

K W W WATER

OFFICIAL PUBLIC ANALYST'S LABORATORY REPORT



Feidhmeannacht na Seirbhíse Sláinte  
Health Service Executive

Dr. Pdraig Burke, A/I Public Analysts (Regional)  
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Public Analyst's Laboratory,  
University Hospital,  
Seamus Quirke Road,  
Galway, Ireland

Lab Ref Number: W2055-2020

Date Printed: 28/09/2020

For Parametric Values/Ranges see Drinking Water Regulations S.I. No. 122 of 2014

#Name of Supply: Kiltiernan GWS Authority Private  
#Sampling Point: Kiltiernan Water Scheme Treatment Plant - Raw  
#Requested by: Michael Murphy EPA Ref No. 1200PRI1056  
Receipt Number Repeat  
#Date & Time Sampled 03/09/2020 10:30:00 Date Received: 03-September-2020

REPORT TO: Michael Murphy  
Caheradoo  
Kilcolgan  
Co. Galway

Test No.	Parameter	Parametric Value	Method No.	Units	Result	Date Tested
38 *	Odour	Acceptable to consumers and no abnormal change.	2/3		None Detected	04/09/2020
33	Colour Pt-Co		2/6	mg/L	4.0	
46	Turbidity		2/7	NTU	0.3	
35	Hydrogen Ion	6.5 - 9.5	2/9	pH Units	7.1	
34	Conductivity @ 20°C	2500	2/8	µS/cm	637	
29	Aluminium as Al	200	2/46	µg/L	<20	
20	Nitrate as NO <sub>3</sub>	50	2/37	mg/L	11.9	
21	Nitrite as NO <sub>2</sub>	0.50	2/37	mg/L	<0.02	
30	Ammonium as NH <sub>4</sub>	0.30	2/37	mg/L	0.04	
36	Iron as Fe	200	2/46	µg/L	47	
37	Manganese as Mn	50	2/46	µg/L	<20	
12	Copper as Cu	2	2/46	mg/L	<0.04	
4	*Antimony as Sb	5.0	2/46	µg/L	<1.0	
10	Cadmium as Cd	5	2/46	µg/L	<1.0	
17	Lead as Pb	10	2/46	µg/L	<4.0	
5	Arsenic as As	10	2/46	µg/L	<4.0	
11	Chromium as Cr	50	2/46	µg/L	<4.0	
19	Nickel as Ni	20	2/46	µg/L	<4.0	
25	Selenium as Se	10	2/46	µg/L	<4.0	
8	Boron as B	1.0	2/46	mg/L	0.02	
	Zinc as Zn		2/46	mg/L	<0.04	
	Total Hardness as CaCO <sub>3</sub>		2/30	mg/L	389	
	Total Alkalinity as CaCO <sub>3</sub>		2/30	mg/L	298	
	Chloride as Cl	250	2/30	mg/L	30	
40	Sulphate as SO <sub>4</sub>	250	2/30	mg/L	<20	
41 *	Sodium as Na	200	2/38	mg/L	16	
	*Potassium as K		2/39	mg/L	5	

\*Remarks

The chemical analysis denotes excessively hard water. The parameters analysed comply with the Drinking Water Regulation limits. This water sample has been tested for the chemical analysis shown. This laboratory does not perform microbiology analysis.



Gayle Kealy

Report Status Authorised

Dr. Gayle Kealy  
Executive Analytical Chemist

\*Denotes a non-accredited Test. #This data is provided to the laboratory by the customer in the first instance.

Note 1: This report shall not be reproduced except in full, without written approval of the laboratory

Note 2: This test report relates only to the sample tested, as received.

Note 3: Any opinions, remarks and/or interpretations expressed above are outside the scope of accreditation

Note 4: The parametric value for Nitrite is 0.10 mg/L when the sample is taken at the Water Treatment Works

Blue type indicates a result that does not comply with the Parametric Value or Range & is outside the scope of accreditation.

Red type indicates a result that does not comply with the Parametric Value or Range.

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Lab Ref Number: W2054-2020

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#Name of Supply: Kiltiernan GWS	Authority	Private
#Sampling Point: Michael J Murphy Kitchen Tap - Treated		
#Requested by: Michael Murphy	EPA Ref No.	1200PRI1056
	Receipt Number	Repeat
#Date & Time Sampled 03/09/2020 11:30:00	Date Received:	03-September-2020

