><ld< td=""><td></td></ld<></td></ld<></td></ld<>		<ld< td=""><td><ld< td=""><td></td></ld<></td></ld<>	<ld< td=""><td></td></ld<>	
Semigration	Composition	ΣPCPs	-	-	75.6	44.6	39.3	31.8	25.0	27.4	4.2	4.7	4.3	42.2	1.6	2.3	66.9	642.4	78.4	22.2	31.1	26.2	127.7	32.6	78.9	35.1	88.6	12.0	667.4	25.3	374.4
Chebestere   16   48   48   648   487   540   480   5   682   0   678   3   178   0   178   17	Displayment   16   481   6548   5487   5240   5481   5482   5781   2775   2786   2867   2786   278	Faecal biomarkers																													
Polygold Acomatic Mythorizations 1.9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Polycycle Aromatic Hydrocarhoma   1/4   49.6   10   10   10   10   10   10   10   1	coprostanol	0.5	1.6	11.7	29.4	33.0	134.2	170.1	250.0	2.2	2.4	<ld< td=""><td>5.6</td><td><ld< td=""><td>1.9</td><td>3.1</td><td>46.2</td><td>4.0</td><td>13.1</td><td>11.1</td><td>10.1</td><td>3.4</td><td><ld< td=""><td><ld< td=""><td>59.0</td><td>37.9</td><td>35.2</td><td>2.0</td><td>1.6</td><td>6.4</td></ld<></td></ld<></td></ld<></td></ld<>	5.6	<ld< td=""><td>1.9</td><td>3.1</td><td>46.2</td><td>4.0</td><td>13.1</td><td>11.1</td><td>10.1</td><td>3.4</td><td><ld< td=""><td><ld< td=""><td>59.0</td><td>37.9</td><td>35.2</td><td>2.0</td><td>1.6</td><td>6.4</td></ld<></td></ld<></td></ld<>	1.9	3.1	46.2	4.0	13.1	11.1	10.1	3.4	<ld< td=""><td><ld< td=""><td>59.0</td><td>37.9</td><td>35.2</td><td>2.0</td><td>1.6</td><td>6.4</td></ld<></td></ld<>	<ld< td=""><td>59.0</td><td>37.9</td><td>35.2</td><td>2.0</td><td>1.6</td><td>6.4</td></ld<>	59.0	37.9	35.2	2.0	1.6	6.4
Hydrocathons	Indications   1.5   1.6   1.5   1.6   1.5   1.	cholesterol	14.6	48.1	6543.6	4987.9	5240.6	4301.5	6382.0	6735.3	2175.9	2116.5	2691.0	6692.6	1122.8	2250.5	3300.3	9394.0	5544.2	3918.5	3773.1	2474.7	1477.6	3782.9	816.9	4581.3	7425.3	4322.7	5246.5	2946.4	7792.2
Importance   149   96   97   97   98   98   98   98   98   98	Implication	Polycyclic Aromatic																													
Semaphthylese   12   38   4D   4D   4D   4D   4D   4D   4D   4	Sempolithylene   12   38   40   40   40   40   40   40   40   4	Hydrocarbons																													
Seemaphthene   12   38   38   40   40   40   40   40   40   40   4	Description   12   38   61   61   61   61   61   61   61   6																														
Figure   F	Finance   Oi   20																														
Penentherner   O. 1	Denanthrene   0.8   2.8   ct.   ct																	-,-													
Semble   S	Semble   Color   Col	-								_																					
Huberthete   Oil	Floranthene	p																													
Prince   1.0   1	Prime																														
Femilicipal Interface   Color   Colo	Energiginathragene   0.1   0.3   cl.   c																							_							
Chysical Renzig  Disparation   Chysical Renzig  R	Empropriate   Coronary   Corona																		_												
Berno[p fluoranthene   0.0   0.1   0.0   0.1   0.0   0.0   0.1   0.0	Semzo[p]fluoranthene   0.0   0.1   0.0   0.1   0.0   0.0   0.1   0.0   0.0   0.1   0.0																														
Semicolifylinoranthene   1.0	Bernoilifluranthene   0.1   0.2   c.1.0   c.																		_												
