Guernsey Water
Water Quality Report

2021

GuernseyWater

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CONTENTS

OUR 7 OUTCOMES

Our vision is focused on the value of our core business which is water and wastewater service provision.

“Customers always value the quality of our drinking water and the safe return of our wastewater to the environment.”

DRINKING WATER OF CHOICE

The quality, sustainability and availability of our water makes it the drinking water of choice

- **Customers trust that our drinking water meets the highest standards, looks and tastes good**
- **Invest in efficient and sustainable water treatment to improve drinking water**
- **Ensure our drinking water is available to everyone**

100%

COMPLIANCE WITH DRINKING WATER STANDARDS

In 2021, Guernsey Water provided 4,416 mega litres of safe and high quality drinking water (over 4 times the volume of St Saviours Reservoir) to its customers.

Protecting public health with clean, fresh, wholesome drinking water is vitally important to Guernsey Water and in 2021 we conducted 7,023 laboratory analyses on compliance samples taken at water treatment works, service reservoirs and in the distribution system. These samples verify that the water produced at treatment works and supplied to customers complies with the standards set out in the regulations we follow as best practice.

Many more samples were analysed both in laboratories and onsite for operational reasons over and above these compliance samples, providing additional checks and monitoring of the performance of our assets.

The quality of water supplied was excellent with 100% of 7,023 analyses meeting the prescribed standards. The achievement of such a high compliance figure is due to the collective technical expertise of our staff that covers all aspects of the science and engineering of the public water supply.

Safe, clean drinking water is vital to public health and the wellbeing of our island. This is ever more important in the face of significant challenges to drinking water supplies from the impacts of climate change on the quality and availability of water resources. It is essential that good quality drinking water, and the investment by Guernsey Water necessary to achieve it is maintained into the future.

2021 Water Quality Key Performance Indicators

- Achieve 99.5% compliance for Prescribed Concentration or Values (PCVs) at Water Treatment Works
- Achieve 99% compliance for PCVs at service reservoirs
- Achieve 99% compliance for Maximum Admissible Concentrations at customer taps

Guernsey Water has achieved its 2021 water quality targets, however, the work we are doing to improve water quality continues. Guernsey Water continues to provide safe, high quality drinking water to the satisfaction of its customers. There are a small number of occasions where water quality does not meet the high standard we expect and our customers deserve. We will continue to investigate and strive to eliminate these to further improve the quality of Guernsey's public drinking water supplies.

Tests taken from Guernsey Water's 3 operational treatment works, 3 service reservoirs, water tower and 1 water supply zone show that 100% of the 7,023 analyses met all national and European Union standards.

This shows an increase in compliance compared to the 2020 figure, which was 99.95%.

Guernsey Water is regulated by the Director of Environmental Health and Pollution Regulation (DEHPR), with the current standard by which water quality is measured taken from England and Wales in the form of The Water Supply (Water Quality) Regulations, 2018. The regulations set out the parameters to be analysed for (Appendix A) and the required frequency of testing.

STEPHEN LANGLOIS
MANAGING DIRECTOR

SUMMARY

In 2021 there were no breaches at any of the three water treatment works serving the island - Kings Mills, Juas and St Saviour.

Compliance with bacterial standards at the Island's three service reservoirs was slightly higher than in 2020 at 100%.

We have in 2021 continued with the programme of works at our Forest Road site to improve the water storage resilience.

Supply zones (customer tap samples) were sampled via monitoring points due to the covid pandemic. The decision being made early in 2020 to stop going into customers properties.

We regularly analyse for a wide range of pesticides. There were no breaches of the 0.1µg/l limit observed in 2021.

We have continued to monitor our streams regularly for the presence of glyphosate which is regularly detected and at present remains a risk, and we will continue to monitor for this parameter in 2022 to ensure that the levels we find are of no concern to our treatment processes.

