NPDWAG – Q3 2021 Irish Water Pesticide Update

The **Pesticide Action Procedure** is applied by IW’s Environmental Regulation function in response to any pesticide exceedance detected as part of IW’s drinking water monitoring programmes. This sets out the subsequent actions to be taken to help prevent the escalation of drinking water investigation file(s) based on the EPA pesticide classification system. Irish Water is responsible for water quality from the raw water intake to the consumer’s tap. IW has no statutory powers with regard to the enforcement of catchment activities but is a key stakeholder and actively engages with other key stakeholders with the relevant statutory roles and responsibilities within the catchment. The Pesticide Action Procedure focuses on the notification of a pesticide exceedance, engagement with other stakeholders, and the targeting of collaborative efforts to prevent the prevalence of pesticides in the catchment to ensure IW Customer’s receive high quality drinking water complying with the legally prescribed standard for pesticides.

Irish Water rely on the cooperation and collaboration of the other stakeholders in the catchment. Dependent of the specific circumstances relating to a particular pesticide exceedance, some aspects of this Action Programme may not always be required or may require modification. Additionally, the Action Programme may require revision or retraction subject to legislative or policy changes.

In addition to the Blue, Amber, and Red file management status, the EPA adopt a two-tier classification system that separates drinking water investigation files for pesticides into either a **Watching** or **Action** category with defined expectations for each as outlined in the table below.

The Pesticide Action Procedure aligns to the EPA’s enforcement approach, by setting out how Irish Water intends to respond to escalation of EPA pesticide file(s) dependent on file classification.

|  |
| --- |
| EPA Pesticide File Classification\* |
| Action File | **Watch File** |
| 4 or more failing months“*Prioritise for Action*” | 1 -3 failing months“*Monitor & Watch*” |

\* The Blue, Amber and Red file management status also applies to these files in tandem with the above approach (e.g. an Amber Pesticide file for a supply on the “Watch” list).

The National quarterly update provides “Monitor and Watch” information for every Pesticide file under the Watch classification – including all Amber files and Red files opened in the past quarter.  Further to the information provided in this quarterly update, the relevant Regional Drinking Water Compliance Teams shall provide the necessary supplementary information to facilitate moving any relevant files from the Red to Amber category.