Semblidge   Semb	Benzo pjyrene   0.0   0.1   0.0   0.1   0.0   0.1   0.0   0.0   0.1   0.0   0.0   0.1   0.0																		_												
Indenoin   1,2,3-c,d] pyrene   0.2   0.5   0.0	Indeno(1,2,3-c,d)pyrene   0.2   0.5   cLD   cL																														
Dibenzigh, in instruction	Dibenz[a,h]anthriacene   0.2   0.7   < LD   < LD					-																									
Renze   Benze   Benz	Benzolghi/perylene   0.3   1.0   < LQ   <																														
Seminoral Normal Norm	FPAHS   Perficionality   Perficionalit		_																_												
Perfusionally   Substances   Perfusionally   Substances   Perfusionally   Substances   Perfusionally   Substances   Perfusional No.   Pe	Perfluorally   Substances   Color		-	-	0.6	1.2	0.8	22.1	40.9	46.4	-	-	-	-	-	-	306.4	12.1	881.4	1.1	0.1	-	-	-	-	-	-	-	-	43.6	4.3
Substances         Substan	Substances         U																														
PFHXA 0.1 0.4 0.0 0.1 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	PFHXA	•																													
PFHpA         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.1         0.4         0.1 </td <td>  PFHpA   0.1</td> <td>PFPA</td> <td>0.1</td> <td>0.4</td> <td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>0.9</td><td>0.9</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>3.5</td><td>3.1</td><td>4</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td>	PFHpA   0.1	PFPA	0.1	0.4	<ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>0.9</td><td>0.9</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>3.5</td><td>3.1</td><td>4</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<>	<ld< td=""><td><ld< td=""><td><ld< td=""><td>0.9</td><td>0.9</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>3.5</td><td>3.1</td><td>4</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< 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PFOA         0.1         0.4         4.D         4.D <td>PFOA         0.1         0.4         &lt; LD         &lt;</td> <td>PFHxA</td> <td>0.1</td> <td>0.4</td> <td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>0.4</td><td>0.4</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>0.4</td><td><ld< td=""><td>1.3</td><td>1.1</td><td>1.3</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td></ld<></td>	PFOA         0.1         0.4         < LD         <	PFHxA	0.1	0.4	<ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td>0.4</td><td>0.4</td><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< td=""><td><ld< 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PFOS	0.1	0.2	0.1	0.3	0.4	4.3	5.2	0.9	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.3	0.1	1.1	0.8	1.2	0.1	<ld< td=""><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td><ld< td=""><td><ld< td=""><td>0.1</td></ld<></td></ld<></td></ld<>	0.1	0.1	0.1	0.1	<ld< td=""><td><ld< td=""><td>0.1</td></ld<></td></ld<>	<ld< td=""><td>0.1</td></ld<>	0.1
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ΣPFAS		-	0.1	0.3	0.4	4.3	8.4	3.9	0.2	0.7	0.3	1	2	0.3	0.8	1.6	1.1	28.1	25.3	29.8	0.1	-	1.1	0.1	0.1	0.1	0.4	0.3	0.5

