

Drinking Water Quality Report for Northern Ireland 2020

Mid-Ulster District Council

2020 IMPORTANT SAMPLING INFORMATION

Please be aware that during 2020 due to the ongoing COVID-19 pandemic, with the agreement of the Drinking Water Inspectorate (DWI), NI Water reduced potable water sampling as part of the plan to protect staff and customers, whilst maintaining assurance that there was no risk to public health from public water supplies.

This included the cessation of all sampling at customer taps with effect from 16th March 2020, with a reduced number of parameters sampled upstream at Service Reservoirs.

From 18th May 2020, sampling returned to the regulatory frequencies, with the exception of a small number of parameters, which are customer tap specific.

Customer tap sampling remains at designated Service Reservoirs or other identified fixed-point locations.

This has created a shortfall in regulatory sampling at customer tap for the calendar year 2020. During the period however, NI Water maintained full sampling and analysis at its Water Treatment Works and downstream Service Reservoirs as per regulatory requirements.

This along with customer tap samples taken at designated fixed points in the distribution system ensured that the quality of water supplied to our customers was effectively monitored and maintained throughout the period.

Water Quality by Northern Ireland Council Area

This local council report is designed to demonstrate water quality by individual council area based on the Percentage Compliance at Customer Tap (including Supply Points) over the water supply zones associated with that council area, as shown on the associated maps.

For monitoring purposes, NI Water's supply area is divided into water supply zones. These are areas serving not more than 100,000 people, each of which are normally supplied from a single water supply source or combination of sources. There are areas where owing to topography and dispersal of population, it is not practicable to provide a mains water supply. Currently over 99.9% of Northern Ireland's population receive public water supplies.

In a number of cases, water supply zones overlap council boundaries. The council reports indicate which water supply zones are wholly or partially contained within the council areas, including those zones that may have a relatively small area within the council area. Separation of data within these water supply zones across council boundaries is not practicable, therefore the information used in calculating the zonal and council compliance relates to the whole zone and not merely the part included within a council boundary. Following discussions with the Drinking Water Inspectorate, water supply zones with fewer than 40 properties within the council area have not been used to calculate the individual council compliance. The information is based on samples taken randomly from customer taps in each water supply zone and from planned samples at authorised supply points. Due to the nature of random sampling, there may be fluctuations in water quality across the water supply zones.

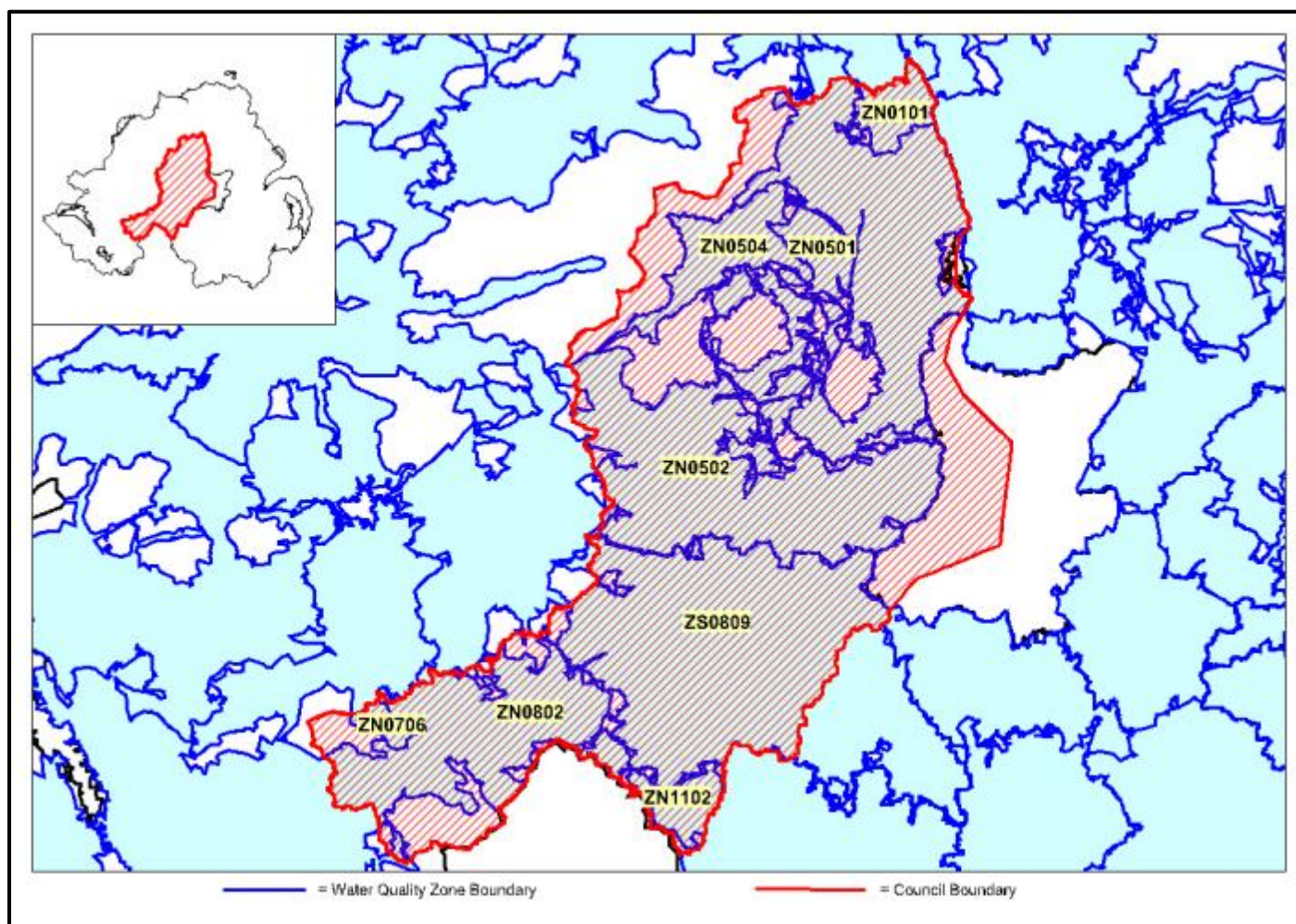
The report also details Capital Work Programmes affecting the council area, which directly related to water quality during the reporting period.

Small variations in water quality compliance performance occur across Northern Ireland. This reflects the need to continue to invest in and to maintain water treatment works, and to improve the water mains network.

A change to the Drinking Water Quality Regulations in 2017 resulted in a reduction of testing frequencies for some parameters at Authorised Supply Points for 2018 onwards. This has slightly lowered the percentage Compliance at Customer Tap at council level, but has not affected the overall compliance.

NI Water has identified the need to deliver a significant volume of water mains rehabilitation and other works across its ageing network. The works are necessary to ensure the efficient and cost effective operation of its water supply system in the immediate future and longer term as well as ensuring adequate levels of water quality and customer supply. To achieve this goal, NI Water has implemented a Water mains Rehabilitation Framework, within which it undertakes work on a Northern Ireland wide basis as identified by the zonal study programme of work.

Mid-Ulster District Council



Percentage Compliance at Customer Tap (including Supply Points)

	Target	2016	2017	2018	2019	2020
Northern Ireland Compliance	99.7%	99.8%	99.8%	99.8%	99.8%	99.9%
Mid-Ulster Compliance	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%

2020 water supply zones wholly or partially within the council area:

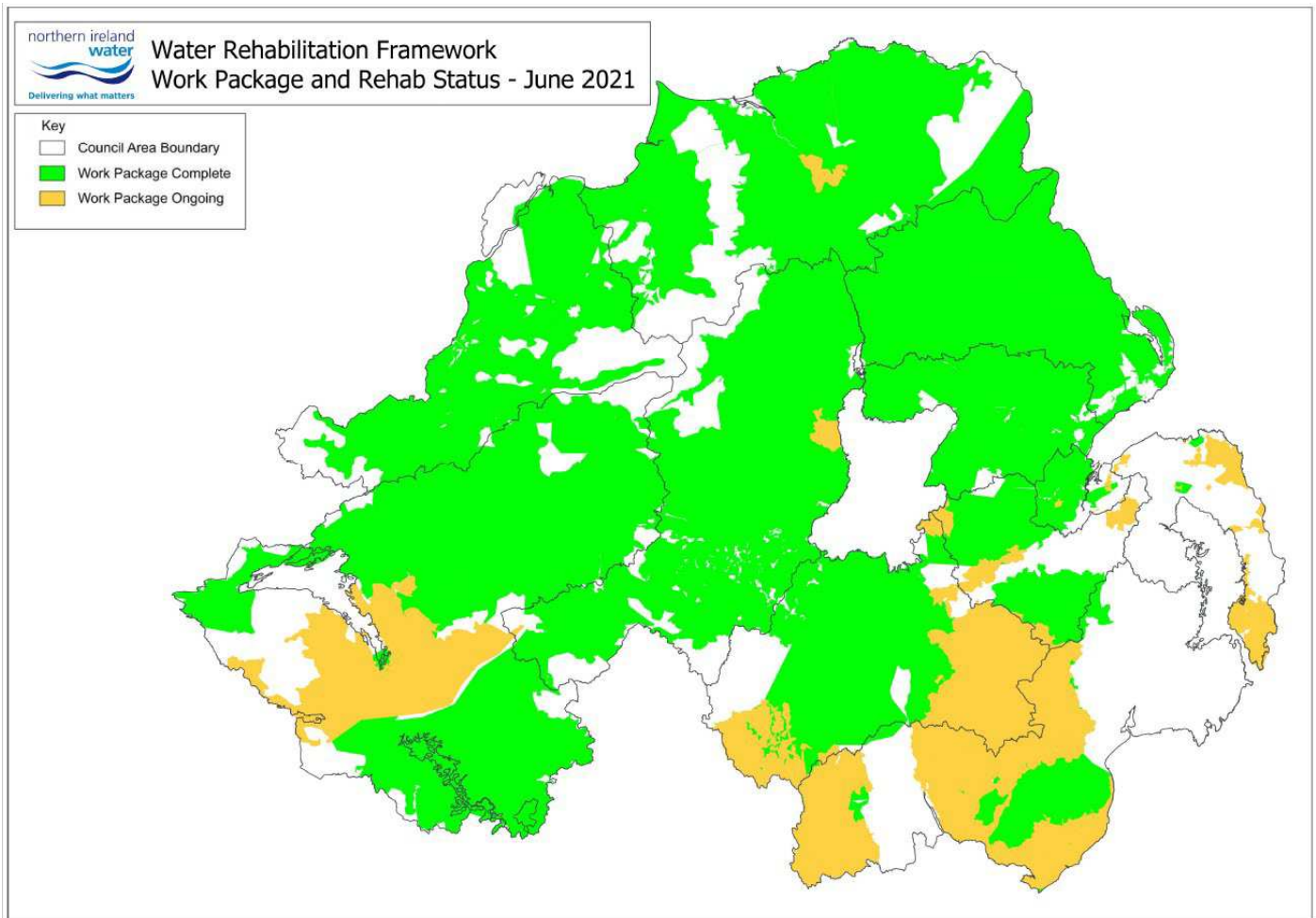
Zone Code	Zone Name	Zone Code	Zone Name
ZN0103	Ballinrees East	ZN0706	Lough Macrory Killyclogher
ZN0501	Moyola Magherafelt	ZN0802	Killyhevlin Enniskillen
ZN0502	Lough Fea Cookstown	ZN1102	Seagahan Armagh
ZN0504	Moyola Unagh Morneal	ZS0809	Castor Bay Dungannon
ZN0705	Lough Macrory Beragh		

