

Fapas[®]

**Water and
Environmental –
Microbiology**

Proficiency Testing
Programme

Jan 2019 – Mar 2020



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Proficiency Testing from **fera**



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HOW TO USE THIS DOCUMENT

This document lists all the food chemistry proficiency tests (PTs) we have planned for the period January 2019 to March 2020 inclusive. It is provided as an off-line companion to our on-line ordering system on our website at fapas.com/shop. Our website will always be the most up to date source of information and thus the **data on the website is definitive**.

Our water and environmental microbiological PTs are grouped by target organism and then by the date the test materials will be dispatched to customers.

The **dispatch date** shown is the planned date on which the samples will be shipped from Fapas® to participants. An automatic email announcing the dispatch is sent to the contact named that for that test. Participants select this contact during the on-line ordering process. Several different PTs are dispatched on any given date. These groups of PTs are known as 'Distributions'. These Distributions are presented in a grid layout in APPENDIX 1, APPENDIX 2, APPENDIX 3 and APPENDIX 4.

Each test has a **product code** and an **item code**.

- The product code is an alphanumeric description of the combination of matrix and analyte, it doesn't change from year to year, i.e. searching for the product codes of tests in the previous programme will find the equivalent tests this year.
- The item code is the *unique* reference for the test being dispatched on a given date.

The **fee** shown for each test is solely the cost of participating in that test. It does *not* include any carriage costs because these charges are applied to your complete order. When you place your order on-line you will see the carriage costs that are applicable. For those tests that are, by default, sent by regular post, you have the option of upgrading to courier. For tests where rapid delivery is essential the samples are automatically sent by courier and you cannot change this.

Fehler! Verweisquelle konnte nicht gefunden werden. provides some guidance on the process of ordering and taking delivery of a Fapas® PT. **Please note, the information in Fehler! Verweisquelle konnte nicht gefunden werden. does not constitute our Standard Terms & Conditions for Proficiency Testing Schemes, which are available on our website at fapas.com/terms-conditions.**

Fehler! Verweisquelle konnte nicht gefunden werden. gives the contact details of our International Agents. If there is an agent in your country you are advised to benefit from their services (assistance with ordering, invoicing in local currency and advising on potential sample import issues).



WATER AND ENVIRONMENTAL MICROBIOLOGY PROFICIENCY TESTING PROGRAMME

The Fapas® Water and Environmental proficiency testing scheme was originally dedicated to the drinking water supply industry but now incorporates related environmental testing. This includes waste water (effluent), surface water (rivers or lakes), high salinity (sea) water and soil. The drinking water microbiology scheme covers water-borne bacteria and *Legionella* in its own series of proficiency tests under environmental microbiology. Further tests covering the microbiology of environmental and recreational (swimming pool, spa and bathing waters) are also available. The parasitology tests cover both *Giardia* and *Cryptosporidium*.

The Fapas® Water and Environmental proficiency test samples are released as regular distributions throughout the year. This maximises the economy of shipping multiple samples to laboratories and provides sufficient frequency of participation.

For more general information on Fapas® proficiency testing as a whole, please see information available on our website: www.fapas.com.



DRINKING WATER MICROBIOLOGY

This section only covers our **drinking** water PTs. Our PTs for *Legionella* are detailed in a separate section on **environmental** water (page 12) and there is another section covering our other PTs in **environmental and recreational water** (page 13).

ENUMERATION TESTS

Total Coliforms and *E. Coli*

The samples supplied are lyophilised vials, which require reconstituting with your laboratory's own sterile deionised water. Depending on your order up to four samples may be supplied for each distribution.

PLEASE NOTE:

- All tests incur courier charges
- Registration / enrolment closes **four** weeks before the advertised dispatch date.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
22/01/2019	FWM01-DRW1	DWM0130	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	79
05/03/2019	FWM01-DRW1	DWM0131	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	79
15/04/2019	FWM01-DRW1	DWM0132	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
15/05/2019	FWM01-DRW1	DWM0133	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
12/06/2019	FWM01-DRW1	DWM0134	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
17/07/2019	FWM01-DRW1	DWM0135	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
11/09/2019	FWM01-DRW1	DWM0136	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
09/10/2019	FWM01-DRW1	DWM0137	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
06/11/2019	FWM01-DRW1	DWM0138	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
04/12/2019	FWM01-DRW1	DWM0139	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
22/01/2020	FWM01-DRW1	DWM0140	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
04/03/2020	FWM01-DRW1	DWM0141	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81

Available Samples

Sample	Organism	Comment
A	Total Coliforms, <i>Escherichia coli</i>	contains <i>Escherichia coli</i> and/or another coliform organism



Colony Counts

The samples supplied are lyophilised vials, which require reconstituting with your laboratory's own sterile deionised water. Depending on your order up to four samples may be supplied for each distribution

PLEASE NOTE:

- All tests incur courier charges
- Registration / enrolment closes **four** weeks before the advertised dispatch date.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
22/01/2019	FWMO2-DRW1	DWM0230	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	79
05/03/2019	FWMO2-DRW1	DWM0231	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	79
15/04/2019	FWMO2-DRW1	DWM0232	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
15/05/2019	FWMO2-DRW1	DWM0233	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
12/06/2019	FWMO2-DRW1	DWM0234	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
17/07/2019	FWMO2-DRW1	DWM0235	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
11/09/2019	FWMO2-DRW1	DWM0236	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
09/10/2019	FWMO2-DRW1	DWM0237	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
06/11/2019	FWMO2-DRW1	DWM0238	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
04/12/2019	FWMO2-DRW1	DWM0239	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
22/01/2020	FWMO2-DRW1	DWM0240	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81
04/03/2020	FWMO2-DRW1	DWM0241	lyophilised vial	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	1 vial	81

Available Samples

Sample	Organism	Comment
B	Colony Count (22°C/3 days), Colony Count (37°C/2 days)	



Enterococci, *Clostridium perfringens* and *Pseudomonas aeruginosa*

The samples supplied are lyophilised vials, which require reconstituting with your laboratory's own sterile deionised water. Depending on your order up to four samples may be supplied for each distribution

PLEASE NOTE:

- All tests incur courier charges
- Registration / enrolment closes **four** weeks before the advertised dispatch date.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
22/01/2019	FWMO3-DRW1	DWM0330	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	79
05/03/2019	FWMO3-DRW1	DWM0331	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	79
15/04/2019	FWMO3-DRW1	DWM0332	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
15/05/2019	FWMO3-DRW1	DWM0333	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
12/06/2019	FWMO3-DRW1	DWM0334	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
17/07/2019	FWMO3-DRW1	DWM0335	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
11/09/2019	FWMO3-DRW1	DWM0336	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
09/10/2019	FWMO3-DRW1	DWM0337	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
06/11/2019	FWMO3-DRW1	DWM0338	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
04/12/2019	FWMO3-DRW1	DWM0339	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
22/01/2020	FWMO3-DRW1	DWM0340	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81
04/03/2020	FWMO3-DRW1	DWM0341	lyophilised vial	Enterococci, <i>Clostridium perfringens</i> , <i>Pseudomonas aeruginosa</i>	1 vial	81

Available Samples

Sample	Organism	Comment
C	Enterococci together with <i>Clostridium perfringens</i> AND <i>Pseudomonas aeruginosa</i>	could contain another <i>Clostridium</i> / <i>Pseudomonas</i> species to test laboratories' ability to confirm <i>Clostridium perfringens</i> / <i>Pseudomonas aeruginosa</i>



DETECTION TESTS

Organism Identification

The samples supplied are lyophilised vials, which require reconstituting with your laboratory's own sterile deionised water. Depending on your order up to four samples may be supplied for each distribution

PLEASE NOTE:

- **All** tests incur courier charges
- Registration / enrolment closes **four** weeks before the advertised dispatch date.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
05/03/2019	FWMO4-DRW1	DWM0411	lyophilised vial	Organism Identification	1 vial	79
15/05/2019	FWMO4-DRW1	DWM0412	lyophilised vial	Organism Identification	1 vial	81
11/09/2019	FWMO4-DRW1	DWM0413	lyophilised vial	Organism Identification	1 vial	81
06/11/2019	FWMO4-DRW1	DWM0414	lyophilised vial	Organism Identification	1 vial	81
04/03/2020	FWMO4-DRW1	DWM0415	lyophilised vial	Organism Identification	1 vial	81

Available Samples

Sample	Organism	Comment
D	Organism Identification	requires rehydrating. These tests employ an organism that is routinely recovered from water, typically a Gram-negative rod-shaped organism BUT Fapas® reserves the right to use a Gram-positive organism.



DRINKING WATER PARASITOLOGY

Suspension A: To be used 'as received', i.e. this sample is designed to test *just* the counting aspect (by fluorescence microscopy and/or any other technique) of the determination of *Cryptosporidium* oocysts and/or *Giardia* cysts in a phosphate buffered saline (PBS) suspension.

Suspension B: This sample MUST first be diluted by participants (in 10 litres of tap water) and then tested by their routine analytical method, i.e. this sample is designed to test both the recovery from *and* the counting of *Cryptosporidium* oocysts and/or *Giardia* cysts in a phosphate buffered saline (PBS) suspension.

PLEASE NOTE:

- All tests incur courier charges
- Registration / enrolment closes **two** weeks before the advertised dispatch date.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
22/01/2019	FWPA1-DRW1	DWP0117	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	115
22/01/2019	FWPA2-DRW1	DWP0217	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	115
05/03/2019	FWPA1-DRW1	DWP0118	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	115
05/03/2019	FWPA2-DRW1	DWP0218	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	115
14/05/2019	FWPA1-DRW1	DWP0119	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
14/05/2019	FWPA2-DRW1	DWP0219	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
16/07/2019	FWPA1-DRW1	DWP0120	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
16/07/2019	FWPA2-DRW1	DWP0220	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
10/09/2019	FWPA1-DRW1	DWP0121	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
10/09/2019	FWPA2-DRW1	DWP0221	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
05/11/2019	FWPA1-DRW1	DWP0122	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
05/11/2019	FWPA2-DRW1	DWP0222	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
21/01/2020	FWPA1-DRW1	DWP0123	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
21/01/2020	FWPA2-DRW1	DWP0223	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
03/03/2020	FWPA1-DRW1	DWP0124	Suspension A	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116
03/03/2020	FWPA2-DRW1	DWP0224	Suspension B	<i>Cryptosporidium</i> oocysts, <i>Giardia</i> cysts	1 vial	116