**Irish Water shall continue to provide separate dedicated updates for those Pesticide files under the Action classification as required by the relevant Directions.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | EPA File Classification | Status | Region | Local Authority | Water Supply Zone | Number of Compliant Months | Number of Failing Months |
| 2020 | ACTION | Open | Northwest | Cavan County Council | Belturbet PWS | 6 | 1 |
| 2021 | ACTION | Open | Northwest | Cavan County Council | Belturbet PWS | 5 | 1 |
| 2020 | ACTION | Open | Southern | Wexford County Council | Clonroche | 7 | 2 |
| 2021 | ACTION | Open | Southern | Wexford County Council | Clonroche | 7 | 1 |
| 2020 | ACTION | Open | East & Midlands | Longford County Council | Longford Central | 3 | 3 |
| 2021 | ACTION | Open | East & Midlands | Longford County Council | Longford Central | 5 | 1 |
| 2020 | ACTION | Open | Southern | Limerick County Council | Newcastle West PWS | 6 | 2 |
| 2021 | ACTION | Open | Southern | Limerick County Council | Newcastle West PWS | 4 | 1 |
| 2020 | ACTION | Open | Northwest | Mayo County Council | Newport PWS | 4 | 3 |
| 2021 | ACTION | Open | Northwest | Mayo County Council | Newport PWS | 2 | 4 |
| 2020 | ACTION | Open | Southern | Limerick County Council | Foynes/Shannon Estuary | 3 | 4 |
| 2021 | ACTION | Open | Southern | Limerick County Council | Foynes/Shannon Estuary | 5 | 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Water Supply Zone | Number of Compliant Months | Number of Failing Months | Year | Jan | Feb | Mar | April | May | Jun | July | Aug | Sept | Oct | Nov |
| Belturbet PWS | 6 | 1 | **2020** |   |   |   | NR | MCPA 0.08 | MCPA 0.043 Total Pesticides 0.08 | MCPA 0.05 | MCPA 0.1 | MCPA 0.1 | MCPA 0.14 | MCPA 0.05 |
| Belturbet PWS | 5 | 1 | **2021** |   |   |   | MCPA 0.05 | MCPA 0.03 | MCPA 0.13  | MCPA 0.07 | MCPA 0.05 |  MCPA 0.06 |   |   |
| Clonroche | 7 | 2 | **2020** | Bent'zone 0.04 | NR | Bent'zone 0.84 | NR | Bent'zone 0.03 | Bent'zone 0.04 | Bent'zone 0.045 | Bentazone <0.04 | Bentazone <0.004 | Bentazone 0.038 | Bentazone 0.15 |
| Clonroche | 7 | 1 | **2021** | Bentazone 0.08 | Bentazone 0.06 | Bentazone 0.03 | Bentazone 0.04 | Bentazone 0.06 | Bentazone0.13  | Bentazone0.05  | Bentazone<0.004  |   |   |   |
| Foynes/Shannon Estuary PWS | 3 | 4 | **2020** |   |   |   | NR | 2,4-D 0.135MCPA 0.112 Triclopyr 0.134 | 2,4-D 0.475, Clopyralid 0.108, MCPA 0.384 | 2-4, D 0.01, MCPA 0.01 | MCPA 0.14 | MCPA 0.13 | MCPA 0.021 | 2-4 D 0.02, MCPA 0.02 |
| Foynes/Shannon Estuary PWS | 5 | 1 | **2021** |   |   |   | 2,4-D 0.01, MCPA <0.005  | MCPA0.18 | MCPA <0.005  | MCPA0.01 | MCPA0.08 | MCPA<0.005 |   |   |
| Longford Central | 3 | 3 | **2020** |   |   |   | NR | NR | MCPA 0.06 | MCPA 0.18 | MCPA 0.25 | MCPA 0.04 | MCPA 0.12 MCPA 0.114 | MCPA 0.09 |
| Longford Central | 5 | 1 | **2021** |   |   |   | MCPA 0.04 |  MCPA 0.095 | MCPA <0.005 | MCPA0.026 | MCPA<0.005 | MCPA0.112 |   |   |
| Newcastle West PWS | 6 | 2 | **2020** |   |   |   | MCPA <0.005 | Trichlopyr 0.31, MCPA 0.12, 2,4 D 0.14 | 2,4-D 0.44, Trichlopyr 0.18, MCPA 0.36, MCPP 0.11 | 24, D 0.01, MCPA 0.01 | MCPA 0.021 | MCPA <0.005 | MCPA 0.028 | 2-4 D <0.005, MCPA <0.005 |
| Newcastle West PWS | 4 | 1 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.44 | MCPA <0.005 |  MCPA 0.01 | MCPA0.07 |  |   |   |
| Newport PWS | 4 | 3 | **2020** |   |   |   | MCPA 0.01 | MCPA 0.47 | MCPA 0.07 | NR | MCPA 0.06 | MCPA 0.12 | MCPA 0.14 | MCP 0.08 |
| Newport PWS | 2 | 4 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.141 |  MCPA0.147 | MCPA0.40 | MCPA 0.08 | MCPA 0.11 |   |   |

* Currently the total population receiving water from a Public Water Supply that has an open EPA file for Pesticides is 813,170. – An increase of 227,428 since the last quarterly update.
* 44 Pesticide files / compliance plans are currently open – with 5 further file closure since the last quarterly update (Glengarriff, North Leitrim, Glashaboy, Rhode, Carlow Town) with a total population of 60,884
* Of the 44 files currently open, 38 are on **Amber** status and the 6 remaining on **Red** status – these are Borris in Ossory, Buncranna, Shannon/Sixmilebridge Cloneycavan, Fingal Zone 1, Clonroche
* IW believes the files below will be considered for closure as the outstanding results up to and including the end of Q3 2021 are compliant. This will reduce the overall population receiving water from a Public Water Supply with open EPA files for Pesticides by 201,562.

