

**Bundle of documents for Oral hearings
commencing from 16 September 2025 in
relation to the Queen Elizabeth University
Hospital and the Royal Hospital for
Children, Glasgow**

**Bundle 53
Water and Ventilation Audit Reports and
Domestic Water System Commissioning
Review Report by Andrew Poplett and
associated papers**

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The terms of that Restriction Order are published on the Inquiry website.

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From: [REDACTED]
To: a.poplett
Cc: Brandon.Nolan; [REDACTED]
Subject: Water testing - including H&V testing
Date: 08 July 2025 17:46:54
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Dear Andrew,

I hope you are well.

We are in the midst of drafting a letter of instruction to you in your capacity as an independent expert in respect of the questions noted below. For the avoidance of doubt your report is separate and distinct from your audit as an authorising engineer in respect of water and ventilation at the QEUH/RHC which you are currently addressing in relation to your attendance at QEUH/RHC w/c 23 June 2025.

It is our intention to pose the following questions to you in your capacity as an independent expert witness:

Question 1

-

We have provided you with the following documentation:

H&V Water Testing:

- [Glasgow 4 - GM note - Water testing summary for Andrew Poplett - 18 June 2025 details - Objective](#)
 - [PR21 DOMESTIC STERILISATION RESULTS details - Objective](#)
 - [Plantroom 22 Sterilisation Certificate details - Objective](#)
 - [Plantroom 22 Sterilisation & Lab Results details - Objective](#)
 - [Plantroom 31 Sterilisation Certificate_45613 details - Objective](#)
 - [PR32 DOMESTIC STERILISATION RESULTS details - Objective](#)
 - [PR33 DOMESTIC STERILISATION RESULTS details - Objective](#)
 - [Plantroom 33 Sterilisation Certificate_59310 details - Objective](#)
 - [Plantroom 31,32 33 Sterilisation Certificate details - Objective](#)
 - [Plantroom 41 Sterilisation Certificate details - Objective](#)
- [3 Plantroom 41 Sterilisation Certificate & Lab Results details - Objective](#)

Our provisional question to you in relation to the above documentation is as follows:

Whether all the above mentioned H&V water testing data, when considered together with the testing data reviewed for your report '*Independent Expert Report Concerning Domestic Hot and Cold Water Systems at the Queen Elizabeth Hospital, Glasgow, and the Royal Hospital for Children*', dated 10 June 2024, allows you to reach a conclusion as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover. Please explain your reasoning.

We anticipate that in answering the above question, you will require to

consider certain supplementary points. With that in mind, we have set out below the following additional questions. We do not require you to set out separate conclusions on them, though we appreciate that you may wish to do so to support your response. It may be that others occur in the course of your consideration, or that some of our questions are unnecessary, in which case we are available to discuss this with at any time.

1. How robust is the methodology described for producing this data?
2. Do the methods used raise concerns, in terms of good practice?
3. Do you have any concerns with the test results?
4. Insofar as these test results are one off/intermittent, does that create a difficulty in drawing any conclusions?

We have endeavoured to produce reasonable questions in respect of the specified water testing documentation so that we can understand the associated implications, but with your considerable knowledge and experience it may well be that you could advise us on what other questions may be more suitable for the determination of the extent of contamination at handover of the hospital. We would be grateful for any contribution you can make with respect to tailoring and/or refining better questions. Do you think the above questions devised by us are relevant?

Question 2

In respect of the document the **Written Scheme pertaining to QEUH/RHC Version J** which we understand you have access to and can also be found at Bundle 27, Volume 1, Document 19 at page 276 (A49516753) we would ask you to consider the testing Scheme at Appendix 2 (page 394 of the said bundle) and comment/report on whether it contains a suitable, effective and/or appropriate standard of water testing for the QEUH/RHC given the requirements of SHTM 04-01, L8 and HSG274.

We would be grateful if you would consider whether our questions are optimal for ascertaining water quality at handover and beyond, and perhaps refine and direct our questions as you consider appropriate.

On a different note - it would be very helpful if you would provide us with an update on your audit reports.

As always we are very grateful for the work that you are doing for the Inquiry.

Thank you, and we look forward to hearing from you.

Kind regards,



Assistant Solicitor | Public Inquiry into QEUH & RHCYP/DCN

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From: [REDACTED]
To: [a.poplett](#)
Cc: [Brandon Nolan](#); [REDACTED]
Subject: Letter of Instruction - QEUH/RHC Water Testing
Date: 07 August 2025 16:05:33
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Mr Poplett letter of instruction - 7 August 2025.pdf](#)

Dear Mr Poplett,

Please see Letter of Instruction dated 7 August 2025 in respect of the commissioning process in respect of the QEUH/ RHC water system. If you have any questions, please do not hesitate to contact me.

Kind regards,

[REDACTED]

[REDACTED] | Assistant Solicitor to the Public Inquiry into QEUH & RHCYP/DCN
[REDACTED] | www.hospitalsinquiry.scot
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Mr A Poplett

By email only a.poplett@hospitalsinquiry.scot

07 August 2025

In respect of the matters concerning water at the Queen Elizabeth University Hospital, Glasgow, and the Royal Hospital for Children (QEUH/RHC)(the “Hospital”)

Dear Mr Poplett

Introduction

1. This Letter of Instruction follows on from our Letter of Instruction in relation to the Hospital's water distribution system dated 10 June 2024 and is in respect of the commissioning process.
2. During the commissioning of the Hospital's water distribution system, a process of sterilisation/disinfection and subsequent water testing was conducted by subcontractors of Multiplex, namely Mercury Engineering and H&V respectively.
3. The purpose of the sterilisation process is to reduce the level of the bacterial content of the potable water to accepted and defined levels.
4. The water testing process is scheduled to take place within the commissioning process to confirm that the microbial content is acceptable at the point of handover.
5. This instruction relates to key Question 1 and potentially to Key question 3 below:

The Key Questions

- 1) of the water and ventilation systems from the point at which there were patients within the QEUH/RHC was the water system (including drainage) in an unsafe condition, in the sense that it presented an additional risk of avoidable infection to patients?
- 2) From the same point and in the same way was the ventilation system in an unsafe condition?
- 3) Are the water and ventilation systems no longer in an unsafe condition in the sense that they now present no additional avoidable risk of infection?
- 4) Is there a link, and if so in what way and to what extent, between patient infections and identified unsafe features?

Instructions for Report

6. Following the hearing of evidence during the Glasgow 4 Part 1 hearings, commencing 13 May 2025 the Inquiry received new information regarding the sterilisation/ disinfection and subsequent water testing conducted by subcontractors of Multiplex leading up to handover on 26 January 2015. This letter sets out the current understanding of the scope of this issue.
7. Your instructions as initially set out in the email correspondence to you from the Inquiry dated 8 July 2025 are to analyse the sterilisation and water testing data of late 2014/early 2015 by Mercury who employed H&V as subcontractors to provide an independent expert report on whether the water system may have been contaminated at the point of handover of the QEUH/RHC on 26 January 2015.
8. The sterilization and water testing data that has been made available to us in respect of the period leading up to handover that we have provided for your consideration is as follows:
 - PR21 DOMESTIC STERILISATION RESULTS details
 - Plantroom 22 Sterilisation Certificate details
 - Plantroom 22 Sterilisation & Lab Results details
 - Plantroom 31 Sterilisation Certificate_45613 details
 - PR32 DOMESTIC STERILISATION RESULTS details
 - PR33 DOMESTIC STERILISATION RESULTS details
 - Plantroom 33 Sterilisation Certificate_59310 details
 - Plantroom 31,32 33 Sterilisation Certificate details
 - Plantroom 41 Sterilisation Certificate details
 - Plantroom 41 Sterilisation Certificate & Lab Results details

This data has been made available to you in your objective connect file.

9. The Questions that you are asked to address in your report are as follows:
 - a) Whether all that testing data, when considered together with the testing data reviewed for your report '*Independent Expert Report Concerning Domestic Hot and Cold Water Systems at the Queen Elizabeth Hospital, Glasgow, and the Royal Hospital for Children*', dated 10 June 2024, allows you to reach a conclusion as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover. Please explain your reasoning.

In considering this question the Inquiry asks that you consider:

- (i) How robust is the methodology described for producing this data?
- (ii) Do the methods used raise concerns, in terms of good practice?
- (iii) Do you have any concerns with the test results?
- (iv) Insofar as these test results are one off/intermittent, does that create a difficulty in drawing any conclusions?

- b) In respect of the document the Written Scheme pertaining to QEUH/RHC Version J which we understand you have access to and can also be found at Bundle 27, Volume 1, Document 19 at page 276 (A49516753) we would ask you to consider the testing Scheme at Appendix 2 (page 394 of the said bundle) and comment/report on whether it contains a suitable, effective and/or appropriate standard of water testing for the QEUH/RHC given the requirements of SHTM 04-01, L8 and HSG274.
10. The Inquiry team will provide relevant documentation. If any further information is required, this should be brought to the attention of the Inquiry team who will be able to assist.
11. It is intended that this letter should (after being redacted if so required) be made available to Core Participants along with your report.
12. Please explain how any views of your opinion lie within the scope of your own experience and expertise and the extent to which your opinion is based on a reliable body of evidence and/or experience.

Expert report – structure and contents

13. The expert report should identify the testing methodology carried out; address how robust the methodology used to obtain the results is; whether the methodology meets the standards of SHTM 04-01 or best practice; what concerns, if any, are there with the methodology carried out; areas of improvement; and should answer the questions set out at paragraph 9 above.

Legal

14. Your CV should be appended to the report or narrated within the report (knowledge, qualifications, experience etc).
15. Any assumptions made in the report should be set out at the beginning of the report. It should also be stated how reasonable or likely it is that the assumption is correct.
16. If you have been provided with any documentation by the Inquiry team then that should be set out in the report and also appended to the report.
17. Any publications or material used by you to reach a conclusion should be listed in the report and also appended to the report.
18. You should make clear which facts stated are within your knowledge. Where there are material facts in dispute, you should express an opinion on each version of the facts. No preference should be expressed for one version over another unless due to your experience you consider one version to be less probable. In such circumstances a view should be expressed, and reasons given for it.
19. You should explain if the report is provisional, qualified and whether any additional information is required.
20. Your report should include a glossary of significant technical terms.

21. Where any tests of a scientific or technical nature have been carried out, the methodology used should be stated in the report.
22. If a particular issue or question falls outwith your expertise, then that should be made clear in the report.
23. If there is insufficient data to reach a concluded view then that should be stated in the report.
24. Your report should acknowledge that the primary duty of the expert is to the Inquiry to enable informed findings to be made. You should also acknowledge that you have prepared your report consistent with any applicable professional code of conduct.
25. The duties of an independent expert are as set out in ***National Justice Compania Naviera SA v Prudential Assurance Company Limited*** [1993] 2 Lloyd's Rep 68 – (The Ikarian Reefer) which are set out in Appendix 1. In this case the duty is owed to the Inquiry as opposed to a court.

Yours faithfully



Brandon Nolan
Solicitor to the Scottish Hospitals Inquiry

Appendix 1

The Duties and Responsibilities of the Expert Witnesses

1. Expert evidence presented to the court should be, and should be seen to be, the independent product of the expert uninfluenced as to form or content by the exigencies of litigation.
2. An expert witness should provide independent assistance to the court by way of objective, unbiased opinion in relation to matters within his/her expertise. An expert witness in the High Court should never assume the role of an advocate.
3. An expert witness should state the facts or assumptions on which his/her opinion is based. He/she should not omit to consider material facts which could detract from his/her concluded opinion.
4. An expert witness should make it clear when a particular question or issue falls outside his/her expertise.
5. If an expert's opinion is not properly researched because he/she considers that insufficient data is available, then this must be stated with an indication that the opinion is no more than a provisional one. In cases where an expert witness, who has prepared a report, could not assert that the report contained the truth, the whole truth and nothing but the truth without some qualification, that qualification should be stated in the report.
6. If, after exchange of reports, an expert witness changes his/her view on a material matter having read the other side's expert's report or for any other reason, such change of view should be communicated (through legal representatives) to the other side without delay and when appropriate to the court.
7. Where expert evidence refers to photographs, plans, calculations, analyses, measurements, survey reports or other similar documents, these must be provided to the opposite party at the same time as the exchange of reports.

Andrew Poplett Enterprises Ltd

Water Systems & Management of Legionella

Authorising Engineers Audit & Review

For

The Domestic Water Systems at

Queen Elizabeth University Hospital Glasgow

On Behalf of

The Scottish Hospitals Inquiry

July 2025

Undertaken By A. Poplett IEng, MIHEEM, ACIBSE AE(WQ)



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Executive Summary

The audit was instructed to establish if the current management arrangements for the hot and cold water systems present on site are safe and being appropriately managed.

Overall the audit has demonstrated that the site staff have a very good level of understanding of the requirements to achieve compliance to the current SHTM 04.01 Part B (Operational Management) (V2-July 2014) and NHS best practice. For the avoidance of doubt the audit has been completed to establish the levels of compliance to the current SHTM 04-01 Part B Operational Management standard and does not address any elements of other SHTM water related standards for areas such as design or installation.

Good evidence is available to provide assurance for the documented maintenance systems, however there are a small number of areas which require improvement or consideration. Many of these areas have been highlighted by the incumbent Authorising Engineer (Dennis Kelly) for Water and are understood to be in hand, although some others may need escalation for further consideration or support to fully address.

The current Water Safety Group structure and reporting is considered to be effective and compliant to ensure on-going monitoring of progress and identified issues.

Key themes for areas for potential improvement include:

Communication & Personnel Resources

The Operational Estates team and the Infection Prevention Control team have clearly demonstrated an extremely good and productive working relationship. This is supported by the close location of both teams and the very open and frequent team interactions, the level of co-operation and partnership approach should be considered as an exemplar model for others to adopt.

There does remain one principal concern from the audit in this area:

The working relationship between the Capital Projects team and Operational Maintenance and IPC teams is not as effective as that above. This may be addressed by further awareness training of the importance of water systems and concepts for designers and project managers and this may require additional resources for both the Operational Estates team and IPC teams to have capacity for an increased project review at the early design stages and the proactive management of potential derogations and design challenges. Consideration could be given to allocating specific time & financial resources to the business case development plans and budgets.

Effective Management of Derogations

The Issue of derogation or managing compliance to NHS guidance and standards is often a complex and potentially contentious issue with very long term implications. It can often involve legal issues, and the legal status of NHS specific guidance, and include a range of challenges. From the audit review process it is clear that this area remains an area of potential tension between those involved and it is recommended that the formal procedure (SOP NO:00-C1-V3) is reviewed to ensure that the appropriate risk assessments, mitigations and on-going management of these issues is improved and agreed.

All derogations need to be kept under constant and on-going review to ensure that operational changes, clinical activity or condition surveys and investment planning is undertaken with the full knowledge that areas of the estate may not be fully compliant, or were agreed to be to an alternative standard than that of the established SHTM/SHBN.

Project Staff Awareness Training and Validation Process

Whenever systems are changed or new projects are being planned it is essential for all those involved to have sufficient input and understanding of the proposed scheme and to ensure that following final design agreement and any derogations (if present) then a process for moving from the project/capital development and construction phase to operational use should be clearly understood. It is also essential that any significant alteration of any water system includes as part of the project handover process a comprehensive and suitable water risk assessment and the existing water safety plan to be reviewed and adjusted as required.

The current handover checklist forms (GG&C Water Safety Record form 025 - Design checklist for alterations to or new work to water systems & Record form for acceptance of work to be conducted and confirmation of work completed on a water system (029)) are used to ensure this.

The Operational Estates team have worked with the Capital Planning team to continually develop and improve these design Change forms (025 and 029). This has been undertaken since the forms introduction and they continue to work together to improve these further. This has been implemented Board Wide. Whilst the teams continue to work together to improve the process of handover of all projects with water aspects, the deployment could be further supported by additional awareness training for project team members to further support the above areas for improvement.

Introduction

Following an instruction by the Scottish Hospitals Inquiry team an independent 'one off' audit review has been requested to provide assurance that the current management and maintenance of the domestic hot and cold water systems at the Queen Elizabeth University Hospital site are being safely and appropriately operated in accordance with the requirements of SHTM 04.01 Part B. The independent review of current practice has been completed.

Audit Objectives

The audit has been undertaken to establish the level of compliance and conformance to the HSE L8 ACOP, current NHS best practice and SHTM 04.01 for water systems and the management of Legionella. It aims to set out those areas where standards are met or exceeded and establish those areas where improvement is needed to ensure operational effectiveness and best value. For the avoidance of doubt the audit has been completed to establish the levels of compliance to the current SHTM 04-01 Part B Operational Management standard and does not address any elements of other SHTM water related standards for areas such as design or installation.

Audit Scope

The audit process involved interviewing relevant on-site personnel and (where appropriate) examination of current policies, procedures, relevant inspection records and documentation. Those interviewed included Professor Tom Steele, Hugh Brown, Mark Riddell, Kerr Clarkson, Gillian Mills (Lead IPC Nurse), and Dr Linda Bagrade (DIPC).

Based on these interviews and inspections, an assessment of whether appropriate controls exist and level of compliance to HSE L8, SHTM 04.01 and best practice was established. Sample based testing of documents and records where appropriate was used to ensure actual practices were consistent with the documented systems. This approach was supplemented by visual inspection of all major plant for which the Estates team hold maintenance responsibilities. The audit assessed the current levels of compliance to HSE L8 and HTM 04.01.

Audit Limitations and Disclaimer

The audit was undertaken over the 23rd to the 25th June 2025. The audit used samples and interviews to establish compliance levels; where no failures or non-compliances have been found we cannot guarantee that none exist, however every effort has been made to ensure that where issues exist they have been examined, tested, and appropriately recorded.

Signed



Name: Andrew Poplett IEng, MIHEEM, ACIBSE, AE(W)

Position: Authorising Engineer (Water)

Date: 20th August 2025

Findings & Risk Ratings

Personnel & Water Safety Groups

Question	SHTM 04-01 Part B Clause	Evidence	Comments / Actions
Do you have a formally appointed Designated Person (Board level) for water systems?	6.1/6.5	Yes, Professor Tom Steele, Director of Estates and Facilities, with Mark Riddell Assistant Director of Operational Estates as Deputy Designated Person, both appointed in writing.	
Do you have a formally appointed and appropriately experienced / qualified Authorising Engineer (AE(W))?	6.15	Yes, ProLp Consulting, Dennis Kelly, appointed (Sept 2024) in writing. Fellow of IHEEM, Member of LCA, Chartered Microbiologist and has proven competency in his field to the satisfaction of the Board.	
Do you have a formally appointed Infection Control Officer who is aware of the implications of HTM 04.01?	6.6	IPC department all may take lead in water issues, Dr Abhijit Bal (Adults) / Dr Linda Bagnade (Children) (IPC Drs), Sandra Devine (DIPC)	
Do you have a formally appointed and appropriately experienced / qualified Responsible Person?	6.7	Euan Smith Assistant Head of Operational Estates (South Sector QEUH), with a Deputy RP of Kerr Clarkson.	
Do you have a formally appointed and appropriately experienced / qualified Authorised Person?	6.8	A total of 9 AP(W)s in place, three require refresher training but this has been arranged and the appointments are still current and in date	

Do you have a formally appointed and appropriately experienced / qualified maintenance technician(s)	6.9-6.13	A total of 12 CP(W)s in place, one require refresher training but this has been arranged and the appointments are still current and in date	
To implement its legal duties within a healthcare organisation, the duty holder should appoint a WSG to undertake the commissioning, development, implementation and review of a WSP.	6.4	The Water Safety Group provision is structured as a single Board level WSG with 4 sector (site level) SWSG	
The WSG should have clearly identified lines of accountability up to the duty holder. The roles, responsibility and accountability of the WSG should be defined	6.4	Yes, full organogram of reporting and escalation in place.	

All sub-contractors are identified and assessed prior to working on the site's water systems. All contractors have to complete a City & Guilds training course and as part of induction be assessed and appointed. Full register of appointments present. Any work on water systems requires a PTW to be issued and as part of the PTW process appointments are checked.

All domestic staff who are engaged in flushing/cleaning of outlets are trained under a SOP 'toolbox' style awareness (QEUH SOP Cleaning Process) document and awareness training package.