2020 water quality Capital Works Programmes affecting the council area:

A6 Castledawson to Randalstown
 Altmore Phase 2 Watermains Rehabilitation
 Antrim North WIIM 2.1 Work Package
 Castor Bay Outage Feasibility Studies
 Castor Bay to Dungannon Strategic Trunk Mains
 Central Zone Resilience
 Clean Water Network Modelling 2021 to 2024
 Facilities Management Review
 Falgotrevy Road, Maghera, Watermains Replacement

Feasibility Study for using Groundwater Abstraction
Granville Dungannon Invest NI Watermains Extension
Lough Fea CWB Capacity Increase
MIMP Central (Major Incident Mitigation Project Central Region) Freeze Thaw Improvements
MIMP West (Major Incident Mitigation Project West Region) Freeze Thaw Improvements
NIAMP5 Project Support
PC15 Lead Communication Pipe Replacement Programme
PC15 Service Reservoir Sample Taps
PC27 Water Treatability optimisation pilot plant
Preparation of Initial Workpackages for PC21
Professional Services Framework Watermains Network PC15
Replacement Watermains 2014/15 - Reactive, Bundle 2
Review of Water Resource and Supply Resilience Plan Technical Guidance
Service Reservoir Security Phase 1
Southern Zone Resilience
Tyrone North WIIM 2.1 Work Package
Water Resource and Supply Resilience Plan
Water Treatment Sites - Water Regulation Compliance & Energy Efficiency Programme
Watermains Rehabilitation, New & Replacement Incorporating First Time Services - Professional Fees
WIIM Phase 2 Lough Fea WP
WIIM Phase 2 Moyola Magherafelt WP

Water Mains Rehabilitation Framework Current Work Package Status



The map above shows the extent of the current Water Mains Rehabilitation Framework covering most of Northern Ireland. To assist clarity, whilst the council boundaries are shown, the individual councils are not named. Regions in white on the map are largely watercourses or upland areas that do not receive public water supply.

Water Quality Events

Major Drinking Water Quality Event in 2020

Date of Major Event	Area and Estimate of Population/ Properties Potentially Affected	Nature and Cause of Serious Event	Associated Council Area(s)
11/03/20 - Ongoing	Northern Ireland (1.9 million)	The ongoing COVID-19 pandemic had a serious impact on NI Water's monitoring programme. All regulatory sampling at consumer taps had to be stopped due to Covid-19 restrictions, with customer tap samples taken at designated fixed points. Regulatory sampling was maintained at water treatment works and at service reservoirs.	All

Serious Drinking Water Quality Events in 2020

Date of Serious Event	Area and Estimate of Population/ Properties Potentially Affected	Nature and Cause of Serious Event	Associated Council Area(s)
10/04/20 – 14/04/20	Fofanny WTW (93,272 population)	Taste and odour complaints were received from the Kilkeel, Ballymartin, and Annalong areas due elevated chlorine levels from Fofanny WTW following a plant shutdown.	Newry, Mourne & Down District.
29/04/20 – 04/06/20	Northern Ireland (1.9 million)	High water demand in the network due to a period of particularly warm and dry conditions, and exacerbated by COVID-19 pandemic. A NI Water Category 1 Incident was declared. Alternative water supplies including asset to asset tankering was required.	All
06/08/20 – 14/08/20	High Tober SR (3,258 population)	Consumer complaints of discoloured water were received by NI Water following a malfunction of the inlet valve at High Tober SR. Samples taken in response to this event contravened the aluminium, iron, manganese, and turbidity standards and levels above the Health Notification Values (HNVs) were detected.	Causeway Coast & Glens Borough.

Significant Drinking Water Quality Events in 2020

Date of Significant Event	Area and Estimate of Population/ Properties Potentially Affected	Nature and Cause of Significant Event	Associated Council Area(s)
05/01/20 - 06/01/20	Drummaroad WTW (427,497 population)	Elevated levels of aluminium occurred in the works final water. Following an investigation, NI Water was unable to identify the cause of the contravention.	Belfast City; Lisburn & Castlereagh City; Newry, Mourne & Down District; and North Down & Ards Borough.
24/01/20 - 07/02/20	Rathlin WTW (296 population)	Contraventions of the taste parameter were reported in the works final water. NI Water's investigation was unable to determine a cause for the contraventions.	Causeway Coast & Glens Borough.
04/02/20 - 05/02/20	Drummaroad WTW (445,087 population)	Elevated levels of aluminium occurred in the works final water due to treatment difficulties following an unplanned shutdown.	Belfast City; Lisburn & Castlereagh City; Newry, Mourne & Down District; and North Down & Ards Borough.
02/03/20 - 05/03/20	Killyhevlin WTW (79,743 population)	<i>Cryptosporidium</i> oocysts were detected on two separate occasions in early March. There was insufficient evidence to determine their origin - they may have come from the raw water or from contamination at the works	Fermanagh & Omagh District.
14/03/20 - 17/03/20	Tullybrannigan South SR (11,682 population)	A high number of consumer complaints regarding discoloured water were received in the Newcastle area. Samples taken in response to this event contravened the aluminium and manganese standards. Aluminium levels above the Health Notification Value (HNV) were reported. The event was caused by operational work at Tullybrannigan South SR to install a new inlet control valve.	Newry Mourne & Down District.
24/03/20 - 01/04/20	Killylane WTW (54,243 population)	Contraventions of the aluminium and iron parameters were reported in the works final water. Following an investigation, NI Water was unable to identify the cause of the contravention.	Mid & East Antrim Borough.
04/05/20 - 19/10/20	Carmoncy WTW (56,996 population)	Contraventions of the individual pesticide standard for MCPA occurred in the works final water. Carmoncy WTW has pesticide removal treatment in place, which is normally effective at reducing MCPA levels to below the regulatory limit. The cause of these contraventions is undetermined. There is a risk for the use of MCPA within the catchment area for weed and rush control, and there are occasions of high levels of MCPA in the raw water supply.	Derry City & Strabane District.
04/05/20 – Ongoing	Derg WTW (38,989 population)	Contraventions of the individual pesticide standard for MCPA occurred in the works final water due to insufficient treatment. A Regulation 31(4) Notice has been issued by DWI in respect of this matter.	Derry City & Strabane District and Fermanagh & Omagh District.

Date of Significant Event	Area and Estimate of Population/ Properties Potentially Affected	Nature and Cause of Significant Event	Associated Council Area(s)
12/05/20 - 28/05/20	Glenhordial WTW (12,040 population)	A contravention of the individual pesticide standard for MCPA occurred in the works final water. The pesticide removal treatment was not in operation at the time of this event.	Fermanagh & Omagh District.
28/05/20 - 29/05/20	Ballybriest SR (273 properties)	Tankering into Ballybriest SR was required to recover storage following a planned shutdown at Lough Fea WTW.	Mid-Ulster District.
11/06/20 - 01/07/20	Ballinrees WTW (180,627 population)	Contraventions of the taste and odour parameters occurred in the works final water and related distribution due to insufficient treatment. A Regulation 31(4) Notice has been issued by DWI in relation to taste and odour contraventions at Ballinrees WTW.	Causeway Coast & Glens Borough & Derry City & Strabane District.
13/06/20 - 19/06/20	Drummaroad WTW/ Ards Trunk Main (186,890 population)	Contraventions of the aluminium parameter were reported in the Drummaroad WTW supply area following a burst on the Ards trunk main.	Newry, Mourne & Down District; and North Down & Ards Borough.
13/07/20 - 14/07/20	Drummaroad WTW (399,177 population)	A contravention of the aluminium parameter occurred in the works final water. Following an investigation, NI Water was unable to identify the cause of the contravention.	Belfast City; Lisburn & Castlereagh City; Newry, Mourne & Down District; and North Down & Ards Borough.
26/07/20 - 27/07/20	Dorisland WTW (136,954 population)	A contravention of the aluminium parameter occurred in the works final water following a failure of the lime dosing system, which led to sub-optimal treatment.	Antrim & Newtownabbey Borough; Belfast City; and Mid & East Antrim Borough.
01/08/20 - 04/08/20	Killylane WTW (54,243 population)	Contraventions of the aluminium and turbidity parameters occurred in the works final water following treatment difficulties.	Mid & East Antrim Borough.
16/08/20 - 17/08/20	Ballinrees WTW (180,627 population)	Elevated levels of aluminium and turbidity occurred in the works final water following treatment difficulties caused by a dosing pump failure. NI Water has made improvements to its on-line monitoring to prevent a recurrence.	Causeway Coast & Glens Borough and Derry City & Strabane District.
18/08/20 - 20/08/20	Breda Trunk Main (9,154 population)	Low water pressure and loss of supply to some consumers including part of the Belfast City Hospital estate occurred following a burst main. NI Water carried out re-zoning exercises and provided Alternative Water Supplies.	Belfast City.
22/08/20 - 24/08/20	Derg WTW (38,989 population)	A contravention of the aluminium parameter occurred in the works final water following an issue with the lime dosing system, which led to sub-optimal treatment.	Derry City & Strabane District and Fermanagh & Omagh District.
20/09/20	Killyhevlin WTW (79,743 population)	Following a power cut, a plant shutdown occurred and when the automatic start-up took place, there was internal flooding of the main building. This led to a further plant shutdown. A NI Water Category 1 Incident was declared. Asset to asset tankering to	Fermanagh & Omagh District.

