

Report from Ireland on the monitoring of the implementation of Regulation (EU) 2019/1021 on persistent organic pollutants (POPs Regulation)

Sections of the Report

Introduction and background

1. Control of manufacturing, placing on the market and use of POPs

1.1 Quantities manufactured and placed on the market

1.2. Quantities manufactured and placed on the market per specific use

2. Stockpiles notified in accordance with Article 5(2)

3. Releases to the environment of unintentionally produced POPs

4. Monitoring data on POPs available in IPCHEM

5. Article 7(4)(b)(iv) notifications on the derogation for waste treatment

6. Enforcement: controls, infringements and enforcement measures

7. Sites contaminated with POPs

8. National Implementation Plans

9. Provision of technical and financial assistance to third countries

10. Information exchange measures and awareness programmes

Appendix A. Stockpile notifications

Appendix B. Releases to the environment of unintentionally produced POPs - additional data

Appendix C. Article 7(4)(b)(iv) notifications

Introduction and background

Persistent organic pollutants (POPs) are organic substances that persist in the environment, accumulate in living organisms and pose a risk to our health and the environment. They can be transported by air, water or migratory species across international borders, reaching regions where they have never been produced or used. International agreements for the risk management of POPs have been established as no region can manage the risks posed by these substances alone.

POPs are regulated worldwide by the UNECE Protocol on POPs ("the Protocol"), adopted in 1998 in Aarhus as part of the Convention on Long Range Transboundary Air Pollution (CLRTAP) and by the Stockholm Convention on POPs, adopted in 2001 and entered into force in 2004 ("the Convention").

The Protocol and the Convention are implemented in the European Union by the Regulation (EU) 2019/1021 on persistent organic pollutants (the POPs Regulation) which repealed the original Regulation (EC) No 850/2004 on POPs. The POPs Regulation aims to protect human health and the environment with specific control measures that:

- prohibit or severely restrict the production, placing on the market and use of POPs;
- minimise the environmental release of POPs that are formed as industrial by-products;
- make sure that stockpiles of restricted POPs are safely managed; and
- ensure the environmentally sound disposal of waste consisting of, or contaminated by POPs.

POPs are listed in three Annexes to the Regulation (Annex I – banned, Annex II – restricted, Annex III – unintentionally released POPs).

POP subject to waste management provisions set out in Article 7 are listed in Annex IV.

[List of substances subject to the POPs Regulation](#)

For more information for the Stockholm Convention and the UNECE Protocol on POPs, see the following links:

[Stockholm Convention on POPs](#)

[The 1998 Aarhus Protocol on Persistent Organic Pollutants \(POPs\)](#)

Scope and period of time covered by the national reports

Article 13 of the POPs Regulation covers the reporting requirements for Member States and the European Chemicals Agency. The Member States are required to draw up and publish a report containing information specified in its Article 13(1) and give the Commission and ECHA access to the information contained in it. The information contained in this report has been compiled by ECHA on the basis of the information provided by the Member State to ECHA in accordance of Article 8(g) of the POPs Regulation. The report has been published by ECHA in its webpage with the agreement of the Member State Competent Authority on POPs.

The information contained in the national reports pertains the period from 2019 onwards. However, some Member States might have included information from previous years in their national reports for completeness. The national reports are updated annually, as far as new information becomes available to the Member States, or at least every three years.

Information from previous years is reported in accordance with the Article 12 of the Regulation (EC) No 850/2004 and is available in the following Synthesis Report:

[Summary of the third synthesis report for the period 2010-2012](#)

[Part I](#)

[Part II](#)

Section 1. Control of manufacturing, placing on the market and use of POPs

In accordance with Article 3 of the POPs Regulation, the manufacturing, placing on the market and use of substances listed in Annex I to the POPs Regulation is prohibited, while substances listed in Annex II are subject to restriction. Currently no substances are listed in Annex II.

Specific exemptions to the prohibition on manufacturing, placing on the market and use for certain substances are specified in the relevant entries of Annex I. In addition, as specified in Article 4(1), the manufacturing, placing on the market and use of substances listed in Annex I and II and use is permitted: (a) for use for laboratory-scale research or as a reference standard; (b) when the substance is present as an unintentional trace contaminant, as specified in the relevant entries of Annex I or II, in substances, mixtures or articles.

In accordance with Article 4(2), for a substance added to Annex I or II after 15 July 2019, Article 3 shall not apply for a six-month period if that substance is present in articles produced before or on the date that this Regulation becomes applicable to that substance. Article 3 shall not apply in the case of a substance being present in articles already in use before or on the date that this Regulation or Regulation (EC) No 850/2004 on persistent organic pollutants became applicable to that substance, whichever date came first.

Table 1. List of substances included in Annex I to the POPs Regulation.

Substance/group of substances (Link to substance infocard page)	Uses	Specific exemptions for the manufacturing, placing on the market and use
Aldrin	Pesticide	No
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	Industrial chemical	No
Bis(pentabromophenyl) ether (decabromodiphenyl ether; decaBDE)	Industrial chemical	Yes. See Annex I to the POPs Regulation
Chlordane	Pesticide	No
Chlordecone	Pesticide	No
DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane)	Pesticide	No
Dicofol	Pesticide	No
Dieldrin	Pesticide	No
Endosulfan and its isomers	Pesticide	No
Endrin	Pesticide	No
Heptabromodiphenyl ether	Industrial chemical	Yes. See Annex I to the POPs Regulation
Heptachlor	Pesticide	No
Hexabromo-1,1'-biphenyl	Industrial chemical	No
Hexabromocyclododecane (HBCDD)	Industrial chemical	No
Hexabromodiphenyl ether	Industrial chemical	Yes. See Annex I to the POPs Regulation
Hexachlorobenzene	Industrial chemical and pesticide	No

