

NI WATER: DRINKING WATER QUALITY REPORT 2015	2 nd August 2016
TO: ENVIRONMENTAL SERVICES COMMITTEE	
FOR INFORMATION	

Linkage to Council Strategy (2015-19)							
Strategic Theme	Resilient, Healthy and Engaged Communities						
Outcome	Provision of Safe Drinking Water Supply Compliant						
	with Regulatory Standards						
Lead Officer	Bryan Edgar						
Cost: (If applicable)	N/A						

Drinking Water Quality Report

NI Water have provided a report on the quality of water supplied to premises within the Council area during 2015. The information is provided in accordance with the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 as amended. The report has been provided to members in a pdf format (see appendix IV).

Water Supply Zones Wholly or Partially within Council Area

Zone Code	Zone Name
ZN0101	Ballinrees Coleraine
ZN0202	Altnahinch Bushmills
ZN0204	Rathlin Island
ZN0302	Dungonnell Glarryford
ZN0501	Moyola Magherafelt
ZN0601	Ballinrees Limavady
ZN0603	Carmoney Eglinton
ZN0604	Caugh Hill Dungiven
ZN0607	Corrody Derry

Separation of data within these water supply zones across Council boundaries is not practicable, therefore the information used in calculating the zonal compliance relates to the whole zone and not just that within the Council area. There is a short commentary provided for each zonal area together with exceedances reported and reasons for same together with actions and or resolutions. The report and information show that the drinking water supplied by NI Water complies to a high degree with the regulatory standards.

Appendix IV



Drinking Water Quality Report for Northern Ireland 2015

Causeway Coast and Glens Borough Council



Water Quality by Northern Ireland Local Council Area

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

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 99.6% 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 which 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 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.

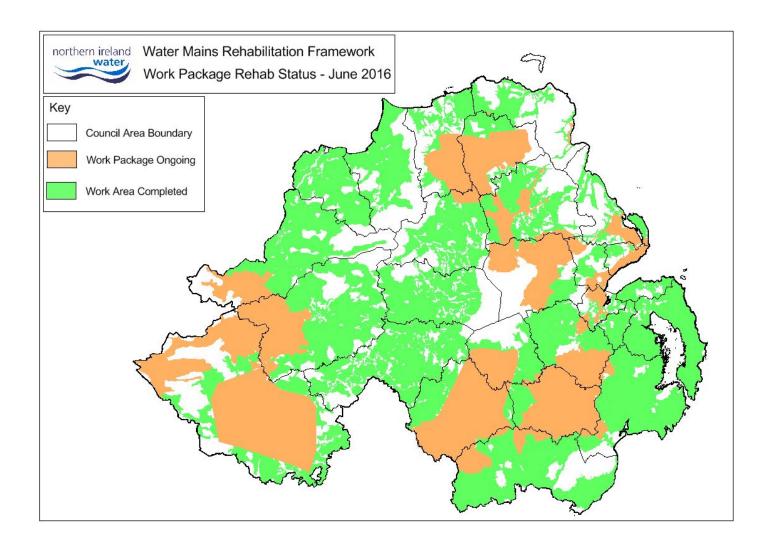
The report also details Capital Work Programmes affecting the council area which directly related to water quality during the reporting period.

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.

NI Water has identified the need to deliver a significant volume of watermains 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 Watermains Rehabilitation Framework, within which it undertakes work on a Northern Ireland wide basis as identified by the zonal study programme of work.

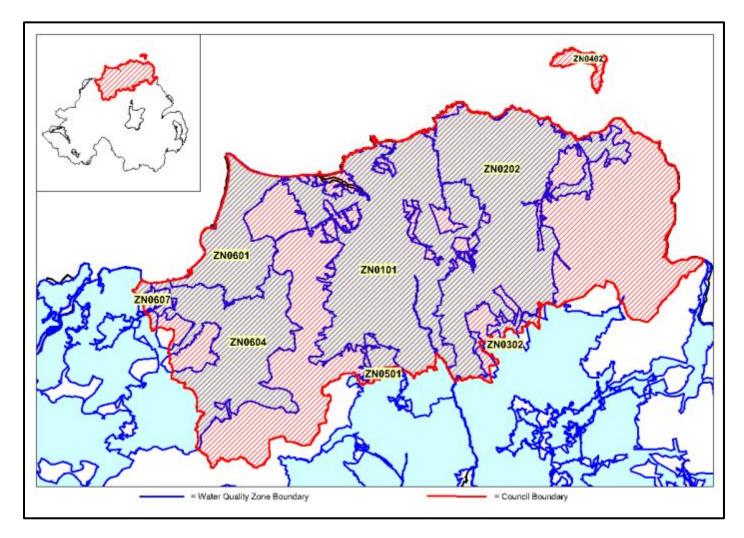


Watermains Rehabilitation Framework Current Work Package Status



The map above shows the extent of the current Watermains 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 which do not receive public water supply.

Causeway Coast and Glens Borough Council



% Compliance at Customer Tap (including Supply Points)

	Target	2013	2014	2015
Overall Northern Ireland Compliance	99.7%	99.7%	99.8%	99.7%
Ballymoney Council Compliance	99.7%	99.8%	99.8%	99.7%

2015 water supply zones wholly or partially within the council area:

Zone Code	Zone Name	Zone Code	Zone Name
ZN0101	Ballinrees Coleraine	ZN0601	Ballinrees Limavady
ZN0202	Altnahinch Bushmills	ZN0603	Carmoney Eglinton
ZN0204	Rathlin Island	ZN0604	Caugh Hill Dungiven
ZN0302	Dungonnell Glarryford	ZN0607	Corrody Derry
ZN0501	Moyola Magherafelt		

2015 water quality Capital Works Programmes affecting the council area:

A26 Dualling: Glarryford to A44 (Drones Road) Junction - Watermains replacements

Caugh Hill WTW FAS Storage

Chatham Road, Armoy, Watermains Replacement.

Glenlough Pumping Station & Pumping Main

Hydraulic Model Rebuilds and Project Management 2015-2016

MIMP North (Major Incident Mitigation Project North Region) Freeze Thaw Improvements

Moyola Zone Watermains Improvements

Non-Infrastructure Major Works

PC15 Abstraction Monitoring

PC15 Lead Communication Pipe Replacement Programme

PC15 PPRA Review of EP Watermains Rehab Work Packages

PC15 Watermains Minor Works Framework

PC15 Watermains Rehabilitation Framework

Rasharkin Zone Watermains Improvements Phase 2

Replacement Watermains 2014/15 - Reactive, Bundle 1

SEMD Surveys PC10 Water

Service Reservoir Enhancements

Water Resource and Supply Resilience Plan

Water Treatment Sites - Water Regulation Compliance & Energy Efficiency Programme

Watermains Rehabilitation, New and Replacement incl FTS - Professional Services

WIIM Networks Work Packages Development and Verification

WP134 High Priority Watermains Ph1

WTW - Treatability Appraisal Studies

WTW - Treatability Appraisal Studies

WTW Effluent Quality

WTW Resilience Improvement



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) 2007, 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 state-of-the-art laboratories carry out over 100,000 sophisticated tests to ensure quality standards are met. The Drinking Water Inspectorate (DWI) within the Northern Ireland Environment Agency (NIEA) 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
- 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

<u>Hardness</u>

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.

Details of the hardness in your area may be found at http://www.niwater.com/water-quality-results/

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 naturallyoccurring dissolved organic matter. For example, the higher the peat content of a catchment, (e.g. the Mournes 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 µS/cm at 20°C

Chlorine (CI - 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

Coliforms

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/I
- PCV for nitrate = 50 mg NO₃/I

Chloride (CI)

Chloride in water originates from natural sources such as mineral deposits. It can contribute to taste which 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/I

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/I

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/I



<u>Trihalomethanes (THMs)</u>

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 at http://www.niwater.com/water-quality-results please contact us at waterline@niwater.com



ZN0101 - Ballinrees Coleraine

The water supplied in this zone within the Causeway Coast and Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 except for the following parameter(s): -

Iron - single exceedance

Investigations found that this exceedance was most likely caused by a disturbance of mains deposits from older iron mains, with resamples being satisfactory after flushing if required. NI Water has in place an extensive Mains Rehabilitation Programme, which favours mains replacement and zones are prioritised according to need. This programme will continue to maintain and improve the quality of water in your council area over the next few years.

Total coliforms - two exceedances

Total coliforms 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. Most total coliform / E Coli exceedances are as a result of contamination of the customer tap. Investigation of these exceedances found that the water supply was satisfactory and that the contamination was most likely related to the customer tap on all occasions.

Pesticides – Monitored at Authorised Supply point

NI Water analyses for 30 individual pesticides, herbicides and algaecides, with an exceedance of the individual standard detected for MCPA. The exceedance was most likely caused by high rainfall events, which could have caused increased herbicide wash off from the catchment area into the supply for Ballinrees WTW.