REPORT TO: Michael Murphy  
Caheradoo  
Kilcolgan  
Co. Galway

Test No.	Parameter	Parametric Value	Method No.	Units	Result	Date Tested
38*	Odour	Acceptable to consumers and no abnormal change.	2/3		Chlorine	04/09/2020
33	Colour Pt-Co		2/6	mg/L	2.0	
46	Turbidity		2/7	NTU	<0.2	
35	Hydrogen Ion	6.5 - 9.5	2/9	pH Units	7.2	
34	Conductivity @ 20°C	2500	2/8	µS/cm	699	
29	Aluminium as Al	200	2/46	µg/L	<20	
20	Nitrate as NO <sub>3</sub>	50	2/37	mg/L	23.3	
21	Nitrite as NO <sub>2</sub>	0.50	2/37	mg/L	<0.02	
30	Ammonium as NH <sub>4</sub>	0.30	2/37	mg/L	0.05	
36	Iron as Fe	200	2/46	µg/L	24	
37	Manganese as Mn	50	2/46	µg/L	<20	
12	Copper as Cu	2	2/46	mg/L	<0.04	
4	*Antimony as Sb	5.0	2/46	µg/L	<1.0	
10	Cadmium as Cd	5	2/46	µg/L	<1.0	
17	Lead as Pb	10	2/46	µg/L	<4.0	
5	Arsenic as As	10	2/46	µg/L	<4.0	
11	Chromium as Cr	50	2/46	µg/L	<4.0	
19	Nickel as Ni	20	2/46	µg/L	<4.0	
25	Selenium as Se	10	2/46	µg/L	<4.0	
8	Boron as B	1.0	2/46	mg/L	0.02	
	Zinc as Zn		2/46	mg/L	<0.04	
	Total Hardness as CaCO <sub>3</sub>		2/30	mg/L	404	
	Total Alkalinity as CaCO <sub>3</sub>		2/30	mg/L	299	
	Chloride as Cl	250	2/30	mg/L	46	
40	Sulphate as SO <sub>4</sub>	250	2/30	mg/L	<20	
41*	Sodium as Na	200	2/38	mg/L	23	
	*Potassium as K		2/39	mg/L	8	
	Free Chlorine as Cl		2/10	mg/L	0.10	04/09/2020

**\*Remarks**

The chemical analysis denotes excessively hard water. The parameters analysed comply with the Drinking Water Regulation limits. This water sample has been tested for the chemical analysis shown. This laboratory does not perform microbiology analysis.



*Gayle Kealy*

Report Status: Authorised

Dr. Gayle Kealy  
Executive Analytical Chemist

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TREATED WATER



Telephone: **Water Lab:** (091) 544954 **Food Lab:** (091) 544786 **Lab Office** (091) 544916 Fax: (091) 542238

**Report Number.: W-1218/20** **Issue Date:** 04/09/2020 **Page 1 of 1**

**Sanitary Authority:** Private Supply **SPS Sample:** Not Applicable  
**Supply Code:** **Date of Sampling:** 03-Sep-2020  
**Name of Supply:** Kiltiernan Group Water Scheme **Reason for Sampling:** Not applicable  
**Sampling Point:** Michael Murphy, Caheradoo, Kilcolgan, Co. Galway. (Kitchen Tap)  
**Sample Taken by:** Michael Murphy  
**Report to:** Michael Murphy, Caheradoo, Kilcolgan, Co. Galway.  
**Water Sample Type:** Old Bore  
**Treatment Status:** Chlorinated and UV light **Temp of Water at Sampling Point:**

**Residual Chlorine:** ppm **Total Chlorine:** ppm

Note: All the information in the previous section, (including measurements), is supplied by the customer to the laboratory

**WATER ANALYTICAL TEST REPORT**

**Date Received:** 03-Sep-2020 **Date Analysed:** 03-Sep-2020

**Condition of Sample on Receipt:** Satisfactory

TEST	Lab Method No.	TEST Specification	RESULT	UNITS
MPN of Coliforms per 100mls	W18	Based on Env Agency UK: SCA MDW (2016) Part 4D	not detected	MPN per 100ml
MPN of E.coli per 100mls	W18	Based on Env Agency UK: SCA MDW (2016) Part 4D	not detected	MPN per 100ml

**Test Report Comment\***

At the time of sampling this water was acceptable with respect to the bacteriological parameters assessed. This result does not exclude the possibility that the water could contain infectious virus, parasites or chemical contaminants.

**Note:** This report and the test results contained therein apply to the sample as received in the laboratory. All testing was carried out at our premises in the Public Health Microbiology Laboratory - University Hospital Galway, Newcastle Road, Galway, unless otherwise stated.

*Linda Weldon*  
**Authorised by:** Linda Weldon,  
Quality Manager

*[Signature]*  
**Certified by:** Dimitar Nashev,  
Consultant Microbiologist

**THIS REPORT RELATES ONLY TO THE ITEMS TESTED AND SHALL NOT BE REPRODUCED EXCEPT IN FULL, AND WITH THE APPROVAL OF THE WATER TESTING SECTION, PUBLIC HEALTH MICROBIOLOGY LABORATORY, MEDICAL MICROBIOLOGY DEPARTMENT, UNIVERSITY HOSPITAL GALWAY.**

**\* DENOTES NON-ACCREDITED TEST OR REPORT COMMENT**