Water Hygiene Training

Question	SHTM 04-01 Part B Clause	Evidence	Comments / Actions
Only installers with the appropriate qualifications, regulatory knowledge and competence should be used to install and maintain water installations. There are seven Approved Contractors' Schemes authorised through the Water Supply (Water Fittings) Regulations 1999. All seven schemes require appropriate qualifications and knowledge of the regulations as part of their membership criteria.	6.13	All sub-contractors are identified and assessed prior to working on the sites water systems. All contractors have to complete a C&G training course and as part of induction be assessed and appointed. Full register of appointments present. Any work on water systems requires a PTW to be issued and as part of the PTW process appointments are checked.	
Individuals to whom tasks have been allocated (supervisors and managers as well as operatives) need to have received adequate training in respect of water hygiene and microbiological control appropriate to the task they are responsible for conducting.	6.14	All maintenance works are managed or undertaken by appropriate AP(W)s or CP(W)s who have received appropriate training and formal assessment and appointment.	
All designers, Project Managers, Capital Projects staff, and Installers should have an appropriate level of awareness training and competency for the role they fulfil	6.2	All project works should be managed or undertaken following appropriate co-ordination with an AP(W). All project staff should receive appropriate training with formal assessment and appointment, prior to project initiation.	Improvement required see action plan

Water Safety Plans & Water Systems

Question	SHTM 04-01 Part B Clause	Evidence	Comments / Actions
Do you have a formal and suitable written scheme for the control of Legionella in place?	5.1	Yes, WSP 2024 Version K, currently under review/update for the next Sector WSG	
Do you have a current "At risk" profile for patient groups for whom you have responsibility?	4.13	Yes, in section 2.3 of revised/updated WSP	
Do you have a detailed water management policy?	5.9	Yes, Board level Water Policy Version 5 Ratified March 2024 (K), currently under review for March 2026 (as 5.1 above).	
Does the site have an agreed and current water safety plan?		Yes (as 5.1 above).	
Does the water safety plan include the following;-	5.28		
Water treatment	5.10	Yes, within WSP under section 5.3.5	CLO2 dosing system used at incoming tanks (after filtration) with comprehensive records of maintenance and testing present (Scotmas & DMA)
Low usage outlets	5.4-5.7	Yes, within WSP under section 5.3.8	Wards identify any infrequently used outlets and keep records of daily flushing. In addition to Facilities staff recording flushing of outlets during cleaning activity. Quarterly e-mail of reminder to all wards and quarterly reporting by DRP at Board level WSG

			on performance and reviewed as part of incumbent AE(W) water audit
Temporary closures	5.7	Yes, within WSP under section 5.3.22	Water compliance project alert system, managed by AP(W)
Safe water temperatures	5.3	Yes, within WSP under section 5.3.16 & 5.3.17	
TMV's	5.3	Yes, within WSP under section 3.7.7, 3.7.8, & 3.7.9	
Energy management	5.11	Yes, within WSP under various sections to ensure appropriate hot and cold water distribution systems.	Automated temperature monitoring on primary and secondary loops, with any tertiary loops being monitored through TMV/TMT testing monthly sentinel temperature checks.
Maintenance	5.14-5.17	Yes, within WSP under section 3.1	
Performance monitoring	5.18	Yes, within WSP under various sections to ensure appropriate control with specific items addressed under section 3.1	
Emergency Action	5.19	Yes, QEUH Emergency Water Plan March 23.	
Are records available for all of the above identified areas	5.23	Yes, full suite of records present and sampled checked during audit.	
Do you hold current detailed written risk assessments for all water services on site	5.28	Yes, Current WRA completed by DMA (2023)	

Comprehensive system of remedial action monitoring and reporting of progress via smart-sheet system from each building/site/sector. Reported via SWSG and BWSG by AP(W) Matthew Feeney on quarterly update reports and tracking.

At all stages of the design, installation and commissioning of new or extended water systems, the design team should liaise and consult with the local WSG in a timely manner.	5.1	Yes, all design/project teams liaise via the design change form 025, where information and confirmation of compliance to SHTM requirements are recorded / highlighted with statement of conformity where appropriate. With the form 029 used as a checklist at project completion to ensure fulfilment of requirements.	Sample of forms 025 & 029 provided and reviewed considered as satisfactory
Design teams and installers of hot and cold water distribution systems are required by the Water Supply (Water Fittings) Regulations 1999 to notify the water undertaker of any proposed installation of water fittings and to have the water undertakers' consent before installation commences. It is a criminal offence to install or use water fittings without their prior consent. Liaison with the local water undertaker is strongly recommended at an early stage to avoid problems of compliance in the design.	2.2-2.7/6.5	Covered via the above WRAS or similar approval system/framework.	
Only components and sub-assemblies that have been hygienically stored (for example, wrapped in bags and or original packaging) should be used (see also paragraphs 3.42–3.44). All components and sub-assemblies should be inspected before installation to ensure they are clean and free of defect. Efforts should be made to ensure debris and or contamination do not enter the hot and cold systems during construction and maintenance works.	3.10	RP(W)s and AP(W)s are invited by projects to inspection project works during installation in addition to the statements of conformity on form 025 and the handover checklist 029 with the addition of sample testing (as per SHTM) of selected pipework instalment to ensure cleanliness and de-burring etc...	

For new builds and refurbishments, it will be the RP's responsibility to ensure that all operatives intending to work on the water system have completed water hygiene training covering associated risks of working practices and local requirements.	6.1	All capital projects installers are assessed by sector AP(W)s for competence as part of the induction process.	
Shared Premises It is increasingly common for there to be several duty holders in one building. In such cases, duties may arise where persons or organisations have clear responsibility through an explicit agreement such as a contract or tenancy agreement. (<i>Where there is no contract or tenancy agreement in place or it does not specify who has responsibility, the duty is placed on whoever has control of the premises or part of the premises</i>).	2.7	2 building owned/occupied under joint arrangements with Glasgow University (Estates provide and manage all maintenance services under contract). Also 1 PFI unit Langlands managed by Equans Ltd with Equans attending the sector WSG to report and provide water assurance.	
Management of water safety risks and issues Identified water safety risks and issues should be assessed, prioritised and included on a risk register for discussion and management by the WSG and advice given on when these should be escalated to senior management/board level.	5.28	Yes, both Board level and departmental risk register in place. Currently only recorded risk is the on-going issue to replace/refurbish the main water storage tanks due to corrosion of the internal brace work.	
Schematic drawings <u>Separate</u> schematic drawings should be prepared and displayed such that all plant items, control valves etc. can be identified. While providing only an indication of the	5.21	All areas of sector buildings both new and retained have schematic layouts available as part of the WRA process.	

size and scale, they allow someone unfamiliar with the layout of a system to understand the positions and connections of the relevant components quickly.			
In addition to drawings, there should be comprehensive schedules of outlets, lists of sentinel taps (outlets), other outlets to be tested (frequency as per the WSP) and other components in the system.	5.20	Yes, sentinel outlets have been identified via the WRA and associated schematic drawings and agreed through the SWSG. The new build units have adopted the identified sentinel outlets from the design/handover stage and added additional sentinel outlets where appropriate agreed through the SWSG	
Asset register The WSG should ensure that an accurate record of all assets relating to the hot and cold water distribution systems is set up and regularly maintained. They should also ensure that records of all maintenance, inspection and testing activities are kept up-to-date and properly stored.	5.20	A detailed asset schedule is included in each building/area WRA and the PPM system includes full asset information for all activities and associated components.	

Water System Details

Question	SHTM 04-01 Part B Clause	Evidence	Comments / Actions
What type of supply does the site utilise (borehole / mains / tanked)?	7.1	Mains water supply (from two separate incoming sources (for resilience) switched over 11 hours by water supply authority to ensure no risk of stagnation.	
What system of water treatment / hygiene is used (if any)?	7.2	Yes, all incoming water supplies to new build units are filtered to 0.02 micron level prior to main site water tanks where CLO2 dosing system is used to provide additional protection, both are supplementary to the principal control measure of temperature.	
Do you operate a water softening system, if so what system and can you evidence the operation & maintenance procedures / records?	7.21	Understood that the site has no water softeners, however other potential water systems risks identified in document and currently under review for assurance purposes	Copy of Risk Assessment – Other water systems to be reviewed and addressed as necessary, (for example chilled beams and local air conditioning units).
How are water consumptions monitored and recorded?	7.22	Incoming BMS monitoring on water meters, in addition to visual meter readings by shift craftsmen and energy manager monitors turnover. In addition water supply authority (Scottish Water) monitor and report any significant fluctuations in consumptions (e.g. leakage).	
Do you utilise pumped or pressurisation units to provide site water pressure	7.24	Yes, central supplied pressurisation 5 pump staged set with auto change over and sequencing.	

Do you hold detailed services drawings for all water services?	5.21	Within all new builds post 2000, for some retained buildings have some information (estimated around 40%)	
Do you have tanked water storage on site?	7.23	Yes, as above, mains supply is delivered to 4 raw bulk holding tanks (50,000litres each) which in turn supply 4 filtered water storage tanks (135,000 litres each) with a turnover of approximately 8-11 hours established via drop test.	
Do you have annual inspection of tank cleanliness?	7.23	Monthly visual internal inspection with a 6 monthly inspection and annual clean.	
Do you monitor consumption and through-put to avoid stagnation?	7.23	Incoming BMS monitoring on water meters, in addition to visual meter readings by shift craftsmen and energy manager monitors turnover. In addition water supply authority (Scottish Water) monitor and report any significant fluctuations in consumptions (e.g. leakage).	
Unless the water supply is particularly vulnerable to disruption and subject to risk assessment (balancing the microbiological risk and contingency supplies), a nominal 12 hours' on-site storage is recommended.	7.23	(Turnover 8-11 hours) established via drop test.	

Current mains storage tanks (4) are currently under design/consideration for replacement following identification of non compliance materials utilised in original manufacture (internal stations).

Maintenance

Question	SHTM 04-01 Part B Clause	Evidence	Comments / Actions
Do you operate a detailed PPM system for maintenance of all water systems, including:-		Yes, FM First	Schedule of PPMs provided, sample reviewed and considered as appropriate.
Calorifiers / water heaters	7.30	Yes, Plate heat exchangers and flow through buffer vessels. Records indicted correct temperatures at the time of audit.	
TMVs - Are all TMVs subject to regular (6 monthly testing?	7.34	Yes, 6 monthly function test and annual service.	
Have all TMVs been subject to a risk assessment to establish if they are required and any which are not essential should be removed.	7.34-7.36	All patient facing outlets have TMVs currently no formal risk assessment in place to consider removal of excessive/none essential units, but currently under discussion WSP section 3.7.9.	<i>Comment – TMVs should be used where the scalding risk exceeds the potential microbiological risk</i>
Showers & shower heads Disinfection of showerheads and angle-valve strainers has only a short-lived effect on microbial colonisation and growth. Manual cleaning to remove scale and other deposits or replacement of disposable showers should be carried out as based on the risk assessment.	7.37	Showerheads are swapped out every quarter (Dupal colour coded units)	
Drinking stations (water coolers)	8.4	Yes, approx. 140 units (across the entire Hospital campus) managed via contract (Eden) users	<i>Comment – Drip tray units require regular emptying and cleaning and</i>

		responsible for daily and weekly cleaning. All units are mains fed but without mains drainage (e.g. drip tray style).	<i>should be considered as a local staff task.</i>
Filter units	7.40	Incoming filters and POU filters in place. Incoming filters maintained by Viola Ltd 6 monthly (currently in process of replacing filters). POU filters (Currently Pall Medical and T-Safe). Currently deployed in identified high risk or formerly high risk areas.	SOP being developed to agree a protocol for the re-assessment and potential removal of POU filters where appropriate, following the detailed risk assessment process of BS 8580.
Decontamination / deluge showers	8.7	2 units (1 in A&E decontamination room and 1 in the Hydrotherapy pool area with children's unit) Flushed twice weekly.	
Hydrotherapy pools	8.2	Yes, 2 Hydro pools present on site 1 in children's and 1 in Spinal. All maintenance covered by PWTAG approved contractor Azure Pools Ltd). Both pools have separate dedicated risk assessments in place	
Lawn sprinklers	8.9	No	
Ornamental fountains	8.11	Yes, external water feature in spinal therapy garden space.	

Wet fire sprinkler systems	8.24	Wet sprinkler system is in place within Adults and Children's. Maintenance contract (Emtec Ltd) in place, last service March 2025 - satisfactory.	
Fire hose reels	8.13	Partial, old maternity FHR disconnected from supply pipework, however pipework cannot be removed due to asbestos therefore subject to routine flushing	
Portable humidifiers	8.5	No	
Equipment / plant washers	8.8/8.10	No	
Horticultural plant waterers	8.8/8.10	No	
Contract Maintenance Only installers with the appropriate qualifications, regulatory knowledge and competence should be used to install and maintain water installations. The use of 3rd Party Accredited companies is recommended.	6.10-6.13	All sub-contractors are identified and assessed prior to working on the sites water systems. All contractors have to complete a C&G training course and as part of induction be assessed and appointed. Full register of appointments present. Any work on water systems requires a PTW to be issued and as part of the PTW process appointments are checked.	
Do you have a formal permit to work process in operation?	5.12	Yes, covered under section 5.1.2 of WSP. PTW system in place and used for all system modifications or water service interruptions. Sample of Permits checked and found satisfactory.	Suggestion to consider swapping part 4 & 5 around to enable reinstatement of use prior to final sign off.

Inspection & Verification

Question	SHTM 04-01 Part B Clause	Evidence	Comments / Actions
Do you undertake regular water sampling (general)	9.1	Yes, covered under section 5.2, fixed and agreed outlets tested routinely for an agreed range of organisms.	Approx 6000 samples per annum in Adults and Children's with a further 2000 taken within the retained estate annually.
Do you undertake regular testing for Legionella	10.1	Yes as part of the above programme	WSP section 5.4 details full information on what to sample, how often and acceptable/action levels.
Has the need for Legionella testing been discussed and agreed with your control of Infection Officer	10.2	Yes, and kept under review through SWSG	
Do you have an emergency action plan for use in the event of an outbreak	10.5 App1	Yes, within WSP section 5.4.3	
Does it include emergency disinfection processes	7.2	Yes, it details steps and actions to consider	
Do you hold a comprehensive schedule for all air conditioning plant (see AE(V) audit requirements	5.28	Partial, no formal risk assessment of water risk is in place for these units or the chilled beams, although the full suite of mitigation works to manage and control the potential risks is in place.	Consider production of formal risk assessment for air conditioning and chilled beams.

Test Equipment

Calibration certificates for all digital test equipment is subject to annual calibration. A sample of calibration certificates and test records were reviewed and found to be satisfactory.

Records

A series of maintenance records (both reactive and planned preventative maintenance), water risk assessments, and Water Safety Group reports were sampled and reviewed and found to be comprehensive and appropriate.

Emergency Preparedness

It was reported that the emergency procedures relating to the loss of critical water systems have been developed and agreed via the sector water safety groups to ensure roles and responsibilities are understood and accepted. The principle elements of the water system infrastructure have been developed with resilience in place and this has been enhanced in recent years to ensure the risk of unplanned loss of service and maintenance activities can be undertaken without interruption of service. An example of this is the addition of a third bank of incoming water filtration plant providing additional resilience.

Operational Incidents

None reported at the time of audit.

Accidents & Dangerous Occurrences

None reported at the time of audit.

Conclusions

In general terms the audit has demonstrated that the site staff have a very good level of understanding of the requirements to achieve compliance to the current HSE L8, SHTM 04.01 Part B and NHS best practice.

Good evidence is available to provide assurance for the documented maintenance systems, however there are a small number of areas which require improvement or consideration. Many of these areas have been highlighted by the incumbent Authorising Engineer for Water and are understood to be in hand, although some others may need escalation for further consideration or support to fully address.

The current Water Safety Group structure and reporting is considered to be effective and compliant to ensure on-going monitoring of progress and identified issues.

Key themes for areas for potential improvement include:

Communication & Personnel Resources

The Operational Estates team and the Infection Prevention Control team have clearly demonstrated an extremely good and productive working relationship. This is supported by the close location of both teams and the very open and frequent team interactions, the level of co-operation and partnership approach should be considered as an exemplar model for other to adopt.

There does remain one principal concern from the audit in this area:

The working relationship between the Capital Projects team and Operational Maintenance and IPC teams is not as effective as that above. This may be addressed by further awareness training of the importance of water systems and concepts for designers and project managers and this may require additional resources for both the Operational Estates team and IPC teams to have capacity for an increased project review at the early design stages and the proactive management of potential derogations and design challenges. Consideration could be given to allocating specific time & financial resources to the business case development plans and budgets.

Effective Management of Derogations

The Issue of derogation or managing compliance to NHS guidance and standards is often a complex and potentially contentious issue with very long term implications. It can often involve legal issues, and the legal status of NHS specific guidance, and include a range of challenges. From the audit review process it is clear that this area remains an area of potential tension between those involved and it is recommended that the formal procedure (SOP NO:00-C1-V3) is reviewed to ensure that the appropriate risk assessments, mitigations and on-going management of these issues is improved and agreed.

All derogations need to be kept under constant and on-going review to ensure that operational changes, clinical activity or condition surveys and investment planning is undertaken with the full knowledge that areas of the estate may not be fully compliant, or were agreed to be to an alternative standard than that of the established SHTM/SHBN.

Project Staff Awareness Training and Validation Process

Whenever systems are changed or new projects are being planned it is essential for all those involved to have sufficient input and understanding of the proposed scheme and to ensure that following final design agreement and any derogations (if present) then a process for moving from the project/capital development and construction phase to operational use should be clearly understood. It is also essential that any significant alteration of any water system includes as part of the project handover process a comprehensive and suitable water risk assessment and the existing water safety plan to be reviewed and adjusted as required.

The current handover checklist forms (GG&C Water Safety Record form 025 - Design checklist for alterations to or new work to water systems & Record form for acceptance of work to be conducted and confirmation of work completed on a water system (029)) are used to ensure this.

The Operational Estates team have worked with the Capital Planning team to continually develop and improve these design Change forms (025 and 029). This has been undertaken since the forms introduction and they continue to work together to improve these further. This has been implemented Board Wide. Whilst the teams continue to work together to improve the process of handover of all projects with water aspects, the deployment could be further supported by additional awareness training for project team members to further support the above areas for improvement.

Risk Rating Definitions

Impact

Catastrophic (5)

A rating of catastrophic should be interpreted as incurring an extreme / critical risk in the event of failure. This would be a death, or multiples, legal prosecution, or significant/ permanent loss of service / business capacity. It also is connected with the overall cost implications.

Major (4)

A rating of major should be interpreted as incurring a major / critical risk in the event of failure. This could be a major injury or dangerous occurrence, HSE prohibition, legal prosecution, or significant loss of service / business capacity. It also is connected with the overall cost implications.

Moderate (3)

A rating of moderate should be interpreted as incurring a significant risk in the event of a failure. This could include time loss injury, HSE improvement notices or investigation, or a loss of service / business capacity. It also is connected with the overall cost implications.

Minor (2)

A rating of minor should be interpreted as incurring a manageable risk in the event of a failure. This could include minor injury, near misses with potential HSE investigations / reports, or a minor loss / interruption of service / business capacity. It also is connected with the overall cost implications.

Insignificant (1)

A rating of insignificant should be interpreted as incurring a minimal risk in the event of a failure. This could include a near miss with no potential of injury, or a minor interruption of service / business capacity. It also is connected with the overall cost implications.

Likelihood

The likelihood of any occurrence is also scored against a 5 category probability system of: - Rare (1), Unlikely (2), Possible (3), Likely (4), & Almost Certain / Certain (5).

Overall Risk Rating

These two scoring systems are then multiplied to ascertain an overall risk rating for any given issue.

High

A rating of high should be interpreted as incurring a major / critical risk in the event of failure. This could be a death, legal prosecution, or significant loss of service / business capacity. It also is connected with the overall cost implications and likelihood of occurrence.

Medium

A rating of medium should be interpreted as incurring a significant risk in the event of a failure. This could include serious injury, HSE prohibition notices, or a minor loss of service / business capacity. It also is connected with the overall cost implications and likelihood of occurrence.