WATER SUPPLY ZONE - ZN0101 - Ballinrees Coleraine Printed On 11-JAN-2016 : NI Water : Period 01-JAN-2015 to 31-DEC-2015 incl. | No. of | No. of | Parameter IU/A PCV | No. Of | % of Concentration or value samples |samples | samples samples (all samples) planned |taken in| |contraven|contraven+ Freq.| Auth Depling PCV | ing PCV | Min. Mean |per annum| year 1,2 Dichloroethane ua/1 0 0.000 | < 0.100 | < 0.100 | < 0.100 ug/l 0.004 < 0.003 2,4-DB ug/l AS 8 8 Ω 0.000 < 0.003 I 0.003 7.822 ug Al/l 76 76 0 33.938 0.000 Aluminium S mg NH4/1 0 0.000 0.010 0.012 0 0.010 i 0.072 Antimony 11a/1 Sb S 8 8 0.000 0.136 0.291 0.325 0.000 Arsenic ug/l As Bentazone ug/l AS 8 8 0 0.000 0.002 0.000 0.016 0.021 0.025 Benzene ug/l < 0.001 | < 0.008 | 0.016 |
< 0.001 |
< 0.001 |</pre> Benzo(a)pyrene ug/l S 8 8 0 0.000 0.001 Boron ma/l B S 8 8 0 0.000 0.011 0.300 Bromate 0 0.000 < 0.300 < 0.300 < 0.300 < 0.007 ug/l < 0.007 | Bromoxvnil ua/1 AS 8 8 0 0.000 0.007 0.011 Cadmium ug/l Cd 0.000 0.005 0.017 Chloride ma Cl/l S 8 8 Ω 0 000 20.695 24 534 28.140 < 0.002 Chlorotoluron ug/l 0.000 < 0.002 < 0.002 < 0.004 | 0.390 | Chlorpyrifos AS 8 8 Ω 0.000 < 0.004 0 0.234 Chromium ug/l Cr 8 0.000 0.552 S Clopyralid 0 0.000 < 0.006 < 0.010 0.020 ug/l No./100 ml 104 105 0.000 0.000 Clostridium perfringens (sulph red) AS 0 0.000 0.000 Colony Counts 22 0.000 0.000 No./1 ml 2.250 94.000 Colony Counts 37 (48hrs) No./1 ml 76 76 0 0.000 0.000 0.000 0.000 mg/l Pt/Co 76 0 2.760 76 0.000 0.700 1.531 Colour < 0.001 < 0.500 < 0.002 | < 0.763 | Copper mg Cu/l 8 0 0.000 0.004 < 1.000 8 0.000 Cyanide uq/l AS Dicamba ug/l 0 0.000 < 0.001 < 0.011 < 0.012 Dichlorprop ua/1 AS 8 8 Ω 0 000 < 0.003 < 0.003 0 003 0.003 0.004 Diuron ug/l AS 0.000 E coli No./100 ml S 228 229 Ω 0 000 0.000 0 000 0 000 0 0.000 0.000 Enterococci No./100ml 0.000 0.000 8 Epoxiconazole ug/l AS 8 0 0.000 0.002 0.002 0.002 Fenoropimorph ua/1 AS 8 0.000 mg F/l 0 0.000 0.018 0.026 0.049 < 0.005 < 0.010 Fluroxypyr ua/l AS 8 0 0.000 0.014 mg C1/1 0.239 Free - Residual disinfectant S 228 229 0.000 0.960 Glyphosate 0 0.000 0.003 0.003 0.003 0 7.220 7.674 pH value 76 8.000 Hydrogen Ion 76 0.000 S ug Fe/l 76 1 1.316 1.580 28.790 250.400 < 0.002 < 0.002 Isoproturon ug/l AS 8 0.000 < 0.002 ug Pb/l 0.000 0.060 0.158 | 0.506 Lead 0.006 0.006 Linuron uq/l AS 8 8 0 0.000 0.053 0.014 0.170 MCPA ug/l AS 12.500 < 0.100 0.011 Manganese ug Mn/l S 76 76 0 0.000 < 2.289 13.390 0 0.015 AS 8 0.000 0.021 Mecoprop ua/l ug/l Hg Mercury 0 0.000 0.007 0.026 0.102 < 0.005 < 0.005 | < 0.005 Metalaxvl ua/1 AS 8 8 0 0.000 Metoxuron ug/l 0.000 0.002 Metribuzin ua/1 AS 8 8 0 0.000 0.004 0.004 | 0.004 1.791 | < 0.774 | < 0.010 | ug Ni/l Nickel 0.000 1.078 mg NO3/1 < 0.400 < 0.010 Nitrate 8 8 0 0.000 1.938 0.010 0 Nitrite mg NO2/1 8 0.000 Odour PAH - Sum of four substances 76 0 0.000 0.000 0.000 0.000 < 0.010 < 0.010 1107/1 S 8 0 0.000 0.004 Pendimethalin 0.000 ug/l Pesticides - Total Substances ug/l AS 8 8 0 0.000 0.050 0.109 | 0.260 0.004 0.004 AS 8 0.000 0.004 Phorate uq/l < < Pirimicarb ug/l AS 8 8 0 0.000 < 0.003 0.003 0.003 < 0.004 0.004 | < Propachlor ua/l AS 8 8 0 0.000 0.004 Propiconazole AS 0.000 0.002 0.002 ug/l

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| 16.195

0.010

Propvzamide

Selenium

Sodium

Prothioconazole

ua/1

ug/l

ug/l Se

mg Na/l

AS I 8

S I 8



+	& san		++		-	samples		Concentration or value			
			per annum		Auth Dep		ing PCV	Min.	Mean	Max.	
Sulphate	mg SO4/l	S	8	+ 8		0	0.000	49.986	59.720	77.043	
Taste	Diln No	l S	76	76		0	0.000	0.000	0.000	0.000	
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.00	
Tetrachloroethene/Trichloroethene	- S ug/l	l S	8	8		0	0.000	< 0.200	< 0.235	< 0.41	
Tetrachloromethane	ug/l	S	8	8		0	0.000	< 0.100	< 0.100	< 0.10	
Total - Residual disinfectant	mg Cl/l	l S	228	229		0	0.000	0.060	0.350	1.060	
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.10	
Total Organic Carbon	mg C/l	l S	8	8		0	0.000	1.750	2.600	3.430	
Total Trihalomethanes	ug/l	l S	8	8		0	0.000	41.300	59.188	71.400	
Total coliforms	No./100 ml	l S	228	229		2	0.873	0.000	0.096	15.000	
Triclopyr	ug/l	AS	8	8		0	0.000	0.009	0.014	0.020	
Tritium	Bq/l	AS	1	1		0	0.000	< 5.000	< 5.000	< 5.000	
Turbidity	NTU	l S	76	76		0 1	0.000	0.090	0.261	1 0.700	

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 91637

This zone has a surface water source :R1701

PCV Exceedances:

Sample failed 13-OCT-2015 (ZN0101AE) Iron = 250 ug Fe/.
Sample failed 17-AUG-2015 (W1701POUT) MCPA = 0.1700 ug/.
Sample failed 10-MAR-2015 (ZN0101AE) Total coliforms = 7 No./100.
Sample failed 13-OCT-2015 (ZN0101AE) Total coliforms = 15 No./100.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point



ZN0202 - Altnahinch Bushmills

The water supplied in this zone within the Causeway Coast and Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 except for the following parameter(s): -

Aluminium - single exceedance

A single sample failed for aluminium. Investigations found that this exceedance was most likely caused by a disturbance of mains deposits. Resamples were clear after flushing. NI Water has in place an extensive Mains Rehabilitation Programme, which favours mains replacement and zones are prioritised according to need.

Iron - three exceedances

Investigations found that these exceedances were most likely caused by a disturbance of mains deposits from older iron mains, with resamples being satisfactory after flushing if required. NI Water has in place an extensive Mains Rehabilitation Programme, which favours mains replacement and zones are prioritised according to need. This programme will continue to maintain and improve the quality of water in your council area over the next few years.