Perfluorooctane sulphonate (PFOS) has been monitored on a regular basis both in the raw water in St Saviour's Reservoir and treated water leaving St Saviour water treatment works. The maximum result detected in the treated water analysis was 0.0509µg/l (ppb) which is within Tier 1 of the guidance issued by the UK DWI on PFOS. This was lower than the levels detected in 2020.

Categorisation as Tier 1 merely recognises that there may be a potential hazard which should as a minimum be considered by a risk assessment. Guernsey Water has gone much further than this to ensure the protection of drinking water quality by working closely with the DEHPR and other States of Guernsey Departments to actively reduce PFOS levels found in raw water through the treatment of stream water from affected catchments as well as the removal and containment of contaminated soils.

The affected catchments have also been closely monitored and measures put in place (such as stream diverts) to minimise levels in raw waters. In 2021 the maximum detected PFOS concentration recorded in the raw water stored at St Saviours Reservoir was 0.0427µg/l, slightly lower than the0.0613µg/l recorded in 2020.

There was a decrease in the maximum PFOS concentration detected in samples collected from streams, from 3.21µg/l in 2020 to 2.47µg/l in 2021. This was due to a combination factors including ongoing remedial works at the airport and the natural variation in rainfall amounts.

There were a total of 29 water quality enquiries from customers in 2021 and 1 complaint regarding the taste and odour of the water supplied. Guernsey Water uses the same methodology for recording consumer contacts and enquiries regarding water quality as is used in England and Wales, whereby every contact is recorded and categorised to enable year on year comparison. This will remain an area of focus for improvement throughout our business planning period.

The implementation of Water Safety Planning in 2016, a proactive management system that aims to ensure clean, safe drinking water, continues to assist us in our aim of consistently supplying high quality drinking water to our customers. The updating and development of these plans will be ongoing throughout our business plan period, mirroring the improvements in planning across Europe and the United Kingdom.

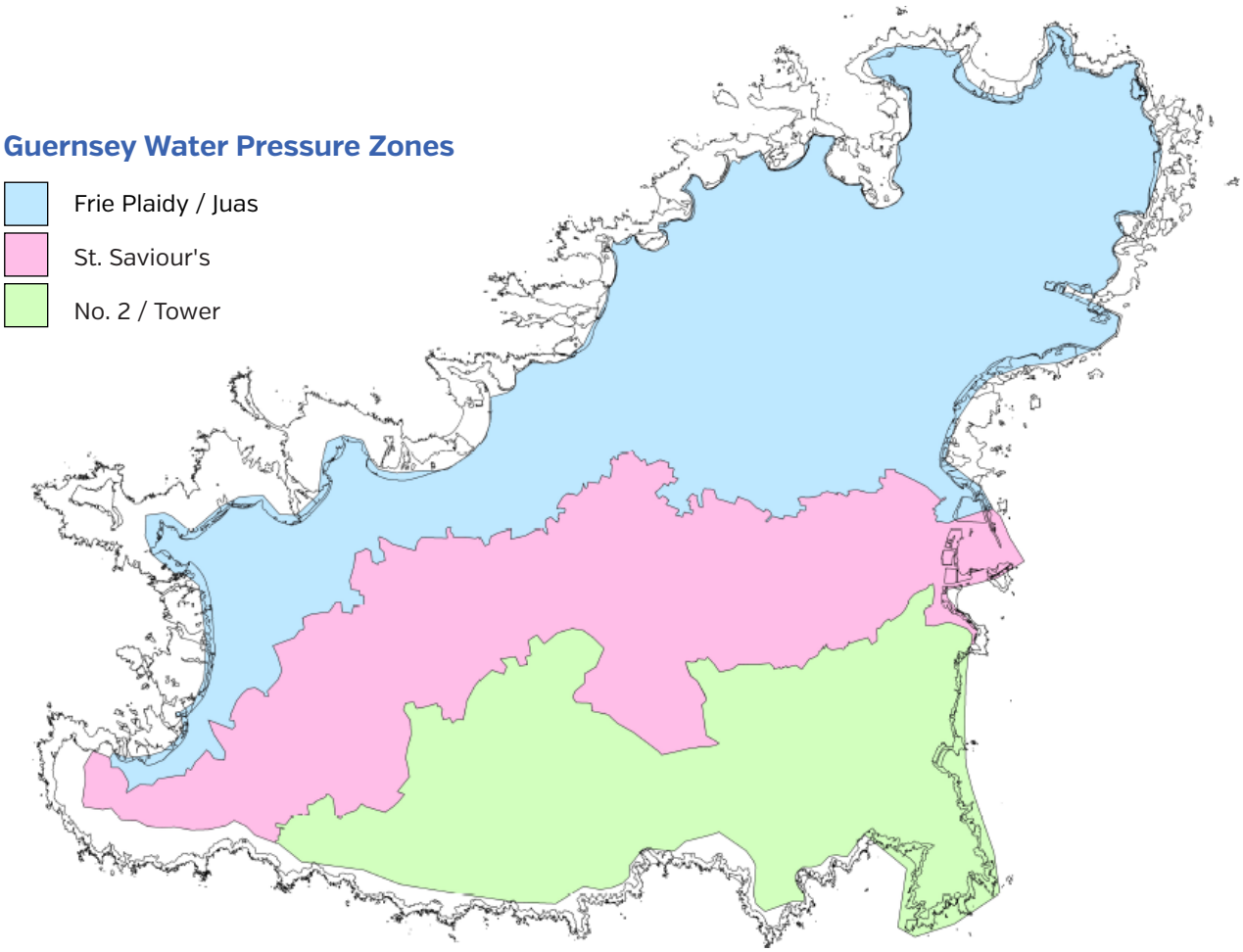
"Drinking water is vital for public health so we strive to provide safe, clean water at all times and in 2021 our water quality was excellent."