Low

A rating of low should be interpreted as incurring a minimal risk in the event of a failure. This could include minor injury, HSE investigation, or a minor loss of service / business capacity. It also is connected with the overall cost implications and likelihood of occurrence.

Risk Rating for Action Plan

	Likelihood Assessment				
Impact Assessment	Rare (1)	Unlikely (2)	Possible (3)	Likely (4)	Certain (5)
Insignificant Minimal Impact on service delivery (1)	1	2	3	4	5
Minor Some Impact on service delivery (2)	2	4	6	8	10
Moderate Potentially significant Impact on service delivery (3)	3	6	9	12	15
Major Highly Significant Impact on service delivery (4)	4	8	12	16	20
Catastrophic Extreme Impact on service delivery (5)	5	10	15	20	25

Action Plan

Issue	Risk Rating			Timescale for Action
	Impact	Likelihood	Risk	
Review and expand formal protocol/procedure for the agreement and on-going management of derogations.	4	2	8	6 months
Ensure all Project Managers have sufficient water awareness training.	3	2	6	12 months
Consider allocation at Business Case development stage for dedicated resource allocation for both IPC and Operational AP(W) reviews and input to Projects.	3	2	6	12 months
Ensure identified and current AP(W)s and CP(W)s complete suitable refresher training and re-assessments/re-appointments as planned	2	1	2	6 months
Review current WRAs to ensure all 'open water' systems are suitably identified and assessed (chilled beams, air conditioning units, etc.)	2	2	4	12 months
Complete SOP for the management (deployment & removal) of POU filters, understood to be nearing completion.	2	2	4	12 months
Consider review of permit to work process flow diagram/forms to simplify current process.	1	1	1	12 months

Schedule of Abbreviations /Acronyms

Acronym	Definition
A&E	Accident and Emergency
ACOP	Approved Code of Practice
AE(V)	Authorising Engineer (Ventilation)
AE(W)	Authorising Engineer (Water)
AP(W)	Authorising Person (Water)
BMS	Building Management Systems
BSWG	Board Water Safety Group
C&G	City and Guilds
CP(W)	Competent Person (Water)
DDP	Deputy Designated Person
DIPC	Director of Infection Prevention and Control
DRP	Deputy Responsible Person
FHR	Fire Hose Reels
HSE	Health and Safety Executive
HTM	Health Technical Memorandum (SHTM Scottish)
IHEEM	Institute of Healthcare Engineering and Estate Management
IPC	Infection Prevention and Control
LCA	Legionella Control Association
NHS	National Health Service
PFI	Private Financial Incentive
POU	Point of Use
PPM	Planned Preventive Maintenance
PTW	Permit to Work
PTWAG	Pool Water Treatment Advisory Group
QEUH	Queen Elizabeth University Hospital
RP(W)	Responsible Person (Water)
SHTM	Scottish Health Technical Memorandum
SOP	Standard Operating Procedure
SWSG	Sector Water Safety Group
TMV/T	Thermostatic Mixing Valve/Tap
WRA	Water Risk Assessment
WRAS	Water Regulation Approval Scheme
WSG	Water Safety Group
WSP	Water Safety Plan

Andrew Poplett Enterprises Ltd

**Specialist Healthcare Ventilation Systems
Authorising Engineers Audit & Review
For
The Ventilation Systems at
Queen Elizabeth University Hospital Glasgow**

**On Behalf of
The Scottish Hospitals Inquiry**

July 2025



Undertaken By A. Poplett IEng, MIHEEM, ACIBSE

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Executive Summary

The audit was instructed to establish if the current management arrangements for the ventilation systems present on site are safe and being appropriately managed.

Overall the audit has demonstrated that the Operational Estates and IPC site staff have a very good level of understanding of the requirements to achieve compliance to the current SHTM 03.01 Part B and NHS best practice. For the avoidance of doubt the audit has been completed to establish the levels of compliance to the current interim SHTM 03-01 Part B standard for the management, operation, maintenance and routine testing of existing healthcare ventilation systems and does not address any elements of the current interim SHTM Part A standards for the concept, design, specification, installation and acceptance testing of healthcare ventilation systems.

Good evidence is available to provide assurance for the documented maintenance systems, however there are a small number of areas which require improvement or consideration. Many of these areas have been highlighted by the incumbent Authorising Engineer for Ventilation and are understood to be in hand, although some others may need escalation for further consideration or support to fully address.

The current Ventilation Safety Group structure and reporting is considered to be effective and compliant to ensure on-going monitoring of progress and identified issues.

Key themes for areas for potential improvement include:

Communication & Personnel Resources

The Operational Estates team and the Infection Prevention Control team have clearly demonstrated an extremely good and productive working relationship. This is supported by the close location of both teams and the very open and frequent team interactions, the level of co-operation and partnership approach should be considered as an exemplar model for other to adopt.

There does remain one principal concern from the audit in this area:

The working relationship between the Capital Projects team and Operational Maintenance and IPC teams is not as effective as that above. This may be addressed by further awareness training of the importance of ventilation strategies and concepts for designers and project managers and this may require additional resources for both the Operational Estates team and IPC teams to have capacity for an increased project review at the early design stages and the pro-active management of potential derogations and design challenges. Consideration could be given to allocating specific time and financial resources to the business case development plans and budgets.

Effective Management of Derogations

The Issue of derogation or managing compliance to NHS guidance and standards is often a complex and potentially contentious issue with very long term implications. It can often involve legal issues, and the legal status of NHS specific guidance, and include a range of challenges. From the audit review process it is clear that this area remains an area of potential tension between those involved and it is recommended that the formal procedure (SOP NO:00-C1-V3) is reviewed to ensure that the appropriate risk assessments, mitigations and on-going management of these issues is improved and agreed.

All derogations need to be kept under constant and on-going review to ensure that operational changes, clinical activity or condition surveys and investment planning is undertaken with the full knowledge that areas of the estate may not be fully compliant, or were agreed to be to an alternative standard than that of the established SHTM/SHBN.

Project Handover Process and Formal Checklists for Validation

Whenever systems are changed or new projects are being planned it is essential for all those involved to have sufficient input and understanding of the proposed scheme and to ensure that following final design agreement and any derogations (if present) then a process for moving from the project/capital development and construction phase to operational use should be clearly understood. To this end it is recommended that the Estates team give consideration to the recently published IHEEM Briefing Note for the Production and Use of a Commissioning Brief and a suitable project handover checklist to ensure the smooth transition from project to operational phases.

Documentation

Production of a single Comprehensive Operational Procedure document to cover current individual SOPs and include;

- Process flowchart for the permit to work system,
- Ductwork cleaning assessment process and specification for undertaking cleaning works,
- Process for air cleaning 'scrubber' deployment

This document could also incorporate a number of the previously identified issues / areas for improvement.

Introduction

Following an instruction by the Scottish Hospitals Inquiry team an independent 'one off' audit review has been requested to provide assurance that the current management and maintenance of the ventilation systems at the Queen Elizabeth University Hospital site are being safely and appropriately operated in accordance with the requirements of SHTM 03.01. The independent review of current practice has been completed to provide a level of assurance for the ventilation services at the Queen Elizabeth University Hospital site.

Audit Objectives

The audit has been undertaken to establish the level of compliance and conformance to the current NHS best practice and SHTM 03.01 for healthcare ventilation systems. It aims to set out those areas where standards are met or exceeded and establish those areas where improvement is needed to ensure operational effectiveness and best value.

Audit Scope

The audit process involved interviewing relevant on-site personnel and (where appropriate) examination of current policies, procedures, relevant inspection records and documentation. Those interviewed included Professor Tom Steele, Hugh Brown, Mark Riddell, Kerr Clarkson, Gillian Mills (Lead IPC Nurse), and Dr Linda Bagrade (DIPC).

Based on this interview and inspections, an assessment of whether appropriate controls exist and level of compliance to current SHTM 03.01 and best practice has been established. Sample based testing, where appropriate, was used to ensure actual practices were consistent with the documented systems.

The audit assessed the current levels of compliance to the interim SHTM 03.01.

Audit Limitations and Disclaimer

The audit was undertaken over the 23rd to the 25th June 2025. The audit used samples and interviews to establish compliance levels; where no failures or non-compliances have been found we cannot guarantee that none exist, however every effort has been made to ensure that where issues exist they have been examined, tested, and appropriately recorded.

Signed



Name: **Andrew Poplett IEng, MIHEEM, ACIBSE, AE(V)**

Position: **Authorising Engineer (Ventilation)**

Date: **20th August 2025**

Findings & Risk Ratings

Appointment of Named Persons & Personnel Related Issued

Question	Clause SHTM 03-01 Part B	Evidence	Comments / Actions
Do you have a formally appointed Designated Person (Board level) for all critical ventilation systems	2.7	Yes, Professor Tom Steele, Director of Estates and Facilities, in writing 7 th May 25.	Copy of DP appointment and acceptance letter provided and reviewed
Do you have a formally appointed and appropriately experienced / qualified Authorising Engineer (AE(V))	2.8	Yes, MMCTS Jamie Minhinnick, Appointed May 24 until Apr 27 with annual purchase order.	Copy of AE appointment and acceptance letter provided and reviewed
Do you have a formally appointed and appropriately experienced / qualified Authorising Person(s) (AP(V))	2.9	Yes, 7 formal AP(V)'s • Hugh Brown • Connor Stepney • Ben Twaddle • William Fenn • John Hetherston • Gary Donachie • Ryan Ogilvie	
Do you have a formally appointed and appropriately experienced / qualified Competent Person(s) (CP(V))	2.10	Yes, formal CP(V)s in place 13 in house CPs have been assessed and appointed in writing by C Stepney. Records are held on SMARTSHEET and in the shared drive. Sub-contracted service providers are also assessed and competency recorded with good evidence held for Correct Air Solutions Ltd, FREWS Ltd, H&V Ltd and Livingston Mechanical Ltd and Sweegon Ltd in the Estates shared drive.	

Do you have a formally appointed Infection Control Officer who is aware of the implications of SHTM 03.01?	2.11	IPC department all may take lead in ventilation issues, Dr Abs Ballit (Adults) / Dr Linda Bagrade (Children) (IPC Drs), Sandra Devine (DIPC).	
Do you have formally appointed plant users for all critical ventilation systems (postholders with responsibility for the operational management/use of systems e.g. theatre managers)?	2.12	Partial, senior postholders are identified for the purposes of Permit to Work (PTW) sign off, etc. However formal SOP to be confirmed.	Check to see if a formal SOP is in place for the PTW system.
Do you have formally informed Operators for all critical ventilation systems (postholder who use or have a degree of control of the systems e.g. theatre sisters)? If so how is the training / competency recorded, managed, and refreshed?		Partial, Patient placement process ensures suitable assessment of patient placement, specialist areas (Pharmacy / Sterile Services Department) considered suitably knowledgeable. Theatre areas may need additional awareness training.	Check to see if suitable awareness training is in place / recorded.
Do you have an established Ventilation Safety Group (VSG)?	1.52/2.16-2.21	Yes, last meeting was 6 th May 25 (Quarterly). Sector level Ventilation meeting (Quarterly) then a Board level VSG (Quarterly).	
Do you have formal Terms of Reference for the VSG, including escalation processes, and details of meeting frequencies?	2.19	Yes, for both sector level and board VSG have ToR in place. VSG reports/escalates to Infection Control Board (ICB).	
Do the AP(V)s produce regular (quarterly) assurance /status reports to the VSG?	2.21	Monthly ventilation report produced by AP(V)s for the SLVM. In addition the Compliance Manager produces a compliance report for the Statutory Compliance Audit Risk Tool (SCART) meeting which includes ventilation.	
Do the Projects representatives produce regular (quarterly) progress/status reports on ALL projects works which may affect the ventilation systems?	2.20	Yes, the projects team produce regular status reports and PA1 and PA2 forms when works are being planned.	

Ventilation Systems

Question	Clause SHTM 03-01 Part B	Evidence	Comments / Actions
Do you have a formal ratified Ventilation Policy for the management of all ventilation systems?	2.22-2.23	Yes, June 2024, considered appropriate and due formal review 2026.	Current Ventilation Policy based on the current Interim SHTM document and will need review when the formal SHTM is finalised.
Do you hold a formal register/asset schedule for all ventilation systems, which indicates status (critical/non-critical/LEV/etc.)?	1.33-1.34	Yes, a full detailed schedule including all ventilation systems, areas served, status (Critical, None Critical, or LEV), and site wide air change rate performance (2020 - COVID).	
Does the inventory/asset schedule include all relevant information and details?	1.35	Yes, see above.	
Does each identified ventilation system have a log book or similar record/file?	1.38	Yes, a mix of electronic data from CAFM system and physical logbook per system and share-point for external maintenance records.	
Do you have full sets of detailed record drawings for every ventilation system? Including test hole and commissioning details?	3.17	Partial, The majority of new buildings (post 2000) are considered to have accurate drawings, however not all not test points are shown/detailed. The retained estate is not considered to have comprehensive drawings.	

Do you have details of all original plant design criteria?		Partial, Retained (old estate) no original design information present. New build (post 2000) some design information is based from commissioning results for all systems, however no formal validation was conducted. Although annual verifications for critical systems are based against current SHTM standards.	
Do you have a formal procedure/standard for the handover information provided and checked upon completion of all new ventilation systems?	1.40	No formal checklist or procedure, however AP(V)s do check all projects to ensure new or modified systems are compliant.	This is considered as an area for potential improvement, template checklist to be provided by APE.
Do you have a system for annual inspection of all ventilation plant (AHUs), including internal condition, ductwork, and major equipment operation.	3.1	Yes, CAFM PPM system for ever AHU and associated plant.	
Are all AHU securely housed with controlled access for authorised personnel only.	3.3 - 3.09	Yes.	
Are all ventilation plants located in areas without combustion equipment present?	3.11	Yes.	
Are all ventilation plants suitably and clearly labelled?	3.15	Yes, recent exercise to adopt current SHTM 03-01 standard.	

Are all LEV systems identified and subject to annual performance testing by a certified competent person (trained/certified to P601)?	1.49	Yes, All identified LEVs are maintained and tested by Correct Air Ltd with safety fume cabinets managed by GLA Ltd. Pharmacy and Pathology manage their own systems but report to VSG/AP(V)s with copy of records.	
Do you have any chilled beams present on site? If so, are they subject to quarterly inspection and maintenance and suitably located for access/maintenance?	3.74 / 5.35	The new build areas are all served by chilled beam systems. They are accessible if patients are moved from room or use of HEPACART access system.	
Are all AHU plants inspected and checked in accordance with the requirements of SHTM 03.01 Part B, including;		Copy of PPM checklist provided and reviewed found to be satisfactory.	
Air Intakes	3.27 - 3.29	Vermin screens (6mm).	
AHU Drainage	3.30 - 3.39 / 5.7	Yes, glass traps present of wet sections.	
Viewing Ports	3.24	Yes.	
Dampers	3.40	Yes.	
Fan Drives	3.41 - 3.44	Mix of belt and pulley and direct drive units.	
Heater Batteries	3.45	LPHW, Cu coils with Cu Fins.	
Cooling Coils / Eliminators	3.46 - 3.49	Chilled water Cu coils with Cu Fins.	

Humidifiers	3.50 - 3.58	1 unit Neuro unit (electric steam generation).	No other humidifiers
Filtration	3.59 - 3.66 / 5.8 - 5.17	Generally G4 & F7 (ePM1 @ 50%) with HEPA H14 to all isolation rooms.	
Energy recovery	3.67 - 3.69	Yes, mix of cross flow heat exchangers and run around coils.	
Attenuation	3.70	Yes (where necessary).	
Identification	3.15	Yes.	
Pressure Stabilisers (where applicable)	3.71-3.73	Yes (theatres and Isolation rooms).	
Transfer Grilles	5.25	Yes, where appropriate.	
UCV Canopy Cleaning	5.20	TBC.	Impact and allocation of UCV perforate plate quarterly cleaning to be assessed and confirmed.
Do you have any portable recirculating filter units (air scrubbers)? If so, do you have and follow an agreed SOP, including weekly inspections?	3.79 / 5.43 – 5.45	Yes, central stock of units held by Estates, SOP in place. Details of numbers and deployment process to be clarified.	Copy of SOP reviewed, found to cover filter changing and maintenance of units. It does not appear to cover risk assessment methodology for determining deployment or withdrawal.

Inspection and Verification

Question	Clause SHTM 03- 01 Part B	Evidence	Comments / Actions
Are all ventilation systems inspected (at least) annually, using HTM 03.01 checklists as a minimum?	4.1 - 4.3	Yes, see above.	
Have all critical ventilation systems been formally identified and recorded as such?	4.7	Yes, within ventilation system schedule.	
Are all critical ventilation systems checked (at least) quarterly?	4.4 - 4.6	Yes, All ventilation plants are subject to monthly visual inspection.	
Are all critical ventilation systems verified annually for performance?	4.8 - 4.33	Yes, Correct Air and MAT Ltd used for all verifications, random of 24 system verification reports reviewed and found to be satisfactory.	
Does your ventilation Policy/Operational Procedures include actions to be taken in the event of a system verification failure/issue (escalation process)?	4.34-4.35	Yes, Day sheet provided by verifier for AP(V), who reviews and escalates to both IPC and department, as necessary.	
How are maintenance records recorded/stored and for how long?	1.32	Hard copy and electronic copies at least 5 years.	

Maintenance

Question	Clause SHTM 03-01 Part B	Evidence	Comments / Actions
Do you have a formal system of PPM's and are these suitably documented?	5.1	Yes, FM First CAFM system in place.	Examples of PPMs with advice notes provided, reviewed and found appropriate.
Have all maintenance procedures and PPMs been reviewed within the last 2 years? If so what date?	1.3	All generic RAMS reviewed last Feb 25.	
Do you have specific detailed risk assessments for all work undertaken on your ventilation systems?	2.24-2.25	All PPMs and RAMS are written to fulfil generic issues and reviewed. Each Technician then uses dynamic assessment and experience to identify any local site specific issues or changes.	
Do you have a formal permit to work or equipment release certificate process in operation?	2.27	Yes, copy provided and reviewed. Suggestion to consider swapping part 5 & 6 around to enable reinstatement of use prior to final sign off.	Check to see if a formal SOP is in place for the PTW system
Do you have a programme of ventilation system (ductwork) inspection?	5.26-5.34	Partial, As part of fire damper drop testing programme an informal assessment of cleanliness is completed/recorded. Process to review and follow up on potential cleaning action remains to be assessed/addressed.	Action required.
Do you have formal processes for ductwork cleaning and re-commissioning	5.32 - 5.34	No, A formal specification to be shared by APE to consider approach.	Action required.
Do you have a formal process/PPM for grille cleaning?	5.18-5.19	Yes, general areas annual, with more frequent cleaning of identified/agreed high risk/traffic areas.	

Do you have a programme for the inspection and testing of all fire dampers (annually)	3.82	Yes, undertaken annually by NFDI Ltd (new building) Sweagon (retained), comprehensive report produced with damper failures recorded for both test/function and installation compliance. Issue of ductwork cleanliness addressed above.	Identified remedial actions remain on going, with progress reported via Sector and Group VSGs
Do you have a programme for the inspection and testing of all smoke dampers?	3.82	Yes, as above.	
Do you have 3 monthly inspection and maintenance systems for all split or cassette AC units	3.75 / 5.36	Yes, Specialist contractor (Correct Air Ltd) Comprehensive schedule of units in place for AC units and fan coil units.	
Do you have any portable air conditioner units on site? If so, do you have and follow an agreed SOP, including weekly inspections?	3.77-3.78 / 5.38-5.42	None used on site.	
Are all ventilation plantrooms free from unnecessary stored materials, clean, and tidy?	3.12	General condition considered acceptable, but still potential room for improvement.	
Are all ventilation plantrooms equipped with suitable first aid information and stations including emergency eye wash stations (in date)?		Yes, checked during plantroom inspections and found to be satisfactory.	

Records

Records are generally good, Ventilation Systems Policy in place, VSG to keep under review.