Available Samples

Sample	Supplied	Comment
Suspension A	approx. 1 ml	for the counting (microscopy) of <i>Cryptosporidium</i> oocysts and/or <i>Giardia</i> cysts in phosphate buffered saline 'as received'
Suspension B	approx. 1 ml	for testing (recovery & microscopy) AFTER dilution (in 10 litres of tap water), sample is a suspension of <i>Cryptosporidium</i> oocysts and/or <i>Giardia</i> cysts in phosphate buffered saline



ENVIRONMENTAL WATER LEGIONELLA

Participants are required to report results qualitatively, indicating whether *Legionella* spp. is detected or not detected and identify the species present, and/or quantitatively, expressed in cfu/l. The supplied lyophilised vials require reconstitution with your laboratory's own sterile deionised (or distilled) water to 1 litre before analysis.

PLEASE NOTE:

- **All** tests incur courier charges
- Registration / enrolment closes **four** weeks before the advertised dispatch date.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
12/06/2019	FWMO5-WAW1	LG0107	lyophilised vial	<i>Legionella</i> spp	2 vials	128
06/11/2019	FWMO5-WAW1	LG0108	lyophilised vial	<i>Legionella</i> spp	2 vials	128



ENVIRONMENTAL & RECREATIONAL WATER MICROBIOLOGY

These PTs are designed to test a laboratory's ability to analyse the microbiology found in two types of environmental and recreational waters, i.e. waters from swimming pools & spas and other bathing waters. Depending on the target organism, the tests are either enumeration (quantitative) or detection (qualitative) tests.

ENUMERATION TESTS

The samples supplied are lyophilised vials, which require reconstituting with your laboratory's own sterile deionised water. Depending on your order up to four samples may be supplied for each distribution.

PLEASE NOTE:

- All tests incur courier charges
- Registration / enrolment closes **four** weeks before the advertised dispatch date.

Swimming Pool & Spa Water Microbiology

Total Coliforms and Escherichia coli

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
10/04/2019	FWMO1-RWS1	SPM0101	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
19/06/2019	FWMO1-RWS1	SPM0102	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
18/09/2019	FWMO1-RWS1	SPM0103	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
20/11/2019	FWMO1-RWS1	SPM0104	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81
12/02/2020	FWMO1-RWS1	SPM0105	lyophilised vial	Total Coliforms, <i>Escherichia coli</i>	1 vial	81



Total Viable Count (TVC)

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
10/04/2019	FWM09-RWS1	SPM0201	lyophilised vial	Total Viable Count (TVC) (37°C/24 hours)	1 vial	81
19/06/2019	FWM08-RWS1	SPM0202	lyophilised vial	Total Viable Count (TVC) (37°C/24 hours)	1 vial	81
18/09/2019	FWM08-RWS1	SPM0203	lyophilised vial	Total Viable Count (TVC) (37°C/24 hours)	1 vial	81
20/11/2019	FWM08-RWS1	SPM0204	lyophilised vial	Total Viable Count (TVC) (37°C/24 hours)	1 vial	81
12/02/2020	FWM08-RWS1	SPM0205	lyophilised vial	Total Viable Count (TVC) (37°C/24 hours)	1 vial	81

***Pseudomonas aeruginosa*, Coagulase Positive Staphylococci & Total Staphylococci**

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
10/04/2019	FWM09-RWS1	SPM0301	lyophilised vial	<i>Pseudomonas aeruginosa</i> , Coagulase Positive Staphylococci, Total Staphylococci	1 vial	81
19/06/2019	FWM09-RWS1	SPM0302	lyophilised vial	<i>Pseudomonas aeruginosa</i> , Coagulase Positive Staphylococci, Total Staphylococci	1 vial	81
18/09/2019	FWM09-RWS1	SPM0303	lyophilised vial	<i>Pseudomonas aeruginosa</i> , Coagulase Positive Staphylococci, Total Staphylococci	1 vial	81
20/11/2019	FWM09-RWS1	SPM0304	lyophilised vial	<i>Pseudomonas aeruginosa</i> , Coagulase Positive Staphylococci, Total Staphylococci	1 vial	81
12/02/2020	FWM09-RWS1	SPM0305	lyophilised vial	<i>Pseudomonas aeruginosa</i> , Coagulase Positive Staphylococci, Total Staphylococci	1 vial	81



Bathing Water Microbiology

The samples supplied are lyophilised vials, which require reconstituting with your laboratory's own sterile deionised water. Depending on your order up to four samples may be supplied for each distribution.