< <

0 165

0.010

0.006

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0.010

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WATER SUPPLY ZONE - ZN0202 - Altnahinch Bushmills Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. |U/A No. of Concentration or value (all samples) ء ا samples |samples samples | samples | |Frea. planned | taken in | |contraven|contraven+ |per annum| year Auth Depling PCV |ing PCV | Min. Mean < 0.100 | < 0.100 | < 0.100 | 1,2 Dichloroethane 0.000 S 2,4-D ug/1 AS 8 8 0 0.000 < 0.004 | 0.006 | 0.011 2,4-DB ug/l 0.000 < 0.003 0.003 | 0.003 ug Al/l 5.900 0.007 376 800 Aluminium S 36 36 2.778 36.276 mg NH4/1 0 0.000 0.012 36 36 0.022 Ammonium S 0 0.000 0.005 0.036 0.069 < 0.300 | < 0.002 | < 0.313 | 0.401 0 Arsenic 11g/1 As S 8 8 0.000 ug/l 0.000 Bentazone 0.002 < Benzene ug/l S 8 8 0 0.000 0.015 0.019 0.020 < 0.001 0.001 < 0.300 < 0.007 Benzo(a)pyrene 0.000 0.001 0.001 ug/l 0.008 < 1.675 < 0.007 Boron mg/l B S 8 8 0 0.000 0.022 Bromate ua/l 8 8 0 0.000 3.300 Bromoxynil ug/l 0.000 0.007 0.007 ug/l Cd 0.021 Cadmium S 8 8 0 0.000 0.005 0.012 Chloride mg C1/1 0.000 11.730 18.732 Chlorotoluron ua/1 AS 8 8 Ω 0 000 < 0.002 < 0.004 < 0.002 < 0.002 0.004 0.004 Chlorpyrifos 0.000 ug/l Chromium ug/l Cr S 8 8 Ω 0.000 0.087 0.213 0 549 < 0.006 < 0.018 Clopyralid 0 AS 8 0.000 0.030 ug/l Clostridium perfringens (sulph red) No./100 ml 0 0.000 0.000 0.000 0.000 Colony Counts 22 Colony Counts 37 (48hrs) No./1 ml S 36 36 0 0.000 0.000 0.000 0.000 0.000 0.000 No./1 ml36 36 0.000 Colour mg/l Pt/Co 36 36 0 0.000 0.620 1.532 3.670 Conductivity uS/cm 20 C 36 50 0 0.000 160.000 190.260 231.000 AS Copper mg Cu/l S 8 8 0 0.000 0.001 0.021 0.125 0.000 AS 8 0.330 Cyanide uq/l 2.941 4.400 < 0.012 Dicamba ug/l 0 0.000 0.012 0.012 < 0.003 i < 0.003 Dichlorprop ua/1 AS 8 8 Ω 0 000 0.003 0.003 Diuron AS 0.000 0.003 ug/1 0.000 E coli No./100 ml S 84 84 Ω 0 000 0.000 0 000 No./100ml 0 0.000 0.000 Enterococci 0.000 0.000 8 Epoxiconazole ug/l AS 8 8 0 0.000 < 0.002 < 0.004 < 0.002 | < 0.004 | 0.002 0.004 Fenoropimorph ua/1 AS 8 0.000 mg F/l 0 0.000 0.015 0.025 0.059 < 0.006 < 0.005 Fluroxypyr ua/l AS 8 8 0 0.000 0.009 mg C1/1 0.050 0.365 Free - Residual disinfectant S 84 84 0 0.000 1.270 < 0.003 7.278 < 69.760 < 0.002 Glyphosate 0 0.000 0.003 0.003 0 6.820 7.900 pH value Hydrogen Ion 36 36 0.000 S < 2.000 < 0.002 36 36 8.333 387.100 Isoproturon uq/l AS 8 8 0 0.000 < 0.002 ug Pb/l 0.000 0.076 0.302 < 0.006 < 0.005 1.082 Lead < 0.006 < 0.004 0.006 Linuron uq/l AS 8 8 0 0.000 0.000 0.011 MCPA ug/l AS ug Mn/l Manganese S 36 36 0 0.000 0.252 3.353 19.000 0 0.004 AS 0.003 0.000 0.007 Mecoprop ua/l 8 ug/l Hg 0.027 Mercury 0 0.000 0.006 0.086 < 0.005 < 0.002 < 0.005 Metalaxvl ua/1 AS 8 8 0 0.000 Metoxuron ug/l 0.000 0.002 Metribuzin ua/1 AS 8 8 0 0.000 0.004 | 0.004 | 0.004 ug Ni/l 0.000 0.702 1.888 Nickel < 0.537 | < 0.010 | mg NO3/1 < 0.400 < 0.010 Nitrate 8 8 0 0.000 0.769 0.010 Nitrite mg NO2/1 0.000 Odour PAH - Sum of four substances 0.000 < 0.010 < 0.004 36 0 0.000 0.000 0.000 < 0.010 1107/1 8 8 0 0.000 Pendimethalin ug/1 Pesticides - Total Substances ug/l AS 8 8 0 0.000 0.050 0.051 L 0.059 0.004 0.004 AS 8 0.000 0.004 < < Phorate uq/l Pirimicarb ug/l AS 8 8 0 0.000 < 0.003 0.003 0.003 0.000 < 0.004 0.004 0.004 Propachlor ua/1 AS 8 8 0 Propiconazole AS 0.000 0.002 0.002 ug/l

Propvzamide

Selenium

Prothioconazole

ua/1

ug/l ug/l Se AS

S I 8

8

8

8



Parameter		U/A &	No. of samples planned	samples	-	No. Of samples	samples		centration (all sample	es)
			per annum		Auth Dep		ing PCV	Min.	Mean	Max.
Sodium	mg Na/l	S	8	8		0	0.000	9.974	11.641	13.941
Sulphate	mg SO4/1	S	8	8		0	0.000	37.192	51.759	69.413
Taste	Diln No	S	36	36		0	0.000	0.000	0.000	0.000
Tebuconazole	ug/l	AS	8	8		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene	- S ug/l	S	8	8		0	0.000	< 0.200	< 0.306	0.620
Tetrachloromethane	ug/l	l S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	84	84		0	0.000	0.080	0.482	1.360
Total Indicative Dose	mSv/year	AS	1	1		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	1.230	2.048	2.670
Total Trihalomethanes	ug/l	l S	8	8		0	0.000	33.600	56.471	94.400
Total coliforms	No./100 ml	S	84	84		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	8	8		0	0.000	< 0.004	< 0.005	0.010
Tritium	Bq/l	AS	1	1		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	S	36	36		0	0.000	0.080	0.300	1.070

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 31496

This zone has a surface water source :R1702 $\,$

PCV Exceedances:
Sample failed 12-AUG-2015 (ZN0202AE) Aluminium = 377 ug Al/.
Sample failed 23-JUL-2015 (ZN0202AE) Iron = 204 ug Fe/.
Sample failed 03-DEC-2015 (ZN0202AE) Iron = 271 ug Fe/.
Sample failed 16-DEC-2015 (ZN0202AE) Iron = 387 ug Fe/.

Notes:
PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point



ZN0204 - Rathlin Island

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) 2007.