Table 1. PCPs, PAHs and PFAS in water (ng/L). For methyl and propyl paraben: refer to the discussion in the QA/QC section of material and methods. The sums of the PCPs exclude parabens.

#### 3.2 Occurrence in sediment

The sum of the PCPs, PAHs and PFAS is given per site in Figure 1b and Table S6.

## 3.2.1 Musks and fragrance

Galaxolide was detected in 18 of the 24 sediments, with quantifiable levels in the Aveiro lagoon (4-8.5 ng/g dw) and in one Norwegian fjord sediment sample (4.6 ng/g dw). With lower LD/LQ, its degradation product galaxolidone was detected in 23 out of 24 samples at levels between 0.9 and 16.3 ng/g dw. The Aveiro lagoon also showed the highest galaxolidone, whilst the Goro lagoon, the Exe estuary, the Ebro delta and the Norwegian fjord had low ng/g dw levels. Among other musks, tonalide had detectable but not quantifiable levels in 15 sampling spots and phantolide was found at 0.6-0.8 ng/g dw in the Ebro delta (Spain) and Exe estuary (UK). This geographical distribution is in agreement with the higher sewage pressure in the Po delta and Exe estuary, as observed in water samples. Among other fragrances, only musk ketone was detected below LOQ in Aveiro lagoon (Portugal) and in one of the Goro lagoon (Po delta, Italy) sites.

### 3.2.2 Preservatives and insect repellents

The parabens were not found above quantification levels in any sample. Triclosan was detected in 9 samples from sites with other sewage related markers (Ebro delta, Exe estuary, Goro lagoon, Aveiro lagoon), and was quantified at 2 ng/g dw in one sample of the Exe estuary and one of the Goro lagoon. In a previous study of Goro lagoon, similar concentrations of triclosan (1.1 – 2.0 ng/g dw) were found in the fine fraction (< 63  $\mu$ m) of sediments sampled in 2010 (Casatta et al., 2015). The insect repellent DEET was quantified in the Aveiro lagoon at concentration between 0.9 and 2 ng/g dw and in the sewage impacted spot of the Ebro delta at 4.4 ng/g dw, where the DEET water concentration was also the highest.

#### 3.2.3 UV filters

Among UV filters, octocrylene was found with the highest concentrations, with up to 128 ng/g dw in the Ebro delta sediment collected 500 m from the sewage outfall whilst the other spots had levels one order of magnitude lower (12-15 ng/g dw). Concentrations in the Aveiro lagoon were between 12 and 34 ng/g dw, with the lower concentrations at the spot of low organic carbon percentage. Octocrylene was also measured in one sediment from the Butrint lagoon in Albania at 39 ng/g dw and in one sediment of the North Greek fish farm close to the shore facilities, at 24 ng/g dw, consistent with the higher water concentration. Lower levels of octocrylene (13 ng/g dw) were found in the Exe estuary (UK), with one positive detection in the sediment sample of highest organic carbon percentage (inside of the estuary). Its presence in this northern and less touristic area is attributed to the use of octocrylene not only in sunscreens but in numerous cosmetic products such as hair spray or face creams (Díaz-Cruz and

Barceló, 2009; Jamey et al., 2012). In recent years, octocrylene has emerged as a new persistent and bioaccumulative pollutant, with measurements in coastal areas in water, sediment and biota (Amine et al., 2012; Gago-Ferrero et al., 2013; Langford et al., 2015; Picot Groz et al., 2014), whilst its toxicity is still largely unknown.

Oxybenzone was quantified in 2 samples from the Aveiro lagoon (7 ng/g dw) and from the Ebro delta (11 ng/g dw), 4-MBC was found in 2 samples of the Aveiro lagoon (2.9-3.4 ng/g dw), EHMC and homosalate in the Aveiro lagoon (10-27 and 109-168 ng/g dw, respectively) and in one sample of the Norwegian fjord fish farm (3 and 19 ng/g dw, respectively). In previous work, EHMC was detected in sediments from the fjord of Oslo between 8.5 and 19.6 ng/g dw and in sediments from the Lebanese coast at 9 ng/g dw, whilst oxybenzone was not detected in sediments from Oslo fjord (Amine et al., 2012; Langford et al., 2015).

The Aveiro lagoon appears to be a hot spot of UV filter contamination in sediments essentially, most likely with regards to its touristic activity. The collection and discharge of Aveiro's sewage 3.3 km offshore was realised in the past years. This would reduce the water contamination rapidly, but sediment contamination, if not irreversible, can be much slower (Belles et al., 2017; Mizukawa et al., 2017), so the levels measured here probably reflect contamination from past inputs.