Escherichia coli and Enterococci

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
22/05/2019	FWM10-RWB1	BWM0101	lyophilised vial	<i>Escherichia coli</i> , Enterococci	1 vial	81
10/07/2019	FWM10-RWB1	BWM0102	lyophilised vial	<i>Escherichia coli</i> , Enterococci	1 vial	81
16/10/2019	FWM10-RWB1	BWM0103	lyophilised vial	<i>Escherichia coli</i> , Enterococci	1 vial	81
11/12/2019	FWM10-RWB1	BWM0104	lyophilised vial	<i>Escherichia coli</i> , Enterococci	1 vial	81
11/03/2020	FWM10-RWB1	BWM0105	lyophilised vial	<i>Escherichia coli</i> , Enterococci	1 vial	81



DETECTION TESTS

Swimming Pool & Spa Water Microbiology

Escherichia coli O157

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
12/02/2020	FMOD11-RWS1	SPM0401	lyophilised vial	<i>Escherichia coli</i> O157	1 vial	81

Bathing Water Microbiology

Salmonella spp.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
22/05/2019	FMOD7-RWB1	BWM0201	lyophilised vial	<i>Salmonella</i> spp.	1 vial	81
10/07/2019	FMOD7-RWB1	BWM0202	lyophilised vial	<i>Salmonella</i> spp.	1 vial	81
16/10/2019	FMOD7-RWB1	BWM0203	lyophilised vial	<i>Salmonella</i> spp.	1 vial	81
11/12/2019	FMOD7-RWB1	BWM0204	lyophilised vial	<i>Salmonella</i> spp.	1 vial	81
11/03/2020	FMOD7-RWB1	BWM0205	lyophilised vial	<i>Salmonella</i> spp.	1 vial	81

Campylobacter spp.

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
11/03/2020	FMOD17-RWB1	BWM0301	lyophilised vial	<i>Campylobacter</i> spp.	1 vial	81

Escherichia coli O157

dispatch date	product code	item code	matrix	analytes	approx. size	fee GBP
11/03/2020	FMOD11-RWB1	BWM0401	lyophilised vial	<i>Escherichia coli</i> O157	1 vial	81



APPENDIX 1: DRINKING WATER MICROBIOLOGY DISTRIBUTION DETAILS

JANUARY TO JULY 2019

	Distribution Number and Date of Dispatch					
	DWM030	DWM031	DWM032	DWM033	DWM034	DWM035
	22/01/2019	05/03/2019	15/04/2019	15/05/2019	12/06/2019	17/07/2019
Total coliforms and <i>Escherichia coli</i>	DWM0130	DWM0131	DWM0132	DWM0133	DWM0134	DWM0135
Colony Counts (22°C/3 days) & (37°C/2 day)	DWM0230	DWM0231	DWM0232	DWM0233	DWM0234	DWM0235
Enterococci, <i>Pseudomonas aeruginosa</i> & <i>Clostridium perfringens</i>	DWM0330	DWM0331	DWM0332	DWM0333	DWM0334	DWM0335
Organism Identification		DWM0411		DWM0412		

AUGUST 2019 TO MARCH 2020

	Distribution Number and Date of Dispatch					
	DWM036	DWM037	DWM038	DWM039	DWM040	DWM041
	11/09/2019	09/10/2019	06/11/2019	04/12/2019	22/01/2020	04/03/2020
Total coliforms and <i>Escherichia coli</i>	DWM0136	DWM0137	DWM0138	DWM0139	DWM0140	DWM0141
Colony Counts (22°C/3 days) & (37°C/2 day)	DWM0236	DWM0237	DWM0238	DWM0239	DWM0240	DWM0241
Enterococci, <i>Pseudomonas aeruginosa</i> & <i>Clostridium perfringens</i>	DWM0336	DWM0337	DWM0338	DWM0339	DWM0340	DWM0341
Organism Identification	DWM0413		DWM0414			DWM0415



APPENDIX 2: DRINKING WATER PARASITOLOGY DISTRIBUTION DETAILS

JANUARY 2019 TO MARCH 2020

	Distribution Number and Date of Dispatch							
	DWP017 22/01/2019	DWP018 05/03/2019	DWP019 14/05/2019	DWP020 16/07/2019	DWP021 10/09/2019	DWP022 05/11/2019	DWP023 21/01/2020	DWP024 03/03/2020
Suspension A	DWP0117	DWP0118	DWP0119	DWP0120	DWP0121	DWP0122	DWP0123	DWP0124
Suspension B	DWP0217	DWP0218	DWP0219	DWP0220	DWP0221	DWP0222	DWP0223	DWP0224



APPENDIX 3: ENVIRONMENTAL WATER LEGIONELLA DISTRIBUTION DETAILS**JANUARY 2019 TO MARCH 2020**

	Distribution Number and Date of Dispatch	
	LG0107 12/06/2019	LG0108 06/01/2019
Legionella	LG0107	LG0108