A comprehensive file structure is held in the shared drive. There is an electronic VDR held on the shared S drive. Access is restricted to APs and the compliance team. Each critical system has a hard file log book held securely in the manager's office.

Drawings are held with the VSDR, section 18 and 21.

O&M information was held electronically (Zutec) and on the shared drive for the Adult & Children's and the Lab Block. Original O&M information for the retained estate maternity theatres was reported to be held.

Emergency Preparedness

It was reported that the emergency procedures relating to the loss of critical ventilation systems have been developed and agreed via the sector ventilation safety groups to ensure roles and responsibilities are understood and accepted.

Operational Incidents

None reported at the time of audit.

Accidents & Dangerous Occurrences

None reported at the time of audit.

Conclusions

In general terms the audit has demonstrated that the site staff have a very good level of understanding of the requirements to achieve compliance to the current SHTM 03.01 and NHS best practice.

Good evidence is available to provide assurance for the documented maintenance systems, however there are a small number of areas which require improvement or consideration. Many of these areas have been highlighted by the incumbent Authorising Engineer for ventilation and are understood to be in hand, although some others may need escalation for further consideration or support to fully address.

The current Ventilation Safety Group structure and reporting is considered to be effective and compliant to ensure on-going monitoring of progress and identified issues.

Key themes for areas for potential improvement include:

Communication & Personnel Resources

The Operational Estates team and the Infection Prevention Control team have clearly demonstrated an extremely good and productive working relationship. This is supported by the close location of both teams and the very open and frequent team interactions, the level of co-operation and partnership approach should be considered as an exemplar model for other to adopt.

There does remain one principal concern from the audit in this area:

The working relationship between the Capital Projects team and Operational Maintenance and IPC teams is not as effective as that above. This may be addressed by further awareness training of the importance of ventilation strategies and concepts for designers and project managers and this may require additional resources for both the Operational Estates team and IPC teams to have capacity for an increased project review at the early design stages and the pro-active management of potential derogations and design challenges. Consideration could be given to allocating specific time & financial resources to the business case development plans and budgets.

Effective Management of Derogations

The Issue of derogation or managing compliance to NHS guidance and standards is often a complex and potentially contentious issue with very long term implications. It can often involve legal issues, and the legal status of NHS specific guidance, and include a range of challenges. From the audit review process it is clear that this area remains an area of potential tension between those involved and it is recommended that the formal procedure (SOP NO:00-C1-V3) is reviewed to ensure that the appropriate risk assessments, mitigations and on-going management of these issues is improved and agreed.

All derogations need to be kept under constant and on-going review to ensure that operational changes, clinical activity or condition surveys and investment planning is undertaken with the full knowledge that areas of the estate may not be fully compliant, or were agreed to be to an alternative standard than that of the established SHTM/SHBN.

Project Handover Process and Formal Checklists for Validation

Whenever systems are changed or new projects are being planned it is essential for all those involved to have sufficient input and understanding of the proposed scheme and to ensure that following final design agreement and any derogations (if present) then a process for moving from the project/capital development and construction phase to operational use should be clearly understood. To this end it is recommended that the Estates team give consideration to the recently published IHEEM Briefing Note for the Production and Use of a Commissioning Brief and a suitable project handover checklist to ensure the smooth transition from project to operational phases.

Documentation

Production of a single Comprehensive Operational Procedure document to cover current individual SOPs and include;

- Process flowchart for the permit to work system,
- Ductwork cleaning assessment process and specification for undertaking cleaning works,
- Process for air cleaning 'scrubber' deployment

This document could also incorporate a number of the previously identified issues / areas for improvement.

Risk Rating Definitions

Impact

Catastrophic (5)

A rating of catastrophic should be interpreted as incurring an extreme / critical risk in the event of failure. This would be a death, or multiples, legal prosecution, or significant/ permanent loss of service / business capacity. It also is connected with the overall cost implications.

Major (4)

A rating of major should be interpreted as incurring a major / critical risk in the event of failure. This could be a major injury or dangerous occurrence, HSE prohibition, legal prosecution, or significant loss of service / business capacity. It also is connected with the overall cost implications.

Moderate (3)

A rating of moderate should be interpreted as incurring a significant risk in the event of a failure. This could include time loss injury, HSE improvement notices or investigation, or a loss of service / business capacity. It also is connected with the overall cost implications.

Minor (2)

A rating of minor should be interpreted as incurring a manageable risk in the event of a failure. This could include minor injury, near misses with potential HSE investigations / reports, or a minor loss / interruption of service / business capacity. It also is connected with the overall cost implications.

Insignificant (1)

A rating of insignificant should be interpreted as incurring a minimal risk in the event of a failure. This could include a near miss with no potential of injury, or a minor interruption of service / business capacity. It also is connected with the overall cost implications.

Likelihood

The likelihood of any occurrence is also scored against a 5 category probability system of: - Rare (1), Unlikely (2), Possible (3), Likely (4), & Almost Certain / Certain (5).

Overall Risk Rating

These two scoring systems are then multiplied to ascertain an overall risk rating for any given issue.

High

A rating of high should be interpreted as incurring a major / critical risk in the event of failure. This could be a death, legal prosecution, or significant loss of service / business capacity. It also is connected with the overall cost implications and likelihood of occurrence.

Medium

A rating of medium should be interpreted as incurring a significant risk in the event of a failure. This could include serious injury, HSE prohibition notices, or a minor loss of service / business capacity. It also is connected with the overall cost implications and likelihood of occurrence.

Low

A rating of low should be interpreted as incurring a minimal risk in the event of a failure. This could include minor injury, HSE investigation, or a minor loss of service / business capacity. It also is connected with the overall cost implications and likelihood of occurrence.

Risk Rating for Action Plan

	Likelihood Assessment				
Impact Assessment	Rare (1)	Unlikely (2)	Possible (3)	Likely (4)	Certain (5)
Insignificant Minimal Impact on service delivery (1)	1	2	3	4	5
Minor Some Impact on service delivery (2)	2	4	6	8	10
Moderate Potentially significant Impact on service delivery (3)	3	6	9	12	15
Major Highly Significant Impact on service delivery (4)	4	8	12	16	20
Catastrophic Extreme Impact on service delivery (5)	5	10	15	20	25

Action Plan

Issue	Risk Rating			Timescale for Action
	Impact	Likelihood		
Fire and smoke damper inspection and testing has been completed in accordance with EFA requirement, however results and rectification works need to be assessed, prioritised, and completed.	4	3	12	On going
Review and expand formal protocol/procedure for the agreement and on-going management of derogations.	4	2	8	6 months
Review Ventilation Systems Estates Procedures (operational procedures), to ensure comprehensive coverage of all identified issues.	4	2	8	6 months
Ensure all Project Managers have sufficient ventilation awareness training.	3	2	6	12 months
Consider allocation at Business Case development stage for dedicated resource allocation for both IPC and Operational AP(V) reviews and input to Projects.	3	2	6	12 months
Develop formal process for Project Handover and checklists	2	2	4	6 months
Formally appointed plant operators for all critical ventilation systems to be identified.	2	2	4	6 months (VSG Task)
Formally informed Users for all critical ventilation systems to be identified and awareness training competencies to be confirmed.	2	2	4	12 months (VSG Task)
Develop formal specification for ductwork cleaning works (Potentially as part of comprehensive Ventilation Operational Procedure review).	2	2	4	12 months

Appendices (Enclosures)

1. IHEEM Ventilation Technical Platform (VTP) - VTP/BN/003/V01. Apr 25 Briefing Note for the Production and Use of a Commissioning Brief
2. APE Ltd - Template Derogation Protocol for the Identification, Justification, Recording, & Management of NHS standards & guidance including all HTMs/HBNs Project & Operational Derogations
3. General Specification for the Cleaning of Ventilation & Air Conditioning Systems
General Specification – Template

Schedule of Abbreviations/Acronyms

Acronym	Definition
AC	Air Conditioning
AE	Authorising Engineer
AHU	Air Handling Unit
AP	Authorising Person
AP(V)	Authorising Person Ventilation
APE	Andrew Poplett Enterprises Ltd
CAFM	Computer-Aided Facilities Management
CP	Competent Person
CP(V)	Competent Person Ventilation
CSSD	Central Sterile Services Department
DIPC	Director of Infection Prevention and Control
DP	Designated Person
EFA	Estates & Facilities Alert
FM	Facilities Management
HBN	Health Building Note
HEPA	High Efficiency Particulate Air (filter)
HSE	Health and Safety Executive
HTM	Health Technical Memorandum (Scottish)
ICB	Infection Control Board
IHEEM	Institute of Healthcare Engineering and Estate Management
IPC	Infection Prevention and Control
LEV	Local Exhaust Ventilation
LPHW	Low Pressure Hot Water
MMCTS	M&M Consultancy Services
NFDI	Nationwide Fire Damper Inspections
NHS	National Health Service
O&M	Operations and Maintenance
PPM	Planned Preventive Maintenance
PTW	Permit to work
RAMS	Risk Assessment and Method Statement
SCART	Statutory Compliance Audit Risk Tool
SHTM	Scottish Health Technical Memorandum
SLVM	Sector Level Ventilation Meeting
SOP	Standard Operating Procedure
ToR	Terms of Reference
UCV	Ultra Clean Ventilation
VDR	Virtual Data Room
VSDR	Virtual Simplified Data Room
VSG	Ventilation Safety Group
VTP	Ventilation Technical Platform

SHI Domestic Water System Commissioning Review Report

At

The Queen Elizabeth University Hospital, Glasgow,

&

The Royal Hospital for Children

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1. Introduction

1.1 Introduction of the Expert Witness

- 1.1.1 I have provided within Appendix 1 of this report details on my qualifications, experience, and knowledge to act as an expert witness in relation to the healthcare domestic water systems. I am an Authorising Engineer (AE) and currently employed as an independent healthcare consultant, where my role is to provide input/expertise to health facilities in relation to the design review, installation, validation and operational management of water and ventilation systems. As an AE I act as an independent professional adviser to the healthcare organisation. I have been peer-reviewed and operate now as a registered AE for both water and specialist ventilation systems (separately). The peer review process (by the Institute of Healthcare Engineering & Estate Management (IHEEM)) provides a level of assurance that I have been assessed by their peers to work and act in a manner and standard which meets the institutes code of practice and conforms to the requirements of the SHTM. I have over 35 years' experience of healthcare estates management working in that time as a contract installer, operational engineer and manager (within the NHS) and as an external independent consultant (AE).
- 1.1.2 The Inquiry has provided me with the following topics and questions insofar as they are within my areas of expertise (Domestic Water Systems) and it is possible to address them on the evidence and data available to me:
- From the point at which there were patients within the QEUH/RHC were the water systems (including drainage) in an unsafe condition, in the sense that it presented an additional risk of avoidable infection to patients?
 - Are the water systems no longer in an unsafe condition in the sense that they now present no additional avoidable risk of infection?
- 1.1.3 I am clear that my duties include assisting the Inquiry in an impartial manner.
- 1.1.4 I acknowledge and understand that it is my duty, both in preparing reports and in giving oral evidence, to assist the inquiry on matters within my field of expertise and I will continue to comply with that duty.
- 1.1.5 I have no connection, personal or otherwise, to any core participant in the Inquiry other than that I have declared in this report.
- 1.1.6 I declare that I have no financial or economic interest in the outcome of the Inquiry.
- 1.1.7 I acknowledge and accept the necessity of expressing an independent opinion which is the product of my own consideration and I have complied with the duty to do so.

- 1.1.8 I acknowledge the duty to set out all material facts, assumptions, methodology, or other matters upon which my views and opinions are based, including such matters as may detract from the opinion formed, and I have complied with that duty.
- 1.1.9 I acknowledge the duty to address only areas within my own area of expertise and that I have made it clear when a particular question or issue falls outside my expertise and I have complied with that duty.
- 1.1.10 I acknowledge, understand and accept the obligation to state if my opinion is not properly researched because of insufficient data are available and to give an indication that the opinion is no more than provisional, and I have done so in my report where appropriate.
- 1.1.11 I acknowledge, understand and accept the obligation to indicate if any opinion I have expressed is qualified, or subject to revision, and have done so in my report where appropriate.
- 1.1.12 I acknowledge, understand and accept that I should, at the earliest opportunity after completing the report, indicate if, for any reason, including as a result of discussions with other experts, my views have been altered or the report requires any correction or qualification, and if so, in what area, and I shall comply, with that duty.

Signed

A solid black rectangular box used to redact the signature of the author.

Name: Andrew Poplett IEng, MIHEEM, ACIBSE, AE(W)

Position: Authorising Engineer (Water)

Date: 20th August 2025

12 Executive Summary

- 12.1 This report has been instructed by the Scottish Hospitals Inquiry to provide an independent expert report that addresses the following Key Questions in respect of the domestic hot and cold water systems.
- 12.2 From the point at which there were patients within the QEUH/RHC were the domestic hot and cold water systems (including drainage) in an unsafe condition, in the sense that it presented an additional risk of avoidable infection to patients?
- 12.3 Are the domestic hot and cold water systems no longer in an unsafe condition in the sense that they now present no additional avoidable risk of infection?
- 12.4 Specifically whether all the testing data, when considered together with the testing data reviewed for the initial report 'Independent Expert Report Concerning Domestic Hot and Cold Water Systems at the Queen Elizabeth Hospital, Glasgow, and the Royal Hospital for Children' dated 10th June 2024¹, allows a conclusion as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover?
- 12.5 In respect of the document the Written Scheme pertaining to QEUH/RHC Version J² it is required that consideration is given to the testing scheme at Appendix 2 of this document and commentary provided on whether it contains a suitable, effective and/or appropriate standard of water testing for the QEUH/RHC given the requirements of SHTM 04-01, L8 and HSG 274.

12.6 Overall Water Analysis Review Conclusions

- 12.7 The staged approach to the wetting and commissioning of the water systems including the use of wet hydraulic pressure testing was in my opinion based on the available evidence sub-optimal and cannot be relied upon to provide appropriate assurance that the water systems were not potentially contaminated at the point of handover/occupation.
- 12.8 The approach of the disinfection process was in my opinion based on the available evidence sub-optimal and cannot be relied upon to provide appropriate assurance that the water systems were not potentially contaminated at the point of handover/occupation.

¹ A47968827 - Independent Expert Report concerning domestic hot and cold water systems at QEUH and RHC - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 21 Volume 1 - Expert Reports - Page 354

² A49516753 - QEUH Campus Water Systems Written Scheme – 2024 Rev J - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 27 - Volume 1 - Miscellaneous Documents - Page 276

- 12.9 The water sampling undertaken and the range and extent of micro-organisms tested for is in my experience the minimum required by the SHTM and given the intended clinical activities and patient groups involved I would have anticipated a greater degree of testing as outlined in section 1.6 of this report.
- 12.10 This conclusion is supported by the Current QEUH Water Safety (WSP)³ and the comprehensive detail and water sampling testing protocol outlined within this document. The current approach provides good levels of assurance that the current water systems are being proactively managed with suitable management control processes in place.
- 12.11 It is not possible to provide an absolute answer to the question posed, as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover. The analysis demonstrated that a number of outlets tested failed to provide satisfactory test results when first undertaken, although further testing did demonstrate that these initial failures were addressed and satisfactory results obtained. However as no detail of what corrective action took place, the detail and exact process for the original water sampling or any subsequent re-sampling and the apparent conflict of timings between disinfection processes and sampling all provide poor or at best limited assurance for the condition of the water systems at the time of handover.
- 12.12 Finally there were conflicting statements relating to when and how the domestic water systems were commissioned and 'wetted'. These range from July 2013 through to January 2015, although it is likely that the systems may have been commissioned progressively or in stages, which raises the potential issues of the effective flushing of a partial system. It is understood that the system was filled in stages over the course of 2013, with the sections remaining filled after hydraulic pressure testing which strongly suggests that the system could not be flushed until whole system was completed and pressure tested. Individual sections could not be flushed based on Robert O' Donovan's oral evidence. The entire system must have been filled in December 2014 based on the evidence of the water testing results.

³ A49516753 - QEUH Campus Water Systems Written Scheme - 2024 Rev J - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 27 - Volume 1 - Miscellaneous Documents - Page 276

13 Scope of Report

13.1 This report has been instructed by the Scottish Hospitals Inquiry to provide an independent review that addresses the following Key Questions in respect of Domestic Water Systems:

- Of the water system from the point at which there were patients within the QEUH/RHC was the water system (including drainage) in an unsafe condition, in the sense that it presented an additional risk of avoidable infection to patients?
- Are the water systems no longer in an unsafe condition in the sense that they now present no additional avoidable risk of infection?

14 Specific Instructions for the Report

14.1 Whether all the testing data, when considered together with the testing data reviewed for the initial report 'Independent Expert Report Concerning Domestic Hot and Cold Water Systems at the Queen Elizabeth Hospital, Glasgow, and the Royal Hospital for Children' dated 10th June 2024⁴, allows a conclusion as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover?

14.2 In considering the above question consideration / commentary is required to the following:

- How robust was the methodology described for producing the data?
- Do the methods used raise concerns, in terms of good practice?
- Do concerns exist with the reported test results?
- Insofar as these results are one off / intermittent, does that create a difficulty in drawing any conclusions?

14.3 In respect of the document the Written Scheme pertaining to QEUH/RHC Version J⁵ it is required that consideration is given to the testing scheme at Appendix 2 of this document and commentary provided on whether it contains a suitable, effective and/or appropriate standard of water testing for the QEUH/RHC given the requirements of SHTM 04-01, L8 and HSG 274.

15 Schedule of Assumptions

15.1 Much of the information referenced has been provided by the Inquiry team through information requests and disclosures. The information has been reviewed and assessed where necessary using samples to reflect multiple

⁴ A47968827 - Independent Expert Report concerning domestic hot and cold water systems at QEUH and RHC - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 21 Volume 1 - Expert Reports - Page 354

⁵ A49516753 - QEUH Campus Water Systems Written Scheme - 2024 Rev J - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 27 - Volume 1 - Miscellaneous Documents - Page 276

information submissions. The accuracy and validity of the submissions has been taken at face value and reviewed on the basis of them being accurate and complete. Where information has not been available then this has been clearly stated and to the best of my abilities and knowledge no other assumptions have been made in the preparation of this report.

1.6 Exclusions / Limitation of the Report

- 1.6.1 I have been asked to provide a written Expert Witness Report to the Scottish Hospitals Inquiry (SHI) with regards my knowledge and familiarity with the English guidance of the Health Technical Memoranda (HTM) 04-01, on which the Scottish guidance, Scottish Health Technical Memoranda (SHTM) 04-01 series, is based. I have also been asked to provide a report with regards to my knowledge and experience in design, installation, commissioning and validation of water systems in hospitals.
- 1.6.2 The review process has involved limited time (2 months with substantial evidence requiring review and interpretation) and significant levels of documents and in many cases assessments have been undertaken on a sample basis to establish compliance levels; where no failures or non-compliances have been found I cannot guarantee that none exist, however every effort has been made to ensure that where issues exist they have been considered and appropriately recorded.

1.7 Overview of Water Testing Standards

- 1.7.1 Within the Scottish Health Technical Memorandum 04-01: Water safety for healthcare premises Part A: Design, installation and testing (July 2014) standards are provided for provision of water systems, including but not limited to:
- 1.7.2 Legislation, standards and guidance
- 1.7.3 Under clause 1.10 it states that - *As well as complying with the recommendations outlined in this document, the design and installation of the hot and cold water services, new or extended, in any NHS premises should also comply with:*
- 1.7.4 the Scottish Water Byelaws 2004, recommendations of the water suppliers in the Water Regulations Advisory Scheme's (WRAS) 'Water Regulations Guide', and any other requirements of the local water supply authority (see Note 3);
- 1.7.5 *the Health and Safety Commission's Approved Code of Practice and guidance document L8, which requires that there must be a Written Scheme in place in respect of controlling Legionella in water systems.*
- 1.7.6 Within Chapter 16. Testing and commissioning the following key stages are

outlined:

- 1.7.7 Clause 16.1 states that *while testing and commissioning is regarded as a discrete activity, continuous monitoring is required throughout the installation to ensure that:*
- 1.7.8 *materials and equipment installed comply with the Scottish Water Byelaws 2004 and other British Standards, and are not otherwise unsuitable. Equipment that is listed in the latest edition of the 'Water Fittings and Materials Directory' and installed in accordance with any of its relevant conditions will comply;*
- 1.7.9 *the work is done entirely within the specification for the scheme;*
- 1.7.10 *all the requirements of current legislation are met, both during construction of the installation and when it is completed, particularly with regard to the Health and Safety at Work etc Act 1974.*
- 1.7.11 *The design and commissioning procedures should be signed off on behalf of the client by a suitably experienced public health Engineer.*
- 1.7.12 Water sampling is one element of the commissioning process and is used to provide evidence that the system is operating correctly and safely. The process of water sampling is highly involved and technically complex, however it should be undertaken by suitably competent persons in accordance with BS 7992:2008 (Legionella), BS EN 806, BS 8558:2011 and BS 8554:2015. A summary of the process and purpose is outlined within HSG 274 Part 2 (Microbiological monitoring and Cleaning and Disinfection).