## 3.2.4 Sewage biomarker

Coprostanol was detected in 20 out of 24 sediments, at concentrations from 32 ng/g dw (LQ) to 4,300 ng/g dw. The fish farm in Greece had the highest values, consistently with our findings in the water. In the Ebro delta, the concentrations were between 61 and 280 ng/g dw, with the spot situated nearby the sewage outfall having the lowest value. This is likely related to the nature of the sediment, i.e. visibly sandier and with a lower organic carbon content (Table S2). After normalisation of the sediment concentration by its organic carbon percentage, the concentration distribution of this site followed the one observed for water, with a notably higher impact of faecal matter near the sewage discharge point. In the Exe estuary (UK), the sediment coprostanol concentrations spanned 2 orders of magnitude, with up to 1,300 ng/g dw in the higher estuary and below LD in the site near the estuary mouth. This latter sample was very sandy, with a low organic carbon percentage of 0.02 %. There were similar discrepancies in the sediment organic carbon of the Goro lagoon (Italy), where the most open-water spot showed no quantifiable amounts of coprostanol. In the Aveiro lagoon, coprostanol concentrations were relatively low, between 140 and 167 ng/g dw and in agreement with the values found in a previous study on faecal sterols in the area (Rada et al., 2016).

Negligible amounts of coprostanol in the Butrint lagoon (Albania) and in the Norwegian fjord sediments reflected the absence of sewage contamination, with only one sediment sample having high organic carbon (9 %, NOS3) showed low quantifiable coprostanol (38 ng/g dw).

The coprostanol to cholesterol ratio is commonly used to evaluate threshold levels of contamination in sediments, where coprostanol/cholesterol values >0.2 are considered sewage contaminated sediments and values >1 are considered highly contaminated (Readman et al.,

2005). In our study, all values are <0.15, apart from 2 sediments from the Greek fish farm, with values of 0.26 and 0.28. According to these criteria, the 9 European aquaculture areas studied have low to moderate faecal matter contamination.

## 3.2.5 Polycyclic aromatic hydrocarbons

The PAHs levels indicated very contrasting contamination between sites. The Ebro delta and the Goro lagoon had moderate contamination, with total PAHs of 173-281 and 114-188 ng/g dw, respectively (note that in each site a sample of much lower organic carbon content had nondetectable PAHs levels). The Exe estuary (UK) and the Italian fish farm site of the North Tyrrhenian Sea exhibited higher concentrations of the summed PAHs, up to an order of magnitude higher, of 457-1,463 and 1,272-5,539 ng/g dw, respectively, while the other sites had marginal contamination levels, i.e. below 50 ng/g dw. These discrepancies do not apparently relate to the nature of the sediment as they remained after normalisation to the organic carbon percentage. In both the Exe estuary and the Italian fish farm sites, 4-ring PAHs were predominant, but the lower-to-higher molecular weight PAHs ratio (sum of the 2-3 ring PAHs divided by the sum of the 4-6 ring PAHs) indicated a higher proportion of lower molecular weight PAHs in the Italian sediment. The PAHs isomer molecular ratios were not dissimilar between samples and suggested mainly combustion-derived PAHs at both sites. PAHs are historical hydrophobic pollutants, widely dispersed in the environment, resulting from the combustion of coal, wood, oil, etc. Mainly formed in urban and industrial environments, they bind to suspended particles and are washed off to the coast through rivers. Their occurrence in the Exe estuary is attributed mainly to the discharges and runoff from the upstream city of Exeter, together with the high suspended particle concentrations of these estuarine waters. The origin of the high PAHs load in the Italian fish farm sample remains unknown.