WATER SUPPLY ZONE - ZN0204 - Rathlin Island Printed On 11-JAN-2016 : NI Water : Period 01-JAN-2015 to 31-DEC-2015 incl. |U/A No. of Concentration or value æ samples |samples samples | samples | (all samples) |Frea. planned | taken in | |contraven|contraven+ |per annum| year Auth Depling PCV |ing PCV | Min. Mean < 0.100 1,2 Dichloroethane 0.000 < 0.100 | < 0.100 S 2,4-D ug/1 AS 4 4 0 0.000 < 0.004 0.004 | 0.004 2,4-DB ug/l 0.003 0.003 0.003 ug Al/l Aluminium S 4 4 Ω 0.000 3.212 6.099 9 637 < 0.012 mg NH4/1 0 < 0.012 < 0.012 4 0.000 Ammonium 0 0.000 0.007 0.048 0.168 0 0.289 Arsenic 11g/1 As S 4 4 0.000 0.413 0.638 0.002 0.000 0.002 Bentazone ug/l < 0.020 < Benzene ug/l S 0 0.000 0.020 L 0.020 Benzo(a)pyrene 0.000 0.001 0.001 0.001 ug/l Boron mg/l B S 4 0 0.000 0.027 0.036 < 0.300 0.046 < 0.300 < 0.007 < 0.300 Bromate ua/l 4 0 0.000 Bromoxynil ug/l 0 0.000 0.007 ug/l Cd Cadmium S 4 4 0 0.000 0.010 0.010 I 0.010 Chloride mg C1/1 0.000 < 0.002 Chlorotoluron ua/1 AS 4 4 Ω 0 000 < 0.002 < 0.004 < 0.002 0.004 0.004 0.004 Chlorpyrifos 0.000 ug/l 0.102 < 0.006 Chromium ug/l Cr S 4 4 0 0.000 0.264 0 429 < 0.007 Clopyralid 4 4 0 AS 0.000 0.011 ug/l Clostridium perfringens (sulph red) No./100 ml 0 0.000 0.000 0.000 0.000 Colony Counts 22 Colony Counts 37 (48hrs) No./1 ml S 4 4 0 0.000 0.000 0.000 0.000 0.000 0.000 No./1 ml0.000 0.000 Colour mg/l Pt/Co 0 0.000 0.950 1.273 1.650 Conductivity uS/cm 20 C 0 435.000 471.400 482.000 30 0.000 AS mg Cu/l 0.001 < 0.300 < 0.012 0.001 Copper 4 0 0.000 0.002 0.000 Cyanide uq/l AS 5.200 Dicamba ug/l 0 0.000 < 0.012 0.012 Dichlorprop ua/1 AS 4 4 Ω 0 000 < 0.003 < 0.003 < 0.003 0.003 0.003 0.003 Diuron AS 0.000 ug/1 0.000 E coli No./100 ml S 12 12 0 0 000 0.000 0 000 No./100ml 0 0.000 0.000 0.000 Enterococci 0.000 4 Epoxiconazole ug/l AS 4 0 0.000 < 0.002 < 0.004 0.002 0.002 Fenoropimorph ua/1 AS 4 0.000 0.004 0.004 mg F/l 0 0.000 0.024 0.032 0.039 0.005 < 0.005 0.005 0 Fluroxypyr ua/l AS 4 0.000 mg C1/1 0.080 0.286 Free - Residual disinfectant S 12 12 0 0.000 0.520 Glyphosate 0 0.000 0.003 0.003 0.003 8.788 | < 2.000 | < 0.002 | pH value 13 8.700 8.860 Hydrogen Ion 0.000 S 8.700 < 2.000 < 0.002 < 2.000 0 0.000 Isoproturon ug/l AS 4 0 0.000 ug Pb/l 0.000 0.064 0.134 | < 0.006 | < 0.004 | 0.298 Lead < 0.004 < 0.006 < 0.004 < 0.006 Linuron uq/l AS 4 0 0.000 0.004 0.000 MCPA ug/l AS Manganese ug Mn/l S 4 4 0 0.000 0.207 0.479 0.647 0.003 AS 4 4 0.003 0.003 0.000 Mecoprop ua/l ug/l Hg Mercury 4 0 0.000 0.007 0.029 0.071 < 0.005 < 0.002 < 0.029 < 0.005 Metalaxvl ua/1 AS 4 4 0 0.000 Metoxuron ug/l 0.000 Metribuzin ua/1 AS 4 4 0 0.000 0.004 0.004 | 0.004 0.605 | < 0.740 | < 0.009 | ug Ni/l 0.000 0.149 Nickel mg NO3/1 < 0.400 0.005 Nitrate 0 0.000 1.760 0.010 Nitrite mg NO2/1 4 4 0.000 Odour PAH - Sum of four substances 0 0.000 0.000 0.000 < 0.010 0.000 < 0.010 0.010 uq/l S 0 0.000 < Pendimethalin 0.000 ug/l Pesticides - Total Substances ug/l AS 4 0 0.000 0.050 0.050 I < 0.050 0.004 AS 0.000 0.004 0.004 Phorate uq/l Pirimicarb AS 0 0.000 < 0.003 0.003 < 0.003 < 0.004 0.004 | < 0.004 Propachlor ua/1 AS 4 4 0 0.000 Propiconazole 0.000 0.002 0.002 ug/l

4

4

0

Ω

0.000

0.000

< 0.010

0.763

0.006

0.010

0.006

1.221

| < 0.010

1 1 773

0.006

Propvzamide

Selenium

Prothioconazole

ua/1

ug/l ug/l Se AS I 4

S I 4



WATER SUPPLY ZONE - ZN0204 - Rathlin Island Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. | samples | samples | contraventer |U/A| No. of | No. of |Concentration or value (all samples) ı s samples |samples | |contraven|contraven+----|Freq.| planned |taken in| |per annum| year Auth Dep|ing PCV | ing PCV | Min. | Mean | mg Na/l 98.777 | 101.223 | 104.320 12.411 13.103 Sulphate mg SO4/1 SI 4 4 0 0.000 13.764 0.000 0.000 0.000 < 0.000 | 0.000 | 0.000
< 0.002 | < 0.002 | < 0.002
< 0.200 | < 0.200 | < 0.200</pre> Tebuconazole ug/l AS I 4 4 Ω 0.000 Tetrachloroethene/Trichloroethene - S ug/l 0 0.000 4 4 S Tetrachloromethane
Total - Residual disinfectant
Total Indicative Dose < 0.100 0.150 ug/l 0.000 mg Cl/l mSv/year 12 i 12 0 0.000 S < 0.100 1.150 < 0.100 0.000 Total Organic Carbon mg C/l AS 0 0.000 Total Trihalomethanes ug/l 0.000 53.630 88.000 S No./100 ml 0.000 < 0.004 < 5.000 Total coliforms 12 12 0 0.000 0.000 0.000 < 0.004 | < 0.004 < 5.000 | < 5.000 Triclopyr ua/l AS 4 4 0 Tritium 0.000 0.060 0.120 1 0.240 Turbidity NTU S 4 0 0.000

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 283

This zone has a surface water source :R1706

PCV Exceedances:

Water Quality was satisfactory

PCV = Prescribed Concentration or Value

= Undertaking

= Standard Sampling Frequency = Reduced Sampling Frequency = Authorised Supply Point



ZN0302 - Dungonnell Glarryford

The water supplied in this zone within the Causeway Coast and Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 except for the following parameter(s): -

Iron - single exceedance

Investigations found that this exceedance was most likely caused by a disturbance of mains deposits from older iron mains, with resamples being satisfactory after flushing if required. NI Water has in place an extensive Mains Rehabilitation Programme, which favours mains replacement and zones are prioritised according to need. This programme will continue to maintain and improve the quality of water in your council area over the next few years.

Odour - single exceedance and Taste - single exceedance

The DWI directed change in the analysis of taste and odour for 2010 onwards has resulted in a number of exceedances that may not previously have failed. This is not normally due to a change in the quality of water supplied, but rather to the change in the method of measurement. The cause of the exceedance was undetermined and all resamples were satisfactory.



WATER SUPPLY ZONE - ZN0302 - Dungonnell Glarryford Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. |U/A No. of | No. of | | No. Of | % of Concentration or value æ samples |samples samples | samples | (all samples) |Frea. planned | taken in | |contraven|contraven+ |per annum| year Auth Depling PCV |ing PCV | Min. Mean < 0.100 | < 0.100 | < 0.100 1,2 Dichloroethane 0.000 2,4-D ug/1 AS 32 32 0 0.000 < 0.004 | 0.008 | 0.012 0.003 2,4-DB ug/l < 0.003 | 0.003 | 6.098 ug Al/l 60 700 Aluminium S 24 24 Ω 0.000 25.519 < 0.012 mg NH4/1 24 25 0 0.007 < 0.012 0.000 Ammonium < 0.007 < 0.010 0.256 < 0.002 0.017 < < 8 0 0.000 0.047 0.130 < 0.300 0 0.295 I Arsenic 11g/1 As S 0.000 ug/l 0.000 0.003 0.008 Bentazone Benzene ug/l S 8 8 0 0.000 0.020 0.022 < 0.001 | < 0.001 | < 0.005 | Benzo(a)pyrene 0.000 0.001 ug/l Boron mg/l B S 8 8 0 0.000 0.017 0.600 Bromate ua/l 8 0 0.000 1.531 2.300 Bromoxynil < 0.007 ug/l 32 32 0.000 < 0.007 0.007 0.010 ug/l Cd 0.014 Cadmium S 8 8 0 0.000 Chloride mg C1/1 0.000 14.503 7.336 18.329 < 0.002 Chlorotoluron ua/1 AS 32 32 Ω 0 000 < 0.002 < 0.004 < 0.019 Chlorpyrifos 32 0.000 ug/l 0.100 < 0.006 Chromium ug/l Cr S 8 Ω 0.000 0.148 0 198 < 0.011 Clopyralid 32 32 0 0.000 AS 0.034 ug/l Clostridium perfringens (sulph red) No./100 ml 348 0.282 0.000 0.003 1.000 No./1 ml Colony Counts 22 Colony Counts 37 (48hrs) S 24 2.4 0 0.000 0.000 0.042 1.000 24 0.000 0.000 No./1 ml0.000 0.000 Colour mg/l Pt/Co 24 2.4 0 0.000 0.670 1.134 1.710 Conductivity uS/cm 20 C 36 46 0 0.000 114.000 141.043 179.000 AS mg Cu/l 8 8 0.001 < 0.500 < 0.001 Copper S 0 0.000 0.010 0.040 < 1.034 AS 0.000 Cyanide uq/l 3.100 Dicamba ug/l 32 32 0 0.000 < 0.011 Dichlorprop ua/1 AS 32 32 Ω 0 000 < 0.003 < 0.004 0 011 32 32 0.002 0.003 < 0.003 Diuron AS 0.000 ug/1 0.000 E coli No./100 ml S 72 72 0 0 000 0.000 0 000 No./100ml 0 0.000 0.000 0.000 Enterococci 0.000 8 Epoxiconazole ug/l AS 32 32 0 0.000 0.002 0.002 < 0.002 32 32 Fenoropimorph ua/1 AS 0.000 0.004 mg F/l 8 0 0.000 0.020 0.034 32 < 0.005 Fluroxypyr ua/l AS 0 0.000 0.009 0.016 mg C1/1 72 Free - Residual disinfectant S 72 0 0.000 0.050 0.524 1.320 Glyphosate 32 32 0 0.000 < 0.0 0.002 0.004 0.021 7.665 pH value Hydrogen Ion 24 24 8.333 10.300 S 63.101 24 24 2 8.333 4.213 394.000 0.002 0.002 Isoproturon ug/l AS 32 0.000 < 0.002 ug Pb/l 8 8 0.000 0.070 0.099 0.118 Lead 0.006 0 0.006 Linuron uq/l AS 0.000 32 32 0.000 0.004 0.023 0.037 MCPA ug/l AS ug Mn/l 24 32 24 32 Manganese S 0 0.000 0.100 1 218 3.500 AS 0.010 0.000 0.003 0.018 Mecoprop ua/l ug/l Hg 8 8 0.025 Mercury 0 0.000 0.009 0.092 < 0.005 < 0.002 0.005 Metalaxvl ua/1 AS 0 0.000 < Metoxuron ug/l 0.000 0.002 Metribuzin ua/1 AS 32 32 0 0.000 0.004 0.004 | 0.004 ug Ni/l 0.100 1.055 Nickel 0.000 2.770 mg NO3/1 < < < < Nitrate 8 9 0 0.000 0.400 0.400 0.400 0.010 | 0.010 Nitrite mg NO2/1 8 0.000 0.010 Odour PAH - Sum of four substances 24 24 8.333 0.000 0.208 3.000 0.010 1107/1 S 8 0 0.000 < < | < 0.000 0.004 Pendimethalin ug/1 Pesticides - Total Substances ug/l AS 32 32 0 0.000 0.050 0.074 | 0.114 0.004 0.004 AS 32 32 0.000 0.004 Phorate uq/l Pirimicarb ug/l AS 32 32 0 0.000 < 0.003 0.003 < 0.003 32 32 0.000 < 0.004 0.004 0.004 Propachlor ua/1 AS 0 Propiconazole AS 32 0.000 0.002 0.002 ug/l Propvzamide ua/1 AS 32 32 0 0.000 < 0.010 0.010 0.010 Prothioconazole 0.006 0.006 ug/l 0.006