1.8 System Disinfection

- 1.8.1 The initial system disinfection is a 'one off' process to ensure the water system is clean and safe to put into operational use. The critical elements of the disinfection process should be clearly recorded and identify that the disinfection was carried out at the correct stage of the overall commissioning process. It should be undertaken to the appropriate standard, and finally following disinfection, the system must be adequately flushed (Second flushing/ in use simulation).
- 1.8.2 The method chosen for the initial disinfection process was 'Sanosil Super 25' which is a chemical solution of Hydrogen peroxide catalysed with silver ions. The stated concentration and contact time of 150PPM with a contact time of 1 hour is recorded on the disinfection record reports. From an assessment of the Sanosil Super 25 product literature it suggests that 1ml of product should be mixed with 1 litre of water and fill the water system fully and leave for a period of 4 hours, whilst undertaking 'occasional opening of water outlets slightly so that fresh disinfection solution can flow in and the concentration in the system can be uniformly maintained'.
- 1.8.3 No detail of this process has been provided, however the disinfection

- certificates indicate a lower concentration for a shorter period with no flushing through to maintain concentrations during the disinfection process.
- 1.84 A detailed risk assessment and method statement should have been produced for the disinfection process, which should have been presented and agreed by the Boards water safety group prior to undertaking any system disinfection.
- 1.85 Following the disinfection process it is normal to ensure representative water samples are taken to provide evidence of disinfection adequacy.

1.9 Water Sampling Standards

- 1.9.1 Under the SHTM 04-01 Part A Chapter 17 Clause 17.9 - After disinfection, microbiological tests for bacteria colony counts at 37°C and coliform bacteria, including *Escherichia coli*, should be carried out under the supervision of the infection prevention control team to establish that the work has been satisfactorily completed. Water samples should be taken from selected areas within the distribution system. The system should not be brought into service until the infection control team certifies that the water is of potable quality.
- 1.9.2 Whilst the SHTM 04-01 Part A does not specify the need for microbiological testing beyond that detailed above it is custom and practice within acute healthcare settings and specifically those which are to be used for the treatment of highly vulnerable patient groups to consider a wider range of microbiological testing for assurance purposes. Below is detailed a typical template water sampling strategy.
- 1.9.3 The following is intended to provide a framework to be followed for the microbiological sample for water systems within healthcare settings. It may be amended or tailored to suit the specific requirements of any organisation or site and once established should be ratified by the Water Safety Group (WSG) and used as a template standard to inform all stakeholders of what tests are to be undertaken and when. Acceptable testing criteria should also be agreed by the WSG and included as suggested below.
- 1.9.4 HTM 04-01 Part B recommends the following; Sampling
- 15.32 The WSG should discuss and agree a sampling regime and appropriate parameters (physical, chemical and microbiological) depending on the intended use of the system and vulnerability of the patients.
 - 15.33 Sampling should be carried out prior to any construction/refurbishment works and immediately prior to handover, but no sooner than 48 hours after disinfection. It is recommended that sampling is undertaken by an accredited organisation independent of the contractor.
- 1.9.5 Routine water sampling is not usually required in low risk, simple water systems where the primary control measure (temperature) is stable and maintained, however it may be considered necessary in circumstances where control measures have been proven unreliable, previous issues have been

identified, or where high risk vulnerable patients are being treated.

1.96 New Installations & Major Refurbishments

1.97 For new projects or major refurbishments the following tests should be considered;

1.98 Following completion of project works but prior to handover;

- TVC colony counts @ at 22°C
- TVC colony counts @ at 37°C
- Coliform bacteria
- E.coli
- Pseudomonas aeruginosa
- Legionella (Species specific 1-14, & total)
- Mycobacteria (Mycobacterium abscessus)
- Enterococci
- Clostridium perfringens

1.10 Summary of Key Considerations of Water Sampling

1.10.1 Key elements for the water sampling strategy to be effective include the following:

1.10.2 Agree the testing/sampling strategy with the Water Safety Group (WSG), ideally prior to project design sign off.

1.10.3 The water sampling should form an integral element of the installation, testing, and commissioning process, which must also include the timings of each activity and processes and protocols for the systems safe operation and maintenance both prior to and following commissioning up to handover/occupation and operation.

1.10.4 All sampling must be undertaken no sooner than 48 hours after disinfection by suitably qualified and competent persons.

1.10.5 The process for sampling management from collection through to analysis of results should be clearly documented and recorded to provide appropriate assurance to the WSG of the safety of the water systems.

1.10.6 If water sampling is undertaken without a suitable period of time from the disinfection process then there is a risk that residual chemical disinfectant could be present within the pipework or outlet which may provide a false negative microbiological test result. It is therefore essential to allow a minimum of 48 hours between the disinfection process and subsequent water sampling, during which time system flushing or in use simulation

should be undertaken to ensure water samples taken reflect a true 'in use' situation.

1.11 Analysis of Water sampling test data provided

1.11.1 The following documentation has been reviewed to establish the extent and appropriateness of the water sampling undertaken:

1.11.2 H&V Water Testing:⁶

- Plantroom 22 Sterilisation & Lab Results details
- Plantroom 22 Sterilisation Certificate details
- Plantroom 31 Sterilisation Certificate_45613 details
- Plantroom 31,32 33 Sterilisation Certificate details
- Plantroom 33 Sterilisation Certificate_59310 details
- Plantroom 41 Sterilisation Certificate & Lab Results details
- Plantroom 41 Sterilisation Certificate details
- PR21 DOMESTIC STERILISATION RESULTS details
- PR32 DOMESTIC STERILISATION RESULTS details
- PR33 DOMESTIC STERILISATION RESULTS details

1.11.3 A sample of evidence reviewed for the witnessing of the water systems following commissioning is as below:

1.11.4 Plantroom 21

1.11.5 A Domestic Water Services Sterilisation Certificate dated 18th January 2015⁷ records that the hot & cold domestic water services served by Plantroom 21 had been disinfected and the system dosed with Sanosil Super 25 at a dosage rate of 150ppm for 1 hour.

1.11.6 The document includes a Lab Tracker Summary which identifies the locations of outlets where water samples were taken for microbiological analysis. It states that the original sterilisation was undertaken on the 2nd December 2014 with results identifying a test/sample result on the 3rd December 2014.

1.11.7 A total of 49 samples are reported on with a total of 16 being reported as failed, with the failed outlets being re-sampled (date uncertain) but returned as passed on the 18th January 2015.

1.11.8 In addition it appears that 4 samples taken from the original 49 were also tested for Legionella. These outlets are identified as being tested on the tracker and identified as passing. There is within the individual test result sheets (ZG LVLO AAW265 MWS) which was also tested for Pseudomonas aeruginosa which is also marked as a pass, although no mention of the test is recorded on the tracker.

1.11.9 The documentation is identified as a sterilisation certificate when in fact it is a certificate of disinfection.

1.11.10 Dates on the document record disinfection was carried out on the 2nd December 2014 and a fallow period of 48 hours is required between

⁶ All H&V Water Testing documents referred to herein to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

⁷ A42130702 - PR21 DOMESTIC STERILISATION RESULTS - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

disinfection and water sampling, which does not appear to have been allowed. The omission of this fallow time between disinfection and sampling could provide false negative results if residual disinfectant remained present following flushing.

1.11.11 Plantroom 22

- 1.11.12 A Domestic Water Services Sterilisation Certificate dated January 2015⁸ records that the hot & cold domestic water services served by Plantroom 22 had been disinfected and the system dosed with Sanosil Super 25 at a dosage rate of 150ppm for 1 hour.
- 1.11.13 The document includes a Lab Tracker Summary which identifies the locations of outlets where water samples were taken for microbiological analysis. It states that the original sterilisation was undertaken on the 16th January 2015 with results identifying a test/sample result on the 17th January 2015.
- 1.11.14 A total of 111 samples are reported on with a total of 6 being reported as failed, with the failed outlets being re-sampled (date uncertain) but returned as passed on the 25th January 2015.
- 1.11.15 In addition it appears that 1 sample taken from the original 111 was also tested for Legionella. The outlet was identified as being tested on the tracker and identified as passing although the corresponding test sheet does not include the Legionella test result.
- 1.11.16 The documentation is identified as a sterilisation certificate when in fact it is a certificate of disinfection.
- 1.11.17 Dates on the document record disinfection was carried out on the 16th January 2015 and a fallow period of 48 hours is required between disinfection and water sampling, which does not appear to have been allowed. The omission of this fallow time between disinfection and sampling could provide false negative results if residual disinfectant remained present following flushing.

1.11.18 Plantroom 31

- 1.11.19 A Domestic Water Services Sterilisation Certificate dated December 2014⁹ records that the hot & cold domestic water services served by Plantroom 31 had been disinfected and the system dosed with Sanosil Super 25 at a dosage rate of 150ppm for 1 hour.
- 1.11.20 The document includes a Lab Tracker Summary which identifies the locations of outlets where water samples were taken for microbiological analysis. It states that the original sterilisation was undertaken on the 20th December 2014 with results identifying a test/sample result on the 21st December 2014.
- 1.11.21 A total of 109 samples are reported on with a total of 12 being reported as failed, with the failed outlets being re-sampled (date uncertain) but returned as passed (9 on the 11th January 2015, 2 on the 18th January 2015 and the final result on the 25th January 2015).

⁸ A33098635 - Plantroom 22 Sterilisation Certificate and A42130669 - Plantroom Sterilisation & Lab Results - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

⁹ A35823685 - Sterilisation Certificate_45613 - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

- 1.1122 In addition it appears that 5 samples taken from the original 109 were also tested for Legionella. The outlets were identified as being tested on the tracker and identified as passing.
- 1.1123 The documentation is identified as a sterilisation certificate when in fact it is a certificate of disinfection.
- 1.1124 Dates on the document record disinfection was carried out on 20th December 2014 and a fallow period of 48 hours is required between disinfection and water sampling, which does not appear to have been allowed. The omission of this fallow time between disinfection and sampling could provide false negative results if residual disinfectant remained present following flushing.

1.1125 Plantroom 32

- 1.1126 Within the documents provided a comparison between 'Plantroom 31,32 33 Sterilisation Certificate details'¹⁰ and 'PR32 DOMESTIC STERILISATION RESULTS'¹¹ details' was undertaken and the documents contain minor discrepancies, both documents provide information on the water sampling tests from Plantroom 32 although there are formatting and other discrepancies between the documents. Clarity is required to establish the full position, however in general terms both documents show the following:
- 1.1127 A Domestic Water Services Sterilisation Certificate dated December 2014 records that the hot & cold domestic water services served by plantroom 32 had been disinfected and the system dosed with Sanosil Super 25 at a dosage rate of 150ppm for 1 hour. Both documents agree on this detail.
- 1.1128 The documents both include a Lab Tracker Summary which identifies the locations of outlets where water samples were taken for microbiological analysis. It states that the original sterilisation was undertaken on the 20th December 2014 with results identifying a test/sample result on the 22nd December 2014.
- 1.1129 A total of 47 samples are reported on with a total of 14 being reported as failed, with the failed outlets being re-sampled (date uncertain) but returned as passed on the 'Plantroom 31,32 33 Sterilisation Certificate details' document (1 on the 11th January 2015, 2 no the 18th January 2015 and 11 on the 25th January 2015). On the 'PR32 DOMESTIC STERILISATION RESULTS details' document it identifies that of the 14 resamples taken on the 18th January 12 remained as failures with 2 passing, these repeat failures then passed on the 25th January 2014.
- 1.1130 In addition it appears that either 1 or 2 samples taken from the original 47 were also tested for Legionella. The outlets were identified as being tested on the tracker and identified as passing. Again a conflict of information 'Plantroom 31,32 33 Sterilisation Certificate details' document identifies 2 whilst 'PR32 DOMESTIC STERILISATION RESULTS details' document only identifies 1.
- 1.1131 It has been assumed that the 'PR32 DOMESTIC STERILISATION RESULTS details' document was superseded by the 'Plantroom 31,32 33 Sterilisation

¹⁰ A42130690 - Plantroom 31,32 33 Sterilisation Certificate - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

¹¹ A47220083 - PR32 DOMESTIC STERILISATION RESULTS - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

Certificate details' document.

- 1.11.32 The documentation is identified as a sterilisation certificate when in fact it is a certificate of disinfection.
- 1.11.33 Dates on the document record disinfection was carried out on 20th December 2014 and a fallow period of 48 hours is required between disinfection and water sampling, which does not appear to have been allowed as some samples show collection on the 21st December 2014. The omission of this fallow time between disinfection and sampling could provide false negative results if residual disinfectant remained present following flushing.

1.11.34 Plantroom 33

- 1.11.35 Within the documents provided a comparison between 'Plantroom 31,32 33 Sterilisation Certificate details'¹², 'Plantroom 33 Sterilisation Certificate_59310 details'¹³ and 'PR33 DOMESTIC STERILISATION RESULTS details'¹⁴ was undertaken and the documents contain minor discrepancies, all three documents provide information on the water sampling tests from Plantroom 33 although there are formatting and minor discrepancies between the documents. Clarity is required to establish the full position, however in general terms all documents show the following:
- 1.11.36 A Domestic Water Services Sterilisation Certificate dated December 2014 records that the hot & cold domestic water services served by Plantroom 33 had been disinfected and the system dosed with Sanosil Super 25 at a dosage rate of 150ppm for 1 hour. Both documents agree on this detail.
- 1.11.37 The documents all include a Lab Tracker Summary which identifies the locations of outlets where water samples were taken for microbiological analysis. It states that the original sterilisation was undertaken on the 20th December 2014 with results identifying a test/sample result on the 22nd December 2014.
- 1.11.38 A total of 48/50 samples are reported on with a total of 7 being reported as failed, with the failed outlets being re-sampled (date uncertain) but returned as all passed on the on the 11th January 2015.
- 1.11.39 In addition it appears that 1 sample taken from the original 48 or 50 was also tested for Legionella. The outlet was identified as being tested on the tracker and identified as passing.
- 1.11.40 It has been assumed that the 'PR33 DOMESTIC STERILISATION RESULTS details' document was superseded by the 'Plantroom 33 Sterilisation Certificate_59310 details' and 'Plantroom 31, 32 33 Sterilisation Certificate details' document.
- 1.11.41 The documentation is identified as a sterilisation certificate when in fact it is a certificate of disinfection.

1.11.42 Plantroom 41

¹² A42130690 - Plantroom 31,32 33 Sterilisation Certificate - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

¹³ A33098155 - Plantroom 33 Sterilisation Certificate_59310 Certificate - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

¹⁴ A47220204 - PR33 DOMESTIC STERILISATION RESULTS - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

- 1.11.43 Within the documents provided a comparison between 'Plantroom 41 Sterilisation Certificate & Lab Results details'¹⁵ and 'Plantroom 41 Sterilisation Certificate details'¹⁶ was undertaken and the documents contain minor discrepancies, both documents provide information on the water sampling tests from Plantroom 41 although there are formatting and minor discrepancies between the documents. Clarity is required to establish the full position, however in general terms both documents show the following:
- 1.11.44 A Domestic Water Services Sterilisation Certificate dated January 2015 records that the hot & cold domestic water services served by plantroom 41 had been disinfected and the system dosed with Sanosil Super 25 at a dosage rate of 150ppm for 1 hour.
- 1.11.45 The documents include a Lab Tracker Summary which identifies the locations of outlets where water samples were taken for microbiological analysis. It states that the original sterilisation was undertaken on the 20th January 2015 with results identifying a test/sample result on the 21st January 2015.
- 1.11.46 A total of 69 samples are reported on with all samples reported as passed.
- 1.11.47 In addition it appears that 1 sample was taken from the original 69 which was also tested for Legionella. The outlets were identified as being tested on the tracker and identified as passing.
- 1.11.48 The documentation is identified as a sterilisation certificate when in fact it is a certificate of disinfection.
- 1.11.49 Dates on the document record disinfection was carried out on the 20th January 2015 and a fallow period of 48 hours is required between disinfection and water sampling, which does not appear to have been allowed. The omission of this fallow time between disinfection and sampling could provide false negative results if residual disinfectant remained present following flushing.

1.12 Conclusions from Analysis of Water Sampling Records

- 1.12.1 The sampling information provided for review lacks a clear document control process and indicates that version control of the information is unclear.
- 1.12.2 The water sampling undertaken and the range and extent of micro-organisms tested for is in my experience the minimum required by the SHTM and given

¹⁵ A35823967- 3 Plantroom 41 Sterilisation Certificate & Lab Results - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

¹⁶ A47220062 - Plantroom 41 Sterilisation Certificate - to be bundled in Hearing Commencing 16 September 2025 - Bundle 53

- the intended clinical activities and patient groups involved I would have anticipated a greater degree of testing as outlined in section 1.6 of this report.
- 1.123 It is not possible to provide an absolute answer to the question posed, as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover. The analysis demonstrated that a number of outlets tested failed to provide satisfactory test results when first undertaken, although further testing did demonstrate that these initial failures were addressed and satisfactory results obtained.
- 1.124 The information reviewed does not provide details on what levels of test result were assessed as a pass or failure.
- 1.125 The documents also do not detail what if any remedial actions were taken between the initial water samples and follow up re-testing.
- 1.126 The information does appear to demonstrate that a single clear/passed result was considered as satisfactory although it is normal practice to obtain two or three clear results prior to declaring a failed outlet as satisfactory for full assurance purposes.
- 1.127 The current QEUH Campus Water Systems WATER SAFETY PLAN (WRITTEN SCHEME)¹⁷ Controlling the risks of exposure to Legionella and other harmful bacteria in Water Systems 2024 Rev J within Appendix 2 provides comprehensive procedures in the event of out of specification sample for Legionella, Pseudomonas and other monitored bacteria, fungi, moulds, yeasts etc. with an agreed sampling protocol in place and guideline in absence of extant guidelines. Re-sampling is carried out for any water sample found to be above the defined acceptable level until 3 not detected results have been achieved and all actions are recorder as incidents.
- 1.128 Taking this into consideration Microbiology and Operational Estates agreed the following definitions for water monitoring at the QEUH and this is reflected on the sample results to highlight out of specified results.

Table 1 – Extract of QEUH Campus Water Systems WATER SAFETY PLAN (WRITTEN SCHEME) Controlling the risks of exposure to Legionella and other harmful bacteria in Water Systems 2024 Rev J within Appendix 2¹⁸

Type	Permissible sample result	Comment
TVC@37°C	Acceptable levels out with high risk areas are < 100 Cfu/ml:	If levels are >100 CFU/ml, lab should identify the recurring bacteria. In the event of patient infections with suspected links to water ICD may request identification at levels <100 CFU/ml.
TVC@37°C	In high risk areas as defined by NHSGGC Pseudomonas risk assessment TVCs should be <10 Cfu /ml	If >10 CFU/ml Lab should identify the recurring bacteria. In the event of patient infections with suspected links to water ICD may request identification at levels <10 CFU/ml via PAG/IMT.

¹⁷ A49516753 - QEUH Campus Water Systems Written Scheme – 2024 Rev J - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 27 - Volume 1 - Miscellaneous Documents - Page 276

¹⁸ A49516753 - QEUH Campus Water Systems Written Scheme – 2024 Rev J - Scottish Hospitals Inquiry - Hearing Commencing 19 August 2024 - Bundle 27 - Volume 1 - Miscellaneous Documents - Page 396

TVC @ 22°C	Acceptable levels out with high risk areas are < 100 Cfu /ml:	If levels are >100 CFU/ml, lab should identify the recurring bacteria. In the event of patient infections with suspected links to water ICD may request identification at levels <100 CFU/ml.