Substance/group of substances (Link to substance infocard page)	Uses	Specific exemptions for the manufacturing, placing on the market and use
Hexachlorobuta-1,3-diene	Industrial chemical and pesticide	No
Hexachlorocyclohexanes, including lindane	Pesticide	No
Mirex	Pesticide	No
Pentabromodiphenyl ether	Industrial chemical	Yes. See Annex I to the POPs Regulation
Pentachlorobenzene	Industrial chemical and pesticide	No
Pentachlorophenol and its salts and esters	Pesticide	No
Perfluorooctane sulfonic acid and its derivatives (PFOS) C₈F₁₇SO₂X, (X = OH, Metal salt (O-M+), halide, amide, and other derivatives including polymers)	Industrial chemical and pesticide	Yes. See Annex I to the POPs Regulation
Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances	Industrial chemical	Yes. See Annex I to the POPs Regulation
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	Industrial chemical	No
Polychlorinated biphenyls (PCB)	Industrial chemical	No
Polychlorinated naphthalenes	Industrial chemical	No
Tetrabromodiphenyl ether	Industrial chemical	Yes. See Annex I to the POPs Regulation
Toxaphene	Industrial chemical	No

This text and table have been produced for documentary purposes and the European Chemicals Agency does not assume any liability for its content. Please note that the text has no legal value. For legal purposes please refer to the texts published in the Official Journal of the European Union.

Section 1.1. Manufacturing and placing on the market of substances listed in Annex I and II of POPs Regulation

The table below contains information provided by Ireland concerning the production, import and/or placing on the market of substances listed in Annex I or II to the POPs Regulation in Ireland.

Table 2. Data on the production, import and/or placing on the market in Ireland of substances listed in Annex I or II to the POPs Regulation.

Substance name or group of substances	Substance name (when part of a group)	EC number	CAS number	Year	Quantities (tonnes)			Additional information
					Manufactured	Imported	Placed on the market	
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl acrylate	248-722-7	27905-45-9	2020			0.00950	
				2021			0.012790	

Section 1.2 Quantities manufactured and placed on the market per specific use

No further information on the uses of the substances manufactured and/or placed on the market in Ireland. The provision of this information in the national report is considered as optional.

Section 2. Stockpiles notified in accordance with Article 5(2)

In accordance with Article 5(2) of Regulation (EU) No 2019/1021, the holder of a stockpile greater than 50 kg, consisting of or containing any substance listed in Annex I or II, and the use of which is permitted shall provide the competent authority of the Member State in which the stockpile is established with information concerning the nature and size of that stockpile. Such information shall be provided within 12 months of the date that this Regulation or Regulation (EC) No 850/2004 became applicable to that substance, whichever date came first for the holder, and of relevant amendments to Annex I or II and annually thereafter until the deadline specified in Annex I or II for the restricted use.

The POPs Regulation defines 'Stockpile' as substances, mixtures or articles accumulated by the holder that consist of or contain any substance listed in Annex I or II.

In addition, Ireland has provided information from their national PCB inventories, which is included in the table below. The Member States are required establish and maintain inventories of equipment with PCB volumes of more than 5 dm³ in accordance to the Directive 96/59/EC on the disposal of PCB/PCT and to send summaries of those inventories to the Commission. More information on the stockpile notifications reported by Ireland is available in the Appendix A.

Table 3. Number of stockpile notifications.

Substance/ Group of substances	Year of notification	Stockpile type	Number of Notified Stockpiles	Total quantity of the stockpiles(tonnes)*
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	2021	mixture	25	295.28
	2022	mixture	7	20.34
Polychlorinated Biphenyls (PCB)		mixture	6	4.291

* The total quantity of the stockpile for mixtures and articles is calculated as the sum of the total weight of the mixtures or articles consisting of or containing the substance. The total quantity of the POP substances cannot be calculated as the concentration of the substance in the articles or mixtures is not always reported.

Section 3. Releases to the environment of unintentionally produced POPs

In line with the Protocol and the Convention, releases of POPs which are unintentional by-products of industrial and other anthropogenic thermal processes (e.g. residential combustion) should be identified and reduced as soon as possible, with the ultimate aim of eliminating the emissions, where feasible.

As set out in Article 6 of the POPs Regulation, the Member States draw up and maintain inventories for the substances listed in Annex III (see below) released into air, water and land, in accordance with their obligations under the Convention and the Protocol. Member States report on their action plans for reducing emissions of unintentionally formed POPs in their national implementation plans (see section 8).

ANNEX III - List of substances subject to release reduction provisions

Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)
Polychlorinated biphenyls (PCB)
Hexachlorobenzene (HCB) (CAS No 118-74-1)
Polycyclic aromatic hydrocarbons (PAHs)
Pentachlorobenzene (CAS No 608-93-5)
Hexachlorobutadiene (CAS No 87-68-3)
Polychlorinated naphthalenes (CAS No 70776-03-3 and others)

The reporting obligations for releases of unintentionally produced POPs is, in addition to the POPs Regulation, governed by other international, EU and national policy frameworks. Consequently, Member States and the industry sector report data on releases to various institutions, and the data is published in different databases and websites.

In the sections below, it is described which releases are reported where, and by whom and links are provided to the relevant data and reports.

The information on releases provided by the Member States to ECHA, and included in their national reports, does not include inventories which are reported in accordance with the Protocol and/or the European Pollutant Release and Transfer Register (E-PRTR) in publicly available databases (see below for more detail).

Estimates on releases to air reported by Ireland under the Protocol.

The European Union and its Member States report estimates of PCDD/PCDF, PCB, HCB and PAHs released to air to the European Environmental Agency (EEA) and the European Monitoring and Evaluation Programme - Centre on Emission Inventories and Projection (EMEP-CEIP) in accordance with the obligations under the Protocol.