Date of Significant Event	Area and Estimate of Population/ Properties Potentially Affected	Nature and Cause of Significant Event	Associated Council Area(s)
		Tattinbar and Cavanacross SRs was required to maintain supply. There were no water quality failure associated with the event and supply to customers was maintained throughout.	
08/10/20 - 09/10/20	Carmoney WTW (56,996 population)	A <i>Cryptosporidium</i> oocyst was detected in the works final water. All subsequent samples were satisfactory.	Derry City & Strabane District.
26/10/20 - 29/10/20	Killylane WTW (54,243 population)	A contravention of the aluminium parameter occurred in the works final water following an issue with the lime dosing system, which led to sub-optimal treatment.	Mid & East Antrim Borough.
13/10/20 - 20/10/20	Killyhevlin WTW (79,743 population)	Contraventions of the individual pesticide standard for MCPA occurred in the works final water and two associated service reservoirs. Killyhevlin WTW has pesticide removal treatment but it was by-passed at the time of these contraventions to facilitate work in relation to the installation of UV treatment.	Fermanagh & Omagh District.
11/11/20 - 09/12/20	Clay Lake WTW (9,881 population)	Contraventions of the individual pesticide standard for MCPA occurred in the works final water. Clay Lake WTW has pesticide removal treatment in place, which is normally effective at reducing MCPA levels to below the regulatory limit. The cause of these contraventions is undetermined. There is a risk for the use of MCPA within the catchment area for weed and rush control and there are occasions of high levels of MCPA in the raw water supply.	Armagh City Banbridge & Craigavon Borough District.
07/12/20 – 18/12/20	Killylane WSZ (626 properties)	Contraventions of the aluminium and iron parameters occurred in a regulatory sample taken at Slimero SR due to COVID-19 restrictions. The contraventions were caused by a low level in the SR.	Mid & East Antrim Borough.

After investigations during the reporting period, there were also three events categorised by DWI as “Minor”, and seven events categorised as “Not Significant”.

UNDERSTANDING YOUR WATER QUALITY RESULTS

Where the water quality standards come from

The water we supply for domestic use or food production must comply with the standards in The Water Supply (Water Quality) Regulations (NI) 2017, which incorporate European Union standards and more stringent UK national standards. These Regulations detail the acceptable levels of certain characteristics, elements and substances allowed in drinking water. Usually, this is a maximum level; but, occasionally, a minimum is also set (e.g. pH). This permissible level is known as the Prescribed Concentration or Value (PCV). Some of the regulatory levels are set for aesthetic reasons and not for health (e.g. Colour).

Where we sample

Samples are taken from our service reservoirs, water treatment works and taps in customers' homes. Every year, our accredited laboratories carry out over 100,000 sophisticated tests to ensure quality standards are met. The Drinking Water Inspectorate (DWI) within the Northern Ireland Department of Agriculture, Environment and Rural Affairs (DAERA) also independently audits these tests and issues a report each year on its findings. DWI ensures that NI Water meets more than 50 legal standards for drinking water quality to match water companies across the rest of the UK. The standards are strict and generally include wide safety margins. They cover: bacteria; chemicals, such as nitrates and pesticides; metals, such as lead; and how water looks and tastes.

What happens if a test fails?

If a sample fails a test, this does not necessarily mean the water is unsafe to drink. Sometimes, the water in our mains or pipes and in the neighbouring properties is good, but the failure is caused by the householder's own plumbing system. However, we take all failures of these standards very seriously and these are dealt with by a team of specialists. All failures are recorded, investigated and action is taken to resolve the problem. If the contamination is found to be due to the tap or internal plumbing, NI Water will inform the customer in writing of the reason for the failure so that they can take appropriate action. A copy of the letter is also provided to the Public Health Agency, the local Environmental Health Officer and the DWI.

All PCV failures are also reported externally to the DWI, respective health boards, Environmental Health departments, the Consumer Council for Northern Ireland (CCNI), DRD Water Policy Unit and the Utility Regulator (NAIUR).

Units of measurement

The units of measurement used in this factsheet are as follows:

- 1 milligram per litre (mg/l) is one part per million (ppm)
- 1 microgram per litre (µg/l) is 1 part per billion (or thousand million)
- NTU – Nephelometric turbidity units (for turbidity measurement)
- Pt/Co – Platinum-cobalt units Standard (for colour measurement)
- µS/cm – micro siemens per centimetre (for conductivity measurement)

Concentration or value

Shown in three ways:

- **Min**(imum), the lowest result during the period
- **Mean**, the average of the results
- **Max**(imum), the highest result during the period.
- A '<' symbol means a result was less than the value at which a parameter can be detected.
- A '>' symbol means a result was greater than the range within which a parameter is normally detected.

Number of samples

- Total taken – the number of samples tested for each parameter
- Contravening – shows the number of samples that exceeded the PCV
- % of samples contravening PCV – the number of samples that contravened the PCV compared to the total number of samples taken expressed as a percentage.

INDIVIDUAL PARAMETERS / SUBSTANCES

Hardness

Total Hardness is normally caused by dissolved calcium and, to a lesser extent, magnesium in rocks through which the water has passed. In Northern Ireland, our water is predominantly soft to moderately soft or slightly to moderately hard. Hardness means you may have to use more soap when washing as hard water lathers less than soft water. It has not been proven to have adverse effects on health and is safe to drink. There is no standard specified in the current regulations. Dependent upon the origin and manufacturer of your dishwasher, you may require a specific parameter, such as Clarke degrees (a.k.a. English degrees) or French or German degrees. GH is general hardness, while KH is Carbonate, or temporary hardness.

pH (listed under 'Hydrogen Ion')

This is a scientific term used to describe the acidity or alkalinity of a fluid. We need to control the pH of water because:

- If water is too acidic, it may corrode metal pipes in the distribution system
- If water is too alkaline, it may cause deposits to form in the pipes. The standard is to keep water pH levels in the 6.5-9.5 range

Colour

The colour of drinking water is usually dependent on the presence of naturally- occurring dissolved organic matter. For example, the higher the peat content of a catchment, (e.g. the Mourne Catchment), the higher the level of colour in the raw water. However, colour may also be due to the presence of iron contributed by old cast-iron mains.

- PCV for colour is 20 mg/l Pt/Co.

Sometimes, the water coming out of the tap has a milky or cloudy appearance, which is usually caused by excess air dissolved in the water as micro bubbles. This is not harmful and, if the water is left to stand for a few minutes, it will clear from the bottom upwards (i.e. the bubbles of air rise to the top of the glass and escape).

Turbidity

Turbidity is caused by very fine insoluble materials that may be present in water. Levels are closely monitored during the treatment processes.

- PCV at the customer's tap is 4 NTU

Odour and taste

Customer complaints quite often relate to taste and odour. Quality control tests are carried out to measure the level of taste and odour and are performed by a specialist testing panel.

- PCV for each = Dilution Number >0

Conductivity

Conductivity is proportional to the dissolved solids content of the water and is often used as an indication of the presence of dissolved minerals, such as calcium, magnesium and sodium.

- PCV is 2500 μ S/cm at 20°C

Chlorine (Cl - listed under Free-Residual disinfectant)

Chlorine is added to water to ensure water is free from bacteria. When chlorine is added, not all of it is used up in the process. Some remains as 'free chlorine' to make sure the water remains safe as it passes through the distribution system.

No PCV is prescribed for chlorine in the regulations and these levels are set to ensure that a small concentration remains at the end of the distribution system to maintain customer safety.

***E. coli* and enterococci**

If present, these indicate a possible breach in the integrity of the water supply system. An effective treatment process will kill any organisms present.

PCV standards are:

- 0 /100ml for *E. Coli*
- 0 /100ml for Enterococci

Coliform bacteria

These are naturally present in the environment. Their presence may indicate a possible breach in the integrity of the supply system or contamination from the kitchen sink or taps.

Nitrite and nitrate (NO₂ and NO₃)

Normally only trace amounts of these compounds are found in water.

- PCV for nitrite = 0.5 mg NO₂/l
- PCV for nitrate = 50 mg NO₃/l

Chloride (Cl)

Chloride in water originates from natural sources such as mineral deposits. It can contribute to taste that may be unacceptable to customers if the standard is exceeded.

- PCV = 250 mg Cl/l

Fluoride (F)

NI Water does not add fluoride to any water supply in Northern Ireland. Fluoride can occur naturally in some raw water supplies at low levels.

- PCV = 1.5 mg F/l

Sulphate (SO₄)

Sulphate occurs naturally in water and originates from mineral deposits. High concentrations may give rise to taste problems and, in the long-term, damage pipe work.

- PCV = 250 mg SO₄/l

Copper (Cu)

Copper can occur naturally in some water sources, and is normally found in low concentrations in drinking water.

- PCV = 2 mg Cu/l

Iron (Fe)

This is one of the most abundant metals found naturally in surface and ground waters. After treatment, it is normally reduced to trace concentrations in drinking water. Increased levels can occur due to the corrosion of old cast-iron water mains. There is no known health risk associated with high iron concentrations, but staining of clothing in washing machines can occur.

- PCV = 200 µg Fe/l

Manganese (Mn)

Manganese occurs naturally in water. High concentrations of manganese in tap water may cause discolouration and possible staining of clothing in washing machines.

- PCV = 50 µg Mn/l

Aluminium (Al)

Aluminium can occur naturally in water within certain catchments. However, aluminium compounds are used in the treatment process to help remove impurities. Any aluminium compounds added during the treatment process are removed before the final treated water leaves the treatment works.

- PCV = 200 µg Al/l

Sodium (Na)

Sodium occurs naturally in trace amounts in water. High concentrations may impart a level of taste that is unacceptable to customers.

- PCV = 200 mg Na/l

Lead (Pb)

Lead is not normally present in water sources, but significant concentrations may be present at customers' taps if lead or copper pipes with lead joints have been used in the plumbing system. More information is available [here](#).

- PCV = 10 µg Pb/l

Trihalomethanes (THMs)

THMs occur in drinking water as by-products of the reaction of chlorine with naturally occurring dissolved organic materials. In drinking water, only four compounds out of the group of THMs have health significance, the most common of which is chloroform. The PCV is based on the sum of the concentrations of all four constituents.