TVC @ 22°C	In high risk areas as defined by NHSGGC Pseudomonas risk assessment TVCs should be <10 CfU /ml	If >10 CFU/ml Lab should identify the recurring bacteria. In the event of patient infections with suspected links to water ICD may request identification at levels <10 CFU/ml via PAG/IMT.
Coliform	Zero CfU /100ml	As per Scottish Water Guidance
E.coli	Zero CfU /100ml	As per Scottish Water Guidance
Legionella	<50 CfU /l	Any legionella positives as an out of spec from all serogroups (1 – Pneumophila) and (2-14 – Other) regardless of CFU.
Pseudomonas	< 10 CfU /100ml in general areas	As per Pseudomonas Guidance
Pseudomonas	Zero CfU/100ml in Augmented care	Bone Marrow Transplant Units, Haemato-Oncology and Neonatal Units, and any other care areas where patients are severely immunosuppressed through disease or treatment. Critical and intensive care units (neonatal, paediatric and adult), renal units, and respiratory units (including Cystic Fibrosis patient care units). Burns units and other care areas where patients have extensive breaches in their dermal integrity.
SAB@30c	<10 CfU/100ml	Treated as an out of spec in the absence of any National guidance.
Mould@25c	<10 CfU/100ml	Treated as an out of spec in the absence of any National guidance.
SAB@22c	<10CfU/100ml	Treated as an out of spec in the absence of any National guidance.
Yeast@25c	<10 CfU/100ml	Treated as an out of spec in the absence of any National guidance.
Cuprivadis	Zero CfU/100ml	Treated as an out of spec in the absence of any National guidance.
AMS	Zero CfU/100ml	Any found in any area are treated as an out of spec in the absence of any National guidance.
GNB	Zero CfU/100ml	Any found in any area are treated as an out of spec in the absence of any National guidance.

- 1.129 The current QEUH Campus Water Systems WATER SAFETY PLAN (WRITTEN SCHEME) controlling the risks of exposure to Legionella and other harmful bacteria in Water Systems 2024 Rev J within Appendix 2 Provides a suitable and effective and appropriate approach to water testing and provides a very good level of assurance that the current management arrangements are suitable and safe.

1.13 Maintaining control of systems

- 1.13.1 SHTM 04-01 Part A clause 17.13 states that - *Once disinfection has taken place, it is essential to put in place measures to ensure that hot and cold water temperatures are maintained. This will require regular flushing, at least weekly, and possibly more frequently during periods of hot weather.*
- 1.13.2 It goes on to confirm under clause 17.14 that - *Once filled, systems should not be drained unless full disinfection is to be carried out prior to building occupancy and use. However, allowing water in newly installed capillary-jointed copper plumbing to stagnate can result in serious corrosion of the copper. To reduce the risk of this, it is recommended that flushing should take place on a weekly basis to introduce fresh water throughout the system.* Whilst the reference within the SHTM is to copper pipework it can equally be applied to other forms of pipework and is intended to address stagnation of water and potential microbiological activity as well as corrosion risk.
- 1.13.3 Once all of the commissioning and validation processes have been completed the installer will typically be responsible to operate and maintain the systems until practical completion or handover to the operational team, at which point the systems can be deemed as operational and in use. The users and supporting maintenance team then assume responsibility for the systems under the guidance of the water safety group, who should ensure that the systems are operating in a safe and appropriate condition.
- 1.13.4 Validation is the process by which the healthcare organisation is able to have assurance that the water systems are operating correctly and safely and without this critical review or assurance they cannot be confident that the systems are safe. The primary reason for the validation process is to independently confirm safe operation.
- 1.13.5 From the information reviewed and statements made during the inquiry process there appears to be no agreed timeline on when or how the water systems were first 'wetted' and how the systems were maintained and controlled through the commissioning period up to disinfection, water sampling, and handover.
- 1.13.6 It is understood that the system was filled in stages over the course of 2013, with the sections remaining filled after hydraulic pressure testing which strongly suggests that the system could not be flushed until whole system was completed and pressure tested.
- 1.13.7 The water systems were 'wet tested' for the purposes of hydraulic pressure testing, which is against the procedure outlined within the HTM 04-01 Part A which under clause 15.5 advises that - *The water system should be filled as late in the commissioning process as possible. The design team should consider using inert gas for pressure-testing when possible. The system should be flushed to remove all flux and debris before being filled with water as soon as possible, but within a maximum of 48 hours, to prevent biofilm development and corrosion. Wholesome water should be used for flushing. Treated water should be available for top-up as necessary during the commissioning process. All strainers should be cleaned after flushing and before final filling.* Whilst it is understood that the project was intended to be undertaken under the SHTM standards the use of water to wet test the

water systems in addition to the staged filling approach would be considered as sub-optimal.

1.14 Overall Water Analysis Review Conclusions

- 1.14.1 The staged approach to the wetting and commissioning of the water systems including the use of wet hydraulic pressure testing was in my opinion based on the available evidence sub-optimal and cannot be relied upon to provide appropriate assurance that the water systems were not potentially contaminated at the point of handover/occupation
- 1.14.2 The approach of the disinfection process was in my opinion based on the available evidence sub-optimal and cannot be relied upon to provide appropriate assurance that the water systems were not potentially contaminated at the point of handover/occupation
- 1.14.3 The water sampling undertaken and the range and extent of micro-organisms tested for is in my experience the minimum required by the SHTM and given the intended clinical activities and patient groups involved I would have anticipated a greater degree of testing as outlined in section 1.6 of this report.
- 1.14.4 This conclusion is supported by the Current QEUH Water Safety (WSP) and the comprehensive detail and water sampling testing protocol outlined within this document. The current approach provides good levels of assurance that the current water systems are being proactively managed with suitable management control processes in place.
- 1.14.5 It is not possible to provide an absolute answer to the question posed, as to whether or not those systems were contaminated by micro-organisms or by biofilm at handover. The analysis demonstrated that a number of outlets tested failed to provide satisfactory test results when first undertaken, although further testing did demonstrate that these initial failures were addressed and satisfactory results obtained. However as no detail of what corrective action took place, the detail and exact process for the original water sampling or any subsequent re-sampling and the apparent conflict of timings between disinfection processes and sampling all provide poor or at best limited assurance for the condition of the water systems at the time of handover.
- 1.14.6 Finally there were conflicting statements relating to when and how the domestic water systems were commissioned and 'wetted'. These range from July 2013 through to January 2015, although it is likely that the systems may have been commissioned progressively or in stages, which raises the potential issues of the effective flushing of a partial system. It is understood that the system was filled in stages over the course of 2013, with the sections remaining filled after hydraulic pressure testing which strongly suggests that the system could not be flushed until whole system was completed and pressure tested. Individual sections could not be flushed based on Robert O' Donovan's oral evidence. The entire system must have been filled in December 2014 based on the evidence of the water testing results.

2. Appendices

21 Appendix 1 – CV & Professional Qualifications

Detailed CV Statement - Andrew Poplett - IEng, MIHEEM, ACIBSE, AffIFE

I am an Authorising Engineer (AE) and currently employed as an independent healthcare consultant, where my role is to provide input/expertise to health facilities in relation to ventilation and water. An AE acts as an independent professional adviser to the healthcare organisation. The AE should be appointed by the organisation with a brief to provide services in accordance with the relevant Health Technical Memorandum (HTM). The professional status and role required may vary in accordance with the specialist service being supported. The AE acts as assessor and makes recommendations for the appointment of Authorised Persons (APs), monitors the performance of the service, and provides an annual audit to the Designated Person (DP). To effectively carry out this role, particularly with regard to audit, the AE should remain independent of the operational structure of the healthcare organisation.

Experience and Expertise

I started my career as an apprentice engineer in 1985, working for an installation building services company. During my six years with the company I undertook various aspects of design, contract supervision and installation work across a range of industrial and healthcare building services projects. I was later made redundant from this role, however was successful in gaining employment within the NHS as an operational estates officer working at an acute district general hospital.

Within this role I began to specialise in ventilation within some of the critical units within that hospital as well as general estate management. Due to my role I moved between a number of NHS trusts, often as a result of trusts mergers. This led to me taking up the role of head of estates for a learning disabilities trust in Northumberland, which later merged to form the then largest mental health trust in England and I took up the role of head of property and planning. In 2010 an opportunity arose for me leave the NHS, which I chose to do and set myself up as an independent healthcare consultant. I now provide independent, impartial and bespoke consultancy services such as system auditing, personnel assessments and awareness training, compliance reviews and action planning to assist and guide clients through the maze of NHS, HSE guidelines, legislation and compliance. I act as an Authorising Engineer, and present my knowledge on subjects such as healthcare ventilation and water system management, service improvements and incident investigations.

During the last 14 years as a healthcare consultant, I have undertaken various support consultancy roles for a number of both private and NHS healthcare providers. Following the Health Technical Memoranda (HTM) 00 recognising the role of Authorising Engineer (AE) I began to practise as an AE for specialist ventilation and water, formally registering through IHEEM, which is the Institute of Healthcare Estates and Engineering Management. An Authorised Engineer is independent and appointed (normally by an NHS Trust or PFI Principle Service Provider) to take responsibility for effective management of safety guidance recommended by the Department of Health. Part of the AE role is to undertake an annual audit of the operation of facilities. The role and remit of an AE is the same in both the HTM and SHTM.

I have been peer-reviewed and operate now as a registered AE for both specialist ventilation and for water separately. The peer review process (by the Institute of Healthcare Engineering & Estate Management (IHEEM)) provides a level of assurance that the AE has been assessed by their peers to work and act in a manner and standard which meets the institutes code of practice and conforms to the requirements of the HTM. This role keeps me busy and I currently practice as an independent AE

for around 35 to 40 healthcare organisations, principally NHS trusts, but I also act on behalf of trusts for a number of private healthcare providers through Private Finance Initiative (PFI) or Local Improvement Finance Trust (LIFT) arrangements.

I am an incorporated engineer registered with the Engineering Council and a full member of IHEEM. I am an associate member of the Chartered Institute of Building Services Engineers, (CIBSE) and an affiliate member of the Institute of Fire Engineering. I am currently a committee member of the Northeast Regional IHEEM Committee and Chair of the national IHEEM ventilation technical platform. I am also a founder member of the Specialist Ventilation in Healthcare Society (SVH), which is an independent society that was set up by Malcolm Thomas, the President, who is the lead author of the previous and current ventilation Health Technical Memoranda (HTM), such as HTM 2025, HTM 03-01 2007, and lead author on HTM 03-01 2021. The SVH Society was formed in November 2014 with the aim of bringing together those who were practicing or wished to become Authorising Engineers (Ventilation) (AE(V)) or who have a more general interest in Ventilation in the Healthcare setting. At this time I am only a member of the SVH and have no details on the membership but know it holds a register of practicing AEs and draws up competencies for prospective AEs. Those interested in ventilation for healthcare can also subscribe to association membership. A significant portion of the Society meetings is given over to discussing and clarifying interpretation of HTM 03-01 and other healthcare ventilation standards.

As a member of the SVH Society, I have been lead author and published various guidance or supplementary guidance documents on aspects of ventilation within a healthcare setting. I have also lead authored a couple of guidance notes and supplementary briefing notes for IHEEM's ventilation technical platform, and written numerous articles on ventilation-related issues and the management of ventilation for the Health Estates Journal, which is the magazine of IHEEM and healthcare engineering. Attached at Appendix 1 is a summary overview of my work history and involvement with articles and guidance for the institutes and Societies to which I belong.

Employment History & Resume of Andrew Poplett – IEng, MIHEEM, MSVHSoc, ACIBSE, AffIFE

Summary Employment History

Trained and qualified as a mechanical building services engineer (BTec HNC) (1985-89)

September 1985 to September 1991 : Haden Young Limited Newcastle upon Tyne

Worked as a specialist project engineer (commissioning & snagging) 1992 started work for the NHS as an operational Engineer

January 1992 to April 2000 – Newcastle General Hospital / Newcastle City Health NHS Trust

Following the completion and implementation of the Newcastle Services Review (NSR) became an Operational Engineer (Specialist Services) Newcastle General Hospital within the newly formed Newcastle City Health NHS Trust, where through internal promotion became Acting Estates Manager.

Lead engineer on Aspergillus “outbreak” in Newcastle (1998) helped develop containment precautions for Aspergillus control standards (NDSC Ireland)

April 2000 to March 2006 - Northgate & Prudhoe (NHS) Trust

In 2000 became Head of Estates for Northgate & Prudhoe NHS Trust

April 2006 to May 2009 - Northumberland Tyne & Wear (NHS) Trust

Due to a merger of three existing NHS Trust's became Head of Property & Planning for Northumberland Tyne & Wear (NHS) Trust

May 2009 to present - Andrew Poplett Enterprises Ltd

Left NHS in 2009 to become an independent healthcare estates consultant and AE for specialist healthcare ventilation and water.

Over 35 years of experience in healthcare engineering

Chair of the IHEEM Ventilation Technical Platform, Member of IHEEM Regional Committee, & Member of the Water Technical Platform AE(W) Peer Review Panel.

Founder Member of the SVHSoc, Associate member of CIBSE, and Affiliate member of IFE

Lead Author of the following Supplementary Guidance Notes

- IHEEM Ventilation Technical Platform (VTP)- Briefing Note - VTP/BN/001 - Potential Increased Risk of Aspergillus Infection due to COVID-19 & the Associated Essential Precautions & Control Measures to Consider
- IHEEM Ventilation Technical Platform (VTP)- Guidance Note - VTP/GN/001/V1.0 March 2021 - Design Output and Performance Specification Guidance for the Ventilation Strategy / Systems for Dental Care Facilities
- SVH Society - Updated Briefing & Guidance on Considerations for the Ventilation Aspects of Healthcare Facilities for Coronavirus – Revision Number 03-V5 8th June 2020
- SVH Society – Guidance Note - Air Handling Unit Condition and Risk Based Monitoring Briefing Document
- SVH Society - Guidance on Critical Ventilation System Risk Assessment Process and Factors
- SVH Society - Fire Damper Briefing Document
- SVH Society - Cryptococcus Briefing for AE(V)'s, AP(V)'s & Estates Professionals

Contributing Author of the following Supplementary Guidance Notes

Health Technical Memorandum (2021) 03-01 Specialised ventilation for healthcare premises;

- Part A: The concept, design, specification, installation and acceptance testing of healthcare ventilation systems
- Part B: The management, operation, maintenance and routine testing of existing healthcare ventilation systems

HBN 16-01 Mortuaries - Facilities for mortuaries, including body stores and post mortem services.

National Guidelines for the Prevention of Nosocomial Invasive Aspergillosis During Construction/Renovation Activities via production of the Newcastle-upon-Tyne City Health Trust Estates Department – Operational Policy for Aspergillus Management EOP53 (Version 1 updated 2nd February 2000)

Author of the following Health Estate Journal (HEJ) Articles & IHEEM Presentations

- Aspergillus fumigatus – a ubiquitous foe – October 2014
- L8 – Consider the ventilation aspects – November 2014
- Fire Safety – Importance of Regular Inspection stressed – January 2015
- Who should appoint AE's & AP's – April 2019
- The Estates Manager's Guide to Cryptococcus in Healthcare Ventilation - June 2019
- When to seek derogation, and the best approach – September 2021
- AE's & AP's – Jack of all trades but masters of none? March 2022

22 Appendix 2 – Bibliography & Supporting Documents/Standards

The main industry standards applicable to the commissioning of the water services and as noted in the specification are:

Guidance and specifications

Legal reference documents for water systems are as follows:

- Health and Safety at Work Act 1974
- Management of Health and Safety at Work regulations 1999
- Control of Substances Hazardous to Health (COSHH) 2002
- Approved Code of Practice (ACOP) L8
- Legionnaires' disease Technical Guidance HSG 274 (2014)
- Scottish Water Byelaws 2004

These documents set out the legal requirements and guidance which must be observed with respect to water systems during design, construction, commissioning and maintenance.

NHS GGC set out the design parameters and guidance to be followed in their Employer's Requirements (ER). In section 8.2.8 Water Systems and Filtration, the ER details the requirement for two new water supplies, storage and full compliance with certain guidance documents.

It should be noted that the ER were written prior to the publication of SHTM 04-01 in August 2011. The inclusion of the references to this document in the ER notes that SHTM 04 was in consultation phase of production.

- The Health Technical Memorandum is noted as (S) HTM 04-01. It should be noted that all projects in Scotland should follow guidance given in SHTMs.
- SHTM 2027 should not have been cited as it was superseded by SHTM 04-01 (published August 2011)
- SHTM 02 refers to medical gases (and therefore would not provide guidance on the safe operation of water systems).
- SHTM 2040 should not have been cited as it was superseded by SHTM 04-01 (published August 2011)
- The Health Guidance Note (HGN) "Safe Water Temperatures" noted was incorporated into SHTM 04-01.
- CIBSE Guide W (2010)
- BS EN 806 Specifications for installations inside buildings conveying water for human consumption
- BS 6700 Design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages.
- BS 8558 Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings and their curtilages -Complementary guidance to BS EN 806.

23 Appendix 3 – Glossary of Terms and Abbreviations

In addition to the definitions listed below, other definitions can be found in the Water Supply (Water Fittings) Regulations 1999; BS 6100; BS 8558; and BS EN 806.

Augmented care units/settings – There is no fixed definition of “augmented care”; individual providers may wish to designate a particular service as one where water quality must be of a higher microbiological standard than that provided by the supplier. While this document provides broad guidance, the water quality required will be dependent on both the type of patient and its intended use. Most care that is designated as augmented will be that where medical/nursing procedures render the patients susceptible to invasive disease from environmental and opportunistic pathogens such as *Pseudomonas aeruginosa* and other alert organisms. In broad terms, these patient groups will include:

- those patients who are severely immunosuppressed because of disease or treatment: this will include transplant patients and similar heavily immunosuppressed patients during high-risk periods in their therapy;
- those cared for in units where organ support is necessary, for example critical care (adult paediatric and neonatal), renal, respiratory (may include cystic fibrosis units) or other intensive care situations;
- those patients who have extensive breaches in their dermal integrity and require contact with water as part of their continuing care, such as in those units caring for burns.

Backflow – Flow upstream, that is in a direction contrary to the intended normal direction of flow, within or from a water fitting.

Biofilm – a complex layer of microorganisms that have attached and grown on a surface. This form of growth provides a niche environment for a wide range of microorganisms to interact and where the secretion of exopolysaccharides by bacteria will form an extracellular matrix for both bacteria and other unicellular organisms such as amoebae and flagellates to remain in a protected state.

Dead-leg – a length of water system pipework leading to a fitting through which water only passes infrequently when there is draw off from the fitting, providing the potential for stagnation.

Healthcare-associated infections (HCAI) – encompasses any infection by any infectious agent acquired as a consequence of a person’s treatment or which is acquired by a healthcare worker in the course of their duties.

Healthcare facility/building – all buildings, infrastructure, equipment, plant, embedded systems and related items that support the delivery of healthcare and services of all types, irrespective of their ownership or operation by third parties.

Healthcare organisations: organisations that provide or intend to provide healthcare services for the purposes of the NHS.

Point-of-use (POU) filter – a filter with a maximal pore size of 0.2 µm applied at the outlet, which removes bacteria from the water flow.

Redundant pipework (also known as blind end): a length of pipe closed at one end through which no water passes.

Thermostatic mixing valve: valve with one outlet, which mixes hot and cold water and automatically controls the mixed water to a user-selected or pre-set temperature.

Waterborne pathogen: microorganism capable of causing disease that may be transmitted via water and acquired through ingestion, bathing, or by other means.

Water outlet: (In this document) refers mainly to taps and showerheads, but other outlets, as indicated by risk assessments, may be considered important.

Water Safety Group (WSG): A multidisciplinary group formed to undertake the commissioning and development and ongoing management of the water safety plan (WSP). It also advises on the remedial action required when water systems or outlets are found to be contaminated and the risk to susceptible patients is increased.