MARGARET McGUINNESS,
WATER QUALITY RISK MANAGER

INTRODUCTION

Treated Water

Guernsey Water operates using current Drinking Water Inspectorate regulations and guidance as best practice. This requires us to meet very high standards to satisfy our Regulator, the Director of Environmental Health and Pollution Regulation. Guernsey Water has 3 treatment works, 3 service reservoirs, a water tower and a single water supply zone.



2021 COMPLIANCE SUMMARY

Below is a breakdown of the compliance for 2021, as measured against The Water Supply (Water Quality) Regulations (2018).

Water Treatment Works

	St. Saviour's	Juas	Kings Mills	Total
No of Breaches	0	0	0	0
No of Passes	1660	1617	1624	4901
No of Samples	1660	1617	1624	4901
% Compliance	100.00%	100.00%	100.00%	100.00%

Service Reservoirs & Water Tower

	No. 2 East	No. 2 West	Frie Plaidy	Tower	Total
No of Breaches	0	0	0	0	0
No of Passes	60	104	104	104	372
No of Samples	60	104	104	104	372
% Compliance	100.00%	100.00%	100.00%	100.00%	100.00%

Distribution Zones

	Single Zone
No of Breaches	0
No of Passes	523
No of Samples	523
% Compliance	100.00%

Overall Total – all parameters

	Total
No of Breaches	0
No of Passes	7023
No of Samples	7023
% Compliance	100.00%

Tables 1 to 11 have the breakdown of drinking water quality in the detailed format used by water companies in England and Wales and annually reported by the Drinking Water Inspectorate (DWI).

Raw Water

Raw water quality is closely monitored with analyses of streams and stored water in quarries and reservoirs. Raw water quality determines if water is collected and stored; in turn stored water is transferred to water treatment works based on water quality parameters to ensure that high quality water is supplied to our customers.

Nitrate levels in some streams are at the upper acceptable limit but through careful blending and storage, levels are reduced to ensure compliance with the prescribed limit of 50 mg/l for the provision of wholesome drinking water.

Tables 12 and 13 show the raw water quality that was observed in 2021 in the Island's various streams and storage reservoirs.