- PCV = 100 µg/l

Other substances

In addition to those listed and explained above, we also test for substances such as hydrocarbons, pesticides and herbicides, phenols and organic carbon. We also carry out extensive monitoring of our supplies for cryptosporidium through sampling of raw and final treated water.

Home-brewers may be interested in the Calcium, Magnesium, Carbonate, Sodium, Sulphate, Chloride and pH levels of their water supply. If you cannot locate the information you require, please contact us at waterline@niwater.com

Zonal Commentaries and Public Registers

2020 WATER SUPPLY COMMENTARY

ZN0103 - Ballinrees East

The water supplied in this zone within your council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

WATER SUPPLY ZONE - ZN0103 - Ballinrees East
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
							Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	8	8	0	0.000	< 0.100	< 0.371	< 0.410
2,4-D	ug/l	AS	8	9	0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	8	10	0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	24	21	0	0.000	13.000	33.810	130.000
Ammonium	mg NH4/l	S	8	19	0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7	0	0.000	0.029	0.173	0.280
Arsenic	ug/l As	S	8	7	0	0.000	< 0.300	< 0.309	< 0.310
Asulam	ug/l	AS	8	9	0	0.000	< 0.017	< 0.025	< 0.085
Bentazone	ug/l	AS	8	10	0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	8	9	0	0.000	< 0.041	< 0.138	< 0.150
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7	0	0.000	0.006	< 0.033	< 0.038
Bromate	ug BrO3/l	S	8	8	0	0.000	< 0.990	< 0.990	< 0.990
Bromoxynil	ug/l	AS	8	10	0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7	0	0.000	< 0.010	< 0.259	< 0.300
Chloride	mg Cl/l	S	8	6	0	0.000	19.000	22.167	24.000
Chlorotoluron	ug/l	AS	8	9	0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	8	9	0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7	0	0.000	< 0.370	< 0.370	< 0.370
Clopyralid	ug/l	AS	8	10	0	0.000	< 0.013	< 0.013	< 0.013
Clostridium perfringens (sulph red)	No./100 ml	AS	8	8	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	24	20	0	0.000	0.000	8.650	50.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	20	0	0.000	0.000	0.000	0.000
Colour	mg/l Pt/Co	S	24	19	0	0.000	< 0.930	< 1.270	1.800
Conductivity	uS/cm 20 C	S	24	21	0	0.000	180.000	309.048	380.000
Copper	mg Cu/l	S	8	2	0	0.000	0.002	< 0.023	< 0.043
Cyanide	ug/l CN	AS	8	8	0	0.000	0.000	5.100	7.800
Dicamba	ug/l	AS	8	9	0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	8	10	0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	8	9	0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	8	9	0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	8	9	0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	72	60	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	9	0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	8	9	0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	8	9	0	0.000	< 0.005	< 0.005	< 0.005
Fluoride	mg F/l	S	8	6	0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	8	9	0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	72	63	0	0.000	0.080	0.324	0.620
Glyphosate	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	24	20	0	0.000	7.030	7.494	7.790
Iron	ug Fe/l	S	24	22	0	0.000	< 14.200	< 42.764	180.000
Isoproturon	ug/l	AS	8	9	0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	2	0	0.000	< 0.100	< 0.700	< 1.300
Linuron	ug/l	AS	8	9	0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	8	10	0	0.000	0.010	0.019	0.032
MCPB	ug/l	AS	8	10	0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	24	21	0	0.000	< 0.830	< 4.453	46.000
Mecoprop	ug/l	AS	8	10	0	0.000	0.000	0.004	0.010
Mercury	ug/l Hg	S	8	7	0	0.000	< 0.022	< 0.046	< 0.050
Metalaxyl	ug/l	AS	8	9	0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	8	9	0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	8	9	0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	8	9	0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	8	9	0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2	0	0.000	0.740	0.870	1.000
Nitrate	mg/l	S	8	6	0	0.000	0.980	1.747	2.800
Nitrate/Nitrite Formula		S	8	6	0	0.000	< 0.023	< 0.037	< 0.056
Nitrite	mg/l	S	8	6	0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	24	13	0	0.000	0.000	0.000	0.000
Oxamyl	ug/l	AS	8	9	0	0.000	< 0.002	< 0.007	< 0.023
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN0103 - Ballinrees East										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
								Min.	Mean	Max.
Pendimethalin	ug/l	AS	8	9		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	8	9		0	0.000	0.000	0.023	0.046
Phorate	ug/l	AS	8	9		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	8	9		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	8	9		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	8	9		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	8	9		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	8	9		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	6		0	0.000	17.000	18.333	20.000
Sodium	mg Na/l	S	8	6		0	0.000	17.000	18.333	20.000
Sulphate	mg SO4/l	S	8	6		0	0.000	53.000	64.500	82.000
Taste	Diln No	S	24	13		1	7.692	0.000	0.231	3.000
Tebuconazole	ug/l	AS	8	9		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	8	9		0	0.000	< 0.770	< 0.777	< 0.790
Tetrachloromethane	ug/l	AS	8	9		0	0.000	< 0.100	< 0.376	< 0.410
Total - Residual disinfectant	mg Cl/l	S	72	63		0	0.000	0.160	0.449	0.750
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	1.900	2.757	3.400
Total Trihalomethanes	ug/l	S	8	9		0	0.000	41.000	55.778	78.000
Total coliforms	No./100 ml	S	72	60		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	9		0	0.000	< 0.012	< 0.012	< 0.012
Tritium	Bq/l	AS	1	1		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	24	21		0	0.000	< 0.180	< 0.290	1.500

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 27539

This zone has a surface water source :R1701

PCV Exceedances:

Sample failed 16-JUN-2020 (ZN0103AE) Taste = 3 Diln No.

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN0501 - Moyola Magherafelt

The water supplied in this zone within your council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

WATER SUPPLY ZONE - ZN0501 - Moyola Magherafelt										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		&	samples	samples		samples	samples	(all samples)		
		Freq.	planned	taken in		contraven	contraven	Min.	Mean	Max.
			per annum	year	Auth Dep	ing PCV	ing PCV			
1,2 Dichloroethane	ug/l	AS	16	18		0	0.000	< 0.100	< 0.393	< 0.410
2,4-D	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	36	35		0	0.000	14.000	24.914	39.000
Ammonium	mg NH4/l	S	8	30		0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7		0	0.000	< 0.180	< 0.180	< 0.180
Arsenic	ug/l As	S	8	7		0	0.000	< 0.310	< 0.317	0.360
Asulam	ug/l	AS	16	16		0	0.000	< 0.017	< 0.017	< 0.017
Bentazone	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	16	18		0	0.000	< 0.041	< 0.144	< 0.150
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7		0	0.000	< 0.038	< 0.038	< 0.038
Bromate	ug BrO3/l	S	8	8		0	0.000	< 0.990	< 0.990	< 0.990
Bromoxynil	ug/l	AS	16	16		0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7		0	0.000	< 0.300	< 0.300	< 0.300
Chloride	mg Cl/l	S	8	6		0	0.000	21.000	22.333	24.000
Chlorotoluron	ug/l	AS	16	16		0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7		0	0.000	< 0.370	< 0.371	0.380
Clopyralid	ug/l	AS	16	16		0	0.000	< 0.013	< 0.013	< 0.013
Clostridium perfringens (sulph red)	No./100 ml	AS	16	16		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	36	32		0	0.000	0.000	2.938	20.000
Colony Counts 37 (48hrs)	No./1 ml	S	36	32		0	0.000	0.000	0.063	1.000
Colour	mg/l Pt/Co	S	36	35		0	0.000	0.930	0.991	1.700
Conductivity	uS/cm 20 C	S	36	34		0	0.000	310.000	385.588	420.000
Copper	mg Cu/l	S	8	2		0	0.000	< 0.043	< 0.043	< 0.043
Cyanide	ug/l CN	AS	16	16		0	0.000	0.000	< 5.156	< 5.500
Dicamba	ug/l	AS	16	16		0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	16	16		0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	16	16		0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	16	16		0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	108	95		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	16	16		0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	16	16		0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	16	16		0	0.000	< 0.005	< 0.005	0.007
Fluoride	mg F/l	S	8	6		0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	16	16		0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	108	96		0	0.000	0.050	0.616	1.330
Glyphosate	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	36	34		0	0.000	7.290	7.623	7.980
Iron	ug Fe/l	S	36	34		0	0.000	< 14.200	< 15.576	31.000
Isoproturon	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	3		0	0.000	< 1.300	< 1.300	< 1.300
Linuron	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	16	16		0	0.000	< 0.002	< 0.014	0.092
MCPB	ug/l	AS	16	16		0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	36	34		0	0.000	0.700	0.959	3.800
Mecoprop	ug/l	AS	16	16		0	0.000	0.000	0.004	0.007
Mercury	ug/l Hg	S	8	5		0	0.000	< 0.050	< 0.050	< 0.050
Metalaxyl	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	16	16		0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	16	16		0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2		0	0.000	1.400	2.050	2.700
Nitrate	mg/l	S	8	6		0	0.000	< 0.290	< 2.808	4.900
Nitrate/Nitrite Formula		S	8	5		0	0.000	< 0.005	< 0.051	< 0.099
Nitrite	mg/l	S	8	6		0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	36	21		0	0.000	0.000	0.000	0.000
Oxamyl	ug/l	AS	16	16		0	0.000	< 0.002	< 0.007	< 0.023
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN0501 - Moyola Magherafelt										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		&	samples	samples		samples	samples	(all samples)		
		Freq.	planned	taken in		contraven	contraven			
			per annum	year	Auth Dep	ing PCV	ing PCV	Min.	Mean	Max.
Pendimethalin	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	16	16		0	0.000	0.000	0.014	0.099
Phorate	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	16	16		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	16	16		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.410	< 0.410	< 0.410
Sodium	mg Na/l	S	8	7		0	0.000	13.000	14.714	16.000
Sodium	mg Na/l	S	8	7		0	0.000	13.000	14.714	16.000
Sulphate	mg SO4/l	S	8	6		0	0.000	86.000	90.167	96.000
Taste	Diln No	S	36	21		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	16	18		0	0.000	< 0.770	< 0.777	< 0.790
Tetrachloromethane	ug/l	AS	16	18		0	0.000	< 0.100	< 0.393	< 0.410
Total - Residual disinfectant	mg Cl/l	S	108	96		0	0.000	0.120	0.769	1.500
Total Indicative Dose	mSv/year	AS	2	2		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	2.400	2.743	3.100
Total Trihalomethanes	ug/l	S	8	9		0	0.000	24.000	39.222	57.000
Total coliforms	No./100 ml	S	108	95		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	0.014
Tritium	Bq/l	AS	2	2		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	36	34		0	0.000	< 0.180	< 0.183	0.240

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 44549

This zone has a surface water source :R1301

PCV Exceedances:

Water Quality was satisfactory

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN0502 - Lough Fea Cookstown

The water supplied in this zone within the Mid Ulster council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 except for the following parameter(s):-

Odour – single exceedance

There was no obvious reason for this exceedance, with all resamples being satisfactory.