Water safety plan (WSP): A risk-management approach to the safety of water that establishes good practices in local water distribution and supply. It will identify potential hazards, consider practical aspects, and detail appropriate control measures.

Water supply [to the healthcare facility]: The water supplied can be via:

- the mains water supply from the local water undertaker;
- a borehole (operated by the healthcare organisation as a private water supply);
- a combination of mains water and borehole supply;
- emergency water provision (bulk tankered water or bottled drinking water).

Water undertaker – the role of a water undertaker is defined in a number of sections of the Water Industry Act 1991.

Wholesomeness: standards of wholesomeness are defined in section 67 of the Water Industry Act 1991. Separate legislation for public and private supplies sets out the prescribed concentrations and values for water and are detailed in the following legislation: the Water

Supply (Water Quality) Regulations 2000 for water from a public supply; or the Private Water Supplies Regulations 2009 for water from a private supply.

Abbreviations

AEW – Authorising Engineer for Water

APW – Authorised Person for Water

BCWS – Boosted or pumped Cold Water Service

BICC - Board Infection Control Committee

BMS – Building Management System (computerised control system for building engineering services)

COSHH – Control of Substances Hazardous to Health [Regulations]

CQC – Care Quality Commission

CWS – Cold Water Service/System

DHWS – Domestic Hot Water Service/System

DWI – Drinking Water Inspectorate

EA – Environment Agency

EPDM – ethylene propylene diene monomer

ER – Employers Requirements (Contract Document term)

F & R – Flow and Return (referring to water distribution systems)

HBN – Health Building Note

HSE – Health & Safety Executive

HSG274 Part 2 – The Health & Safety Executive’s technical guidance on the control of Legionnaires’ disease in hot and cold water systems

HTM – Health Technical Memorandum

HWS – Hot Water System (same as DHWS above)

MTHW – Medium Temperature Hot Water (Process Heating Water)

O&M – Operation and Maintenance

POU – point of use (Filter)

PPM – Planned Preventative Maintenance

PWTAG – Pool Water Treatment Advisory Group

RAMS – Risk Assessment & Method Statement

RP(W) – Responsible Person for Water

SHTM – Scottish Health Technical Memorandum

TMV – Thermostatic Mixing Valve

UKWIR – UK Water Industry Research

WRAS – Water Regulations Advisory Scheme

WSG – Water Safety Group

WSP – Water safety plan

H & V COMMISSIONING WATER TREATMENT SPECIALISTS

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DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH - Adult & Childrens Hospital
Client:	Mercury Engineering (UK) Ltd.
System:	Plantroom 21 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil Super 25 was dosed into CWST 1 in the Basement Tank Room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour Sanosil was flushed from the system.

Samples were then obtained from each Sentinel outlet and sent to the lab for mircobiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

Gary Weir

Date: 18/01/2015

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

A53912406

 H&V COMMISSIONING LAB SAMPLE TRACKER 										
PLANTROOM 21				DATE STERILISED		02/12/2014		Carried out by		GW/BG/TW/CD
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
FM	-1	N/A	TANKROOM	MAINS	MAINS	03-Dec	PASS			
FM	-1	N/A	TANKROOM	POTABLE TANK	POTABLE WATER	03-Dec	PASS			
D	0	M5	DCU 003	MIXER TAP	MIXED	03-Dec	PASS			
D	0	M5	EMC 037	MIXER TAP	MIXED	03-Dec	PASS			
D	0	M5	EMC 041	MIXER TAP	MIXED	03-Dec	PASS			
D	0	M5	EMC 086	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	0	M5	EMC 093	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	0	M5	EMC 100	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	0	M5	EMC 111	MIXER TAP	MIXED	03-Dec	PASS	1ST WHB		
D	0	M5	EMC 135	SINK	HOT	03-Dec	PASS			
D	0	M5	EMC 135	SINK	COLD	03-Dec	PASS			
D	0	M6	EMC 006	MIXER TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	0	M6	EMC 059	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	0	M6	EMC 060	HORNE TAP	MIXED	03-Dec	PASS			
D	0	M6	EMC 006	HORNE TAP	MIXED	03-Dec	PASS	LEGIONELLA SAMPLE TAKEN		
D	0	M6	EMC 063	MIXER TAP	MIXED	03-Dec	PASS	3RD WHB		
D	0	M6	EMC 076	MIXER TAP	MIXED	03-Dec	FAIL	3RD WHB	18/01/2015	PASS
G	0	M1	AAW 163	MIXER TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 193	MIXER TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 208	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	0	M1	AAW 226	HORNE TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 226	HORNE TAP	MIXED	03-Dec	PASS	LEGIONELLA SAMPLE TAKEN		
G	0	M1	AAW 240	MIXER TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 265	HORNE TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 306	MIXER TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 313	SINK	HOT	03-Dec	PASS			
G	0	M1	AAW 313	SINK	COLD	03-Dec	PASS			
G	0	M1	AAW 334	MIXER TAP	MIXED	03-Dec	PASS			
G	0	M1	AAW 375	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	1	M5	CCW 131	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
D	1	M5	CCW 141	MIXER TAP	MIXED	03-Dec	PASS			
D	1	M5	CCW 200	HORNE TAP	MIXED	03-Dec	PASS			
D	1	M5	CCW 200	HORNE TAP	MIXED	03-Dec	PASS	LEGIONELLA SAMPLE TAKEN		
D	1	M5	CCW 202	MIXER TAP	MIXED	03-Dec	PASS			
D	1	M5	CCW 214	MIXER TAP	MIXED	03-Dec	PASS	1ST WHB		
D	1	M6	CCU 004	SINK	HOT	03-Dec	PASS			
D	1	M6	CCU 004	SINK	COLD	03-Dec	PASS			
D	1	M6	CCU 036	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	1	M1	CCW 017	SINK	HOT	03-Dec	PASS			
G	1	M1	CCW 017	SINK	COLD	03-Dec	PASS			
G	1	M1	CCW 029	MIXER TAP	MIXED	03-Dec	PASS			
G	1	M1	CCW 048	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	1	M1	CCW 087	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	1	M1	CCW 089	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	1	M1	CCW 092	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	1	M1	CCW 109	HORNE TAP	MIXED	03-Dec	PASS			
G	1	M1	CCW 109	HORNE TAP	MIXED	03-Dec	PASS	LEGIONELLA SAMPLE TAKEN		
G	1	M1	CCW 126	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS
G	1	M1	CCW 130	HORNE TAP	MIXED	03-Dec	FAIL		18/01/2015	PASS



Certificate of Analysis

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Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281433-08/12/2014 11:05:39 (1)
Certificate ID: 897637
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 5
Laboratory Reference: HVC_GLS[BH]1536840

Sample : CWST

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Certificate Ref: 281433-08/12/2014 11:05:39 (2)
Certificate ID: 897638
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 5
Laboratory Reference: HVC_GLS[BH]1536841

Sample : INCOMING MAINS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	260	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Certificate Ref: 281433-08/12/2014 11:05:39 (3)
Certificate ID: 897639
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 5
Laboratory Reference: HVC_GLS[BH]1536842

Sample : AAW-313-DCWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	18	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Certificate Ref: 281433-08/12/2014 11:05:39 (4)
Certificate ID: 897640
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 5
Laboratory Reference: HVC_GLS[BH]1536843

Sample : AAW-313-DHWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Test Date : 03-Dec-14
Certificate Ref: 281437-08/12/2014 11:05:39 (1)
Certificate ID: 897641
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 6
Laboratory Reference: HVC_GLS[BH]1536858

Sample : Z D LVL1 CCU004 DCWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Test Date : 03-Dec-14
Certificate Ref: 281437-08/12/2014 11:05:39 (2)
Certificate ID: 897642
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 6
Laboratory Reference: HVC_GLS[BH]1536859

Sample : Z D LVL1 CCU004 DHWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Test Date : 03-Dec-14
Certificate Ref: 281437-08/12/2014 11:05:39 (4)
Certificate ID: 897644
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 6
Laboratory Reference: HVC_GLS[BH]1536861

Sample : Z G LVL1 CCW017 DCWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

Page 1 of 1

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Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281437-08/12/2014 11:05:39 (5)
Certificate ID: 897645
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 6
Laboratory Reference: HVC_GLS[BH]1536862

Sample : Z G LVL1 CCW017 DHWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Certificate Ref: 281437-08/12/2014 11:05:39 (6)
Certificate ID: 897646
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 6
Laboratory Reference: HVC_GLS[BH]1536863

Sample : Z G LVL1 CCW029 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Date: 08-Dec-14

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Certificate Ref: 281437-08/12/2014 11:05:39
(11)
Certificate ID: 897651
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 6
Laboratory Reference: HVC_GLS[BH]1536868

Sample : Z G LVL1 CCW 109 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	58	cfu/ml

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Test Date : 03-Dec-14
Certificate Ref: 281439-08/12/2014 11:05:39 (1)
Certificate ID: 897654
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536879

Sample : ZD LVL0 DCU003 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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Certificate Ref: 281439-08/12/2014 11:05:39 (2)
Certificate ID: 897655
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536880

Sample : ZD LVL0 EMC037 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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Certificate Ref: 281439-08/12/2014 11:05:39 (3)
Certificate ID: 897656
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536881

Sample : ZD LVL0 EMC041 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	60	cfu/ml

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Certificate ID: 897660
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536885

Sample : ZD LVL0 EMC111 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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Certificate Ref: 281439-08/12/2014 11:05:39 (8)
Certificate ID: 897661
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536886

Sample : ZD LVL0 EMC135 DHWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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(11)
Certificate ID: 897664
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536889

Sample : ZD LVL0 EMC060 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	156	cfu/ml

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Certificate Ref: 281439-08/12/2014 11:05:39
(12)
Certificate ID: 897665
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536890

Sample : ZD LVL0 EMC063 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	34	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	8	cfu/ml

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(14)
Certificate ID: 897667
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 7
Laboratory Reference: HVC_GLS[BH]1536892

Sample : ZD LVL0 EMC135 DCWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 281442-08/12/2014 11:05:39 (1)
Certificate ID: 897668
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536954

Sample : ZG LVL0 AAW163 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 281442-08/12/2014 11:05:39 (2)
Certificate ID: 897669
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536955

Sample : ZG LVL0 AAW193 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	5	cfu/ml

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Certificate Ref: 281442-08/12/2014 11:05:39 (4)
Certificate ID: 897671
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536957

Sample : ZG LVL0 AAW226 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	88	cfu/ml

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Certificate ID: 897672
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536958

Sample : ZG LVL0 AAW240 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Certificate ID: 897673
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536959

Sample : ZG LVL0 AAW265 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml
BP50.10	Pseudomonas aeruginosa	0	cfu/100ml

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Certificate ID: 897674
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536960

Sample : ZG LVL0 AAW306 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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Certificate ID: 897675
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536961

Sample : ZG LVL0 AAW334 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	120	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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(11)
Certificate ID: 897678
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536964

Sample : ZG LVL1 CCW141 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 281442-08/12/2014 11:05:39
(12)
Certificate ID: 897679
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536965

Sample : ZG LVL1 CCW200 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	208	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	104	cfu/ml

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(13)
Certificate ID: 897680
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536966

Sample : ZG LVL1 CCW202 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Date: 08-Dec-14

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KA4 8HH

Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281442-08/12/2014 11:05:39
(14)
Certificate ID: 897681
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 8
Laboratory Reference: HVC_GLS[BH]1536967

Sample : ZG LVL1 CCW214 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	54	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	42	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 08-Dec-14

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(48)
Certificate ID: 922942
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579942

Sample : M1 - CCW 130

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

Page 1 of 1

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(47)
Certificate ID: 922941
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579941

Sample : M1 - CCW 126

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(46)
Certificate ID: 922940
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579940

Sample : M1 - CCW 092

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

Page 1 of 1

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(45)
Certificate ID: 922939
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579939

Sample : M1 - CCW 089

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	45	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	98	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(44)
Certificate ID: 922938
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579938

Sample : M1 - CCW 087

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	40	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(43)
Certificate ID: 922937
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579937

Sample : M1 - CCW 048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(42)
Certificate ID: 922936
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579936

Sample : M6 - CCU 036

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(41)
Certificate ID: 922935
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579935

Sample : M5 - CCW 131

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
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Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(40)
Certificate ID: 922934
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579934

Sample : M1 - AAW 375

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(39)
Certificate ID: 922933
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579933

Sample : M1 - AAW 208

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
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Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(38)
Certificate ID: 922932
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579932

Sample : M6 - EMC 076

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(37)
Certificate ID: 922931
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579931

Sample : M6 - EMC 059

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	77	cfu/ml

Approved By: Maureen Howard(Lab Manager)

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(36)
Certificate ID: 922930
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579930

Sample : M6 - EMC 006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	240	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(35)
Certificate ID: 922929
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579929

Sample : M5 - EMC 100

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(34)
Certificate ID: 922928
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579928

Sample : M5 - EMC 093

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Date: 21-Jan-15

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Sample Date: 18-Jan-15
Received Date: 18-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290170-22/01/2015 09:09:02
(33)
Certificate ID: 922927
Order Number: None Supplied
SDG Reference: HVC_GLS 18-01-15 1
Laboratory Reference: HVC_GLS[BH]1579927

Sample : M5 - EMC 086

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 21-Jan-15

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Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281432-15/12/2014 14:32:51 (2)
Certificate ID: 902145
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 4
Laboratory Reference: HVC_GLS[BH]1536837
Legionella Process Date: 03/12/2014

Sample : ZONE G CCW 109 DHWS MIXER

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 15-Dec-14

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Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281432-15/12/2014 14:32:51 (1)
Certificate ID: 902144
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 4
Laboratory Reference: HVC_GLS[BH]1536836
Legionella Process Date: 03/12/2014

Sample : ZONE D CCW 200 MWS

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 15-Dec-14

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Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281432-15/12/2014 14:32:51 (4)
Certificate ID: 902147
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 4
Laboratory Reference: HVC_GLS[BH]1536839
Legionella Process Date: 03/12/2014

Sample : ZONE D EMC-006-DHW-MIXER

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 15-Dec-14

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Sample Date: 03-Dec-14
Received Date: 03-Dec-14
Test Date : 03-Dec-14
Certificate Ref: 281432-15/12/2014 14:32:51 (3)
Certificate ID: 902146
Order Number: 1592/SC/WT/5902
SDG Reference: HVC_GLS 03-12-14 4
Laboratory Reference: HVC_GLS[BH]1536838
Legionella Process Date: 03/12/2014

Sample : ZONE G AAW 226 DHWS MIXER

Details : NSGH PR21

Details : 1592/SC/WT/5902

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 15-Dec-14

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Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Tests marked * have not been subcontracted and are not accredited. The Legionella (calculated) det is a calculated det where the result is extrapolated from the Legionella test results. LOD = Limit of Detection. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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H & V COMMISSIONING WATER TREATMENT SPECIALISTS

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DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 22 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 3 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinel outlet and then sent to the lab for microbiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Jan-15

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

 H&V COMMISSIONING LAB SAMPLE TRACKER 										
PLANTROOM 22				DATE STERILISED		16/01/2015		Carried out by	GW/BG/TW/CD	
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
E	0	M30	RCG 022	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M30	RCG 068	HORNE TAP	MIXED	17-Jan	FAIL		11/02/2015	PASS
E	0	M30	RCG 087	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 004	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 029	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 054	MIXER TAP	MIXED	17-Jan	FAIL		25/01/2015	PASS
E	0	M26	RAG 068	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 079	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 108	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 130	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M27	MIL 010	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	RAF-053	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	RAF-012	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	RAF-021	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M26	RNM 007	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RNM 018	HORNE TAP	MIXED	17-Jan	FAIL		11/02/2015	PASS
E	1	M26	RNM 027	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M26	RNM 036	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 003	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 087	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 095	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 115	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 127	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M30	RCF 003	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M30	THE 042	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M30	THE 069	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M30	TBP 001	MIXER TAP	MIXED	17-Jan	PASS			
E	2	M30	MP 020	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M26	DCT 015	HORNE TAP	MIXED	17-Jan	FAIL		25/01/2015	PASS
E	2	M26	END 013	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M26	END 029	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M26	THE 280	MIXER TAP	MIXED	17-Jan	PASS			
E	2	M26	THE 370	MIXER TAP	MIXED	17-Jan	PASS	legionella		
F	0	M27	PHA 002	HORNE TAP	MIXED	17-Jan	PASS			
F	0	M27	PHA 008	HORNE TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 006	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 013	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 026	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 033	HORNE TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 048	MIXER TAP	MIXED	17-Jan	PASS			
F	1	M27	THE 078	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M27	THE 090	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M27	THE 102	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M38A	THE 106	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M38A	THE 117	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M38A	THE 157	HORNE TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 004	HORNE TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 025	HORNE TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 031	MIXER TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 060	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	POA 006	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	POA 016	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	POA 019	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 012	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 020	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 046	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 048	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 050	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 287	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 289	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 302	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 319	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 327	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M7	THE-299	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M7	THE-286	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M7	THE-327	HORNE TAP	MIXED	17-Jan	PASS			

J	0	T13	OPDO 003	SHOWER	MIXED	17-Jan	PASS			
J	0	T13	ORT 045	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	ORT 027	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	ORT 015_2	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	ORT 017	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 049	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	DLO 008	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	DLO 005	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 072	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 075	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 013	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 067	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 006	MIXER TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 008	MIXER TAP	MIXED	17-Jan	FAIL		25/01/2015	PASS
J	1	T13	OPD1 037	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 040	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 047	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 048	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 063	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 070	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 085	MIXER TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 113	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 146	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	FMA2 014	MIXER TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 003	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 016	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 033	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 046	MIXER TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 064	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	DOPD 003	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	DOPD 025	HORNE TAP	MIXED	17-Jan	PASS			
K	0	M27	FMA0 001	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	DLO 005	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	DLO 008	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	OPDO 073	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	OPDO 075	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 038	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 046	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 048	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 052	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 054	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 062	MIXER TAP	MIXED	17-Jan	PASS			
K	1	M26	FMA1 001	HORNE TAP	MIXED	17-Jan	FAIL		25/01/2015	PASS
K	1	T13	RES 019	MIXER TAP	MIXED	17-Jan	PASS			
K	1	T13	RES 034	MIXER TAP	MIXED	17-Jan	PASS			



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Kilknowe Office
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Glaston
Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (1)
Certificate ID: 922105
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579472

Sample : 22-EZB-KIT031

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (4)
Certificate ID: 922108
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579475

Sample : 22-ELO-RCG087

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	10	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (5)
Certificate ID: 922109
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579476

Sample : 22-ELO-RAG004

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Certificate Ref: 290104-21/01/2015 08:33:01 (6)
Certificate ID: 922110
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579477

Sample : 22-ELO-RAG029

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (7)
Certificate ID: 922111
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579478

Sample : 22-ELO-RAG054

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~320	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~350	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (8)
Certificate ID: 922112
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579479

Sample : 22-ELO-RAG068

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	17	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Certificate Ref: 290104-21/01/2015 08:33:01 (9)
Certificate ID: 922113
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579480

Sample : 22-ELO-RAG079

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	22	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	20	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Certificate Ref: 290104-21/01/2015 08:33:01
(10)
Certificate ID: 922114
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579482

Sample : 22-ELO-RAG108

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	13	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	23	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Glaston
Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(11)
Certificate ID: 922115
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579483

Sample : 22-ELO-RAG130

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	181	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	281	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(12)
Certificate ID: 922116
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579484

Sample : 22-ELO-MIL010

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	225	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	211	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(13)
Certificate ID: 922117
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579485

Sample : 22-HLI-RAF053

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(14)
Certificate ID: 922118
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579486

Sample : 22-HLI-RAF012

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(15)
Certificate ID: 922119
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579487

Sample : 22-HLI-RAF021

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(16)
Certificate ID: 922120
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579488

Sample : 22-ELI-RNM007

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	109	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(17)
Certificate ID: 922121
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579489

Sample : 22-ELI-RNM018

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~400	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(18)
Certificate ID: 922122
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579490

Sample : 22-ELI-RNM027

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	54	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	26	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(19)
Certificate ID: 922123
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579491

Sample : 22-ELI-RNM036

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	33	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(20)
Certificate ID: 922124
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579492