TREATED WATER SUMMARY

Treated Water 2021 Data Summary Tables

These tables contain a summary of results of treated water monitoring undertaken by Guernsey Water in 2021

Notes relating to the interpretation of the tables: -

The tables below show the maximum and minimum levels detected over the year. The symbol < indicates that the result was less than the limit of detection of the analytical method used. The symbol > indicates that the result was above the recording range of the analytical method used.

Table 1: Quality of water leaving treatment works - Directive requirements

Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of WTWs with failures
Nitrite	0.1 mg NO_2/l	21	0	<0.03	<0.03	0
TOTAL	-	21	0	-	-	0

Table 2: Quality of water leaving treatment works - National requirements

Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of WTWs with failures
Coliform Bacteria	0 number/100ml	485	0	0	0	0
E. coli	0 number/100ml	722	0	0	0	0
Cryptosporidium	oocysts <1 in 10 litres	6	0	<0.01	<0.02	0
TOTAL	-	1213	0	0	0	0

Table 3: Quality of water leaving treatment works - Additional monitoring requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	716	0	0	2
Turbidity	1 NTU	717	0	<0.01	0.83
TOTAL	-	1433	0	-	-

Table 4: Quality of water leaving service reservoirs - National requirements

Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100ml	186	0	0	0	0
E. coli	0 number/100ml	186	0	0	0	0
TOTAL		372	0	0	0	0

Table 5: Quality of water leaving service reservoirs - National requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C*	No abnormal change	289	0	0	110
TOTAL	-	289	0	0	110

*these are marked as n/a as they refer to changes observed and not a set numerical standard, they are linked to an internal standard.

Table 6a: Quality of water leaving bulk supply points - European Standards

Indicator Parameter	Prescribed Con-centration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of supply points failing standard
1,2 Dichloroethane	3 µg/L	9	0	<0.16	<0.16	0
Benzene	1 µg/L	9	0	<0.06	<0.09	0
Boron	1 mg B/L	7	0	72.50	91.70	0
Bromate	10 µg Br03/L	7	0	<0.15	<0.48	0
Cyanide	50 µg CN/L	15	0	<1.2	<5.5	0
Fluoride	1.5 mg F/L	7	0	<0.1	<0.12	0
Mercury	1 µg Hg/L	18	0	<0.01	<0.06	0
Tetrachloroethene / Trichloroethene	10 µg/L	9	0	0	0	0
TOTAL	-	81	0	-	-	0

Table 6b: Quality of water leaving bulk supply points - European Standards (pesticides)

Parameter	Prescribed Concetration or Value	Count of times detected	Tests Failed	Minimum	Maximum	No. of supply points failing standard
2,4-D	0.1 µg/L	4	0	<0.012	0.022	0
Atrazine	0.1 µg/L	0	0	<0.004	<0.005	0
Atrazine Desethyl	0.1 µg/L	0	0	<0.005	<0.006	0
Atrazine Desisopropyl	0.1 µg/L	0	0	<0.007	<0.008	0
Bentazone	0.1 µg/L	0	0	<0.002	<0.004	0
Bromoxynil	0.1 µg/L	0	0	<0.009	<0.009	0
Carbendazim	0.1 µg/L	6	0	<0.003	0.004	0
Clopyralid	0.1 µg/L	12	0	<0.011	0.025	0
Chloridazon	0.1 µg/L	0	0	<0.008	<0.011	0
Chlorpyriphos Ethyl	0.1 µg/L	0	0	<0.016	<0.016	0
Cynazine	0.1 µg/L	0	0	<0.006	<0.007	0
Dicamba	0.1 µg/L	0	0	<0.012	<0.014	0
Diflufenican	0.1 µg/L	0	0	<0.007	<0.009	0
Diuron	0.1 µg/L	0	0	<0.009	<0.010	0
Endrin	0.1 µg/L	0	0	<0.005	<0.012	0
Fenpropimorph	0.1 µg/L	0	0	<0.004	<0.005	0
Floroxypyr	0.1 µg/L	0	0	<0.009	0.012	0
MCPA	0.1 µg/L	1	0	<0.08	0.012	0
Glyphosate	0.1 µg/L	1	0	<0.005	0.028	
MCPP (Mecoprop)	0.1 µg/L	1	0	<0.007	0.007	0
Methabenzthiazuron	0.1 µg/L	0	0	<0.005	<0.006	0
Metoxuron	0.1 µg/L	0	0	<0.006	<0.007	0
Propazine	0.1 µg/L	0	0	<0.004	<0.007	0
Propiconazole	0.1 µg/L	0	0	<0.007	<0.007	0
Simazine	0.1 µg/L	0	0	<0.004	<0.005	0
Tebuconazole	0.1 µg/L	0	0	<0.005	<0.009	0
Terbuthylazine	0.1 µg/L	0	0	<0.003	<0.005	0
Terbutryn	0.1 µg/L	11	0	<0.003	>0.013	0
Triclopyr	0.1 µg/L	0	0	<0.002	<0.028	0
Aldrin	0.1 µg/L	0	0	<0.005	<0.005	0
Dieldrin	0.1 µg/L	0	0	<0.005	<0.009	0
Heptachlor	0.1 µg/L	0	0	<0.004	<0.005	0
Heptachlor epoxide	0.1 µg/L	0	0	<0.005	<0.007	0
Pesticides - Total Substances		15	0	0.00	0.077	0
Total		29	0			