WATER SUPPLY ZONE - ZN0502 - Lough Fea Cookstown
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
							Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	8	9	0	0.000	< 0.410	< 0.410	< 0.410
2,4-D	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	8	8	0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	24	23	0	0.000	< 2.800	< 14.665	< 41.000
Ammonium	mg NH4/l	S	8	20	0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7	0	0.000	0.110	< 0.170	< 0.180
Arsenic	ug/l As	S	8	7	0	0.000	< 0.300	< 0.309	< 0.310
Asulam	ug/l	AS	8	8	0	0.000	< 0.017	< 0.017	< 0.017
Bentazone	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	8	9	0	0.000	< 0.150	< 0.150	< 0.150
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7	0	0.000	0.004	< 0.033	< 0.038
Bromate	ug BrO3/l	S	8	8	0	0.000	< 0.990	< 0.990	< 0.990
Bromoxynil	ug/l	AS	8	8	0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7	0	0.000	< 0.010	< 0.644	3.000
Chloride	mg Cl/l	S	8	6	0	0.000	9.200	11.167	13.000
Chlorotoluron	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7	0	0.000	< 0.370	< 0.370	< 0.370
Clopyralid	ug/l	AS	8	8	0	0.000	< 0.013	< 0.013	< 0.013
Clostridium perfringens (sulph red)	No./100 ml	AS	8	8	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	24	21	0	0.000	0.000	0.000	0.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	21	0	0.000	0.000	0.048	1.000
Colour	mg/l Pt/Co	S	24	21	0	0.000	< 0.930	< 1.094	1.600
Conductivity	uS/cm 20 C	S	24	22	0	0.000	120.000	144.545	360.000
Copper	mg Cu/l	S	8	2	0	0.000	< 0.043	< 0.051	0.058
Cyanide	ug/l CN	AS	8	8	0	0.000	< 5.500	< 5.500	< 5.500
Dicamba	ug/l	AS	8	8	0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	8	8	0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
Diuron	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	72	62	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	8	8	0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	0.007
Fluoride	mg F/l	S	8	6	0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	8	8	0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	72	64	0	0.000	0.060	0.585	1.100
Glyphosate	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	24	22	0	0.000	6.890	7.110	7.360
Iron	ug Fe/l	S	24	23	0	0.000	< 14.200	< 34.800	110.000
Isoproturon	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	2	0	0.000	0.170	< 0.735	< 1.300
Linuron	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	8	8	0	0.000	< 0.002	< 0.003	0.008
MCPB	ug/l	AS	8	8	0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	24	23	0	0.000	< 0.830	< 1.403	5.400
Mecoprop	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Mercury	ug/l Hg	S	8	7	0	0.000	< 0.022	< 0.046	< 0.050
Metalaxyl	ug/l	AS	8	8	0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	8	8	0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	8	8	0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2	0	0.000	0.480	0.525	0.570
Nitrate	mg/l	S	8	6	0	0.000	< 0.290	< 0.367	0.470
Nitrate/Nitrite Formula		S	8	6	0	0.000	< 0.000	< 0.008	< 0.018
Nitrite	mg/l	S	8	6	0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	24	13	1	7.692	0.000	0.615	8.000
Oxamyl	ug/l	AS	8	8	0	0.000	< 0.002	< 0.007	< 0.023
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN0502 - Lough Fea Cookstown										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
								Min.	Mean	Max.
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	0.000	0.003	0.008
Phorate	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	6		0	0.000	4.600	5.983	7.100
Sodium	mg Na/l	S	8	6		0	0.000	4.600	5.983	7.100
Sulphate	mg SO4/l	S	8	6		0	0.000	34.000	34.667	35.000
Taste	Diln No	S	24	12		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	8	9		0	0.000	< 0.770	< 0.777	< 0.790
Tetrachloromethane	ug/l	AS	8	9		0	0.000	< 0.410	< 0.410	< 0.410
Total - Residual disinfectant	mg Cl/l	S	72	64		0	0.000	0.190	0.677	1.180
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	1.200	2.014	2.900
Total Trihalomethanes	ug/l	S	8	9		0	0.000	29.000	49.444	86.000
Total coliforms	No./100 ml	S	72	62		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Tritium	Bq/l	AS	1	1		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	24	22		0	0.000	0.150	0.185	0.230

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 25684

This zone has a surface water source :R1302

PCV Exceedances:

Sample failed 23-JAN-2020 (ZN0502AE) Odour = 8 Diln No.

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN0504 - Moyola Unagh Mormeal

The water supplied in this zone within your council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

WATER SUPPLY ZONE - ZN0504 - Moyola Unagh Mormeal
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
							Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	16	18	0	0.000	< 0.100	< 0.393	< 0.410
2,4-D	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	16	16	0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	24	22	0	0.000	3.600	21.255	40.000
Ammonium	mg NH4/l	S	8	20	0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7	0	0.000	0.120	0.180	0.240
Arsenic	ug/l As	S	8	7	0	0.000	< 0.300	< 0.309	< 0.310
Asulam	ug/l	AS	16	16	0	0.000	< 0.017	< 0.017	< 0.017
Bentazone	ug/l	AS	16	16	0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	16	18	0	0.000	< 0.041	< 0.144	< 0.150
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7	0	0.000	0.011	2.457	17.000
Bromate	ug BrO3/l	S	8	8	0	0.000	< 0.990	< 0.990	< 0.990
Bromoxynil	ug/l	AS	16	16	0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7	0	0.000	0.013	< 0.259	< 0.300
Chloride	mg Cl/l	S	8	6	0	0.000	17.000	21.833	24.000
Chlorotoluron	ug/l	AS	16	16	0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	16	16	0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7	0	0.000	< 0.370	< 0.391	0.520
Clopyralid	ug/l	AS	16	16	0	0.000	< 0.013	< 0.013	< 0.013
Clostridium perfringens (sulph red)	No./100 ml	AS	16	16	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	24	21	0	0.000	0.000	5.714	120.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	21	0	0.000	0.000	0.000	0.000
Colour	mg/l Pt/Co	S	24	23	0	0.000	< 0.930	< 1.012	1.600
Conductivity	uS/cm 20 C	S	24	23	0	0.000	160.000	327.826	400.000
Copper	mg Cu/l	S	8	2	0	0.000	0.040	< 0.042	< 0.043
Cyanide	ug/l CN	AS	16	16	0	0.000	0.000	< 5.156	< 5.500
Dicamba	ug/l	AS	16	16	0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	16	16	0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	16	16	0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	16	16	0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	16	16	0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	36	32	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	16	16	0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	16	16	0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	16	16	0	0.000	< 0.005	< 0.005	0.007
Fluoride	mg F/l	S	8	6	0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	16	16	0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	36	34	0	0.000	0.050	0.298	0.890
Glyphosate	ug/l	AS	16	16	0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	24	23	0	0.000	7.080	7.558	7.790
Iron	ug Fe/l	S	24	24	0	0.000	< 14.200	< 31.983	79.000
Isoproturon	ug/l	AS	16	16	0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	3	0	0.000	0.100	< 0.900	< 1.300
Linuron	ug/l	AS	16	16	0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	16	16	0	0.000	< 0.002	< 0.014	0.092
MCPB	ug/l	AS	16	16	0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	24	22	0	0.000	< 0.830	< 1.268	2.700
Mecoprop	ug/l	AS	16	16	0	0.000	0.000	0.004	0.007
Mercury	ug/l Hg	S	8	7	0	0.000	< 0.022	< 0.046	< 0.050
Metalaxyl	ug/l	AS	16	16	0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	16	16	0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	16	16	0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	16	16	0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	16	16	0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2	0	0.000	1.100	1.250	1.400
Nitrate	mg/l	S	8	6	0	0.000	< 0.290	< 1.360	4.100
Nitrate/Nitrite Formula		S	8	6	0	0.000	< 0.005	< 0.029	< 0.082
Nitrite	mg/l	S	8	6	0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	24	13	0	0.000	0.000	0.000	0.000
Oxamyl	ug/l	AS	16	16	0	0.000	< 0.002	< 0.007	< 0.023
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN0504 - Moyola Unagh Mormeal										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
					Auth Dep			Min.	Mean	Max.
Pendimethalin	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	16	16		0	0.000	0.000	0.014	0.099
Phorate	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	16	16		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	16	16		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	16	16		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	6		0	0.000	11.000	13.833	15.000
Sodium	mg Na/l	S	8	6		0	0.000	11.000	13.833	15.000
Sulphate	mg SO4/l	S	8	6		0	0.000	73.000	80.667	92.000
Taste	Diln No	S	24	13		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	16	18		0	0.000	< 0.770	< 0.777	< 0.790
Tetrachloromethane	ug/l	AS	16	18		0	0.000	< 0.100	< 0.393	< 0.410
Total - Residual disinfectant	mg Cl/l	S	36	34		0	0.000	0.140	0.437	0.920
Total Indicative Dose	mSv/year	AS	2	2		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	2.500	2.657	3.000
Total Trihalomethanes	ug/l	S	8	9		0	0.000	28.000	44.444	59.000
Total coliforms	No./100 ml	S	36	32		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	16	16		0	0.000	< 0.012	< 0.012	0.014
Tritium	Bq/l	AS	2	2		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	24	23		0	0.000	< 0.180	< 0.188	0.250

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 13981

This zone has a surface water source :R1301

PCV Exceedances:

Water Quality was satisfactory

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN0705 - Lough Macrory Beragh

The water supplied in this zone within your council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