### 3.2.6 Perfluoroalkyl substances

Among the 24 monitored compounds, only PFOS (legacy) and 6:2FTS (emerging) were found at low levels, 0.05-0.14 and 0.4-1.8 ng/g dw, respectively. In good agreement with the water findings, PFOS was quantified in the Goro lagoon (Italy), the Exe estuary (UK), the Aveiro lagoon (Portugal) and the Norwegian fjord fish farm. It is worth noting that the Norwegian shellfish farm, located in the same water body within less than 1 km had no detectable PFOS in sediment and also lower levels in water. Further research would be required to investigate if fish farming, through the nets, cages or feed, can introduce PFAS in the environment. The emerging PFAS compound 6:2 FTS was found in 2 Portuguese and one Greek sediment, with no evident factors to account for it.

# 3.3 Perfluoroalkyl substances in mussels

In the mussel tissues, only 2 of the 24 monitored PFAS were found at least once (Table S7). The legacy PFAS compound PFOS was measured at 0.14 - 0.18 ng/g dw in the mussels of the 3 sites

of the Po delta. Trace levels of PFOSA (0.1-0.3 ng/g dw) were also measured in the mussels of the Po delta, of the British Exe estuary and of the Norwegian coast. Despite the evidence of a higher contamination of the Po delta waters, no PFBS or perfluoroalkyl carboxylates were found in the mussel tissues. Similarly, although predominant in the waters of the British Exe estuary, PFOS was not found above detection limits. The low bioaccumulation potential of mussels for PFAS has been identified in previous work (Gómez et al., 2011). Only PFOS was found above detection limits in a recent monitoring study of the French coast bivalves (Munschy et al., 2013) and the levels of the sites selected in our study are in agreement with the low range of their reported concentrations. PFOSA, a precursor of PFOS, was also measured in bivalves of a temperate estuary at concentrations slightly higher, 0.45–0.85 ng/g dw (Munoz et al., 2017a). The authors suggested that the lower metabolic capacity of filter-feeding bivalves for PFOSA could explain its incomplete conversion to PFOS and its bioaccumulation in the tissues.

## 3.4 Environmental risk assessment

Hazard quotients (HQ) are given in Figure 2 and Table S8. PFOS, octocrylene, benzo[a]pyrene, benzo[ghi]perylene and fluoranthene had a HQ >1 in respectively 12, 12, 4, 3 and 1 waters of the 27 sites when considering annual average quality standards (AA-EQS). PFOS low EQS was based on evidence for biomagnification to consider toxicity to predators through secondary poisoning and to human health via consumption of fishery products. The long-term toxicity of the UV filter octocrylene to aquatic inverterbrates observed at relatively low levels (NOEC of 2.66  $\mu$ g/L on daphnia reproduction - octocrylene registration dossier, ECHA 2019) was used to extrapolate a marine PNEC of 27 ng/L using an assessment factor of 100. The derivation of the low AA-EQS for benzo(ghi)perylene relates to its reprotoxicity on a species of zooplankton and a further assessment factor of 100.

In sediment, benzo[ghi]perylene, benzo[a]pyrene, anthracene, EHMC, homosalate and oxybenzone had a HQ >1 in respectively 6, 4, 4, 3, 3 and 2 sediments of the 24 studied sites. The low PNEC for the UV filters EHMC and homosalate are derived from a toxicity study on snails (Kaiser et al., 2012) and QSAR studies (Pintado-Herrera et al., 2017b). In the case of oxybenzone, PNEC for both water and sediment are strict due to an assessment factor (uncertainty factor) of 10,000, associated with an EC50-72h of the test substance to a species of microalgae of 0.67 mg/L. There are no EQS or PNEC available for PFOS in sediment, quantified in 6 sediment samples. Another 2 musks (galaxolide and musk ketone), 2 UV filters (4-MBC and EHMC), 2 PAHs (naphthalene and benzo[b]pyrene) and the PFAS PFOA were found to have a HQ between 0.1 and 1 in at least one water sample.