Table 7: Quality of water leaving bulk supply points - National Standards

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of supply points failing standard
Tetrachloromethane	3 µg/L	9	0	<0.13	<0.16	0
TOTAL	-	9	0			0

Table 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of supply points failing standard
Clostridium Perfringens	0 number/100ml	22	0	0	0	0
Conductivity	2500 µS/cm	149	0	351	622	0
Radioactivity - Gross Alpha	0.1 Bq/L	3	0	<0.020	<0.022	0
Radioactivity - Gross Beta	1 Bq/L	3	0	0.109	0.156	0
Radioactivity - Tritium	100 Bq/L	3	0	<5.0	<5.0	0
Total Organic Carbon (TOC)	No abnormal change	147	0	0.30	3.30	0
Chloride	250mg/l	8	0	85	98	0
Sulphate	250mg SO_4/L	7	0	54	73	0
Total		342	0	-	-	0

Table 9: Quality of water at consumer's tap (zones) - European Standards[2]

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of zones with failures
Antimony	5 µg Sb/L	7	0	0.330	1.160	0
Arsenic	10 µg As/L	7	0	0.27	0.42	0
Benzo(a)pyrene	0.01 µg/L	7	0	<0.0057	<0.00057	0
Cadmium	5 µg Cd/L	7	0	<0.01	<0.03	0
Chromium	50 µg Cr/L	7	0	0.18	0.21	0
Copper	2000 µg Cu/L	7	0	<10.0	89.0	0
E. Coli	0 number/100ml	181	0	0	0	0
Enterococci	0 number/100ml	181	0	0	0	0
Lead	25 µg Pb/L	7	0	0.07	0.85	0
Nickel	20 µg Ni/L	7	0	0.65	4.03	0
Nitrate	50 mg NO3/L	7	0	11.7	29.1	0
Nitrite	0.5 mg NO2/L	7	0	<0.03	<0.03	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/L	7	0	0.000	0.003	0
Selenium	10 µg Se/L	7	0	<0.32	0.80	0
Trihalomethanes (THMs)	100 µg/L	9	0	0.00	99.64	0
TOTAL	-	455	0	-	-	0

[2]Customer tap samples were only sampled for part of the year due to the pandemic. The decision was made early in 2020 to stop going into customer's properties. Monitoring of water quality continued from fixed points in the supply network, in line with the rest of the industry, following agreement from the DWI.