WATER SUPPLY ZONE - ZN0705 - Lough Macrory Beragh
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV	No. Of samples contraven- ing PCV	% of samples contraven- ing PCV	Concentration or value (all samples)		
								Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	8	8		0	0.000	< 0.410	< 0.410	< 0.410
2,4-D	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	24	23		0	0.000	< 2.800	< 7.448	< 14.000
Ammonium	mg NH4/l	S	8	18		0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7		0	0.000	0.030	< 0.159	< 0.180
Arsenic	ug/l As	S	8	7		0	0.000	< 0.300	< 0.309	< 0.310
Asulam	ug/l	AS	8	8		0	0.000	< 0.017	< 0.017	< 0.017
Bentazone	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	8	8		0	0.000	< 0.150	< 0.150	< 0.150
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7		0	0.000	0.005	< 0.033	< 0.038
Bromate	ug BrO3/l	S	8	9		0	0.000	1.700	3.289	4.800
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7		0	0.000	< 0.010	< 0.259	< 0.300
Chloride	mg Cl/l	S	8	6		0	0.000	13.000	15.167	16.000
Chlorotoluron	ug/l	AS	8	8		0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7		0	0.000	< 0.370	< 0.370	< 0.370
Clopyralid	ug/l	AS	8	8		0	0.000	< 0.013	< 0.013	< 0.013
Clostridium perfringens (sulph red)	No./100 ml	AS	8	8		0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	24	22		0	0.000	0.000	0.591	6.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	22		0	0.000	0.000	0.136	2.000
Colour	mg/l Pt/Co	S	24	22		0	0.000	< 0.930	< 0.963	1.300
Conductivity	uS/cm 20 C	S	24	22		0	0.000	140.000	154.545	170.000
Copper	mg Cu/l	S	8	2		0	0.000	< 0.001	< 0.022	< 0.043
Cyanide	ug/l CN	AS	8	8		0	0.000	0.000	< 4.813	< 5.500
Dicamba	ug/l	AS	8	8		0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	8	8		0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	8	8		0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	36	32		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Fluoride	mg F/l	S	8	6		0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	36	33		0	0.000	0.180	0.654	1.010
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	24	22		0	0.000	7.310	7.591	7.980
Iron	ug Fe/l	S	24	23		0	0.000	< 2.000	< 14.096	< 24.000
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	2		0	0.000	< 0.100	< 0.700	< 1.300
Linuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	0.004
MCPB	ug/l	AS	8	8		0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	24	23		0	0.000	0.270	1.086	2.600
Mecoprop	ug/l	AS	8	8		0	0.000	0.000	< 0.004	< 0.004
Mercury	ug/l Hg	S	8	7		0	0.000	< 0.022	< 0.046	< 0.050
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2		0	0.000	0.260	0.360	0.460
Nitrate	mg/l	S	8	6		0	0.000	0.610	1.505	2.800
Nitrate/Nitrite Formula		S	8	6		0	0.000	< 0.016	< 0.032	< 0.056
Nitrite	mg/l	S	8	6		0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	24	14		0	0.000	0.000	0.000	0.000
Oxamyl	ug/l	AS	8	8		0	0.000	< 0.002	< 0.005	< 0.023
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN0705 - Lough Macrory Beragh										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
					Auth Dep			Min.	Mean	Max.
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	0.000	0.001	0.004
Phorate	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	5		0	0.000	9.300	10.020	11.000
Sodium	mg Na/l	S	8	5		0	0.000	9.300	10.020	11.000
Sulphate	mg SO4/l	S	8	6		0	0.000	22.000	28.333	34.000
Taste	Diln No	S	24	14		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	8	8		0	0.000	< 0.770	< 0.775	< 0.790
Tetrachloromethane	ug/l	AS	8	8		0	0.000	< 0.410	< 0.410	< 0.410
Total - Residual disinfectant	mg Cl/l	S	36	33		0	0.000	0.210	0.766	1.450
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	1.200	1.643	2.000
Total Trihalomethanes	ug/l	S	8	9		0	0.000	26.000	31.222	42.000
Total coliforms	No./100 ml	S	36	32		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Tritium	Bq/l	AS	1	1		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	24	23		0	0.000	< 0.100	< 0.177	< 0.180

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 11715

This zone has a surface water source :R4523

PCV Exceedances:

Water Quality was satisfactory

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN0706 - Lough Macrory Killyclogher

The water supplied in this zone within your council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

WATER SUPPLY ZONE - ZN0706 - Lough Macrory Killiclogher
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter		U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
								Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	24	24		0	0.000	< 0.410	< 0.410	< 0.410
2,4-D	ug/l	AS	24	24		0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	24	24		0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	24	22		0	0.000	< 2.800	< 9.514	< 16.000
Ammonium	mg NH4/l	S	8	20		0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7		0	0.000	0.030	< 0.159	< 0.180
Arsenic	ug/l As	S	8	7		0	0.000	< 0.300	< 0.321	< 0.400
Asulam	ug/l	AS	24	24		0	0.000	< 0.017	< 0.017	< 0.017
Bentazone	ug/l	AS	24	24		0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	24	26		0	0.000	< 0.150	< 0.150	< 0.150
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7		0	0.000	0.005	< 0.033	< 0.038
Bromate	ug BrO3/l	S	8	8		0	0.000	2.200	3.550	< 7.800
Bromoxynil	ug/l	AS	24	24		0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7		0	0.000	< 0.010	< 0.259	< 0.300
Chloride	mg Cl/l	S	8	6		0	0.000	13.000	15.167	< 17.000
Chlorotoluron	ug/l	AS	24	24		0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	24	24		0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7		0	0.000	< 0.370	< 0.370	< 0.370
Clopyralid	ug/l	AS	24	24		0	0.000	< 0.013	< 0.013	< 0.014
Clostridium perfringens (sulph red)	No./100 ml	AS	24	24		0	0.000	0.000	0.000	< 0.000
Colony Counts 22	No./1 ml	S	24	21		0	0.000	0.000	4.238	< 48.000
Colony Counts 37 (48hrs)	No./1 ml	S	24	21		0	0.000	0.000	0.143	< 1.000
Colour	mg/l Pt/Co	S	24	22		0	0.000	< 0.930	< 1.076	< 1.700
Conductivity	uS/cm 20 C	S	24	23		0	0.000	140.000	157.826	< 170.000
Copper	mg Cu/l	S	8	4		0	0.000	0.001	< 0.033	< 0.043
Cyanide	ug/l CN	AS	24	24		0	0.000	0.000	< 5.042	< 5.500
Dicamba	ug/l	AS	24	24		0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	24	24		0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	24	24		0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	24	24		0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	24	24		0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	60	52		0	0.000	0.000	0.000	< 0.000
Enterococci	No./100ml	S	8	7		0	0.000	0.000	0.000	< 0.000
Epoxiconazole	ug/l	AS	24	24		0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	24	24		0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	24	24		0	0.000	< 0.005	< 0.005	< 0.005
Fluoride	mg F/l	S	8	6		0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	24	24		0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	60	54		0	0.000	0.150	0.496	< 0.890
Glyphosate	ug/l	AS	24	24		0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	24	23		0	0.000	7.100	7.611	< 7.880
Iron	ug Fe/l	S	24	22		0	0.000	< 2.000	< 13.645	< 14.200
Isoproturon	ug/l	AS	24	24		0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	4		0	0.000	< 0.100	< 1.000	< 1.300
Linuron	ug/l	AS	24	24		0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	24	24		0	0.000	0.000	0.007	< 0.083
MCPB	ug/l	AS	24	24		0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	24	23		0	0.000	0.400	< 1.120	< 2.000
Mecoprop	ug/l	AS	24	24		0	0.000	0.000	0.004	< 0.005
Mercury	ug/l Hg	S	8	7		0	0.000	< 0.022	< 0.046	< 0.050
Metalaxyl	ug/l	AS	24	24		0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	24	24		0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	24	24		0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	24	24		0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	24	24		0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	4		0	0.000	0.260	0.335	< 0.400
Nitrate	mg/l	S	8	6		0	0.000	0.670	1.322	< 2.300
Nitrate/Nitrite Formula		S	8	6		0	0.000	< 0.017	< 0.030	< 0.046
Nitrite	mg/l	S	8	6		0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	24	14		0	0.000	0.000	0.000	< 0.000
Oxamyl	ug/l	AS	24	24		0	0.000	< 0.002	< 0.005	< 0.023
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	0.000	0.000	< 0.000

WATER SUPPLY ZONE - ZN0706 - Lough Macrory Killiclogher										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		&	samples	samples		samples	samples	(all samples)		
		Freq.	planned	taken in		contraven	contraven			
			per annum	year	Auth Dep	ing PCV	ing PCV	Min.	Mean	Max.
Pendimethalin	ug/l	AS	24	24		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	24	24		0	0.000	0.000	0.013	0.170
Phorate	ug/l	AS	24	24		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	24	24		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	24	24		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	24	24		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	24	24		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	24	24		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	6		0	0.000	9.600	10.600	11.000
Sodium	mg Na/l	S	8	6		0	0.000	9.600	10.600	11.000
Sulphate	mg SO4/l	S	8	6		0	0.000	28.000	31.833	35.000
Taste	Diln No	S	24	14		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	24	24		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	24	26		0	0.000	< 0.770	< 0.775	< 0.790
Tetrachloromethane	ug/l	AS	24	26		0	0.000	< 0.410	< 0.410	< 0.410
Total - Residual disinfectant	mg Cl/l	S	60	54		0	0.000	0.210	0.603	0.990
Total Indicative Dose	mSv/year	AS	3	3		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	1.200	1.700	2.200
Total Trihalomethanes	ug/l	S	8	9		0	0.000	29.000	39.333	54.000
Total coliforms	No./100 ml	S	60	52		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	24	24		0	0.000	< 0.012	< 0.012	< 0.012
Tritium	Bq/l	AS	3	3		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	24	23		0	0.000	0.130	< 0.178	< 0.180

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 23680

This zone has a surface water source :R4513

PCV Exceedances:

Water Quality was satisfactory

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN0802 - Killyhevlin Enniskillen

The water supplied in this zone within your council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