|  |  |  |
| --- | --- | --- |
| **Date Full Wraparound Achieved** | **EPA File Name** | **Local Authority**  |
| Jul-21 | Navan-Mid Meath | Meath County Council |
| Aug-21 | Ballinasloe | Galway County Council |
| Aug-21 | DCC Zone 3 | Dublin City Council |
| Sept-21 | Granard | Longford County Council |

* Of the 44 files currently open, 6 are listed as an Action file with the remaining 38 classified as Watch files. The below table quantifies the number of public water supplies against the number of failing months.

|  |  |  |
| --- | --- | --- |
| Number of Supplies | Number of Failing Months | Percentage of Total |
| 15 | 0 | 88.64% |
| 25 | 1 |
| 3 | 2 | 9.09% |
| 0 | 3 | 2.27% |
| 1 | 4 |
| 0 | 5 |

Irish Water shall continue to apprise the NPDWAG on the current status of files and highlighting where attention is most required.  Outside of the Action files (Newport, Belturbet and Lough Forbes). Irish Water shall be seeking the assistance of the NPDWAG with regard to the below 12 files.  These files have been selected owing to 2 failing months or because there has been 1 failing month in the past quarter.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Local Authority | Water Supply Zone | Compliant Months | Failing Months | Year | Jan | Feb | Mar | April | May | Jun | July | Aug | Sept | Oct | Nov |
| Kerry County Council | Castlecove | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | MCPA 0.129 | MCPA <0.005 |  |   |   |
| Meath County Council | Cloneycavan | 0 | 1 | **2021** |   |   |   | N/A | N/A | N/A | N/A | Clopyralid 0.17 |   |   |   |
| Monaghan County Council | Emyvale | 4 | 1 | **2021** |   |   |   | MCPA 0.02 | MCPA 0.05 | MCPA <0.005 | MCPA 0.12 | MCPA 0.06 |  |   |   |
| Fingal County Council | Fingal Zone 1 | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | MCPA 0.133  | MCPA 0.01 |   |   |   |
| Cork County Council | Glanmire | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | N/A | Triclopyr 0.122 | Triclopyr 0.007 |   |   |
| Monaghan County Council | Glaslough | 4 | 1 | **2021** |   |   |   | MCPA 0.01 | MCPA 0.04 | MCPA <0.005 | MCPA 0.12 | MCPA 0.04 |   |   |   |
| Cavan County Council | Gowna (CN) | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | N/A | MCPA 0.1059 | MCPA 0.03 |   |   |
| Sligo County Council | Kilsellagh | 1 | 1 | **2021** |   |   |   | MCPA <0.005 |   |   |   | MCPA 0.24 |   |   |   |
| Kerry County Council | Listowel Regional Water Supply | 5 | 2 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.22 | MCPA 0.05 | MCPA 0.05 | MCPA 0.04 | MCPA 0.21 |   |   |
| Mayo County Council | Louisburgh PWS | 5 | 1 | **2021** |   |   |   | MCPA 0.01 | MCPA <0.005 | MCPA 0.036 | MCPA 0.04 | MCPA 0.01 | MCPA 0.17 |   |   |
| Cavan County Council | Arvagh PWS | 3 | 2 | **2021** |   |   |   | MCPA 0.02 | MCPA 0.02 | MCPA 0.25 | MCPA 0.15 | MCPA 0.09 |   |   |   |
| Louth County Council | Greenmount | 2 | 2 | **2021** |   |   |   | N/A | 2,4-D 0.14, MCPA 0.18, Total Pesticides 0.53 | Isoproturon 0.36, Triclopyr 0.11, Total Pesticides 0.61 | 2,4-D 0.04, Clopyralid 0.08, Picloram 0.02 | No Sample Taken | 2,4-D 0.019, MCPA 0.007, Total Pesticides 0.026 |   |   |

Irish Water continues to monitor pesticide exceedances by active ingredient to determine trend changes and emerging issues.  The below table provides a national overview of pesticide exceedances by active ingredient. Irish Water has tailored it’s press releases to focus on the broader range of pesticides detected in drinking rather than focus on MCPA alone.