Table 10: Quality of water at consumer's tap (zones) - National Standards

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/L	7	0	10.0	91.0	0
Colour	20 mg/L Pt/Co scale	42	0	<5	<5	0
pH	6.5 - 9.5 pH value	42	0	6.86	7.67	0
Iron	200 µg Fe/L	42	0	<5.23	147	0
Manganese	50 µg Mn/L	42	0	1.00	20.0	0
Organoleptic Odour	3 at 25°C dilution number	42	0	0	0	0
Organoleptic Taste	3 at 25°C dilution number	42	0	0	0	0
Sodium	200 mg Na/L	7	0	55	63	0
Turbidity	4 NTU	42	0	0.06	0.18	0
TOTAL	-	308	0	-	-	0

Table 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	**Prescribed Concentration or Value**	**Total number of tests**	**Tests Exceeding Specification**	**Minimum**	**Maximum**
Ammonium	0.5 mg NH_4/L	24	0	<0.01	0.04
Coliform Bacteria	0 number / 100ml	181	0	0	0
Colony Counts after 72 hours at 22°C*	No abnormal change	90	0	0	>300
Conductivity	2500uS/cm	43	0	512	589
TOTAL	-	338	0	-	-

RAW WATER SUMMARY

Raw Water 2021 Data Summary Tables

These tables contain a summary of results of raw water monitoring undertaken by Guernsey Water in 2021.

Notes relating to the interpretation of the tables: -

The symbol < indicates that the result was less than the limit of detection of the analytical method used. The symbol > indicates that the result was above the recording range of the analytical method used.

Table 12: Quality of water in Island streams - Monitoring

Indicator Parameter	Units of Measure	Total number of tests	Minimum	Maximum
Conductivity	µS/cm	179	238	2790
Nitrate	mg NO_3/L	179	1.0	69.1
Ammonia	mg NH_4/L	156	0.01	1.10
Phosphate	mg P/L	177	0.03	1.10
Total Organic Carbon [TOC]	mg C/L	7	3.3	9.3
Coliforms	number / 100ml	179	40	>100,000
E.Coli	number / 100ml	179	0	>100,000
Enterococci	number / 100ml	179	0	>10,000
TOTAL	-	1235	-	-

Table 13: Quality of stored water in quarries and reservoirs - Monitoring

Indicator Parameter	Units of Measure	Total number of tests	Minimum	Maximum
pH	pH value	24	7.37	9.94
Conductivity	µS/cm	24	493	668
Total Oxidised Nitrogen	mg NO_3/L	24	0.90	25.90
Ammonium	mg NH_4/L	18	0.01	0.18
Nitrite	mg NO_2/L	8	0.04	0.58
Chloride	mg Cl/L	24	63	102
Coliforms	number / 100ml	24	2	>100,000
E. Coli	number / 100ml	24	0	>100,000
Enterococci	number / 100ml	24	1	>10,000
Total Organic Carbon [TOC]	mg C/L	0	-	-
TOTAL	-	194	-	-

Perfluorooctane Sulfonate (PFOS)

Since 2007 PFOS has been monitored in raw and treated water in accordance with guidance from DWI who set the 'wholesomeness' value as 1.0 µg/l. Guernsey Water has used its available water resources to manage the levels of PFOS in water leaving St Saviours water treatment works. The tables below provide a breakdown of the levels of PFOS observed in 2021 in drinking water from St Saviour water treatment works, St Saviour's reservoir and affected stream systems.

Table 14: Quality of water leaving treatment works - PFOS

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Perfluorooctane sulfonate (PFOS)	1.0 µg $C_8HF_{17}O_3S$/L	37	0	0.0126	0.0509
TOTAL		37	0		

Table 15: Quality of water in St. Saviour's Reservoir - PFOS

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Perfluorooctane sulfonate (PFOS)	1.0 µg $C_8HF_{17}O_3S$/L	25	0.0180	0.0427
TOTAL		25		

Table 16: Quality of water in Island streams - PFOS

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Perfluorooctane sulfonate (PFOS)	1.0 µg $C_8HF_{17}O_3S$/L	80	<0.005	2.4700
TOTAL		80		