Emission time trends in Europe of HCB, PCB, PCDD/PCDF and PAHs to air can be found as interactive graphs and tables in the EEA webpage below:

<https://www.eea.europa.eu/data-and-maps/indicators/eea32-persistent-organic-pollutant-pop-emissions-1/assessment-10>

“Persistent organic pollutants emissions in Europe” is an EEA indicator. The EEA publishes information about emission reduction of POPs to air in the EU, as well as in individual Member States, which can be accessed here:

<http://www.eea.europa.eu/ims/persistent-organic-pollutant-emissions-in-europe>

Emission data for Ireland displayed as a time trend for the substances below can also be found from the respective links to the EMEP-CEIP Data viewer.

[PCCD/PCDF](#) [PAHs](#) [PCBs](#) [HCB](#)

Additional reports, as well as information on the review process of emission inventories under LRTAP Convention can be found in the CEIP webpage (<https://www.ceip.at/>).

The annual emission data reported by the Member States and the EU under the Protocol (Inventory files NFR), as well as the informative inventory reports (IIRs) can be downloaded from the EMEP-CEIP webpage (see annual submissions at the top of the page to view the overview table). The IIRs provide detailed information about the reported data, including explanations of pollutant trends and key sources of emission. In addition to POPs, emission data on other air pollutants covered by the different Protocols to the CLRTAP, such as heavy metals, nitrogen oxides and sulphur oxides, are also reported

<https://www.ceip.at/status-of-reporting-and-review-results>

The database (mdb file) of annual emission data for the EU Member States can also be downloaded from the EEA webpage:

<https://www.eea.europa.eu/data-and-maps/data/national-emissions-reported-to-the-convention-on-long-range-transboundary-air-pollution-lrtap-convention-15>

The EMEP/EEA air pollutant emission inventory guidebook provides guidance on estimating emissions of POPs and other air pollutants from both anthropogenic and natural emission sources and is designed to facilitate reporting of comparable and consistent air pollutant emissions inventory data.

<https://www.eea.europa.eu/publications/emep-eea-guidebook-2019>

Estimates on releases to air reported by Ireland under the Convention

The Member States report data on unintentional releases to air water and land to the Convention. In order to assist the preparation of the inventories on releases, the Convention has developed The Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional POPs. The data on emissions reported to the Convention can be accessed through the Convention Reporting Dashboard and the national report database.

http://ers.pops.int/eRSodataReports2/ReportSC_DashBoard.html

<http://chm.pops.int/Countries/Reporting/NationalReports/tabid/3668/Default.aspx>

Additional information on emissions of POPs reported by industrial facilities under the E-PRTR

The Regulation (EC) No 166/2006 on the establishment of a European Pollutant Release and Transfer Register (the E-PRTR Regulation) has established a publicly accessible electronic database containing key environmental data from industrial facilities in Europe. The European Industrial Emissions Portal provides easily accessible data on emissions reported under the E-PRTR. The portal replaced the E-PRTR website in June 2021.

<https://industry.eea.europa.eu/>

All Annex III POPs are covered by the E-PRTR, for a list of pollutants with their description, characteristics and reporting thresholds visit the Pollutants page of the European Industrial Emissions Portal. The legal reporting requirements are defined in the Regulation (EC) No 166/2006 of the European Parliament and of the Council of 18 January 2006 concerning the establishment of a European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC.

Additional data on on emissions of POPs:

Additional data on releases to air, land and water of Annex III substances, not covered by the Protocol or the E-PRTR, as reported by Ireland is available in the Appendix B.

Section 4. Monitoring data on POPs available in IPCHEM

The CA on POPs from Ireland has not indicated in their report whether environmental monitoring data on substances listed in Part A of Annex III of the POPs regulation has been made available in IPCHEM. Nevertheless, data collections covering POPs in Ireland might be available in the platform. Further information can be found in:

<https://ipchem.jrc.ec.europa.eu>

Section 5. Art. 7(4)(b)(iv) notifications on the derogation for waste treatment

In accordance with Article 7(2) of the POPs Regulation, notwithstanding Council Directive 96/59/EC on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT), waste consisting of, containing or contaminated by any substance listed in Annex IV to the POPs Regulation shall be disposed of or recovered, without undue delay and in accordance with Part 1 of Annex V to the POPs Regulation, in such a way as to ensure that the POP content is destroyed or irreversibly transformed so that the remaining waste and releases do not exhibit the characteristics of POPs.

As specified in Article 7(4), by way of derogation from the second paragraph of Article 7, a Member State or the competent authority designated by that Member State may, in exceptional cases, allow wastes listed in Part 2 of Annex V containing or contaminated by a substance listed in Annex IV up to concentration limits specified in Part 2 of Annex V to be otherwise dealt with in accordance with a method listed in Part 2 of Annex V, provided that the following conditions are fulfilled.

- (i) the holder concerned has demonstrated to the satisfaction of the competent authority of the Member State concerned that decontamination of the waste in relation to substances listed in Annex IV was not feasible, and that destruction or irreversible transformation of the POP content, performed in accordance with best environmental practice or best available techniques, does not represent the environmentally preferable option and the competent authority has subsequently authorised the alternative operation;
- (ii) the holder concerned has provided information on the POP content of the waste to the competent authority;
- (iii) the operation is in accordance with relevant Union legislation and with the conditions laid down in relevant additional measures referred to in paragraph 5;
- (iv) the Member State concerned has informed the other Member States, the Agency and the Commission of its authorisation and the justification for it.

No authorisation for the derogation on the treatment of waste in accordance for the Article 7(4)(b)(i) have been granted by Ireland.

Section 6. Enforcement - controls, infringements and enforcement measures

In order to ensure transparency, impartiality and consistency at the level of enforcement activities, Member States should lay down rules on penalties applicable to infringements of the POPs Regulation and ensure that they are implemented. Those penalties should be effective, proportionate and dissuasive, since non-compliance can result in damage to human health and to the environment.

The Member States are responsible for the enforcement of the POPs Regulation. In this section, the number of official controls carried out by Ireland in which the POPs regulation was covered, the number of cases of non compliance and enforcement measures are presented. The information on numbers of controls was reported by the Member States in their reports submitted under Art 13(1) of the POPs Regulation. The template for reporting the information on controls was agreed with the Forum for Exchange of Information on Enforcement.