WATER SUPPLY ZONE - ZN0802 - Killyhevlin Enniskillen
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
							Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	8	9	0	0.000	< 0.410	< 0.410	< 0.410
2,4-D	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	8	8	0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	52	47	0	0.000	5.300	22.823	54.000
Ammonium	mg NH4/l	S	8	44	0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7	0	0.000	< 0.180	< 0.183	0.200
Arsenic	ug/l As	S	8	7	0	0.000	< 0.310	< 0.340	0.440
Asulam	ug/l	AS	8	8	0	0.000	< 0.017	< 0.017	< 0.017
Bentazone	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	8	9	0	0.000	< 0.150	< 0.150	< 0.150
Benzo(a)pyrene	ug/l	S	8	9	0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7	0	0.000	< 0.038	< 0.045	0.090
Bromate	ug BrO3/l	S	8	9	0	0.000	< 0.990	< 1.510	2.000
Bromoxynil	ug/l	AS	8	8	0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7	0	0.000	< 0.300	< 0.300	< 0.300
Chloride	mg Cl/l	S	8	6	0	0.000	15.000	17.333	19.000
Chlorotoluron	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7	0	0.000	< 0.370	< 0.414	0.550
Clopyralid	ug/l	AS	8	8	0	0.000	< 0.013	< 0.014	0.019
Clostridium perfringens (sulph red)	No./100 ml	AS	8	8	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	52	45	0	0.000	0.000	2.600	41.000
Colony Counts 37 (48hrs)	No./1 ml	S	52	45	0	0.000	0.000	0.178	6.000
Colour	mg/l Pt/Co	S	52	47	0	0.000	< 0.930	< 0.975	1.800
Conductivity	uS/cm 20 C	S	52	48	0	0.000	300.000	414.167	520.000
Copper	mg Cu/l	S	8	2	0	0.000	< 0.043	< 0.043	< 0.043
Cyanide	ug/l CN	AS	8	8	0	0.000	< 5.500	< 5.500	< 5.500
Dicamba	ug/l	AS	8	8	0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	8	8	0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
Diuron	ug/l	AS	8	8	0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	192	165	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7	0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	8	8	0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	8	8	0	0.000	< 0.005	< 0.005	< 0.005
Fluoride	mg F/l	S	8	6	0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	8	8	0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	192	169	0	0.000	< 0.050	< 0.840	1.750
Glyphosate	ug/l	AS	8	9	0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	52	48	0	0.000	7.210	7.958	8.350
Iron	ug Fe/l	S	52	48	0	0.000	< 2.000	< 16.808	65.000
Isoproturon	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	2	0	0.000	< 1.300	< 1.300	< 1.300
Linuron	ug/l	AS	8	8	0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	8	8	0	0.000	< 0.002	< 0.017	0.026
MCPB	ug/l	AS	8	8	0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	52	48	0	0.000	0.370	2.212	38.000
Mecoprop	ug/l	AS	8	8	0	0.000	< 0.004	< 0.004	< 0.004
Mercury	ug/l Hg	S	8	7	0	0.000	< 0.050	< 0.050	< 0.050
Metalaxyl	ug/l	AS	8	8	0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	8	8	0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	8	8	0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	8	8	0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2	0	0.000	0.590	2.395	4.200
Nitrate	mg/l	S	8	6	0	0.000	1.300	2.050	2.700
Nitrate/Nitrite Formula		S	8	6	0	0.000	< 0.029	< 0.042	< 0.054
Nitrite	mg/l	S	8	6	0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	52	30	1	3.333	0.000	0.067	2.000
Oxamyl	ug/l	AS	8	8	0	0.000	< 0.002	< 0.007	< 0.023
PAH - Sum of four substances	ug/l	S	8	9	0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN0802 - Killyhevlin Enniskillen										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		& Freq.	planned	taken in		samples	samples	(all samples)		
			per annum	year	Auth Dep	ing PCV	ing PCV	Min.	Mean	Max.
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	0.000	0.019	0.032
Phorate	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.410	< 0.410	< 0.410
Sodium	mg Na/l	S	8	7		0	0.000	15.000	22.143	47.000
Sodium	mg Na/l	S	8	7		0	0.000	15.000	22.143	47.000
Sulphate	mg SO4/l	S	8	6		0	0.000	100.000	110.000	120.000
Taste	Diln No	S	52	30		1	3.333	0.000	0.067	2.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	8	9		0	0.000	< 0.770	< 0.774	< 0.790
Tetrachloromethane	ug/l	AS	8	9		0	0.000	< 0.410	< 0.410	< 0.410
Total - Residual disinfectant	mg Cl/l	S	192	169		0	0.000	0.230	0.946	1.880
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	1.600	2.343	3.000
Total Trihalomethanes	ug/l	S	8	8		0	0.000	28.000	44.750	62.000
Total coliforms	No./100 ml	S	192	165		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Tritium	Bq/l	AS	1	1		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	52	48		0	0.000	0.100	0.191	0.570

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 79743

This zone has a surface water source :R4701

PCV Exceedances:

Sample failed 22-OCT-2020 (ZN0802AE) Odour = 2 Diln No.

Sample failed 22-OCT-2020 (ZN0802AE) Taste = 2 Diln No.

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZN1102 - Seagahan Armagh

The water supplied in this zone within the Mid Ulster council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 except for the following parameter(s):-

Clostridium perfringens – single exceedance

The presence of Clostridium Perfringens is an indication of microbiological contamination. Exceedances can occur when there are problems with disinfection of the water supply or where the sample tap is contaminated. On this occasion, all resamples and downstream samples were satisfactory with no cause determined for the exceedance.

WATER SUPPLY ZONE - ZN1102 - Seagahan Armagh										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		&	samples	samples		samples	samples	(all samples)		
		Freq.	planned	taken in		contraven	contraven	Min.	Mean	Max.
			per annum	year	Auth Dep	ing PCV	ing PCV			
1,2 Dichloroethane	ug/l	AS	8	8		0	0.000	< 0.410	< 0.410	< 0.410
2,4-D	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	0.006
2,4-DB	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	36	32		0	0.000	< 2.800	< 7.969	19.000
Ammonium	mg NH4/l	S	8	29		0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	7		0	0.000	0.120	< 0.171	< 0.180
Arsenic	ug/l As	S	8	7		0	0.000	< 0.300	< 0.341	0.480
Asulam	ug/l	AS	8	8		0	0.000	< 0.017	< 0.026	< 0.085
Bentazone	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	8	8		0	0.000	< 0.150	< 0.150	< 0.150
Benzo(a)pyrene	ug/l	S	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7		0	0.000	0.008	< 0.034	< 0.038
Bromate	ug BrO3/l	S	8	8		0	0.000	< 0.990	< 0.990	< 0.990
Bromoxynil	ug/l	AS	8	8		0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7		0	0.000	< 0.010	< 0.259	< 0.300
Chloride	mg Cl/l	S	8	5		0	0.000	18.000	20.800	22.000
Chlorotoluron	ug/l	AS	8	8		0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7		0	0.000	< 0.370	< 0.400	0.580
Clopyralid	ug/l	AS	8	8		0	0.000	< 0.013	< 0.013	0.014
Clostridium perfringens (sulph red)	No./100 ml	AS	8	8		0	0.000	0.000	0.125	1.000
Colony Counts 22	No./1 ml	S	36	31		0	0.000	0.000	1.129	23.000
Colony Counts 37 (48hrs)	No./1 ml	S	36	31		0	0.000	0.000	0.065	2.000
Colour	mg/l Pt/Co	S	36	32		0	0.000	< 0.930	< 1.359	2.500
Conductivity	uS/cm 20 C	S	36	32		0	0.000	< 4.300	<342.009	400.000
Copper	mg Cu/l	S	8	2		0	0.000	< 0.043	< 0.067	0.091
Cyanide	ug/l CN	AS	8	8		0	0.000	0.000	5.238	7.000
Dicamba	ug/l	AS	8	8		0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	8	8		0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	8	8		0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	8	8		0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	96	84		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7		0	0.000	0.000	0.000	0.000
Epoxiconazole	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	8	8		0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	8	8		0	0.000	< 0.005	< 0.005	< 0.005
Fluoride	mg F/l	S	8	6		0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	8	8		0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	96	85		0	0.000	0.050	0.886	1.490
Glyphosate	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	0.010
Hydrogen Ion	pH value	S	36	32		0	0.000	6.980	7.385	7.840
Iron	ug Fe/l	S	36	32		0	0.000	< 2.000	< 16.700	73.000
Isoproturon	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	2		0	0.000	< 0.100	< 0.700	< 1.300
Linuron	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	8	8		0	0.000	< 0.002	< 0.007	0.018
MCPB	ug/l	AS	8	8		0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	36	32		0	0.000	0.190	0.842	1.400
Mecoprop	ug/l	AS	8	8		0	0.000	0.000	0.005	0.009
Mercury	ug/l Hg	S	8	6		0	0.000	< 0.050	< 0.050	< 0.050
Metalaxyl	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	8	8		0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2		0	0.000	1.300	1.400	1.500
Nitrate	mg/l	S	8	6		0	0.000	1.600	3.400	4.500
Nitrate/Nitrite Formula		S	8	6		0	0.000	< 0.032	< 0.069	< 0.090
Nitrite	mg/l	S	8	6		0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	36	21		0	0.000	0.000	0.000	0.000
Oxamyl	ug/l	AS	8	8		0	0.000	< 0.002	< 0.005	< 0.023
PAH - Sum of four substances	ug/l	S	8	8		0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZN1102 - Seagahan Armagh										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		& Freq.	samples planned	samples taken in		samples contraven	samples contraven	(all samples)		
			per annum	year	Auth Dep	ing PCV	ing PCV	Min.	Mean	Max.
Pendimethalin	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	8	8		0	0.000	0.000	0.016	0.030
Phorate	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	8	8		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	8	8		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	8	8		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	6		0	0.000	30.000	42.000	48.000
Sodium	mg Na/l	S	8	6		0	0.000	30.000	42.000	48.000
Sulphate	mg SO4/l	S	8	6		0	0.000	60.000	66.667	77.000
Taste	Diln No	S	36	21		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	8	8		0	0.000	< 0.770	< 0.775	< 0.790
Tetrachloromethane	ug/l	AS	8	8		0	0.000	< 0.410	< 0.410	< 0.410
Total - Residual disinfectant	mg Cl/l	S	96	85		0	0.000	0.160	1.049	1.670
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	1.600	2.843	3.700
Total Trihalomethanes	ug/l	S	8	9		0	0.000	17.000	37.333	54.000
Total coliforms	No./100 ml	S	96	84		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.012	< 0.012	0.014
Tritium	Bq/l	AS	1	1		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	36	32		0	0.000	0.150	0.185	0.300

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 37792

This zone has a surface water source :R2514

PCV Exceedances:

Sample failed 23-JAN-2020 (W2514OUT) Clostridium perfringens (sulph red) = 1 No./100.