8

Ω

0.000

0 156

0.275

1 0 507

ug/l Se

S I 8

Selenium



Parameter		U/A &	No. of samples planned	samples	-	No. Of samples	samples		centration (all sample	es)
		1	per annum		Auth Dep		ing PCV	Min.	Mean	Max.
Sodium	mg Na/l	S	8	8		0	0.000	5.588	9.186	11.008
Sulphate	mg SO4/1	S	8	8		0	0.000	22.397	33.732	48.925
Taste	Diln No	l S	24	24		1	4.167	0.000	0.167	4.000
Tebuconazole	ug/l	AS	32	32		0	0.000	< 0.002	< 0.002	< 0.002
Tetrachloroethene/Trichloroethene	- S ug/l	l S	8	8		0	0.000	< 0.200	< 0.260	< 0.448
Tetrachloromethane	ug/l	l S	8	8		0	0.000	< 0.100	< 0.100	< 0.100
Total - Residual disinfectant	mg Cl/l	S	72	72		0	0.000	0.060	0.591	1.400
Total Indicative Dose	mSv/year	AS	2	2		0	0.000	< 0.100	< 0.100	< 0.100
Total Organic Carbon	mg C/l	AS	8	8		0	0.000	0.809	1.677	2.620
Total Trihalomethanes	ug/l	l S	8	8		0	0.000	30.000	57.915	99.700
Total coliforms	No./100 ml	S	72	72		0	0.000	0.000	0.000	0.000
Triclopyr	ug/l	AS	32	32		0	0.000	< 0.004	< 0.011	0.017
Tritium	Bq/l	AS	2	2		0	0.000	< 5.000	< 5.000	< 5.000
Turbidity	NTU	l S	24	24		0	0.000	0.060	0.197	0.960

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 26301

This zone has a surface water source :R1303

PCV Exceedances:
Sample failed 16-APR-2015 (W3301POUT) Clostridium perfringens (sulph red) = 1 No./100.
Sample failed 02-FEB-2015 (ZN0302AE) Hydrogen Ion = 9.85 pH va.
Sample failed 02-DEC-2015 (ZN0302AE) Hydrogen Ion = 10.30 pH v.
Sample failed 02-FEB-2015 (ZN0302AE) Iron = 394 ug Fe/.
Sample failed 16-FEB-2015 (ZN0302AE) Iron = 279 ug Fe/.
Sample failed 16-DCCT-2015 (ZN0302AE) Odour = 3 Diln No.
Sample failed 16-DCC-2015 (ZN0302AE) Odour = 2 Diln No.
Sample failed 05-OCT-2015 (ZN0302AE) Taste = 4 Diln No.

Notes:

PCV = Prescribed Concentration or Value
U = Undertaking
S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point



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) 2007.



Parameter		U/A	No. of	No. of	PCV	No. Of	% of	Cond	centration o	or value
		Freq.	planned per annum	taken in year	Auth Dep	ing PCV	ing PCV	Min.	Mean Mean	Max.
1,2 Dichloroethane	ug/l			++ 8			0.000	< 0.100	< 0.100	< 0.100
2,4-D		AS		16					< 0.010	
2,4-DB		AS		16					< 0.003	
Aluminium		l S		36						64.160
Ammonium		l S		36						0.014
Antimony		l S		8 8					< 0.118 0.369	
Arsenic Bentazone	ug/l As ug/l	S AS		8 16		0 0			0.369	0.469
Benzene	ug/l	I AS								0.006
Benzo(a) pyrene		l S		1 8 I					< 0.020	
Boron		l S		181						0.017
Bromate		l S		181					< 0.300	
Bromoxynil		AS		16					< 0.007	
Cadmium		S		8						0.018
Chloride		S		9 1				22.751		24.588
Chlorotoluron		AS		16					< 0.002	
Chlorpyrifos	ug/l	AS		i 16 i					< 0.004	
Chromium		j s		, 8 i						0.627
Clopyralid	ug/l	AS		16					< 0.011	0.025
		AS		104						0.000
Colony Counts 22		S								22.000
Colony Counts 37 (48hrs)		S								4.000
Colour		S								3.000
Conductivity		AS							134.132	
Copper		S		8						0.088
Cyanide	ug/l	AS		16					< 1.475	
Dicamba	ug/l	AS		16					< 0.011	
Dichlorprop	ug/l	AS		16					< 0.004	
Diuron	ug/l	AS		16					< 0.004	
E. coli		l S		108 8		0				0.000
Enterococci Epoxiconazole		AS		8 16					0.000	0.000
Fenpropimorph		AS		16			0.000		0.002	
Fluoride		l S		1 9 1						0.035
Fluroxypyr		AS		16					< 0.009	
Free - Residual disinfectant		l S								0.910
Glyphosate		AS							< 0.003	
Hydrogen Ion	pH value	i s								8.040
Iron		j s							< 15.788	
Isoproturon		AS		i 16 i		0			< 0.002	
Lead	ug Pb/l	j s	8	8		0	0.000	< 0.100	< 0.101	0.110
Linuron	ug/l	AS	16	16		0	0.000	< 0.006	< 0.006	< 0.006
MCPA	ug/l	AS		16			0.000		< 0.031	
Manganese		S		36					< 1.558	
Mecoprop	ug/l	AS		16					< 0.011	
Mercury		S		8			0.000		< 0.012	
Metalaxyl	ug/l	AS		16			0.000		< 0.005	
Metoxuron	ug/l	AS		16					< 0.002	
Metribuzin	ug/1	AS		16					< 0.004	
Nickel	ug Ni/l	l S		8						3.726
Nitrate	mg NO3/1	l S		9					< 1.476	
Nitrite	mg NO2/1	l S		9			0.000		< 0.010	
Odour PAH - Sum of four substances		l S		36 8					0.000	0.000
PAH - Sum of four substances Pendimethalin		AS		8 16					< 0.010	
Pesticides - Total Substances		AS		16					< 0.004	
Phorate				16 16					< 0.087	
Pirimicarb	ug/l	AS		16 16					< 0.004	
Propachlor	ug/l	AS		16 16					0.003	
Propiconazole	ug/l	AS		1 16					< 0.004	
Propyzamide	ug/l	AS		1 16 1					< 0.002	
1 TOP / Damituc	49/±	1 220								
Prothioconazole	ug/l	AS	16	16		I 0	0.000	< 0.006	< 0.006	< 0.006