Controls are understood as inspections or investigations or monitoring, or other enforcement measures carried out by enforcement authorities. Therefore, the number of controls takes into account the total number of enforcement related activities carried out by Ireland. Controls can relate to products (substances, articles, mixtures) in case of controlling some requirements (for instance restrictions on the manufacturing, placing on the market and use) and to duty holders in case of controlling other requirements (e.g. stockpiles).

Table 4. Number of official controls carried out by Ireland in which the POPs regulation was covered and the number cases of non-compliance.

Year	Total number of controls in which the POPs Regulation was covered and/or enforced	Number of official controls which addressed the following requirements:			Number of cases of non-compliance found for each of the following requirements (out of the total number of controls which addressed each requirement)		
		Manufacturing, placing on the market and use (Art. 3)	Stockpiles (Art. 5)	Waste management (Art. 7)	Manufacturing, placing on the market and use (Art. 3)	Stockpiles (Art. 5)	Waste management (Art. 7)
2019	44	1	2	2	1	0	0
2020	29	0	0	0	0	0	0
2021	171	171	0	0	0	0	0

Note: The summed number of controls addressing the specific duties listed on the table does not have to equal the total number of controls for that year as there may also be controls of other duties under the POPs Regulation and overlap of provisions controlled within one interaction (inspection, desktop assessment etc.).

Data from the controls from the year preceding the publication of the report might be updated as new information becomes available to Ireland.

Table 5. Number of official controls in Ireland which resulted in no measures or enforcement actions.

Year	No measures	Verbal advice	Written advice	Public announcement	Admin. measures /orders	Withdrawal/recall of products from the market, confiscation or seizure, ban of sale/use, destruction of non-compliant products or waste	Fines	Suspension or revocation of business license	Imprisonment	Other legal enforcement action
2019	41	0	3	0	0	1	0	0	0	
2020	24	3	5	0	0	0	0	0	0	
2021	171	0	0	0	0	0	0	0	0	

Data from the controls in the year preceding the publication of the report might be updated as new information becomes available to the Member States.

Section 7. Sites contaminated with POPs

The Member States can optionally include in this section information concerning sites contaminated with POPs located in their country. Ireland has taken measures to identify sites contaminated by POPs. Information on the identified contaminated sites is included in table 6.

Table 6. Sites contaminated with POPs in Ireland.

Brief description of the site	POPs in the site	Management strategy developed for the site	Further information in the NIP
Wood preservation site	Groundwater and surface water sampling undertaken at the site in 2019 indicated Lindane contaminations in a groundwater well.	The site was used between 1998 and 2006 for the treatment and protection of wood. In 2018 approximately 33 m ³ of soil was remediated and removed off-site. The contamination has no direct environmental or health impact, and local environmental authorities are actively involved. The site is part of the "Inventory of sites that are potentially impacted by HCH in EU Member States List of sites in Ireland". The draft report from that study recommended a soil and groundwater investigation of the site to establish the size and magnitude of any contamination present.	https://www.tauw.com/projecten/resolving-hch-lindane-in-the-eu.html
Private drinking water wells adjacent to Airport Site 3 fire training site	Initial findings detected PFOS (range 799 - 2770 ng/L) and PFOA (175 - 650 ng/l) in 3 private drinking water wells.	Awaiting full site risk assessment report with a view to monitoring progress towards required remediation. A "do not drink" advisory was issued to the households involved.	Not in the current NIP
Update on Airport Site 1 - Surface water, groundwater and soil, pre and post construction of new runway over old fire training site	PFOS and PFOA	Work in progress- EPA have highlighted the issue to the relevant County Council. Reports have been prepared by environmental consultants on behalf of the airport authority, relating to the new runway construction and management of the contaminated soil within the construction site. Testing of groundwater and surfacewater is continuing.	Not in the current NIP
Airport Site 1	Initial findings suggest contamination of water with PFOS (range 1.25 - 1000 ng/L) and PFOA (2.88-296 ng/L).	Awaiting full site risk assessment report with a view to monitoring progress towards required remediation.	Not in the current NIP.

Brief description of the site	POPs in the site	Management strategy developed for the site	Further information in the NIP
Airport Site 2 Fire Training site	The following contamination was identified: Water (PFOS 0.0105 ug/L; PFOA 0.0105 ug/L).	The report detailing the findings was distributed to contact person at the site and published on the EPA website. A risk assessment of the site was recommended. Investigations are ongoing.	
Local authority Fire service historical fire training site Dublin.	The following contamination was identified: Soil (PFOS 0.0277 & 0.0518 mg/kg; PFOA 0.0121-0.0312 mg/kg); Water (PFOS 0.0937 ug/L; PFOA 0.0282 ug/L).	The report detailing the findings was distributed to Chief Fire Officer at the site and published on the EPA website. A risk assessment of the site was recommended. Investigations are ongoing.	Not in the current NIP. The report is available on the EPA website https://www.epa.ie/publications/monitoring--assessment/waste/monitoring-for-per--and-poly-fluoroalkyl-substances-pfas-and-brominated-flame-.php
Oil Refinery Fire Training site	The following contamination was identified: Water (PFOS - 0.0844 ug/L and 0.0484 ug/L; PFOA - 0.170 ug/L & 0.119 ug/L).	The report detailing the findings was distributed to Environmental Lead at the site and published on the EPA website. A risk assessment of the site was recommended. Investigations are ongoing.	

Section 8. National implementation plans

The national implementation plan (NIP) and its subsequent updates are prepared by the EU and its Member States in accordance with its obligations under the Stockholm Convention. The NIPs are publicly available in the Convention webpage:

<http://chm.pops.int/Implementation/NationalImplementationPlans/NIPTransmission/tabid/253/Default.aspx>

Table 7. Status of the initial NIP from Ireland and its subsequent updates.