Assuming an additive model, the HQ in water of all compounds were summed in each site to allow for their comparison (Figure S3). When considering their contribution to the total HQ, PAHs, PFOS and the UV filter octocrylene appear to be responsible for virtually all environmental risks. The UK estuarine site showed the highest risk (HQ between 48 and 75), with PAHs and PFAS accounting for 56 and 44 % of the total HQ, respectively, followed by a site in Albania (HQ of 19) and the site situated downstream of a domestic effluent discharge in the Ebro delta (HQ of 14), where the UV filter octocrylene contributed for 99.5 % and 79 % of the total HQ,

respectively. In the Po delta, PFOS accounted for 99 % of the total HQ, between 6 and 9. The lack of information available on the environmental effects of other PCPs can explain their lower contribution to the risk, as further evidence for biomagnification for example would have a strong influence on the EQS (PFOS case). This simple approach also does not account for potential synergistic interactions between chemicals, known to occur for as little as 3 constituents (Molins-Delgado et al., 2016; Moore et al., 2018).

The potential risk for the local aquatic environment from both legacy (PAHs) and emerging contaminants (PFOS, UV filters) raises concerns over the sustainable use of coastal areas for aquaculture. Our results indicate that exposure to harmful chemicals is higher on sites set on anthropised coastlines. In addition to threatening the ecosystems, compounds such as PFOS, musks or UV filters can accumulate in the farmed species (Cunha et al., 2015; Munschy et al., 2013) and threaten food safety (Justino et al., 2016). Interestingly, the occurrence of contaminants originating from domestic use confirms that coastal pollution is not restricted to industrial activities, the usual public perception of marine environmental contamination (Jacobs et al., 2015).

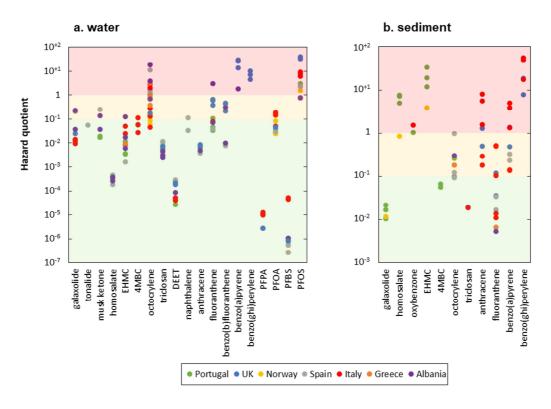


Figure 2. Hazard quotients of the detected compounds for which PNEC or EQS were available.

#### 4 Conclusions

Compounds from personal care products, polycyclic aromatic hydrocarbons and perfluoroalkyl substances, were detected in the 27 sites investigated in 7 European countries. PCPs appear to be the main component of the water contamination in most sites, with marginal contributions from PFAS. Generally higher levels of PCPs were found in the sewage impacted sites, as showed by the co-varying coprostanol concentrations. UV filters appear to have higher concentrations in the southern European sites in comparison to the UK and Norway sites, in connection with coastal tourism. PAHs were the main component of the sediment contamination in most sites, in particular in the British and Italian sites. The Aveiro lagoon in Portugal appears to be a hot spot of UV filter contamination in sediment, most likely with regards to its tourist load. Sediment contamination does not necessarily pose a threat to marine organisms but as an integrative environmental compartment, it reflects the hydrophobic contamination to which biota is exposed.

The risk assessment for water and sediment indicated a potential risk for the local aquatic environment from both legacy (PAHs) and emerging (PFOS, UV filter octocrylene) contaminants. The implications for the ecosystem and the aquaculture activities would require further investigation. This risk assessment was based on EQS and PNEC values, available in the literature for less than a third of the investigated compounds. These ecotoxicological thresholds can be determined by *in-silico* approaches using large uncertainty factors (typically 10,000) and undergo regular revisions accounting for new scientific evidences, which can drastically change the hazard quotients determined here (e.g. case of PFOS potential for biomagnification). Future research should focus on the refinement of these thresholds, especially in the context of complex mixtures.

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