

Test Report

Report of: Drinking Water [European Communities (Drinking Water)(No.2) Regulations 2007 (S.I. No.278 of 2007)].

Report to: Monaghan County Council

Report date: 04/12/14

Location sampled: Lough Egish R.W.S.S

Date collected: 21/10/2014

Date received: 21/10/2014

Analysis group: DW Audit

Comments:

			Laboratory Ref:	1413796
			Type of sample:	Drinking Water
			Sampling point:	3 Dartry Court, Rockcorry
			Sampled by:	John Quinn
			Time Sampled:	nt
			Start/End - Dates of Analysis:	22-10-14/21-11-14
			Grid Ref:	264484 319208
			Status of results:	Final
Parameter	Units	Limits		
F **	Residual Chlorine	mg/l Cl		<0.05
F **	Taste			ATC
F **	Odour			nd
	pH	pH	> 6.5 And < 9.5	7.8
	True Colour	Hazen		10
	Conductivity @25°C	µS/cm @ 25	< 2760	326
	Conductivity @20°C	µS/cm @ 20	< 2500	295
**	Coliform Bacteria	No/100 ml	0	0
**	E. Coli	No/100 ml	0	0
**	Clostridia Perfringens	No/100ml	0	0
**	Heterotrophic plate count @ 22°C	No/ml		11
**	Enterococci	No/100ml	0	0
	Chloride	mg/l Cl	< 250	17
	Ammonia	mg/l NH4	< 0.3	<0.026
	Nitrite (as NO2)	mg/l NO2	< 0.49	<0.0132
	Ortho-phosphate (as P2O5)	µg/l P2O5	< 5000	<23
	Total Oxidised Nitrogen (as NO3)	mg/l NO3	< 50	<0.89
	Nitrate (as NO3)	mg/l NO3	< 50	<0.89
**	Bromate	ug/l	< 10	<0.1
**	Cyanide	mg/l CN	< 0.05	<0.01
	Fluoride	mg/l F	< 0.8	0.76
	Total Hardness (as Ca)	mg/l Ca		28
	Sulphate	mg/l SO4	< 250	56
**	Total Organic Carbon	mg/l C		3.8
	Turbidity	NTU		0.6
	Turbidity - Works	NTU		0.5

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Parameter	Units	Limits	
** Boron	µg/l	< 1000	13
** Sodium	mg/l	< 200	41
** Aluminium	µg/l	< 200	140
** Chromium	µg/l	< 50	<1.0
** Iron	µg/l	< 200	140
** Manganese	µg/l	< 50	35
** Nickel	µg/l	< 20	2.3
** Copper	mg/l	< 2	0.01
** Arsenic	µg/l	< 10	1.2
** Selenium	µg/l	< 10	<1.0
** Cadmium	µg/l	< 5	<0.020
** Lead	µg/l	< 25	1.8
** Antimony	µg/l	< 5	<1.0
** Mercury	µg/l		<0.050
Benzene	ug/l	< 1	<0.60
** Benzo(a)pyrene	ug/l	< 0.01	<0.001
** Total PAH	ug/l	< 0.1	<0.001
** Total Pesticides	ug/l	< 0.5	0.165
1,2-Dichloroethane	ug/l	< 3	<0.60
Trichloroethene	ug/l		<0.20
Tetrachloroethene	ug/l		<0.70
Tetrachloroethane+Trichloroethene	µg/l	< 10	<0.7
Bromodichloromethane	µg/l		21.5
Bromoform	µg/l		<0.6
Chloroform	µg/l		70.7
Dibromochloromethane	µg/l		4.5
Total Trihalomethanes	µg/l	< 100	96.8

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| 1) Results highlighted and in bold exceed specified limits. | 8) tntc "Too numerous to count" |
| 2) Uncertainty of measurement values have been assigned for each parameter and those for accredited tests are provided in a separate document. | 9) fqc Indicates that the testing did not meet the quality control criteria as required by INAB and therefore the result cannot be reported. |
| 3) All metals analysed in EPA Richview Laboratory. All Total Nitrogens analysed in EPA Kilkenny Laboratory. PAH's, Bromates, Phenols, Pesticides, Atrazine, Simazine and Surfactants are sub-contracted to either Alcontrol Laboratories or TMS Environment Ltd. | 10) F "Field measured parameters" |
| 4) nm "Not measured" | 11) "***" indicates paramters/results produced from non-accredited analytical methods. |
| 5) nd "None detected" | 12) Test Reports relate only to the samples tested and as described on report form. |
| 6) nt "No time" - Time not recorded | 13) Test Reports shall not be reproduced, except in full, without the consent of the EPA. |
| 7) nr "Not reported" | 14) The laboratory is accredited by the INAB only for the parameters listed in the scope of Accreditation. |
| | 15) Coliform Bacteria = Total Coliforms; E.Coli = Faecal Coliforms. |
| | 16) ATC = Acceptable To Consumers |

Signed: 

Date: 04/Dec/2014

Ray Smith
Regional Manager,
EPA
Monaghan