	Status	Mechanisms for public participation during the development of the NIP
Initial NIP	Transmitted to the SC	Yes
Update addressing COP 4 amendments	Transmitted to the SC	
Update addressing COP 5 amendments	Transmitted to the SC	
Update addressing COP 6 amendments	Transmitted to the SC	
Update addressing COP 7 amendments	Transmitted to the SC	
Update addressing COP 8 amendments	Under development	
Update addressing COP 9 amendments	Under development	Yes

Section 9. Provision of technical and financial assistance

In accordance with Articles 12 and 13 of the Convention, the Commission and the Member States shall cooperate in providing appropriate and timely technical and financial assistance to developing countries and countries with economies in transition to assist them, upon request and within available resources and taking into account their particular needs, to develop and strengthen their capacity to fully implement their obligations under the Convention. Such support may also be channeled through Regional Centres, as identified under the Convention, non-governmental organisations or the European Chemicals Agency.

The task of regional and subregional centres (SCRCs) established by the Stockholm Convention is to provide technical assistance and to promote the transfer of technology to developing country Parties and Parties with economies in transition relating to the implementation of their obligations under the Convention. Information on their work plans and activity reports is available in the Convention website.

<http://chm.pops.int/Partners/RegionalCentres/Overview/tabid/425/Default.aspx>

Additional financial/technical assistance to third countries is also provided through multilateral channels such as the Global Environmental Facility (GEF), the Stockholm Convention Trust funds, Strategic Approach to International Chemicals Management (SAICM) Quick Start Programme, or the UN Special Programme. The financial contribution of the MS to the different instruments, as well as information about the projects founded is publicly available on the following websites:

- The GEF Projects database. Focal area: Chemicals and Waste. The GEF provides funding to assist developing countries in meeting the objectives of international environmental conventions. The GEF serves as a "financial mechanism" to the Stockholm Convention on Persistent Organic Pollutants (POPs).

https://www.thegef.org/projects-operations/database?f%5B0%5D=focal_areas%3A2206

- The SAICM Quick Start Programme Projects:

<http://www.saicm.org/QuickStartProgramme/Projects/tabid/5470/language/en-US/Default.aspx>

- The UN Special (chemical and waste) programme projects database:

<https://www.unenvironment.org/explore-topics/chemicals-waste/what-we-do/special-programme/special-programme-projects-database>

The Member States can optionally include in this section further information on the provision of financial and technical assistance to third countries.

Table 7. Information on the technical and/or financial assistance provided by Ireland.

Type of assistance	Description of the assistance	Recipient country(ies) or regions	Period
Contribution to Global Environmental Facility (GEF)			2018 - 2022
Contribution to the Trust Fund for the Stockholm Convention on Persistent Organic Pollutants			

Section 10. Information exchange measures and awareness programmes

In accordance with Article 11(2) of the POPs Regulation, the Commission, the European Chemicals Agency and the Member States, as appropriate, shall promote and facilitate with regard to POPs:

- (a) awareness programmes, including relating to their health and environmental effects and their alternatives and on the reduction or elimination of their manufacture, use and release, especially for:
 - (i) policy- and decision-makers;
 - (ii) particularly vulnerable groups;
- (b) the provision of public information;
- (c) training, including workers, scientists, educators and technical and managerial personnel.

The Member States can optionally report on their information exchange activities under this section.

Table 8. Information exchange activities carried out by Ireland.

General description of the measure	Type of measure	Webpage (copy the URLs in your browser)	Period
A desktop study and survey of users of PFAS-containing fire-fighting foams highlighting the potential risks to human health and the environment via their disposal and use. Key sectors using PFAS foams were identified as well as potential risks. Specific brands of PFAS containing foams were highlighted as well as incidents that involved the use of large volumes of foams in the past. The report was shared with the fire services and EPA-licensed/registered sites.	Awareness programme, and The provision of public information	https://www.epa.ie/publications/monitoring--assessment/waste/determining-historic-and-current-pfas-levels-in-aff-in-the-republic-of-ireland.php	2021 -
A notification letter was circulated to EPA-licensed sites outlining obligations under the EU POPs Regulation PFOA restriction	Awareness programme		2020 -
Guidance document and infographic for users of PFAS/PFOA fire-fighting foams highlighting the risks posed and obligations regarding its use. Factsheet and frequently asked questions document on obligations regarding reporting stockpiles of PFOA foams. The documents were shared on social media (EPA's twitter account), on the EPA's website and with key stakeholders including the fire services and EPA-licensed/registered sites.	Awareness programme, and The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants	https://www.epa.ie/publications/monitoring--assessment/waste/changing-nature-of-fire-fighting-foams-booklet.php https://www.epa.ie/publications/monitoring--assessment/waste/the-changing-nature-of-fire-fighting-foams-poster.php https://twitter.com/EPAIreland/status/1410631621292744706	2021 -

Table 8. Information exchange activities carried out by Ireland.

General description of the measure	Type of measure	Webpage (copy the URLs in your browser)	Period
<p>In 2019 the EPA published a report "Water Quality in Ireland Report 2013 – 2018". The report is available on the EPA's website. It provides an evaluation of the ecological health of Ireland's rivers, lakes, canals, groundwater, estuaries and coastal waters. The analysis is based on the assessment of biological and environmental data collected from 2,703 surface water bodies and 514 groundwater bodies between 2013 and 2018. Section 5, outlines poor chemical status in biota linked to several chemicals including PAHs, PCBs and BFRs.</p>	<p>The provision of public information</p>	<p>https://www.epa.ie/publications/monitoring--assessment/freshwater--marine/water-quality-in-ireland-2013-2018.php</p>	
<p>In 2020, the EPA published Ireland's Environment 2020 - An Assessment - Report. Chapter 14 (Environment, Health and Wellbeing) addresses chemicals in the environment, including POPs.</p>	<p>The provision of public information</p>	<p>https://www.epa.ie/publications/monitoring--assessment/assessment/state-of-the-environment/irelands-environment-2020---an-assessment---report.php</p>	
<p>Presentation to and discussion with the National Directorate for Fire and Emergency Management and Chief Fire Officers on risks posed and obligations re. PFOA in fire-fighting foams</p>	<p>Awareness programme, and The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>		<p>2020 -</p>
<p>Provision of information on POPs to EPA's enforcement personnel with the aim of enhancing awareness of POPs and EU reporting requirements - information leaflet and presentations provided.</p>	<p>Awareness programme, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>		<p>2020 -</p>
<p>Publically accessible EPA POPs webpage was updated and PFAS webpage was developed. Both are updated on an ongoing basis.</p>	<p>Awareness programme, and The provision of public information</p>		

Table 8. Information exchange activities carried out by Ireland.