WATER CATCHMENT

2021 Water Catchment Area Nitrate Loadings

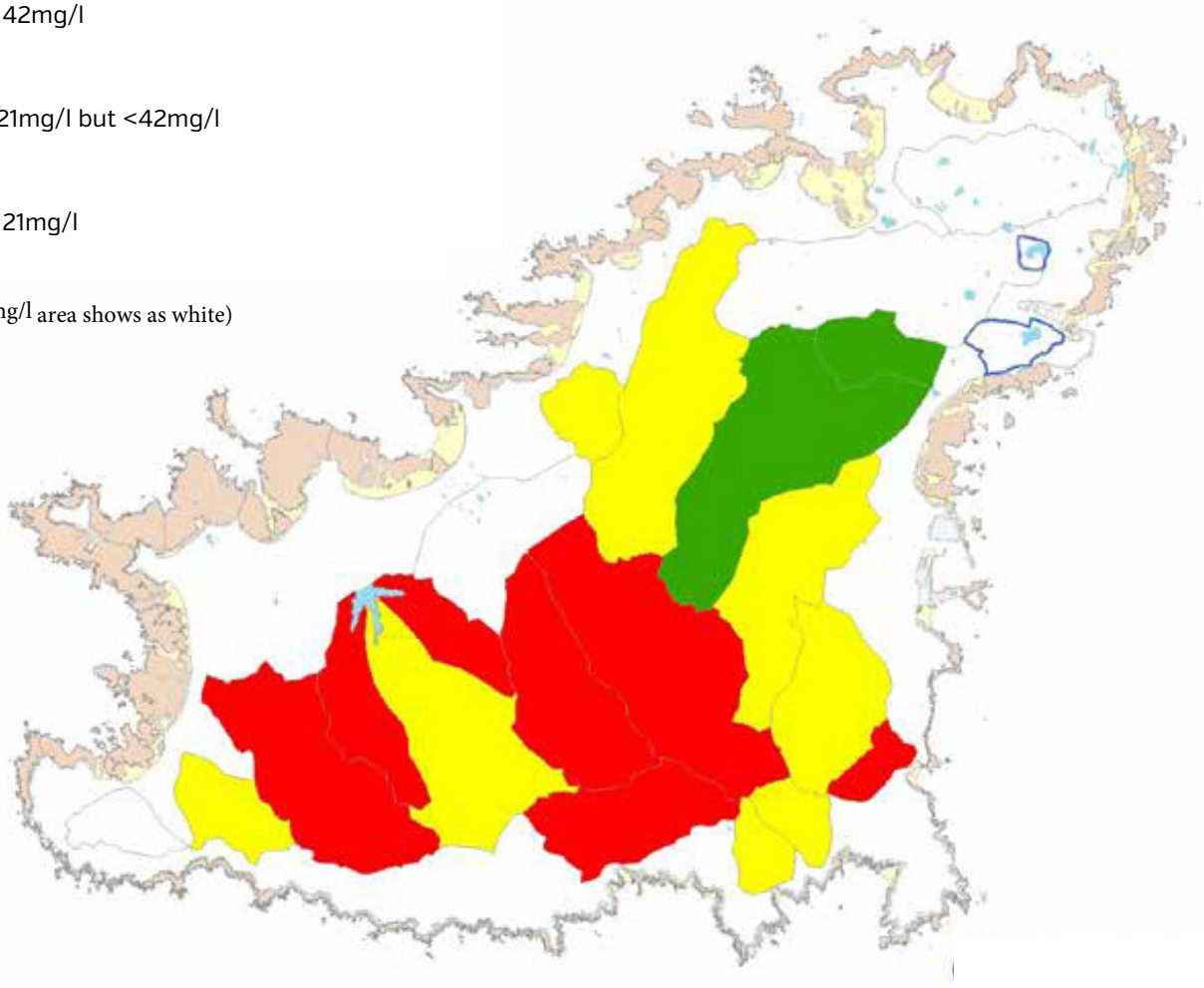
The 2021 nitrate loadings have been evaluated to produce a nitrate map showing the level of nitrates in each catchment area.