APPENDIX 4: ENVIRONMENTAL & RECREATIONAL WATER DISTRIBUTION DETAILS

Swimming Pool & Spa Water Microbiology

JANUARY 2019 TO MARCH 2020

	Distribution Number and Date of Dispatch				
	SPM001	SPM002	SPM003	SPM004	SPM005
Enumeration Tests	10/04/19	19/06/19	18/09/19	20/11/19	12/02/20
Total coliforms and <i>Escherichia coli</i>	SPM0101	SPM0102	SPM0103	SPM0104	SPM0105
Total viable count (TVC) (37C/24h)	SPM0201	SPM0202	SPM0203	SPM0204	SPM0205
<i>Pseudomonas aeruginosa</i> & coagulase positive staphylococci & total staphylococci	SPM0301	SPM0302	SPM0303	SPM0304	SPM0305
Detection Tests					
<i>E. coli</i> O157					SPM0401

Bathing Water Microbiology

JANUARY 2019 TO MARCH 2020

	Distribution Number and Date of Dispatch				
	BWM001	BWM002	BWM003	BWM004	BWM005
Enumeration Tests	22/05/19	10/07/19	16/10/19	11/12/19	11/03/20
<i>Escherichia coli</i> and Enterococci (faecal streptococci)	BWM0101	BWM0102	BWM0103	BWM0104	BWM0105
Detection Tests					
<i>Salmonella</i> spp.	BWM0201	BWM0202	BWM0203	BWM0204	BWM0205
<i>Campylobacter</i> spp.					BWM0301
<i>E. coli</i> O157					BWM0401





Round No.	Courier	Programme Name	Round Price	Extra Material Price
DWC0117	1	LEAP CHEM: 2019	123.00	60.00
DWC0118	1	LEAP CHEM: 2019	123.00	60.00
DWC0119	1	LEAP CHEM: 2019	127.00	58.00
DWC0120	1	LEAP CHEM: 2019	127.00	58.00
DWC0121	1	LEAP CHEM: 2019	127.00	58.00
DWC0122	1	LEAP CHEM: 2019	127.00	58.00
DWC0217	1	LEAP CHEM: 2019	123.00	60.00
DWC0218	1	LEAP CHEM: 2019	123.00	60.00
DWC0219	1	LEAP CHEM: 2019	127.00	58.00
DWC0220	1	LEAP CHEM: 2019	127.00	58.00
DWC0221	1	LEAP CHEM: 2019	127.00	58.00
DWC0222	1	LEAP CHEM: 2019	127.00	58.00
DWC0317	1	LEAP CHEM: 2019	185.00	60.00
DWC0318	1	LEAP CHEM: 2019	185.00	60.00
DWC0319	1	LEAP CHEM: 2019	190.00	58.00
DWC0320	1	LEAP CHEM: 2019	190.00	58.00
DWC0321	1	LEAP CHEM: 2019	190.00	58.00
DWC0322	1	LEAP CHEM: 2019	190.00	58.00
DWC0411	1	LEAP CHEM: 2019	270.00	60.00
DWC0412	1	LEAP CHEM: 2019	278.00	58.00
DWC0413	1	LEAP CHEM: 2019	278.00	58.00
DWC0414	1	LEAP CHEM: 2019	278.00	58.00
DWC0511	1	LEAP CHEM: 2019	185.00	60.00
DWC0512	1	LEAP CHEM: 2019	190.00	58.00
DWC0513	1	LEAP CHEM: 2019	190.00	58.00
DWC0514	1	LEAP CHEM: 2019	190.00	58.00
DWC0612	1	LEAP CHEM: 2019	238.00	60.00
DWC0613	1	LEAP CHEM: 2019	245.00	58.00
DWC0614	1	LEAP CHEM: 2019	245.00	58.00
DWC0615	1	LEAP CHEM: 2019	245.00	58.00
DWC0712	1	LEAP CHEM: 2019	238.00	60.00
DWC0713	1	LEAP CHEM: 2019	245.00	58.00
DWC0714	1	LEAP CHEM: 2019	245.00	58.00
DWC0715	1	LEAP CHEM: 2019	245.00	58.00
DWC0812	1	LEAP CHEM: 2019	238.00	60.00
DWC0813	1	LEAP CHEM: 2019	245.00	58.00
DWC0814	1	LEAP CHEM: 2019	245.00	58.00
DWC0815	1	LEAP CHEM: 2019	245.00	58.00
DWC0907	1	LEAP CHEM: 2019	287.00	58.00
DWC0908	1	LEAP CHEM: 2019	287.00	58.00
DWC1012	1	LEAP CHEM: 2019	238.00	60.00
DWC1013	1	LEAP CHEM: 2019	245.00	58.00
DWC1014	1	LEAP CHEM: 2019	245.00	58.00
DWC1015	1	LEAP CHEM: 2019	245.00	58.00
DWC1112	1	LEAP CHEM: 2019	238.00	60.00
DWC1113	1	LEAP CHEM: 2019	245.00	58.00
DWC1114	1	LEAP CHEM: 2019	245.00	58.00
DWC1115	1	LEAP CHEM: 2019	245.00	58.00