General description of the measure	Type of measure	Webpage (copy the URLs in your browser)	Period
<p>Report on analysis of landfill leachate for POPs - made available with summary on on publically accessible. Report also shared with (i) EPA enforcement personnel for the individual landfills involved; (ii) EPA drinking water enforcement personnel; (iii) management for each landfill; and (iv) Irish Water.</p>	<p>Awareness programme, and The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>	<p>https://www.epa.ie/publications/monitoring--assessment/waste/pops-in-landfill-leachate-final-report.php</p>	<p>2021 -</p>
<p>Report on the analysis of water, soil and vegetation for PFOS, PFOA and PBDEs at 2 airport, 1 local authority fire service and 1 industrial fire training site - made available with summary on publically accessible website. Report also shared with (i) EPA enforcement personnel for the industrial site; (ii) EPA drinking water enforcement personnel; (iii) Chief Fire Officer at Fire Service Site; and (iv) Irish Water.</p>	<p>Awareness programme, and The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>	<p>https://www.epa.ie/publications/monitoring--assessment/waste/monitoring-for-per--and-poly-fluoroalkyl-substances-pfas-and-brominated-flame-.php</p>	<p>2021 -</p>
<p>"See it? Say it!" application for reporting environmental pollution, including backyard burning, is available to the public on an ongoing basis.</p>	<p>The provision of public information</p>	<p>https://apps.apple.com/ie/app/see-it-say-it/id573916383</p>	
<p>The EPA funded the ELEVATE research project that investigated human exposure to a selection of PFAS (including PFOS and PFOA) and brominated flame retardants (BFRs). Indoor air and dust from homes, cars, school classrooms and offices was analysed as well as drinking water (tap & bottled water) and human milk samples. The project report and project highlights video were published on the EPA website and social media. Four research papers relating to this project were published in peer-reviewed scientific journals.</p>	<p>The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>	<p>https://www.epa.ie/publications/research/environment--health/research-343.php https://twitter.com/EPAResearchNews/status/1309138431000403974</p>	<p>2016 - 2020</p>

Table 8. Information exchange activities carried out by Ireland.

General description of the measure	Type of measure	Webpage (copy the URLs in your browser)	Period
<p>The EPA funded the FUEL research project investigated the risks posed from BFRs and PFAS in landfills. Landfill leachate and the surrounding air, soil & groundwater were investigated. The project report and project highlights video were published on the EPA website and social media. Three research papers relating to this project were published in peer-reviewed scientific journals.</p>	<p>The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>	<p>https://www.epa.ie/publications/research/environment--health/research-345.php https://twitter.com/EPAResearchNews/status/1311284323568541703</p>	<p>2016 - 2020</p>
<p>The EPA funded the SAFER research project in 2019 to determine the levels of novel BFRs in waste plastics, the shifts in concentrations of POP-BFRs resulting from their regulatory restrictions, and the implications this may have on any hazardous chemical screening processes. This project is due to be completed in 2022. There is a project webpage and social media page and the project team have presented the findings to date The 18th International Symposium on Waste Management and Sustainable Landfilling".</p>	<p>Awareness programme, and The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>	<p>http://www.nuigalway.ie/safer/ https://twitter.com/project_safer</p>	<p>2019 - 2022</p>
<p>The EPA funded the WAFER research project evaluated hand-held XRF for screening waste articles for exceedances of limit values for Brominated Flame Retardants. Three research papers relating to this project were published in peer-reviewed scientific journals.</p>	<p>The provision of public information, and Training of workers, scientists, educators and technical and managerial personnel with regard to persistent organic pollutants</p>	<p>https://www.epa.ie/publications/research/waste/research-272.php https://twitter.com/EPAResearchNews/status/1108034763359748096</p>	<p>2015 - 2019</p>

Appendix A. Stockpile notifications

Information about the specific stockpile notifications received by Ireland is included in this section.

Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds

Code assigned to the stockpile for the report	IE0000000007
Date of Notification	10/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire fighting foam concentrate
Total mass of the stockpile (tonnes)	26.4
Concentration of the POP in the mixture or article (mg/kg)	0.4
Quantity of the Substance (tonnes)	0.00001056
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and there are foam monitors in use onsite. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000008
Date of Notification	10/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	16.5
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.0000004125
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and there are foam monitors in use onsite. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000009
Date of Notification	29/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	9.35
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.00000023375
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000010
Date of Notification	29/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	2.33
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.00000005825
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000011
Date of Notification	29/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	2.47
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.00000006175
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000012
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	1.1
Concentration of the POP in the mixture or article (mg/kg)	1
Quantity of the Substance (tonnes)	0.0000011
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000013
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	9.57
Concentration of the POP in the mixture or article (mg/kg)	7.3
Quantity of the Substance (tonnes)	0.000069861
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000014
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	19.8
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.0000009702
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000015
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	4.02
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.00000019698
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000016
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	13.2
Concentration of the POP in the mixture or article (mg/kg)	0.14
Quantity of the Substance (tonnes)	0.000001848
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000017
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	1.1
Concentration of the POP in the mixture or article (mg/kg)	0.61
Quantity of the Substance (tonnes)	0.000000671
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000018
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	5.5
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.0000002695
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000019
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	6.93
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.00000033957
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000020
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	2.2
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.0000001078
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000021
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	8.8
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.0000004312
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000022
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	4.4
Concentration of the POP in the mixture or article (mg/kg)	0.14
Quantity of the Substance (tonnes)	0.000000616
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000023
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	3.96
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.00000019404
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000024
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	2.2
Concentration of the POP in the mixture or article (mg/kg)	0.049
Quantity of the Substance (tonnes)	0.0000001078
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000025
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	0.88
Concentration of the POP in the mixture or article (mg/kg)	0.07
Quantity of the Substance (tonnes)	0.0000000616
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and awaiting for disposal. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000026
Date of Notification	30/11/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	0.02
Concentration of the POP in the mixture or article (mg/kg)	0.17
Quantity of the Substance (tonnes)	0.0000000034
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and awaiting for disposal. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000027
Date of Notification	03/12/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	44
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.0000011
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a double skin steel tank and there are foam monitors in use onsite. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000028
Date of Notification	03/12/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	14.3
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.0000003575
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a Fire System tank and there are foam monitors in use onsite. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000029
Date of Notification	03/12/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	33
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.000000825
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and there are foam monitors in use onsite. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000030
Date of Notification	03/12/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	61.6
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.00000154
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and there are foam monitors in use onsite. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000031
Date of Notification	10/12/2021
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	1.65
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.00000004125
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000032
Date of Notification	11/01/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	4.95
Concentration of the POP in the mixture or article (mg/kg)	3
Quantity of the Substance (tonnes)	0.00001485
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000033
Date of Notification	11/01/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	0.08
Concentration of the POP in the mixture or article (mg/kg)	0.07
Quantity of the Substance (tonnes)	0.0000000056
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000034
Date of Notification	20/01/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	0.79
Concentration of the POP in the mixture or article (mg/kg)	3
Quantity of the Substance (tonnes)	0.00000237
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area and awaiting disposal. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000035
Date of Notification	03/02/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	5.5
Concentration of the POP in the mixture or article (mg/kg)	0.025
Quantity of the Substance (tonnes)	0.0000001375
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000036
Date of Notification	18/02/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	4.4
Concentration of the POP in the mixture or article (mg/kg)	0.061
Quantity of the Substance (tonnes)	0.0000002684
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000037
Date of Notification	18/02/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	3.52
Concentration of the POP in the mixture or article (mg/kg)	3.8
Quantity of the Substance (tonnes)	0.000013376
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000038
Date of Notification	18/02/2022
Substance or Group of Substances	Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds
Substance member of a group	Pentadecafluorooctanoic acid
EC number	206-397-9
CAS number	335-67-1
Stockpile type	mixture
Description of the mixture (optional)	Fire-fighting foam concentrate
Total mass of the stockpile (tonnes)	1.1
Concentration of the POP in the mixture or article (mg/kg)	0.04
Quantity of the Substance (tonnes)	0.000000044
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The foam concentrate is stored in a bunded area. The foam is not used for training purposes and is used according to the PFOA restriction under the EU POPs Regulation.
Intended use / article description	
Additional information	

Polychlorinated Biphenyls (PCB)

Code assigned to the stockpile for the report	IE0000000001
Date of Notification	
Substance or Group of Substances	Polychlorinated Biphenyls (PCB)
Substance member of a group	1,1'-Biphenyl, chloro derivs.
EC number	215-648-1
CAS number	1336-36-3
Stockpile type	mixture
Description of the mixture (optional)	Insulating oil for electrical equipment
Total mass of the stockpile (tonnes)	0.025
Concentration of the POP in the mixture or article (mg/kg)	
Quantity of the Substance (tonnes)	
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The equipment is in continued use and undergoes regular maintenance where required and is checked on a regular basis. The equipment is housed within locked switchrooms with limited staff access and not open to the elements.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000002
Date of Notification	
Substance or Group of Substances	Polychlorinated Biphenyls (PCB)
Substance member of a group	1,1'-Biphenyl, chloro derivs.
EC number	215-648-1
CAS number	1336-36-3
Stockpile type	mixture
Description of the mixture (optional)	Insulating oil for electrical equipment
Total mass of the stockpile (tonnes)	0.0675
Concentration of the POP in the mixture or article (mg/kg)	276
Quantity of the Substance (tonnes)	0.00001863
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The equipment is in continued use and undergoes regular maintenance where required and is checked on a regular basis. The equipment is housed within locked switchrooms with limited staff access and not open to the elements.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000003
Date of Notification	
Substance or Group of Substances	Polychlorinated Biphenyls (PCB)
Substance member of a group	1,1'-Biphenyl, chloro derivs.
EC number	215-648-1
CAS number	1336-36-3
Stockpile type	mixture
Description of the mixture (optional)	Insulating oil for electrical equipment
Total mass of the stockpile (tonnes)	2.1135
Concentration of the POP in the mixture or article (mg/kg)	85
Quantity of the Substance (tonnes)	0.0001796475
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The equipment is in continued use and undergoes regular maintenance where required and is checked on a regular basis. The equipment is housed within locked switchrooms with limited staff access and not open to the elements.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000004
Date of Notification	
Substance or Group of Substances	Polychlorinated Biphenyls (PCB)
Substance member of a group	1,1'-Biphenyl, chloro derivs.
EC number	215-648-1
CAS number	1336-36-3
Stockpile type	mixture
Description of the mixture (optional)	Insulating oil for electrical equipment
Total mass of the stockpile (tonnes)	0.783
Concentration of the POP in the mixture or article (mg/kg)	122
Quantity of the Substance (tonnes)	0.000095526
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The equipment is in continued use and undergoes regular maintenance where required and is checked on a regular basis. The equipment is housed within locked switchrooms with limited staff access and not open to the elements.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000005
Date of Notification	
Substance or Group of Substances	Polychlorinated Biphenyls (PCB)
Substance member of a group	1,1'-Biphenyl, chloro derivs.
EC number	215-648-1
CAS number	1336-36-3
Stockpile type	mixture
Description of the mixture (optional)	Insulating oil for electrical equipment
Total mass of the stockpile (tonnes)	1.275
Concentration of the POP in the mixture or article (mg/kg)	245
Quantity of the Substance (tonnes)	0.000312375
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The equipment is in continued use and undergoes regular maintenance where required and is checked on a regular basis. The equipment is housed within locked switchrooms with limited staff access and not open to the elements.
Intended use / article description	
Additional information	