WATER SUPPLY ZONE - ZN0501 - Moyola Magherafelt Printed On 11-JAN-2016 : NI Water : Period 01-JAN-2015 to 31-DEC-2015 incl. | samples | samples | contraventer |U/A| No. of | No. of |Concentration or value (all samples) ı s samples |samples | |contraven|contraven+----|Freq.| planned |taken in| |per annum| year Auth Dep|ing PCV | ing PCV | Min. | Mean | mg Na/l 0.000 14.772 | 15.804 | Sulphate mg SO4/l Diln No SI 8 0 0.000 56.148 67.060 73.403 0.000 0.000 0.000 | 0.000 | 0.000 < 0.002 | < 0.002 | 0.003 < 0.200 | < 0.246 | < 0.418 < 0.100 | < 0.100 | < 0.100 0.160 | 0.548 | 1.080 < 0.100 | < 0.100 | < 0.100 0.804 | 1.827 | 3.400 Tebuconazole ug/l AS I 16 16 Ω 0.000 Tetrachloroethene/Trichloroethene - S ug/l 0 0.000 8 SI Tetrachloromethane
Total - Residual disinfectant
Total Indicative Dose ug/l 0.000 mg Cl/l mSv/year 108 108 0 0.000 0.000 8 9 Total Organic Carbon mg C/l | AS 0 0.000 Total Trihalomethanes ug/l 0.000 47.200 61.150 84.000 S No./100 ml Total coliforms 108 108 0 0.000 0.000 0.000 0.000 < 0.004 < 5.000 < 0.013 | 0.029 < 5.000 | < 5.0 Triclopyr ua/l AS 16 16 0 | < 5.000 | 0.740 Tritium 0.000 36 36 0.070 0.200 Turbidity NTU S 0 0.000

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 42232

This zone has a surface water source :R1301 $\,$

PCV Exceedances:

Water Quality was satisfactory

PCV = Prescribed Concentration or Value

= Undertaking

= Standard Sampling Frequency = Reduced Sampling Frequency = Authorised Supply Point



ZN0601 - Ballinrees Limavady

The water supplied in this zone within the Causeway Coast and Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 except for the following parameter(s): -

Iron, Manganese and Turbidity – single sample exceedance

A single sample failed for iron, manganese and turbidity. Investigations found that these exceedances were most likely caused by a disturbance of mains deposits caused by a burst watermain. All resamples were satisfactory.

Pesticides - Monitored at Authorised Supply point

NI Water analyses for 30 individual pesticides, herbicides and algaecides, with an exceedance of the individual standard detected for MCPA. The exceedance was most likely caused by high rainfall events, which could have caused increased herbicide wash off from the catchment area into the supply for Ballinrees WTW.

Odour – two exceedances and Taste – single exceedance

The DWI directed change in the analysis of taste and odour for 2010 onwards has resulted in a number of exceedances that may not previously have failed. This is not normally due to a change in the quality of water supplied, but rather to the change in the method of measurement. The cause of one exceedance was likely due to treatment issues at Ballinrees WTW, however the cause of the other was undetermined and all resamples were satisfactory.



WATER SUPPLY ZONE - ZN0601 - Ballinrees Limavady Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. |U/A No. of No. of | Concentration or value æ samples |samples samples | samples | (all samples) |Frea. planned | taken in | |contraven|contraven+ |per annum| year Auth Depling PCV |ing PCV | Min. Mean 1,2 Dichloroethane 0.000 < 0.100 | < 0.100 | < 0.100 S 2,4-D ug/1 AS 8 8 0 0.000 < 0.004 | 0.011 I 0.015 0.003 2,4-DB ug/l < 0.003 0.003 5.730 30.281 ug Al/l 144 000 Aluminium S 24 24 Ω 0.000 mg NH4/1 24 25 0 0.005 0.000 0.018 0.123 Ammonium S 0. < 0.0 0.274 < 0.002 < 0.043 0.310 < 0.002 < 0.020 8 0 0.000 0.090 8 0 Arsenic 11g/1 As S 8 0.000 0.348 Bentazone ug/l 0.000 0.002 < Benzene ug/l S 8 8 0 0.000 0.020 < 0.001 Benzo(a)pyrene 0.000 0.001 0.001 ug/l Boron mg/l B S 8 8 0 0.000 0.005 | 1.984 | 0.017 Bromate ua/l 8 8 0 0.000 0.300 5.400 Bromoxynil ug/l 0 0.000 0.007 0.007 0.007 ug/l Cd Cadmium S 8 8 0 0.000 0.006 0.008 | 0.010 Chloride mg C1/1 0.000 21.000 30.138 | < 0.002 | < 0.004 Chlorotoluron ua/1 AS 8 8 Ω 0 000 < 0.002 < 0.004 < 0.002 0.004 Chlorpyrifos ug/l 0.000 0.119 Chromium ug/l Cr S 8 8 Ω 0.000 0.242 0 383 < 0.010 Clopyralid 0 0.020 AS 8 0.000 ug/l Clostridium perfringens (sulph red) No./100 ml 104 0 0.000 0.000 0.000 0.000 Colony Counts 22 Colony Counts 37 (48hrs) No./1 ml S 24 24 0 0.000 0.000 0.250 6.000 24 0.000 0.000 No./1 ml0.000 0.000 Colour mg/l Pt/Co 24 2.4 0 0.000 0.780 1.445 2.750 mg Cu/l 0 8 0.000 0.001 0.004 0.020 Copper < 0.500 < 0.001 < 0.763 | < 0.011 | 1.000 Cyanide AS 8 8 0 0.000 8 0.000 Dicamba uq/1 AS Dichlorprop ug/l 0 0.000 < 0.003 < 0.003 0.003 < 0.004 i Diuron ua/1 AS 8 8 Ω 0 000 < 0.003 0 007 No./100 ml 0.000 0.000 E. coli 48 0.000 0.000 Enterococci No./100ml S 8 8 Ω 0 000 0.000 0.000 0.000 ug/l 8 0 < 0.002 < 0.002 < 0.002 Epoxiconazole 0.000 Fenpropimorph ug/l AS 8 8 0 0.000 < 0.004 < 0.004 | < 0.004 mg F/l < 0.032 0.018 Fluoride S 8 0.000 0.100 0 0.000 < 0.005 < 0.010 0.014 Fluroxypyr ug/l mg C1/1 Free - Residual disinfectant 0.150 48 0.400 S 48 0 0.000 0.820 0.150 < 0.003 7.300 < 2.000 < 0.002 < 0.003 7.960 < 51.757 Glyphosate ug/l AS 0.000 < 0.003 Hydrogen Ion pH value 27 0 0.000 8 750 940.000 ug Fe/l 24 24 4.167 Iron Isoproturon ug/l 0 0.000 0.002 0.002 ug Pb/l Lead S 8 8 0 0.000 0.050 0.107 0.294 0 0.000 < 0.006 0.014 < 0.100 < 0.006 0.053 < 9.644 < 0.0 0.006 Linuron ug/l MCPA uq/l AS 8 8 12.500 ug Mn/l 4.167 Manganese ug/l Mecoprop AS 8 8 0 0.000 0.011 0.015 0 021 ug/l Hg 0.008 0.021 0.000 0.013 Mercurv S < 0.005 < 0.002 Metalaxyl AS 0 0.000 0.005 0.005 ug/l 0 Metoxuron ua/1 AS 8 8 0.000 0.002 0.002 Metribuzin ug/l 0.000 0.004 0.004 2.205 ug Ni/l Nickel S 8 8 0 0.000 0.495 7.845 mg NO3/1 0.000 1.450 Nitrate 0.386 Nitrite mg NO2/1 < 0.010 0.000 0 0.000 0.010 0.013 0.240 Odour PAH - Sum of four substances 24 25 Diln No 8.000 4.000 0.010 0.010 ug/l 0 0.000 < < 0.010 Pendimethalin Pesticides - Total Substances uq/l AS 8 8 0 0.000 0.004 0.004 0.004 0.050 0.109 0.000 ug/1 0.004 | < Phorate ug/l AS 8 8 0 0.000 < 0.004 0.004 0.003 0.003 Pirimicarb AS 8 0.000 0.003 uq/l Propachlor ug/l AS 8 8 0 0.000 < 0.004 0.004 < 0.004 Propiconazole < 0.002 0.002 | < ua/1 AS 8 8 0 0.000 0.002 Propyzamide 0.000 0.010 0.010 ug/l