DWC1211	1	LEAP CHEM: 2019	109.00	60.00
DWC1212	1	LEAP CHEM: 2019	112.00	58.00
DWC1213	1	LEAP CHEM: 2019	112.00	58.00
DWC1214	1	LEAP CHEM: 2019	112.00	58.00
DWC1506	1	LEAP CHEM: 2019	278.00	60.00
DWC1507	1	LEAP CHEM: 2019	287.00	58.00
DWC1611	1	LEAP CHEM: 2019	109.00	60.00
DWC1612	1	LEAP CHEM: 2019	112.00	58.00
DWC1613	1	LEAP CHEM: 2019	112.00	58.00
DWC1614	1	LEAP CHEM: 2019	112.00	58.00
DWC1705	1	LEAP CHEM: 2019	287.00	58.00
DWC1706	1	LEAP CHEM: 2019	287.00	58.00
DWC1804	1	LEAP CHEM: 2019	122.00	85.00
DWC1805	1	LEAP CHEM: 2019	125.00	88.00
DWC1806	1	LEAP CHEM: 2019	125.00	88.00
DWC1807	1	LEAP CHEM: 2019	125.00	88.00
DWC1901	1	LEAP CHEM: 2019	168.00	56.00
DWC2001	1	LEAP CHEM: 2019	119.00	85.00
DWC2101	1	LEAP CHEM: 2019	112.00	56.00
DWC2102	1	LEAP CHEM: 2019	112.00	56.00
DWC0123	1	LEAP CHEM: 2020	127.00	58.00
DWC0124	1	LEAP CHEM: 2020	127.00	58.00
DWC0223	1	LEAP CHEM: 2020	127.00	58.00
DWC0224	1	LEAP CHEM: 2020	127.00	58.00
DWC0323	1	LEAP CHEM: 2020	190.00	58.00
DWC0324	1	LEAP CHEM: 2020	190.00	58.00
DWC0415	1	LEAP CHEM: 2020	278.00	58.00
DWC0515	1	LEAP CHEM: 2020	190.00	58.00
DWC0616	1	LEAP CHEM: 2020	245.00	58.00
DWC0716	1	LEAP CHEM: 2020	245.00	58.00
DWC0816	1	LEAP CHEM: 2020	245.00	58.00
DWC1016	1	LEAP CHEM: 2020	245.00	58.00
DWC1116	1	LEAP CHEM: 2020	245.00	58.00
DWC1215	1	LEAP CHEM: 2020	112.00	58.00
DWC1508	1	LEAP CHEM: 2020	287.00	58.00
DWC1615	1	LEAP CHEM: 2020	112.00	58.00
DWC1808	1	LEAP CHEM: 2020	125.00	88.00
DWC1902	1	LEAP CHEM: 2020	168.00	56.00
DWC2002	1	LEAP CHEM: 2020	119.00	85.00
WW0116	1	LEAP EFF: 2019	99.00	82.00
WW0117	1	LEAP EFF: 2019	101.00	88.00
WW0118	1	LEAP EFF: 2019	101.00	88.00
WW0119	1	LEAP EFF: 2019	101.00	88.00
WW0120	1	LEAP EFF: 2019	101.00	88.00
WW0121	1	LEAP EFF: 2019	101.00	88.00
WW0216	1	LEAP EFF: 2019	111.00	82.00
WW0217	1	LEAP EFF: 2019	115.00	88.00
WW0218	1	LEAP EFF: 2019	115.00	88.00
WW0219	1	LEAP EFF: 2019	115.00	88.00
WW0220	1	LEAP EFF: 2019	115.00	88.00