Code assigned to the stockpile for the report	IE0000000006
Date of Notification	
Substance or Group of Substances	Polychlorinated Biphenyls (PCB)
Substance member of a group	1,1'-Biphenyl, chloro derivs.
EC number	215-648-1
CAS number	1336-36-3
Stockpile type	mixture
Description of the mixture (optional)	Insulating oil for electrical equipment
Total mass of the stockpile (tonnes)	0.027
Concentration of the POP in the mixture or article (mg/kg)	
Quantity of the Substance (tonnes)	
Management Measures in place	The holder notifies the EPA on a yearly basis via the EPA's online reporting system (www.edenireland.ie). The organisation is a registered user and has a nominated point of contact to complete the notification each year. The equipment is in continued use and undergoes regular maintenance where required and is checked on a regular basis. The equipment is housed within locked switchrooms with limited staff access and not open to the elements.
Intended use / article description	
Additional information	

Appendix B. Releases to the environment of unintentionally produced POPs - additional data

Additional data on releases to air, land and water of Annex III substances.

Table 9. Additional data on unintentional releases of POPs to the environment.

Year	Substance	Environmental compartment	Value (annual emissions estimate)	Units	Brief description of the methodology used for deriving the estimate
1990	Hexachlorobenzene	land	0.08	kg	Derived from State-specific data on HCB concentrations in pesticides.
1990	Hexachlorobenzene	water	0		Derived from State-specific data on HCB concentrations in pesticides.
1990	Polychlorinated Biphenyls (PCB)	land	221.23	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
1990	Polychlorinated Biphenyls (PCB)	water	5.1	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
1990	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	6.54	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
1990	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.52	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
1995	Hexachlorobenzene	land	0.13	kg	Derived from State-specific data on HCB concentrations in pesticides.
1995	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
1995	Polychlorinated Biphenyls (PCB)	land	220.75	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.

Year	Substance	Environmental compartment	Value (annual emissions estimate)	Units	Brief description of the methodology used for deriving the estimate
1995	Polychlorinated Biphenyls (PCB)	water	5.4	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
1995	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	6.61	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
1995	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.55	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2000	Hexachlorobenzene	land	0.2	kg	Derived from State-specific data on HCB concentrations in pesticides.
2000	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2000	Polychlorinated Biphenyls (PCB)	land	185.81	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2000	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	6.66	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2000	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.33	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2005	Hexachlorobenzene	land	0.51	kg	Derived from State-specific data on HCB concentrations in pesticides.
2005	Hexachlorobenzene	water	0.02		Derived from State-specific data on HCB concentrations in pesticides.
2005	Polychlorinated Biphenyls (PCB)	land	187.53	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.

Year	Substance	Environmental compartment	Value (annual emissions estimate)	Units	Brief description of the methodology used for deriving the estimate
2005	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	8.64	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2005	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.28	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2010	Hexachlorobenzene	land	0.34	kg	Derived from State-specific data on HCB concentrations in pesticides.
2010	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2010	Polychlorinated Biphenyls (PCB)	land	39.15	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2010	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	9.66	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2010	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.2	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2011	Hexachlorobenzene	land	0.32	kg	Derived from State-specific data on HCB concentrations in pesticides.
2011	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2011	Polychlorinated Biphenyls (PCB)	land	28.15	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2011	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	9.03	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).

Year	Substance	Environmental compartment	Value (annual emissions estimate)	Units	Brief description of the methodology used for deriving the estimate
2011	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.19	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2012	Hexachlorobenzene	land	0.3	kg	Derived from State-specific data on HCB concentrations in pesticides.
2012	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2012	Polychlorinated Biphenyls (PCB)	land	32.82	g	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2012	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	8.5	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2012	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.18	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2013	Hexachlorobenzene	land	0.29	kg	Derived from State-specific data on HCB concentrations in pesticides.
2013	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2013	Polychlorinated Biphenyls (PCB)	land	23.19	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2013	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	8.66	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2013	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.15	g I-TEQ (NATO-ITF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).

Year	Substance	Environmental compartment	Value (annual emissions estimate)	Units	Brief description of the methodology used for deriving the estimate
2014	Hexachlorobenzene	land	0.29	kg	Derived from State-specific data on HCB concentrations in pesticides.
2014	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2014	Polychlorinated Biphenyls (PCB)	land	18.92	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2014	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	8.45	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2014	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.14	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2015	Hexachlorobenzene	land	0.27	kg	Derived from State-specific data on HCB concentrations in pesticides.
2015	Hexachlorobenzene	water	0.01		Derived from State-specific data on HCB concentrations in pesticides.
2015	Polychlorinated Biphenyls (PCB)	land	20.78	kg	Derived from information on relevant electrical power management equipment provided by the National PCB Inventory.
2015	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	land	9.28	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).
2015	Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	water	0.14	g I-TEQ (NATO-ITEF 1998)	Derived from relevant emission factors outlined in the Toolkit for Identification and Quantification of Releases of Dioxins, Furans and Other Unintentional Persistent Organic Pollutants (UNEP Toolkit).

Appendix C. Art. 7(4)(b)(iv) notifications

No authorisation for the derogation on the treatment of waste in accordance for the Article 7(4)(b)(i) have been granted by Ireland.