

## 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:** 01/09/14

**Location sampled:** Drum P.W.S

Date collected: 07/07/2014

Date received: 07/07/2014

Analysis group: DW AUDIT

Comments:

			<b>Laboratory Ref:</b>	1412106
			<b>Type of sample:</b>	Drinking Water
			<b>Sampling point:</b>	Stewart, Drum
			<b>Sampled by:</b>	John Quinn
			<b>Time Sampled:</b>	nt
			<b>Start/End - Dates of Analysis:</b>	08-07-14/28-08-14
			<b>Grid Ref:</b>	256270 317353
			<b>Status of results:</b>	<b>Final</b>
Parameter	Units	Limits		
F ** Residual Chlorine	mg/l Cl			0.06
F ** Taste				ATC
F ** Odour				nd
pH	pH	> 6.5 And < 9.5		7.7
True Colour	Hazen			9
Conductivity @25°C	µS/cm @ 25	< 2760		385
Conductivity @20°C	µS/cm @ 20	< 2500		348
** 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			3
** Enterococci	No/100ml	0		0
Chloride	mg/l Cl	< 250		39
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		<0.150
Total Hardness (as Ca)	mg/l Ca			36
Sulphate	mg/l SO4	< 250		40.9
** Total Organic Carbon	mg/l C			2.3
Turbidity	NTU			<0.5
Turbidity - Works	NTU			<0.5

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Parameter	Units	Limits	
** Boron	µg/l	< 1000	11
** Sodium	mg/l	< 200	40
** Aluminium	µg/l	< 200	<10.0
** Chromium	µg/l	< 50	<1.0
** Iron	µg/l	< 200	25
** Manganese	µg/l	< 50	<5.0
** Nickel	µg/l	< 20	3.9
** Copper	mg/l	< 2	0.06
** Arsenic	µg/l	< 10	<1.0
** Selenium	µg/l	< 10	<1.0
** Cadmium	µg/l	< 5	<0.020
** Lead	µg/l	< 25	<1.0
** 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	0.011
1,2-Dichloroethane	ug/l	< 3	<0.60
Trichloroethene	ug/l		<0.20
Tetrachloroethene	ug/l		<0.70
Tetrachloroethane+Trichloroethene	µg/l	< 10	0.9
Bromodichloromethane	µg/l		16.9
Bromoform	µg/l		<0.6
Chloroform	µg/l		29.8
Dibromochloromethane	µg/l		6.3
Total Trihalomethanes	µg/l	< 100	53.4

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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:

*Ray Smith*

Date:

01/Sep/2014

Ray Smith  
Regional Manager,  
EPA  
Monaghan