WW0221	1	LEAP EFF: 2019	115.00	88.00
WW0316	1	LEAP EFF: 2019	118.00	82.00
WW0317	1	LEAP EFF: 2019	123.00	88.00
WW0318	1	LEAP EFF: 2019	123.00	88.00
WW0319	1	LEAP EFF: 2019	123.00	88.00
WW0320	1	LEAP EFF: 2019	123.00	88.00
WW0321	1	LEAP EFF: 2019	123.00	88.00
WW0416	1	LEAP EFF: 2019	104.00	82.00
WW0417	1	LEAP EFF: 2019	107.00	88.00
WW0418	1	LEAP EFF: 2019	107.00	88.00
WW0419	1	LEAP EFF: 2019	107.00	88.00
WW0420	1	LEAP EFF: 2019	107.00	88.00
WW0421	1	LEAP EFF: 2019	107.00	88.00
WW0516	1	LEAP EFF: 2019	138.00	82.00
WW0517	1	LEAP EFF: 2019	143.00	88.00
WW0518	1	LEAP EFF: 2019	143.00	88.00
WW0519	1	LEAP EFF: 2019	143.00	88.00
WW0520	1	LEAP EFF: 2019	143.00	88.00
WW0521	1	LEAP EFF: 2019	143.00	88.00
WW0616	1	LEAP EFF: 2019	130.00	82.00
WW0617	1	LEAP EFF: 2019	134.00	88.00
WW0618	1	LEAP EFF: 2019	134.00	88.00
WW0619	1	LEAP EFF: 2019	134.00	88.00
WW0620	1	LEAP EFF: 2019	134.00	88.00
WW0621	1	LEAP EFF: 2019	134.00	88.00
WW0716	1	LEAP EFF: 2019	93.00	82.00
WW0717	1	LEAP EFF: 2019	95.00	88.00
WW0718	1	LEAP EFF: 2019	95.00	88.00
WW0719	1	LEAP EFF: 2019	95.00	88.00
WW0720	1	LEAP EFF: 2019	95.00	88.00
WW0721	1	LEAP EFF: 2019	95.00	88.00
WW0816	1	LEAP EFF: 2019	84.00	71.00
WW0817	1	LEAP EFF: 2019	87.00	74.00
WW0818	1	LEAP EFF: 2019	87.00	74.00
WW0819	1	LEAP EFF: 2019	87.00	74.00
WW0820	1	LEAP EFF: 2019	87.00	74.00
WW0821	1	LEAP EFF: 2019	87.00	74.00
WW0916	1	LEAP EFF: 2019	89.00	82.00
WW0917	1	LEAP EFF: 2019	91.00	88.00
WW0918	1	LEAP EFF: 2019	91.00	88.00
WW0919	1	LEAP EFF: 2019	91.00	88.00
WW0920	1	LEAP EFF: 2019	91.00	88.00
WW0921	1	LEAP EFF: 2019	91.00	88.00
WW1016	1	LEAP EFF: 2019	74.00	71.00
WW1017	1	LEAP EFF: 2019	78.00	74.00
WW1018	1	LEAP EFF: 2019	78.00	74.00
WW1019	1	LEAP EFF: 2019	78.00	74.00
WW1020	1	LEAP EFF: 2019	78.00	74.00
WW1021	1	LEAP EFF: 2019	78.00	74.00
WW1116	1	LEAP EFF: 2019	99.00	82.00



WW1117	1	LEAP EFF: 2019	101.00	88.00
WW1118	1	LEAP EFF: 2019	101.00	88.00
WW1119	1	LEAP EFF: 2019	101.00	88.00
WW1120	1	LEAP EFF: 2019	101.00	88.00
WW1121	1	LEAP EFF: 2019	101.00	88.00
WW1216	1	LEAP EFF: 2019	118.00	82.00
WW1217	1	LEAP EFF: 2019	123.00	88.00
WW1218	1	LEAP EFF: 2019	123.00	88.00
WW1219	1	LEAP EFF: 2019	123.00	88.00
WW1220	1	LEAP EFF: 2019	123.00	88.00
WW1221	1	LEAP EFF: 2019	123.00	88.00
WW1316	1	LEAP EFF: 2019	118.00	82.00
WW1317	1	LEAP EFF: 2019	123.00	88.00
WW1318	1	LEAP EFF: 2019	123.00	88.00
WW1319	1	LEAP EFF: 2019	123.00	88.00
WW1320	1	LEAP EFF: 2019	123.00	88.00
WW1321	1	LEAP EFF: 2019	123.00	88.00
WW1416	1	LEAP EFF: 2019	111.00	82.00
WW1417	1	LEAP EFF: 2019	115.00	88.00
WW1418	1	LEAP EFF: 2019	115.00	88.00
WW1419	1	LEAP EFF: 2019	115.00	88.00
WW1420	1	LEAP EFF: 2019	115.00	88.00
WW1421	1	LEAP EFF: 2019	115.00	88.00
WW1516	1	LEAP EFF: 2019	121.00	82.00
WW1517	1	LEAP EFF: 2019	125.00	88.00
WW1518	1	LEAP EFF: 2019	125.00	88.00
WW1519	1	LEAP EFF: 2019	125.00	88.00
WW1520	1	LEAP EFF: 2019	125.00	88.00
WW1521	1	LEAP EFF: 2019	125.00	88.00
WW1603	1	LEAP EFF: 2019	125.00	88.00
WW1604	1	LEAP EFF: 2019	125.00	88.00
WW0122	1	LEAP EFF: 2020	101.00	88.00
WW0222	1	LEAP EFF: 2020	115.00	88.00
WW0322	1	LEAP EFF: 2020	123.00	88.00
WW0422	1	LEAP EFF: 2020	107.00	88.00
WW0522	1	LEAP EFF: 2020	143.00	88.00
WW0622	1	LEAP EFF: 2020	134.00	88.00
WW0722	1	LEAP EFF: 2020	95.00	88.00
WW0822	1	LEAP EFF: 2020	87.00	74.00
WW0922	1	LEAP EFF: 2020	91.00	88.00
WW1022	1	LEAP EFF: 2020	78.00	74.00
WW1122	1	LEAP EFF: 2020	101.00	88.00
WW1222	1	LEAP EFF: 2020	123.00	88.00
WW1322	1	LEAP EFF: 2020	123.00	88.00
WW1422	1	LEAP EFF: 2020	115.00	88.00
WW1522	1	LEAP EFF: 2020	125.00	88.00
EMY38	1	LEAP EMY: 2019	924.00	924.00
EMY39	1	LEAP EMY: 2019	924.00	924.00
HS0108	1	LEAP High Salinity: 2019	226.00	106.00
HS0109	1	LEAP High Salinity: 2019	226.00	106.00