**All Action and Watch Supplies (New supplies added are highlighted in purple)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Local Authority**  | **Water Supply Zone** | **Source Name (WFD Water** **Body Name)** | **Compliant** **Months** | **Failing Months** | **Year** | **Jan** | **Feb** | **Mar** | **April** | **May** | **Jun** | **July** | **Aug** | **Sept** |
| Cavan County Council | Arvagh  | Garty Lough | 3 | 2 | **2021** |   |   |   | MCPA 0.02 | MCPA 0.02 | MCPA  0.25 | MCPA 0.15 | MCPA 0.09 |   |
| Galway County Council | Ballinasloe  | AHASCRAGH\_040, SUCK\_140 | 4 | 0 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.01 | MCPA <0.005 | MCPA <0.005 | MCPA 0.007 |   |
| Donegal County Council | Ballymagroarty | Lough Gorman | 4 | 0 | **2021** |   |   |   | MCPA <0.005 | MCPA <0.005 |   | MCPA <0.005 | MCPA 0.005 |   |
| Cork County Council | Bantry Cahernacrin | Drombrow Lough, MEALAGH\_020 | 5 | 0 | **2021** |   |   |   | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 | MCPA 0.03 |   |
| Cavan County Council | Belturbet  | ERNE\_090 | 5 | 1 | **2021** |   |   |   | MCPA 0.05 | MCPA 0.03 | MCPA 0.13 | MCPA 0.07 | MCPA 0.05 | MCPA 0.06 |
| Laois County Council | Borris in Ossory |   | 0 | 1 | **2021** |   |   |   | N/A | Glyphosate 0.27 | No Sample | No Sample | Glyphosate <0.005 |   |
| Donegal County Council | Buncranna | Doo Lough | 3 | 1 | **2021** |   |   |   | N/A | MCPA 0.19 | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 |   |
| Kerry County Council | Caragh Lake | Lough Cummernamuck | 5 | 0 | **2021** | NR | NR | NR | Glyphosate <0.005 | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 |   |
| Kerry County Council | Castlecove |   | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | MCPA 0.129 | MCPA <0.005 |   |
| Louth County Council | Cavanhill | FANE\_050 | 4 | 0 | **2021** |   |   |   | MCPA <0.003 | 2,4-D 0.05, 2,4-DB 0.08 | MCPA <0.003 | MCPA <0.003 | MCPA 0.02 |   |
| Meath County Council | Cloneycavan |   | 0 | 1 | **2021** |   |   |   | N/A | N/A | N/A | N/A | Clopyralid 0.17 |   |
| Wexford County Council | Clonroche | Enniscorthy Groundwater Body | 7 | 1 | **2021** | Bentazone 0.08 | Bentazone 0.06 | Bentazone 0.03 | Bentazone 0.04 | Bentazone 0.06 | Bentazone 0.13 | Bentazone 0.05 | Bentazone <0.004 |   |
| Wexford County Council | Davidstown | Enniscorthy Groundwater Body | 6 | 0 | **2021** |   |   |   | Glyphosate <0.005 | Glyphosate <0.005 | Glyphosate <0.005 | Glyphosate <0.005 | Glyphosate <0.005 | Glyphosate <0.005 |
| Dublin City Council | DCC Zone 3 | Leixlip Reservoir | 5 | 0 | **2021** |   |   |   | 2,4-D 0.004 | 2,4-D 0.01 | 2,4-D 0.01 | 2,4-D <0.004 | 2,4 D <0.005 |   |