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point

2020 WATER SUPPLY COMMENTARY

ZS0809 - Castor Bay Dungannon

The water supplied in this zone within the Mid Ulster council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2017 except for the following parameter(s):-

Enterococci – single exceedance

Enterococci are an indication of microbiological contamination. Exceedances can occur when there are problems with disinfection of the water supply or where the sample tap is contaminated.

Investigations did not determine any reason for the exceedance. All treatment processes were operating satisfactorily and all other microbiological parameters on the same sample were satisfactory. All resamples were satisfactory.

WATER SUPPLY ZONE - ZS0809 - Castor Bay Dungannon
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.

Parameter	U/A & Freq.	No. of samples planned per annum	No. of samples taken in year	PCV Auth Dep	No. Of samples contraven ing PCV	% of samples contraven ing PCV	Concentration or value (all samples)		
							Min.	Mean	Max.
1,2 Dichloroethane	ug/l	AS	24	25	0	0.000	< 0.100	< 0.398	< 0.410
2,4-D	ug/l	AS	24	25	0	0.000	< 0.004	< 0.004	< 0.004
2,4-DB	ug/l	AS	24	25	0	0.000	< 0.012	< 0.012	< 0.012
Aluminium	ug Al/l	S	52	48	0	0.000	4.500	25.827	68.000
Ammonium	mg NH4/l	S	8	44	0	0.000	< 0.010	< 0.010	< 0.010
Antimony	ug/l Sb	S	8	6	0	0.000	0.140	0.173	0.180
Arsenic	ug/l As	S	8	7	0	0.000	< 0.300	< 0.313	0.340
Asulam	ug/l	AS	24	25	0	0.000	< 0.017	< 0.020	< 0.085
Bentazone	ug/l	AS	24	25	0	0.000	< 0.003	< 0.003	< 0.003
Benzene	ug/l	AS	24	26	0	0.000	< 0.041	< 0.146	< 0.150
Benzo(a)pyrene	ug/l	S	8	8	0	0.000	< 0.002	< 0.002	< 0.002
Boron	mg/l B	S	8	7	0	0.000	0.012	< 0.034	< 0.038
Bromate	ug BrO3/l	S	8	8	0	0.000	< 0.990	< 0.990	< 0.990
Bromoxynil	ug/l	AS	24	25	0	0.000	< 0.013	< 0.013	< 0.013
Cadmium	ug/l Cd	S	8	7	0	0.000	< 0.010	< 0.259	< 0.300
Chloride	mg Cl/l	S	8	6	0	0.000	22.000	24.333	26.000
Chlorotoluron	ug/l	AS	24	25	0	0.000	0.000	< 0.003	< 0.003
Chlorpyrifos	ug/l	AS	24	25	0	0.000	< 0.008	< 0.008	< 0.008
Chromium	ug/l Cr	S	8	7	0	0.000	< 0.370	< 0.380	0.440
Clopyralid	ug/l	AS	24	25	0	0.000	< 0.013	< 0.014	0.029
Clostridium perfringens (sulph red)	No./100 ml	AS	24	24	0	0.000	0.000	0.000	0.000
Colony Counts 22	No./1 ml	S	52	45	0	0.000	0.000	5.400	84.000
Colony Counts 37 (48hrs)	No./1 ml	S	52	45	0	0.000	0.000	0.022	1.000
Colour	mg/l Pt/Co	S	52	47	0	0.000	< 0.930	< 0.954	1.200
Conductivity	uS/cm 20 C	S	52	48	0	0.000	360.000	394.167	420.000
Copper	mg Cu/l	S	8	2	0	0.000	0.002	< 0.023	< 0.043
Cyanide	ug/l CN	AS	24	25	0	0.000	0.000	5.548	8.500
Dicamba	ug/l	AS	24	25	0	0.000	< 0.017	< 0.017	< 0.017
Dichlorprop	ug/l	AS	24	25	0	0.000	< 0.004	< 0.004	< 0.004
Diiflufenican	ug/l	AS	24	25	0	0.000	< 0.009	< 0.009	< 0.009
Dimethenamid	ug/l	AS	24	25	0	0.000	0.000	< 0.006	< 0.006
Diuron	ug/l	AS	24	25	0	0.000	< 0.006	< 0.006	< 0.006
E. coli	No./100 ml	S	192	167	0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	S	8	7	1	14.286	0.000	0.286	2.000
Epoxiconazole	ug/l	AS	24	25	0	0.000	< 0.005	< 0.005	< 0.005
Fenpropimorph	ug/l	AS	24	25	0	0.000	< 0.009	< 0.009	< 0.009
Flufenacet	ug/l	AS	24	25	0	0.000	< 0.005	< 0.005	< 0.005
Fluoride	mg F/l	S	8	6	0	0.000	< 0.150	< 0.150	< 0.150
Fluroxypyr	ug/l	AS	24	25	0	0.000	< 0.018	< 0.018	< 0.018
Free - Residual disinfectant	mg Cl/l	S	192	169	0	0.000	0.130	0.782	1.490
Glyphosate	ug/l	AS	24	25	0	0.000	< 0.008	< 0.008	< 0.008
Hydrogen Ion	pH value	S	52	48	0	0.000	7.030	7.403	7.990
Iron	ug Fe/l	S	52	47	0	0.000	< 2.000	< 17.889	200.000
Isoproturon	ug/l	AS	24	25	0	0.000	< 0.003	< 0.003	< 0.003
Lead	ug Pb/l	S	8	2	0	0.000	< 0.100	< 0.700	< 1.300
Linuron	ug/l	AS	24	25	0	0.000	< 0.003	< 0.003	< 0.003
MCPA	ug/l	AS	24	25	0	0.000	< 0.002	< 0.008	0.014
MCPB	ug/l	AS	24	25	0	0.000	< 0.014	< 0.014	< 0.014
Manganese	ug Mn/l	S	52	47	0	0.000	0.430	1.658	12.000
Mecoprop	ug/l	AS	24	25	0	0.000	0.000	0.004	0.010
Mercury	ug/l Hg	S	8	7	0	0.000	< 0.050	< 0.050	< 0.050
Metalaxyl	ug/l	AS	24	25	0	0.000	< 0.012	< 0.012	< 0.012
Metamitron	ug/l	AS	24	25	0	0.000	< 0.007	< 0.007	< 0.007
Metazachlor	ug/l	AS	24	25	0	0.000	< 0.010	< 0.010	< 0.010
Metoxuron	ug/l	AS	24	25	0	0.000	< 0.008	< 0.008	< 0.008
Metribuzin	ug/l	AS	24	25	0	0.000	< 0.008	< 0.008	< 0.008
Nickel	ug Ni/l	S	8	2	0	0.000	1.000	1.250	1.500
Nitrate	mg/l	S	8	6	0	0.000	0.630	1.915	3.900
Nitrate/Nitrite Formula		S	8	6	0	0.000	< 0.013	< 0.039	< 0.078
Nitrite	mg/l	S	8	6	0	0.000	< 0.030	< 0.030	< 0.030
Odour	Diln No	S	52	29	0	0.000	0.000	0.000	0.000
Oxamyl	ug/l	AS	24	25	0	0.000	< 0.002	< 0.005	< 0.023
PAH - Sum of four substances	ug/l	S	8	8	0	0.000	0.000	0.000	0.000

WATER SUPPLY ZONE - ZS0809 - Castor Bay Dungannon										
Printed On 28-JAN-2021 : NI Water : Period 01-JAN-2020 to 31-DEC-2020 incl.										
Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Concentration or value		
		& Freq.	samples	samples		samples	samples	(all samples)		
			planned	taken in		contraven	contraven	Min.	Mean	Max.
			per annum	year	Auth Dep	ing PCV	ing PCV			
Pendimethalin	ug/l	AS	24	25		0	0.000	< 0.008	< 0.008	< 0.008
Pesticides - Total Substances	ug/l	AS	24	25		0	0.000	0.000	0.011	0.037
Phorate	ug/l	AS	24	25		0	0.000	< 0.012	< 0.012	< 0.012
Pirimicarb	ug/l	AS	24	25		0	0.000	< 0.008	< 0.008	< 0.008
Propachlor	ug/l	AS	24	25		0	0.000	< 0.012	< 0.012	< 0.012
Propiconazole	ug/l	AS	24	25		0	0.000	< 0.003	< 0.003	< 0.003
Propyzamide	ug/l	AS	24	25		0	0.000	< 0.007	< 0.007	< 0.007
Prothioconazole	ug/l	AS	24	25		0	0.000	< 0.002	< 0.002	< 0.002
Selenium	ug/l Se	S	8	7		0	0.000	< 0.200	< 0.380	< 0.410
Sodium	mg Na/l	S	8	6		0	0.000	18.000	20.167	21.000
Sodium	mg Na/l	S	8	6		0	0.000	18.000	20.167	21.000
Sulphate	mg SO4/l	S	8	6		0	0.000	83.000	91.000	100.000
Taste	Diln No	S	52	29		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	24	25		0	0.000	< 0.004	< 0.004	< 0.004
Tetrachloroethene/Trichloroethene - S	ug/l	AS	24	26		0	0.000	< 0.770	< 0.775	< 0.790
Tetrachloromethane	ug/l	AS	24	26		0	0.000	< 0.100	< 0.398	< 0.410
Total - Residual disinfectant	mg Cl/l	S	192	169		0	0.000	0.230	0.981	1.740
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	S	8	7		0	0.000	2.200	2.700	3.000
Total Trihalomethanes	ug/l	S	8	8		0	0.000	27.000	35.500	45.000
Total coliforms	No./100 ml	S	192	167		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	24	25		0	0.000	< 0.012	< 0.012	0.014
Tritium	Bq/l	AS	1	1		0	0.000	< 10.000	< 10.000	< 10.000
Turbidity	NTU	S	52	48		0	0.000	0.130	0.196	0.470

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 60377

This zone has a surface water source :R2308

PCV Exceedances:

Sample failed 16-NOV-2020 (ZS0809AE) Enterococci = 2 No./100m.

Notes:

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency

R = Reduced Sampling Frequency

A = Authorised Supply Point