8

8

0

Ω

0.000

0.000

< 0.006

10 914

0.006 |

0.408

14 048

0.006

17.089

Prothioconazole

Sodium

ua/l

ug/l Se

mg Na/l

AS I 8

S I 8



WATER SUPPLY ZONE - ZN0601 - Ballinrees Limavady Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. No. Of | % of | samples | |U/A| No. of | No. of || No. Of | % of Concentration or value Parameter ıε samples |samples | (all samples) |contraven|contraven+----|Freq.| planned |taken in| |per annum| year Auth Dep|ing PCV |ing PCV | Min. | Mean | S | Sulphate mg SO4/1 0.000 6.469 | 47.890 | Taste Diln No SI 24 24 4.167 0.000 0.167 4.000 < 0.002 | < 0.002 | < 0.0
< 0.200 | < 0.261 | 0.360
< 0.100 | < 0.100 | < 0.1</pre> Tebuconazole ug/l 0.002 Tetrachloroethene/Trichloroethene - S ug/l SI 8 8 Ω 0.000 0 < 0.100 Tetrachloromethane 8 0.000 uq/l S Total - Residual disinfectant Total Indicative Dose mg Cl/l 48 48 0 0.000 0.210 0.484 0.980 < 0.100 | 0.802 | < 0.100 | 2.110 | 59.425 | < 0.100 mSv/year mg C/l 0 0.000 I AS Total Organic Carbon 0.000 35.400 Total Trihalomethanes uq/l S 8 8 0 0.000 91.200 Total coliforms No./100 ml 48 48 0.000 0.000 0.000 0.000 Triclopyr ug/l AS 8 8 0 0.000 0.009 0.014 0.020 < 5.000 < 5.000 I < 5.000 Tritium Ba/l AS 0 0.000 Turbidity 0.060 0.387 5.000

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 20064

This zone has a surface water source :R1701

PCV Exceedances:

Sample failed 21-JAN-2015 (ZN0601AE) Iron = 940 ug Fe/.
Sample failed 17-AUG-2015 (W1701POUT) MCPA = 0.1700 ug/.
Sample failed 21-JAN-2015 (ZN0601AE) Manganese = 180.0 ug M.
Sample failed 18-MAY-2015 (ZN0601AE) Manganese = 180.0 ug M.
Sample failed 17-AUG-2015 (ZN0601AE) Odour = 4 Diln No.
Sample failed 17-AUG-2015 (ZN0601AE) Odour = 2 Diln No.
Sample failed 18-MAY-2015 (ZN0601AE) Taste = 4 Diln No.
Sample failed 21-JAN-2015 (ZN0601AE) Turbidity = 5.0 NTU.

Notes

PCV = Prescribed Concentration or Value

U = Undertaking

S = Standard Sampling Frequency
R = Reduced Sampling Frequency
A = Authorised Supply Point



ZN0604 - Caugh Hill Dungiven

The water supplied in this zone within the Causeway Coast & Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 except for the following parameter(s): -

Iron - single exceedance

Investigations found that this exceedance was most likely caused by a disturbance of mains deposits from older iron mains, with resamples being satisfactory after flushing if required. NI Water has in place an extensive Mains Rehabilitation Programme, which favours mains replacement and zones are prioritised according to need. This programme will continue to maintain and improve the quality of water in your council area over the next few years.



< <

0 178

0.010

0.006

0.010

0.006

0 282

< 0.010

0.506

0.006

0.000

0.000

0

Ω

WATER SUPPLY ZONE - ZN0604 - Caugh Hill Dungiven Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. |U/A No. of Concentration or value æ samples |samples samples | samples | (all samples) |Frea. planned | taken in | |contraven|contraven+ |per annum| year Auth Depling PCV |ing PCV | Min. Mean 1,2 Dichloroethane 0.000 0.051 | < 0.091 | < 0.100 < 0.004 | < 0.003 | 2,4-D ug/1 AS 8 8 0 0.000 0.004 | < 0.004 0.003 2,4-DB ug/l ug Al/l Aluminium S 24 24 Ω 0.000 5.788 26 443 59 760 < 0.010 < 0.010 < 0.300 < 0.012 mg NH4/1 24 0 < 0.012 24 0.000 Ammonium S 0 0.000 0.036 0.092 8 0 Arsenic 11g/1 As S 8 0.000 0.300 [0.306 1 0.350 ug/l 0.000 0.002 Bentazone Benzene ug/l S 8 8 0 0.000 0.015 0.019 0.020 < 0.001 | Benzo(a)pyrene 0.000 0.001 0.001 ug/l Boron mg/l B S 8 8 0 0.000 0.005 0.009 Bromate ua/l 8 8 0 0.000 < 0.300 2.288 3.600 Bromoxynil ug/l 0 0.000 0.007 0.007 0.007 ug/l Cd 0.018 Cadmium S 8 8 0 0.000 0.005 0.010 Chloride mg C1/1 0.000 16.892 23.526 33.551 Chlorotoluron ua/1 AS 8 8 Ω 0 000 < 0.002 < 0.004 < 0.002 < 0.002 0.004 0.004 Chlorpyrifos 0.000 ug/l 0.099 Chromium ug/l Cr S 8 8 Ω 0.000 0.193 0.318 < 0.014 Clopyralid 0 AS 0.000 0.027 ug/l Clostridium perfringens (sulph red) No./100 ml 0 0.000 0.000 0.000 0.000 Colony Counts 22 Colony Counts 37 (48hrs) No./1 ml S 2.4 2.4 0 0.000 0.000 0.042 1.000 24 0.000 0.000 No./1 ml0.000 0.000 Colour mg/l Pt/Co 24 24 0 0.000 0.800 1.500 2.290 Conductivity uS/cm 20 C 52 52 0 0.000 180.000 224.692 309.000 AS 0.001 Copper mg Cu/l 8 8 0 0.000 0.002 0.010 0.000 AS 8 1.899 Cyanide uq/l 3.000 Dicamba ug/l 0 0.000 < 0.012 0.012 0.012 < 0.003 < 0.003 < 0.003 Dichlorprop ua/1 AS 8 8 Ω 0 000 0.003 0.003 0.003 Diuron AS 0.000 ug/1 0.000 E coli No./100 ml S 48 48 0 0 000 0.000 0 000 No./100ml 0 0.000 0.000 0.000 Enterococci 0.000 8 Epoxiconazole ug/l AS 8 8 0 0.000 < < 0.002 0.002 | 0.002 Fenoropimorph ua/1 AS 8 0.000 0.004 0.004 mg F/l 0 0.000 0.020 0.022 0.026 0.005 < 0.005 Fluroxypyr ua/l AS 8 8 0 0.000 0.005 mg C1/1 Free - Residual disinfectant S 48 49 0 0.000 0.050 0.393 0.870 Glyphosate 0 0.000 0.003 0.003 0.003 0 pH value 6.920 8.870 Hydrogen Ion 24 24 0.000 8.016 S 1.537 220.800 24 24 1 4.167 32.495 0.002 < 0.002 < 0.002 Isoproturon ug/l AS 8 0.000 ug Pb/l 0.000 0.062 0.095 Lead 0.006 Linuron uq/l AS 8 8 0 0.000 0.006 0.006 0.000 0.006 MCPA ug/l AS < 0.100 < 0.003 Manganese ug Mn/l S 24 24 0 0.000 2.357 11.190 AS 0.003 0.003 8 0.000 Mecoprop ua/l ug/l Hg Mercury 0 0.000 0.005 0.023 0.098 < 0.005 < 0.005 < 0.005 Metalaxvl ua/1 AS 8 8 0 0.000 Metoxuron ug/l 0.000 0.002 Metribuzin ua/1 AS 8 8 0 0.000 0.004 0.004 | 0.004 0.879 ug Ni/l 0.000 0.470 Nickel mg NO3/1 Nitrate 8 8 0 0.000 0.393 1.801 6.866 0.010 0.010 0.010 Nitrite mg NO2/1 8 0.000 Odour PAH - Sum of four substances 0.000 < 0.010 < 0.004 4.167 0.250 < 0.010 6.000 < 0.010 1107/1 8 8 0 0.000 0.000 Pendimethalin ug/1 Pesticides - Total Substances ug/l AS 8 8 0 0.000 0.050 0.050 I < 0.050 0.004 AS 8 0.000 0.004 0.004 Phorate uq/l Pirimicarb ug/l AS 8 8 0 0.000 < 0.003 0.003 < 0.003 < 0.004 0.004 | < Propachlor ua/1 AS 8 8 0 0.000 0.004 Propiconazole 0.000 0.002 0.002 ug/l

8

8

Propvzamide

Selenium

Prothioconazole

ua/l

ug/1

ug/l Se

AS I 8

S I 8



WATER SUPPLY ZONE - ZN0604 - Caugh Hill Dungiven Printed On 11-JAN-2016: NI Water: Period 01-JAN-2015 to 31-DEC-2015 incl. | samples | samples | |contraventer |U/A| No. of | No. of | PCV Concentration or value (all samples) ı s samples |samples | |contraven|contraven+----|Freq.| planned |taken in| |per annum| year Auth Dep|ing PCV | ing PCV | Min. | Mean | | 11.239 | 14.085 | | 42.076 | 62.736 | mg Na/l 0.000 Sulphate mg SO4/1 SI 8 0 0.000 90.499 0.000 0.250 6.000 < 0.002 | < 0.002 | < 0.0 < 0.200 | < 0.281 | 0.570 0.000 < 0.002 Tebuconazole ug/l AS I 8 8 Ω Tetrachloroethene/Trichloroethene - S ug/l 0 8 8 S Tetrachloromethane
Total - Residual disinfectant
Total Indicative Dose < 0.100 0.960 ug/l 0.000 < 0.100 | 0.100 mg Cl/l mSv/year 0.469 | < 0.100 | 1.661 | 4.8 49 0 0.000 < 0.100 1.160 < 0.100 0.000 Total Organic Carbon mg C/l | AS 8 8 0 0.000 58.086 Total Trihalomethanes ug/l 0.000 35.000 88.200 S No./100 ml Total coliforms 48 48 0 0.000 0.000 0.000 0.000 < 0.004 < 5.000 < 0.004 | < 0.004 < 5.000 | < 5.000 Triclopyr ua/l AS 8 8 0 Tritium 0.000 24 0.060 0.191 | 0.670 Turbidity NTU SI 24 0 0.000

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 15409

This zone has a surface water source :R4306

PCV Exceedances:

Sample failed 20-MAY-2015 (ZN0604AE) Iron = 221 ug Fe/. Sample failed 18-FEB-2015 (ZN0604AE) Odour = 6 Diln No. Sample failed 18-FEB-2015 (ZN0604AE) Taste = 6 Diln No.