HS0208	1	LEAP High Salinity: 2019	226.00	106.00
HS0209	1	LEAP High Salinity: 2019	226.00	106.00
HS0308	1	LEAP High Salinity: 2019	269.00	156.00
HS0309	1	LEAP High Salinity: 2019	269.00	156.00
HS0408	1	LEAP High Salinity: 2019	226.00	106.00
HS0409	1	LEAP High Salinity: 2019	226.00	106.00
HS0508	1	LEAP High Salinity: 2019	226.00	106.00
HS0509	1	LEAP High Salinity: 2019	226.00	106.00
LG0107	1	LEAP LEGION: 2019	179.00	71.00
LG0108	1	LEAP LEGION: 2019	179.00	71.00
DWM0130	1	LEAP MICRO: 2019	100.00	40.00
DWM0131	1	LEAP MICRO: 2019	100.00	40.00
DWM0230	1	LEAP MICRO: 2019	100.00	40.00
DWM0231	1	LEAP MICRO: 2019	100.00	40.00
DWM0330	1	LEAP MICRO: 2019	100.00	40.00
DWM0331	1	LEAP MICRO: 2019	100.00	40.00
DWM0411	1	LEAP MICRO: 2019	100.00	40.00
BWM0101	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0102	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0103	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0104	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0201	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0202	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0203	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0204	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0132	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0133	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0134	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0135	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0136	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0137	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0138	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0139	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0232	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0233	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0234	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0235	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0236	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0237	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0238	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0239	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0332	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0333	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0334	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0335	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0336	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0337	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0338	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0339	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0412	1	LEAP MICRO: 2019 - prt 2	113.00	50.00



DWM0413	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
DWM0414	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0101	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0102	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0103	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0104	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0201	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0202	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0203	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0204	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0301	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0302	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0303	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
SPM0304	1	LEAP MICRO: 2019 - prt 2	113.00	50.00
BWM0105	1	LEAP MICRO: 2020	113.00	50.00
BWM0205	1	LEAP MICRO: 2020	113.00	50.00
BWM0301	1	LEAP MICRO: 2020	113.00	50.00
BWM0401	1	LEAP MICRO: 2020	113.00	50.00
DWM0140	1	LEAP MICRO: 2020	113.00	50.00
DWM0141	1	LEAP MICRO: 2020	113.00	50.00
DWM0240	1	LEAP MICRO: 2020	113.00	50.00
DWM0241	1	LEAP MICRO: 2020	113.00	50.00
DWM0340	1	LEAP MICRO: 2020	113.00	50.00
DWM0341	1	LEAP MICRO: 2020	113.00	50.00
DWM0415	1	LEAP MICRO: 2020	113.00	50.00
SPM0105	1	LEAP MICRO: 2020	113.00	50.00
SPM0205	1	LEAP MICRO: 2020	113.00	50.00
SPM0305	1	LEAP MICRO: 2020	113.00	50.00
SPM0401	1	LEAP MICRO: 2020	113.00	50.00
DWP0117	1	LEAP PARA: 2019	161.00	80.00
DWP0118	1	LEAP PARA: 2019	161.00	80.00
DWP0217	1	LEAP PARA: 2019	161.00	80.00
DWP0218	1	LEAP PARA: 2019	161.00	80.00
DWP0119	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0120	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0121	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0122	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0219	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0220	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0221	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0222	1	LEAP PARA: 2019 - prt 2	163.00	85.00
DWP0123	1	LEAP PARA: 2020	163.00	85.00
DWP0124	1	LEAP PARA: 2020	163.00	85.00
DWP0223	1	LEAP PARA: 2020	163.00	85.00
DWP0224	1	LEAP PARA: 2020	163.00	85.00
SL0106	1	LEAP SOIL: 2019	228.00	173.00
SW0107	1	LEAP SURFACE: 2019	123.00	60.00
SW0108	1	LEAP SURFACE: 2019	127.00	58.00
SW0207	1	LEAP SURFACE: 2019	123.00	60.00
SW0208	1	LEAP SURFACE: 2019	127.00	58.00



SW0307	1	LEAP SURFACE: 2019	238.00	60.00
SW0308	1	LEAP SURFACE: 2019	245.00	58.00
SW0407	1	LEAP SURFACE: 2019	270.00	60.00
SW0408	1	LEAP SURFACE: 2019	278.00	58.00
SW0109	1	LEAP SURFACE: 2020	127.00	58.00
SW0209	1	LEAP SURFACE: 2020	127.00	58.00
SW0309	1	LEAP SURFACE: 2020	245.00	58.00
SW0409	1	LEAP SURFACE: 2020	278.00	58.00
TOCHEM08	1	LEAP TOCHEM: 2019	699.00	699.00