| Donegal County Council | Donegal(River Eske) | ESKE\_020 | 4 | 1 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.06 | MCPA <0.005 |  | MCPA 0.06 |   |
| Tipperary County Council | Dundrum Regional | MULTEEN (EAST)\_010 | 5 | 0 | **2021** |   |   |   | MCPA <0.0052,4D <0.005Glyphosate <0.005 | MCPA <0.005, 2,4-D <0.005, Glyphosate <0.005 | MCPA <0.005 | MCPA 0.0172,4D <0.005Glyphosate <0.005 | MCPA <0.005 |   |
| Monaghan County Council | Emyvale | Emyvale Lough | 4 | 1 | **2021** |   |   |   | MCPA 0.02 | MCPA 0.05 | MCPA <0.005 | MCPA 0.12 | MCPA 0.06 |   |
| Donegal County Council | Fanad East (Shannagh) | Shannagh Lough | 4 | 1 | **2021** |   |   |   | Bentazone 0.46 | Glyphosate 0.03 MCPA 0.03 | MCPA 0.02 | MCPA 0.01 | MCPA 0.02 |   |
| Wexford County Council | Ferns Regional |   | 4 | 1 | **2021** |   |   |   | N/A | Clopyralid 0.16, Fluoroxypr 0.12 | Fluoroxypr <0.005 | Fluoroxypr <0.005 | Fluoroxypr <0.005 | Fluoroxypr <0.005 |
| Fingal County Council | Fingal Zone 1 | Leixlip Reservoir | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | MCPA 0.133  | MCPA 0.01 |   |
| Limerick County Council | Foynes/Shannon Estuary PWS | DEEL (NEWCASTLEWEST)\_140 | 5 | 1 | **2021** |   |   |   | 2,4-D 0.01, MCPA <0.005, MCPA <0.005 | MCPA 0.18 | MCPA <0.005 | MCPA 0.01 | MCPA 0.08 | MCPA <0.005 |
| Cork County Council | Glanmire |   | 1 | 1 | **2021** |   |   |   | N/A | N/A | N/A | N/A | Triclopyr 0.122 | Triclopyr 0.007 |
| Monaghan County Council | Glaslough | Emyvale Lough | 4 | 1 | **2021** |   |   |   | MCPA 0.01 | MCPA 0.04 | MCPA <0.005 | MCPA 0.12 | MCPA 0.04 |   |
| Cavan County Council | Gowna (CN) |   | 0 | 1 | **2021** |   |   |   | N/A | N/A | N/A | N/A | MCPA 0.1059 |   |
| Longford County Council | Granard | Lough Kinale | 6 | 0 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.01 | MCPA 0.007 | MCPA <0.005 | MCPA <0.005 | MCPA 0.01 |
| Louth County Council | Greenmount |   | 2 | 2 | **2021** |   |   |   | N/A | 2,4-D 0.14, MCPA 0.18, Total Pesticides 0.53 | Isoproturon 0.36, Triclopyr 0.11, Total Pesticides 0.61 | 2,4-D 0.04, Clopyralid 0.08, Picloram 0.02 | No Sample Taken | 2,4-D 0.019, MCPA 0.007, Total Pesticides 0.026 |
| Carlow County Council | Hacketstown | DERREEN\_050 | 5 | 0 | **2021** |   |   |   | 2,4D <0.005 | 2,4-D <0.005 | 2,4-D 0.04 | 2,4 D <0.005 | 2,4-D 0.03  |   |
| Kilkenny County Council | Kilkenny City (Troyswood) PWS |   | 4 | 1 | **2021** |   |   |   | N/A | MCPA 0.16 | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 | MCPA <0.005 |
| Sligo County Council | Kilsellagh | Kilsellagh Reservoir  | 3 | 1 | **2021** |   |   |   | MCPA <0.005 |   |   | MCPA 0.01 | MCPA 0.24 | MCPA 0.06 |