Nitrate > 42mg/l

Nitrate >21mg/l but <42mg/l

Nitrate < 21mg/l

(Nitrate < 10mg/l area shows as white)



*this lower level has been set to ensure that nitrate loadings decrease over time.

Table 18: Quality of water in Island streams – Nitrate

Catchment Area	5th Percentile (mg/L)	Mean (mg/L)	95th Percentile (mg/L)
Beau Vallee	17.3	17.3	28.1
Charroterie	16.1	16.1	31.5
Choffins	27.0	27.0	58.3
Cobo	11.2	11.2	34.9
Douit du Moulin	14.0	14.0	58.6
Fauxquets	21.1	21.1	43.8
Fermain	51.2	51.2	66.9
Les Clercs	13.4	19.1	25.8
Les Nicolles	2.6	5.4	10.3
Marais Stream	1.0	6.5	16.3
Mare De Carteret	16.4	23.9	31.6
Moulin Huet	22.5	29.5	35.9
Padins	5.6	33.6	43.2
Petit Bot	18.2	40.0	58.8
Saints	20.1	27.4	37.9
Talbots	27.0	36.1	44.3
Vale Pond	1.7	4.1	6.5
Vielle Marais	1.7	3.2	6.0
Vrangue	8.3	16.5	25.1

APPENDIX 1

Table 19: Listed parameters Guernsey Water samples for and prescribed concentration or values

Bacteriology Parameter	Prescribed Concentration or Value
Clostridium perfringens	0 number/100ml
Coliforms	0 number/100ml
Colony Count cfu /mL 22°C / 72 hr	No abnormal change
Cryptosporidium	oocyst >1 in 10 litres
E. coli	0 number/100ml
Enterococci	0 number/100ml

Chemistry Parameter	Prescribed Concentration or Value
1,2-Dichloroethane	3 µg/L
Aluminium	200 µg/L Al
Ammonium	0.5 mg/L NH_4
Antimony	5 µg/L Sb
Arsenic	10 µg/L As
Benxo(a)pyrene	0.01 µg/L
Benzene	1 µg/L
Boron	1000 µg/L B
Bromate	10 µg/L $Br0_3$
Cadmium	5 µg/L Cd
Chloride	250 mg/L Cl
Chromium	50 µg/L Cr
Colour	20 mg/L Pt/Co
Conductivity	2500 µS/cm
Cyanide	50 µg/L CN
Fluoride	1.5 mg/L F
Iron	200 µg/L Fe
Manganese	50 µg/L Mn
Mercury	1 µg/L Hg
Nitrate	50 mg/L N03
Nitrate / Nitrite Formula	1 mg/L NO_2
Nitrite (treatment works)	0.1 mg/L NO_2
Nitrite (consumers' tap)	0.5 mg/L NO_2
Organoleptic Odour	3 at 25°C dilution number
Organoleptic Taste	3 at 25°C dilution number

Chemistry Parameter	Prescribed Concentration or Value
PAH Total	0.1 µg/L
pH	6.5 - 10.0
Radioactivity - Gross alpha	0.5 Bq/L
Radioactivity - Gross beta	1 Bq/L
Radon	100 Bq/L
Residual Disinfectant - Free Chlorine mg/L	No abnormal change
Residual Disinfectant - Total Chlorine mg/L	No abnormal change
Selenium	10 µg/L Se
Sodium	200 mg/L Na
Sulphate	250 mg/L SO_4
Tetra/Trichloroethene	10 µg/L
Tetrachloromethane	3 µg/L
THMs Total	100 µg/L
Total Organic Carbon (TOC) mg/L C	No abnormal change
Tritium	100 Bq/L
Turbidity (treatment works)	1 NTU
Turbidity (consumer's tap)	4 NTU

Pesticides	
Aldrin	0.03 µg/L
Dieldrin	0.03 µg/L
Heptachlor	0.03 µg/L
Heptachlor epoxide	0.03 µg/L
Individual Pesticides	0.1 µg/L
Total Pesticides	0.5 µg/L

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