

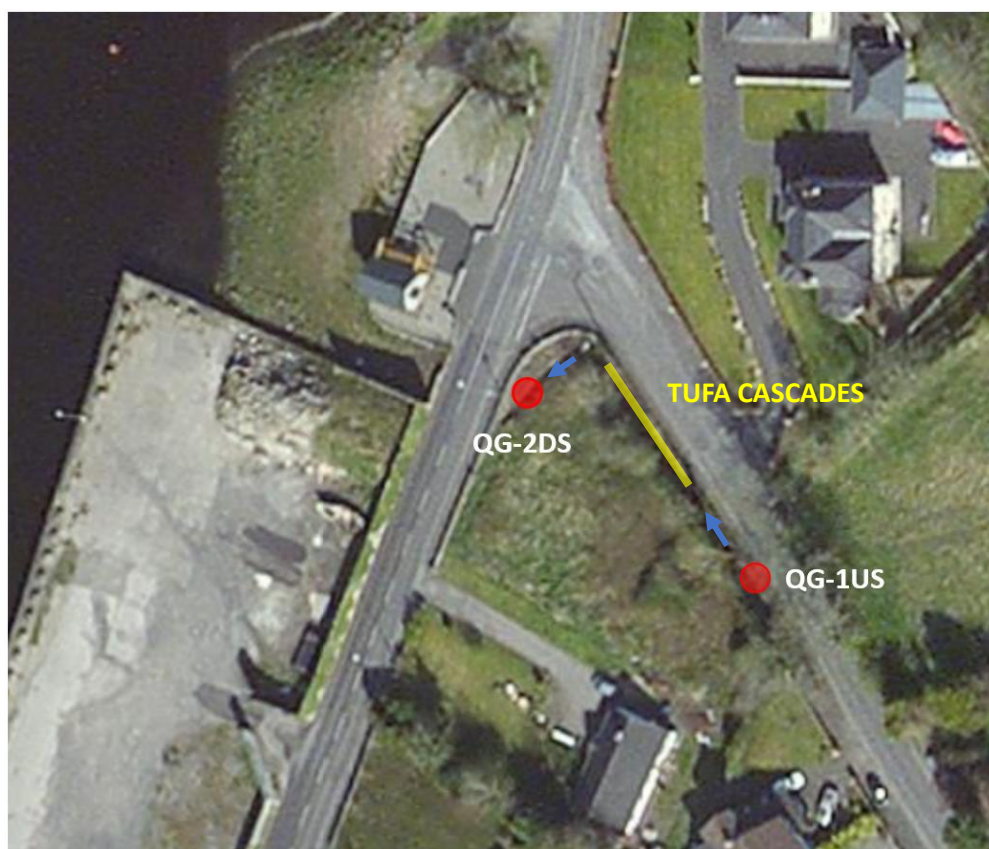
# 9.7 Quignamanger Water Samples

## Appendix 9.7 Quignamanger Water Sample Results

**Table A9.7.1 Quignamanger water sample results (12 September 2023)**

Impact Duration	QG 1US	QG 2DS		
Sample Date	12/09/2023	12/09/2023		
Sample Time	16:00:00	15:45:00		
Location	At flap valve on existing Cregg Rd culvert	2.5m u/s Quay Rd culvert		
Easting	525773	525741		
Northing	821144	821171		
			<b>Difference</b>	<b>*LOQ</b>
Dissolved Oxygen (% saturation)	97.8	98.2	-0.4	~
Dissolved Oxygen (mg/l O <sub>2</sub> )	10	9.87	0.13	~
Temperature (°C)	14.3	15.4	-1.1	~
pH	8.1	8.1	0	4
Conductivity @20°C (µS/cm)	615	621	-6	15
Alkalinity (mg/l as CaCO <sub>3</sub> )	317.3	316.1	1.2	5
Total Oxidized Nitrogen (TON) as N (mg/l)	1.34	1.36	-0.02	0.2
Orthophosphate as P (mg/l)	<0.01	<0.01	0	0.01
Total Hardness (mg CaCO <sub>3</sub> /l)	322	330	-8	5

\*LOQ = Limit of Quantification



**Figure A9.7.1 Quignamanger Water sample locations**



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<b>Customer Sample Ref:</b>	QG-1US	<b>Customer Sample Code:</b>	
<b>Project:</b>	Surface Water Analysis	<b>Sampled By:</b>	Lauren Williams
<b>Our Reference:</b>	103542 (23-32885)	<b>Sample Matrix:</b>	Surface Water
<b>Date Sampled:</b>	12/09/2023	<b>Time Sampled:</b>	15:45

Method:	Parameter:	Units	LOQ	Result
<b>Chemical Analysis: (F)</b>				
SCP 052	Hydrogen Ion (pH)	pH units	4.0	8.1
SCP 052	Conductivity	µS/cm @ 20 °C	15	615
SCP 027H	Alkalinity	mg/L as CaCO <sub>3</sub>	5.0	317.3
SCP 027E	Total Oxidised Nitrogen (TON)	mg/L N	0.20	1.34
SCP 027C	Orthophosphate	mg/L P	0.01	< 0.01
SCP 027I	Total Hardness	mg/L CaCO <sub>3</sub>	5	322



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<b>Customer Sample Ref:</b>	QG-2DS	<b>Customer Sample Code:</b>	
<b>Project:</b>	Surface Water Analysis	<b>Sampled By:</b>	Lauren Williams
<b>Our Reference:</b>	103543 (23-32885)	<b>Sample Matrix:</b>	Surface Water
<b>Date Sampled:</b>	12/09/2023	<b>Time Sampled:</b>	16:00

Method:	Parameter:	Units	LOQ	Result
<b>Chemical Analysis: (F)</b>				
SCP 052	Hydrogen Ion (pH)	pH units	4.0	8.1
SCP 052	Conductivity	µS/cm @ 20 °C	15	621
SCP 027H	Alkalinity	mg/L as CaCO <sub>3</sub>	5.0	316.1
SCP 027E	Total Oxidised Nitrogen (TON)	mg/L N	0.20	1.36
SCP 027C	Orthophosphate	mg/L P	0.01	< 0.01
SCP 027I	Total Hardness	mg/L CaCO <sub>3</sub>	5	330