| Monaghan County Council | LERWSS |   | 5 | 1 | **2021** |   |   | 2,4-D 0.16 | 2,4-D 0.03 | 2,4-D 0.02 | MCPA 0.03 | MCPA <0.03 | MCPA 0.04 |   |
| Kerry County Council | Listowel  | FEALE\_090 | 4 | 2 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.22 | MCPA 0.05 | MCPA 0.05 | MCPA 0.04 | MCPA 0.21 |
| Longford County Council | Longford Central | Lough Forbes | 5 | 1 | **2021** |   |   |   | MCPA 0.04 | MCPA 0.095 | MCPA <0.005 | MCPA 0.026 | MCPA <0.005 | MCPA 0.112 |
| Mayo County Council | Louisburgh  | BUNOWEN (LOUISBURGH)\_030 | 5 | 1 | **2021** |   |   |   | MCPA 0.01 | MCPA <0.005 | MCPA 0.036 | MCPA 0.04 | MCPA 0.01 | MCPA 0.17 |
| Meath County Council | Navan-Mid Meath | BLACKWATER (KELLS)\_120, BOYNE\_120 | 4 | 0 | **2021** |   |   |   | 2,4-D 0.02, MCPA 0.01 | MCPA 0.07 | 2,4-D 0.03, MCPA 0.03 | MCPA 0.01 |   |   |
| Limerick County Council | Newcastle West PWS | DEEL (NEWCASTLEWEST)\_070 | 4 | 1 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.44, Total Pesticides 0.529 | MCPA <0.005 | MCPA 0.01 | MCPA 0.07 |   |
| Mayo County Council | Newport PWS | NEWPORT (MAYO)\_030 | 2 | 4 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.141 | MCPA 0.147 | MCPA 0.40 | MCPA 0.08 | MCPA 0.11 |
| Clare County Council | Shannon/Sixmilebridge | Castle Lake | 5 | 0 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.01 | MCPA <0.005 | MCPA <0.005 | MCPA 0.02 |   |
| Leitrim County Council | South Leitrim Regional | SHANNON (Upper)\_060 | 5 | 1 | **2021** |   |   |   | MCPA <0.005 | MCPA 0.1 | MCPA 0.11 | MCPA <0.005 | MCPA 0.04 | MCPA 0.04 |
| Louth County Council | South Louth & East Meath WSZ | Boyne\_180 | 3 | 0 | **2021** |   |   |   | MCPA <0.003 | 2,4-D 0.01 | MCPA 0.01 | MCPA <0.003 | MCPA 0.01 |   |
| Wexford County Council | South Regional | OWENDUFF (WEXFORD)\_030 | 5 | 1 | **2021** |   |   |   | 2,4-D 0.26 | 2,4-D 0.01 | MCPA <0.005 | MCPA 0.01 | MCPA <0.005 | MCPA <0.005 |
| Galway County Council | Tully-Tullycross | Tully Lough | 5 | 0 | **2021** |   |   |   | 2,4-D 0.01 | 2,4-D <0.005 | MCPA 0.030 | MCPA <0.005 |   | MCPA 0.03 |
| Tipperary County Council | Upperchurch |   | 5 | 1 | **2021** |   |   |   | Glyphosate 0.27 | Glyphosate <0.005 | Glyphosate <0.005 | Glyphosate <0.006 | MCPA <0.005 | Glyphosate <0.005 |
| Wexford County Council | Wexford Town | COOLREE STREAM\_010 | 6 | 0 | **2021** |   |   |   | 2,4-D <0.005 | 2,4-D <0.005 | MCPA <0.005 | MCPA 0.01 | MCPA <0.005 | MCPA <0.005 |
| Cork County Council | Youghal |   | 4 | 1 | **2021** |   |   |   | N/A | MCPA 0.31 | Flurozypr 0.03 | MCPA <0.005 | Flurozypr 0.03 | MCPA <0.005 |