PCV = Prescribed Concentration or Value

= Undertaking

= Standard Sampling Frequency = Reduced Sampling Frequency = Authorised Supply Point



ZN0607 - Corrody Derry

The water supplied in this zone within the Causeway Coast & Glens council area complied with all the physical-chemical and microbiological standards laid down in the Water Supply (Water Quality) Regulations (Northern Ireland) 2007 except for the following parameter(s): -

Pesticides - Monitored at Authorised Supply point

NI Water analyses for 30 individual pesticides, herbicides and algaecides, with an exceedance of the individual standard detected for MCPA. The exceedance was most likely caused by high rainfall events, which could have caused increased herbicide wash off from the catchment area into the supply for Ballinrees WTW.



WATER SUPPLY ZONE - ZNO607 - Corrody Derry | Printed On 11-JAN-2016 : NI Water : Period 01-JAN-2015 to 31-DEC-2015 incl.

Parameter		&	No. of samples	samples		No. Of samples	% of samples	Con	centration (all sample	
			planned per annum		Auth Dep	ing PCV	ing PCV	Min.	Mean	Max.
1,2 Dichloroethane	ug/l	S	+ 8	++ 8			0.000	,	< 0.085	
2,4-D	ug/l	AS	16	16		0	0.000	< 0.004	< 0.007	0.015
2,4-DB	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Aluminium	ug Al/l	S	52	52		0	0.000	4.909	23.596	68.060
Ammonium	mg NH4/l	l S		52		1 0	0.000	0.005	< 0.012	< 0.012
Antimony	ug/l Sb	l S	1 8	8		0	0.000	< 0.010	< 0.052	0.116
Arsenic		i s	i 8	8						0.361
Bentazone		AS		16				< 0.002		
Benzene	ug/l	i s						< 0.020		
Benzo (a) pyrene	ug/l	i s		, 8 i				< 0.001		
Boron	mg/l B	i s		, 8 i					< 0.007	
Bromate	ug/l	l S		181				< 0.300		
Bromoxynil	ug/l	I AS		1 16 1				< 0.007		
Cadmium		115								0.016
Chloride		l S		181				17.929		32.711
Chlorotoluron		AS		1 16 1				< 0.002		
Chlorpyrifos	ug/1 ug/1	AS		1 16 1					< 0.002	
		l S								0.529
Chromium	ug/l Cr									
Clopyralid	ug/l	AS		16				< 0.006		
Clostridium perfringens (sulph red)		AS		105					0.000	
Clostridium perfringens (sulph red)		AS								0.000
Colony Counts 22		S								0.000
Colony Counts 37 (48hrs)		S								0.000
Colour		l S								2.060
Conductivity		AS						180.000		
Copper	mg Cu/l	S		8						0.002
Cyanide	ug/l	AS	16	16		0		< 0.500	< 1.331	3.000
Dicamba	ug/l	AS	16	16		0	0.000	< 0.001	< 0.011	< 0.012
Dichlorprop	ug/l	AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Diuron	ug/l	AS	16	16		0	0.000	< 0.003	< 0.004	0.007
E. coli	No./100 ml	S	144	145		0	0.000	0.000	0.000	0.000
Enterococci	No./100ml	l S	8	1 8 1		0	0.000	0.000	0.000	0.000
Epoxiconazole	uq/l	AS	16	16 i			0.000	< 0.002	< 0.002	< 0.002
Fenpropimorph	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Fluoride	mg F/l	l S	1 8	8		0	0.000	0.016	0.023	0.044
Fluroxypyr		AS		16 1		. 0		0.005	0.008	1 0.014
Free - Residual disinfectant		i s		145						0.900
Glyphosate	ug/l	AS		1 16 1				< 0.003		
Hydrogen Ion	pH value	l S						7.110		8.750
Iron		i s						1.711		58.000
Isoproturon	ug/l	AS		1 16 1				< 0.002		
Lead		115 S		1 8 1						0.660
Linuron	ug/l	AS		1 16 1				< 0.006		
MCPA	ug/1	AS		16		1 1	6.250		< 0.029	
	ug/1 ug Mn/l	l S							< 0.029	
Manganese	ug/l	AS		1 16				< 0.100		
Mecoprop										
Mercury	ug/l Hg	l S		8						0.084
Metalaxyl	ug/l	AS		16				< 0.005		
Metoxuron	ug/l	AS		16				< 0.002		
Metribuzin	ug/l	AS		16				< 0.004		
Nickel	ug Ni/l	l S								1.636
Nitrate	mg NO3/1	S		8					< 2.856	
Nitrite	mg NO2/1	S		8					< 0.010	
Odour	Diln No	S		52						3.000
PAH - Sum of four substances	ug/l	S		8			0.000		< 0.010	
Pendimethalin	ug/l	AS		16					< 0.004	
Pesticides - Total Substances	ug/l	AS	16	16		0	0.000	< 0.050	< 0.079	0.260
Phorate	ug/l	AS	16	16		0	0.000	< 0.004	< 0.004	< 0.004
Pirimicarb		AS	16	16		0	0.000	< 0.003	< 0.003	< 0.003
Propachlor				. 16 i					< 0.004	
Propiconazole	ug/l			1 16 1					< 0.002	
Propyzamide		AS		1 16				< 0.002		
Prothioconazole		AS		1 16 1				< 0.016		



WATER SUPPLY ZONE - ZN0607 - Corrody Derry Printed On 11-JAN-2016 : NI Water : Period 01-JAN-2015 to 31-DEC-2015 incl. | samples | samples | contravents: Parameter |U/A| No. of | No. of || No. Of | % of Concentration or value (all samples) ıε samples |samples | |Freq.| planned |taken in| |contraven|contraven+----|per annum| year Auth Dep|ing PCV | ing PCV | Min. | Mean | Selenium ug/l Se 0.000 0.176 | 0.412 11.474 33.080 Sodium mg Na/l mg SO4/l SI 8 8 0 0.000 1 13.700 18.443 s I Sulphate 0.000 0.000 | 0.000 | < 0.002 | < 0.002 | < 0.200 | < 0.373 | < 0.100 | < 0.100 | Taste Diln No 52 52 Ω 0.000 1 0.000 0 0.000 < 0.002 Tebuconazole 16 16 uq/l | AS | Tetrachloroethene/Trichloroethene - S ug/l 0.000 0.730 < 0.100 Tetrachloromethane Total - Residual disinfectant | S | 0 0.000 ug/l 8 0.160 < 0.100 1.160 0.430 | < 0.100 | 1.661 | mg C1/1 145 0.000 0.950 < 0.100 Total Indicative Dose mSv/year | AS 0 0.000 Total Organic Carbon mg C/l AS 0.000 34.400 58.600 Total Trihalomethanes ug/l S 8 0 0.000 88.600 0.000 No./100 ml 144 145 0.000 Total coliforms S 0 0.000 < 0.000 | < 0.009 | < 5.000 | < 0.004 | < 5.000 | Triclopyr 0.000 0.020 ug/l < 5.000 Tritium Ba/l AS 0 0.000 Turbidity 0.650

Commentary on Water Quality:

A: Supply point authorisation for pesticides and related products.

Population of zone = 56503

This zone has a surface water source :R1701

PCV Exceedances:

Sample failed 17-AUG-2015 (W1701POUT) MCPA = 0.1700 ug/. Sample failed 05-AUG-2015 (ZN0607AE) Odour = 3 Diln No.

PCV = Prescribed Concentration or Value

= Undertaking

= Standard Sampling Frequency = Reduced Sampling Frequency = Authorised Supply Point