Sample : 22-ELI-RAF003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(21)
Certificate ID: 922125
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579493

Sample : 22-ELI-RAF087

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(22)
Certificate ID: 922126
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579494

Sample : 22-ELI-RAF095

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(23)
Certificate ID: 922127
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579495

Sample : 22-ELI-RAF115

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	89	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	105	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(24)
Certificate ID: 922128
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579496

Sample : 22-ELI-RAF127

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	53	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(25)
Certificate ID: 922129
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579497

Sample : 22-ELI-RCF003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(26)
Certificate ID: 922130
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579498

Sample : 22-ELI-THE042

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(27)
Certificate ID: 922131
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579499

Sample : 22-ELI-THE069

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(28)
Certificate ID: 922132
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579500

Sample : 22-EL2-TBP001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(29)
Certificate ID: 922133
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579501

Sample : 22-EL2-MP020

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(30)
Certificate ID: 922134
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579502

Sample : 22-EL2-DCT015

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~500	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(31)
Certificate ID: 922135
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579503

Sample : 22-EL2-END013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	84	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	62	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(32)
Certificate ID: 922136
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579504

Sample : 22-EL2-END029

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	26	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(33)
Certificate ID: 922137
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579505

Sample : 22-EL2-THE280

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	13	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	15	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(34)
Certificate ID: 922138
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579506

Sample : 22-EL2-THE370

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	30	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(35)
Certificate ID: 922139
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579507

Sample : 22-FLO-PHA002

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	10	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(36)
Certificate ID: 922140
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579508

Sample : 22-FLO-PHA008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	5	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(37)
Certificate ID: 922141
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579509

Sample : 22-FLO-REH006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(38)
Certificate ID: 922142
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579510

Sample : 22-FLO-REH013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(39)
Certificate ID: 922143
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579511

Sample : 22-FLO-REH026

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(40)
Certificate ID: 922144
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579512

Sample : 22-FLO-REH003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(41)
Certificate ID: 922145
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579513

Sample : 22-FLO-REH048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	8	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(42)
Certificate ID: 922146
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579514

Sample : 22-FLI-THE078

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(43)
Certificate ID: 922147
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579515

Sample : 22-FLI-THE090

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(44)
Certificate ID: 922148
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579516

Sample : 22-FLI-THE102

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(45)
Certificate ID: 922149
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579517

Sample : 22-FLI-THE106

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(46)
Certificate ID: 922150
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579518

Sample : 22-FLI-THE117

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(47)
Certificate ID: 922151
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579519

Sample : 22-FLI-THE157

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(48)
Certificate ID: 922152
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579520

Sample : 22-FL2-DMW004

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(49)
Certificate ID: 922153
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579521

Sample : 22-FL2-DMW025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(50)
Certificate ID: 922154
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579522

Sample : 22-FL2-DMW031

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(51)
Certificate ID: 922155
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579523

Sample : 22-FL2-DMW060

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(52)
Certificate ID: 922156
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579524

Sample : 22-HL1-POA006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(53)
Certificate ID: 922157
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579525

Sample : 22-HL1-POA016

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	36	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	52	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(54)
Certificate ID: 922158
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579526

Sample : 22-HL1-POA019

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	35	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(55)
Certificate ID: 922159
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579527

Sample : 22-HL1-MDU012

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(56)
Certificate ID: 922160
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579528

Sample : 22-HL1-MDU020

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Certificate Ref: 290104-21/01/2015 08:33:01
(57)
Certificate ID: 922161
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579529

Sample : 22-HL1-MDU046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Certificate Ref: 290104-21/01/2015 08:33:01
(58)
Certificate ID: 922162
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579530

Sample : 22-HL1-MDU048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(59)
Certificate ID: 922163
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579531

Sample : 22-HL1-MDU050

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	18	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	21	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Certificate Ref: 290104-21/01/2015 08:33:01
(60)
Certificate ID: 922164
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579532

Sample : 22-HL2-THE287

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(61)
Certificate ID: 922165
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579533

Sample : 22-HL2-THE289

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Sample Date: 17-Jan-15
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Certificate Ref: 290104-21/01/2015 08:33:01
(62)
Certificate ID: 922166
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579534

Sample : 22-HL2-THE302

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(63)
Certificate ID: 922167
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579535

Sample : 22-HL2-THE319

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(64)
Certificate ID: 922168
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579536

Sample : 22-HL2-THE327

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(65)
Certificate ID: 922169
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579537

Sample : 22-HL2-THE299

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(66)
Certificate ID: 922170
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579538

Sample : 22-HL2-THE286

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	47	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	35	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(67)
Certificate ID: 922171
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579539

Sample : 22-HL2-THE327

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(68)
Certificate ID: 922172
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579540

Sample : 22-JLO-OPD0003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(69)
Certificate ID: 922173
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579541

Sample : 22-JLO-ORT045

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(70)
Certificate ID: 922174
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579542

Sample : 22-JLO-ORT027

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	95	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	95	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(71)
Certificate ID: 922175
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579543

Sample : 22-JLO-ORT015-2

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(72)
Certificate ID: 922176
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579544

Sample : 22-JLO-ORT017

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(73)
Certificate ID: 922177
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579545

Sample : 22-JLO-OPD0049

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(74)
Certificate ID: 922178
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579546

Sample : 22-JLO-DLO008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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(75)
Certificate ID: 922179
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579547

Sample : 22-JLO-DLO005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(76)
Certificate ID: 922180
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579548

Sample : 22-JLO-OPD0072

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(77)
Certificate ID: 922181
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579549

Sample : 22-JLO-OPD0075

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(78)
Certificate ID: 922182
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579550

Sample : 22-JLO-OPD0013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	21	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(79)
Certificate ID: 922183
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579551

Sample : 22-JLO-OPD0067

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(80)
Certificate ID: 922184
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579552

Sample : 22-JL1-OPD1006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	5	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(81)
Certificate ID: 922185
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579553

Sample : 22-JL1-OPD1008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	121	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~310	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(82)
Certificate ID: 922186
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579554

Sample : 22-JL1-OPD1037

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(83)
Certificate ID: 922187
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579555

Sample : 22-JL1-OPD1040

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(84)
Certificate ID: 922188
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579556

Sample : 22-JL1-OPD1047

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(85)
Certificate ID: 922189
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579557

Sample : 22-JL1-OPD1048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(86)
Certificate ID: 922190
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579558

Sample : 22-JL1-OPD1063

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	19	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(87)
Certificate ID: 922191
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579559

Sample : 22-JL1-OPD1070

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(88)
Certificate ID: 922192
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579560

Sample : 22-JL1-OPD1085

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(89)
Certificate ID: 922193
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579561

Sample : 22-JL1-OPD1113

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(90)
Certificate ID: 922194
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579562

Sample : 22-JL1-OPD1145

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(91)
Certificate ID: 922195
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579563

Sample : 22-JL2-FMA2013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(92)
Certificate ID: 922196
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579564

Sample : 22-JL2-REN0003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	14	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	21	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(93)
Certificate ID: 922197
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579565

Sample : 22-JL2-REN0016

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(94)
Certificate ID: 922198
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579566

Sample : 22-JL2-REN0033

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	17	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	15	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(95)
Certificate ID: 922199
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579567

Sample : 22-JL2-REN0046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	61	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(96)
Certificate ID: 922200
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579568

Sample : 22-JL2-REN0064

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(97)
Certificate ID: 922201
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579569

Sample : 22-JL2-DOPD003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	15	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	25	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(98)
Certificate ID: 922202
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579570

Sample : 22-JL2-DOPD025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	23	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(99)
Certificate ID: 922203
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579571

Sample : 22-KLO-FMA0001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	14	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	65	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(100)
Certificate ID: 922204
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579572

Sample : 22-KLO-DL0005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	15	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(101)
Certificate ID: 922205
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579573

Sample : 22-KLO-DL0008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(102)
Certificate ID: 922206
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579574

Sample : 22-KLO-OPD0073

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	16	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(103)
Certificate ID: 922207
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579575

Sample : 22-KLO-OPD0075

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	13	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(104)
Certificate ID: 922208
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579576

Sample : 22-KLO-ENT038

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(105)
Certificate ID: 922209
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579577

Sample : 22-KLO-ENT046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(106)
Certificate ID: 922210
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579578

Sample : 22-KLO-ENT048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(107)
Certificate ID: 922211
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579579

Sample : 22-KLO-ENT052

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(108)
Certificate ID: 922212
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579580

Sample : 22-KLO-ENT054

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(109)
Certificate ID: 922213
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579581

Sample : 22-KLO-ENT062

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(110)
Certificate ID: 922214
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579582

Sample : 22-KL1-FMA0001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	103	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~800	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Registered in England and Wales No. 4057291

A53912406



ALcontrol Laboratories

Certificate of Analysis

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(111)
Certificate ID: 922215
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579583

Sample : 22-KL1-RES019

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Glaston
Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(112)
Certificate ID: 922216
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579584

Sample : 22-KL1-RES034

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	23	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(11)
Certificate ID: 937129
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606199

Sample : ZEL0 M30 RCN068 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(12)
Certificate ID: 937130
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606200

Sample : ZEL1 M26 RNM018 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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0996

H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 257



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 22 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 3 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinal outlet and then sent to the lab for mircobiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Jan-15

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	RESAMPLE DATE	RESAMPLE RESULTS	OTHER REMARKS
FM	BASEMENT	M30	KIT 031	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M30	RCG 022	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M30	RCG 068	HORNE TAP	MIXED	17-Jan	FAIL	11/02/2015	PASS	
E	0	M30	RCG 087	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 004	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 029	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 054	MIXER TAP	MIXED	17-Jan	FAIL	25/01/2015	PASS	
E	0	M26	RAG 068	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 079	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 108	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M26	RAG 130	HORNE TAP	MIXED	17-Jan	PASS			
E	0	M27	MIL 010	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	RAF-053	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	RAF-012	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	RAF-021	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M26	RNM 007	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RNM 018	HORNE TAP	MIXED	17-Jan	FAIL	11/02/2015	PASS	
E	1	M26	RNM 027	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M26	RNM 036	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 003	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 087	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 095	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 115	MIXER TAP	MIXED	17-Jan	PASS			
E	1	M26	RAF 127	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M30	RCF 003	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M30	THE 042	HORNE TAP	MIXED	17-Jan	PASS			
E	1	M30	THE 069	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M30	TBP 001	MIXER TAP	MIXED	17-Jan	PASS			
E	2	M30	MP 020	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M26	DCT 015	HORNE TAP	MIXED	17-Jan	FAIL	25/01/2015	PASS	
E	2	M26	END 013	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M26	END 029	HORNE TAP	MIXED	17-Jan	PASS			
E	2	M26	THE 280	MIXER TAP	MIXED	17-Jan	PASS			
E	2	M26	THE 370	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M27	PHA 002	HORNE TAP	MIXED	17-Jan	PASS			
F	0	M27	PHA 008	HORNE TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 006	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 013	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 026	MIXER TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 033	HORNE TAP	MIXED	17-Jan	PASS			
F	0	M38A	REH 048	MIXER TAP	MIXED	17-Jan	PASS			
F	1	M27	THE 078	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M27	THE 090	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M27	THE 102	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M38A	THE 106	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M38A	THE 117	HORNE TAP	MIXED	17-Jan	PASS			
F	1	M38A	THE 157	HORNE TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 004	HORNE TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 025	HORNE TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 031	MIXER TAP	MIXED	17-Jan	PASS			
F	2	T13	DMW 060	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	POA 006	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	POA 016	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	POA 019	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 012	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 020	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 046	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 048	HORNE TAP	MIXED	17-Jan	PASS			
H	1	M26	MDU 050	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 287	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 289	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 302	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 319	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M26	THE 327	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M7	THE-299	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M7	THE-286	HORNE TAP	MIXED	17-Jan	PASS			
H	2	M7	THE-327	HORNE TAP	MIXED	17-Jan	PASS			

J	0	T13	OPDO 003	SHOWER	MIXED	17-Jan	PASS			
J	0	T13	ORT 045	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	ORT 027	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	ORT 015_2	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	ORT 017	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 049	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	DLO 008	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	DLO 005	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 072	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 075	MIXER TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 013	HORNE TAP	MIXED	17-Jan	PASS			
J	0	T13	OPDO 067	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 006	MIXER TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 008	MIXER TAP	MIXED	17-Jan	FAIL	25/01/2015	PASS	
J	1	T13	OPD1 037	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 040	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 047	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 048	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 063	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 070	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 085	MIXER TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 113	HORNE TAP	MIXED	17-Jan	PASS			
J	1	T13	OPD1 146	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	FMA2 014	MIXER TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 003	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 016	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 033	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 046	MIXER TAP	MIXED	17-Jan	PASS			
J	2	T13	RENO 064	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	DOPD 003	HORNE TAP	MIXED	17-Jan	PASS			
J	2	T13	DOPD 025	HORNE TAP	MIXED	17-Jan	PASS			
K	0	M27	FMA0 001	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	DLO 005	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	DLO 008	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	OPDO 073	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	OPDO 075	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 038	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 046	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 048	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 052	MIXER TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 054	HORNE TAP	MIXED	17-Jan	PASS			
K	0	T13	ENT 062	MIXER TAP	MIXED	17-Jan	PASS			
K	1	M26	FMA1 001	HORNE TAP	MIXED	17-Jan	FAIL	25/01/2015	PASS	
K	1	T13	RES 019	MIXER TAP	MIXED	17-Jan	PASS			
K	1	T13	RES 034	MIXER TAP	MIXED	17-Jan	PASS			
E	0	M30	RCG010	MIXER TAP	MIXED	17-Jan	PASS			LEGIONELLA
E	2	M26	THE 370	MIXER TAP	MIXED	17-Jan	PASS			LEGIONELLA
F	1	M27	THE 102	HORNE TAP	MIXED	17-Jan	PASS			LEGIONELLA
F	1	M38A	THE 157	HORNE TAP	MIXED	17-Jan	PASS			LEGIONELLA
K	0	T13	OPDO067	MIXER TAP	MIXED	17-Jan	PASS			LEGIONELLA



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Ayrshire
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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (1)
Certificate ID: 922105
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579472

Sample : 22-EZB-KIT031

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (2)
Certificate ID: 922106
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579473

Sample : 22-ELO-RCG002

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	26	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Sample Date: 17-Jan-15
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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (4)
Certificate ID: 922108
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579475

Sample : 22-ELO-RCG087

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	10	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (5)
Certificate ID: 922109
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579476

Sample : 22-ELO-RAG004

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (6)
Certificate ID: 922110
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579477

Sample : 22-ELO-RAG029

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (8)
Certificate ID: 922112
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579479

Sample : 22-ELO-RAG068

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	17	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01 (9)
Certificate ID: 922113
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579480

Sample : 22-ELO-RAG079

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	22	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	20	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(10)
Certificate ID: 922114
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579482

Sample : 22-ELO-RAG108

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	13	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	23	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(11)
Certificate ID: 922115
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579483

Sample : 22-ELO-RAG130

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	181	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	281	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(12)
Certificate ID: 922116
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579484

Sample : 22-ELO-MIL010

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	225	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	211	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(13)
Certificate ID: 922117
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579485

Sample : 22-HLI-RAF053

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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(14)
Certificate ID: 922118
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579486

Sample : 22-HLI-RAF012

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(15)
Certificate ID: 922119
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579487

Sample : 22-HLI-RAF021

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(16)
Certificate ID: 922120
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579488

Sample : 22-ELI-RNM007

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	109	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(18)
Certificate ID: 922122
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579490

Sample : 22-ELI-RNM027

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	54	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	26	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(19)
Certificate ID: 922123
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579491

Sample : 22-ELI-RNM036

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	33	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

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(20)
Certificate ID: 922124
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579492

Sample : 22-ELI-RAF003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(21)
Certificate ID: 922125
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579493

Sample : 22-ELI-RAF087

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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(22)
Certificate ID: 922126
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579494

Sample : 22-ELI-RAF095

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(23)
Certificate ID: 922127
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579495

Sample : 22-ELI-RAF115

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	89	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	105	cfu/ml

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(24)
Certificate ID: 922128
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579496

Sample : 22-ELI-RAF127

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	53	cfu/ml

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Certificate ID: 922129
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579497

Sample : 22-ELI-RCF003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Sample Date: 17-Jan-15
Received Date: 17-Jan-15
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Certificate Ref: 290104-21/01/2015 08:33:01
(26)
Certificate ID: 922130
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579498

Sample : 22-ELI-THE042

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(27)
Certificate ID: 922131
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579499

Sample : 22-ELI-THE069

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(28)
Certificate ID: 922132
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579500

Sample : 22-EL2-TBP001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(29)
Certificate ID: 922133
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579501

Sample : 22-EL2-MP020

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(31)
Certificate ID: 922135
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579503

Sample : 22-EL2-END013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	84	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	62	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(32)
Certificate ID: 922136
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579504

Sample : 22-EL2-END029

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	26	cfu/ml

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(33)
Certificate ID: 922137
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579505

Sample : 22-EL2-THE280

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	13	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	15	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(34)
Certificate ID: 922138
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579506

Sample : 22-EL2-THE370

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	30	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(35)
Certificate ID: 922139
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579507

Sample : 22-FLO-PHA002

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	10	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(36)
Certificate ID: 922140
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579508

Sample : 22-FLO-PHA008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	5	cfu/ml

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(37)
Certificate ID: 922141
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579509

Sample : 22-FLO-REH006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

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(38)
Certificate ID: 922142
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579510

Sample : 22-FLO-REH013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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(39)
Certificate ID: 922143
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579511

Sample : 22-FLO-REH026

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(40)
Certificate ID: 922144
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579512

Sample : 22-FLO-REH003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(41)
Certificate ID: 922145
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579513

Sample : 22-FLO-REH048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	8	cfu/ml

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(42)
Certificate ID: 922146
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579514

Sample : 22-FLI-THE078

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(43)
Certificate ID: 922147
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579515

Sample : 22-FLI-THE090

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(44)
Certificate ID: 922148
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579516

Sample : 22-FLI-THE102

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(45)
Certificate ID: 922149
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579517

Sample : 22-FLI-THE106

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(46)
Certificate ID: 922150
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579518

Sample : 22-FLI-THE117

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(47)
Certificate ID: 922151
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579519

Sample : 22-FLI-THE157

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(48)
Certificate ID: 922152
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579520

Sample : 22-FL2-DMW004

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(49)
Certificate ID: 922153
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579521

Sample : 22-FL2-DMW025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(50)
Certificate ID: 922154
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579522

Sample : 22-FL2-DMW031

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(51)
Certificate ID: 922155
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579523

Sample : 22-FL2-DMW060

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(52)
Certificate ID: 922156
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579524

Sample : 22-HL1-POA006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(53)
Certificate ID: 922157
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579525

Sample : 22-HL1-POA016

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	36	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	52	cfu/ml

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(54)
Certificate ID: 922158
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579526

Sample : 22-HL1-POA019

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	35	cfu/ml

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(55)
Certificate ID: 922159
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579527

Sample : 22-HL1-MDU012

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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(56)
Certificate ID: 922160
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579528

Sample : 22-HL1-MDU020

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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(57)
Certificate ID: 922161
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579529

Sample : 22-HL1-MDU046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(58)
Certificate ID: 922162
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579530

Sample : 22-HL1-MDU048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(59)
Certificate ID: 922163
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579531

Sample : 22-HL1-MDU050

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	18	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	21	cfu/ml

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Test Date : 17-Jan-15
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(60)
Certificate ID: 922164
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579532

Sample : 22-HL2-THE287

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Sample Date: 17-Jan-15
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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(61)
Certificate ID: 922165
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579533

Sample : 22-HL2-THE289

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(62)
Certificate ID: 922166
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579534

Sample : 22-HL2-THE302

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(63)
Certificate ID: 922167
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579535

Sample : 22-HL2-THE319

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

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Certificate Ref: 290104-21/01/2015 08:33:01
(64)
Certificate ID: 922168
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579536

Sample : 22-HL2-THE327

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(65)
Certificate ID: 922169
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579537

Sample : 22-HL2-THE299

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(66)
Certificate ID: 922170
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579538

Sample : 22-HL2-THE286

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	47	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	35	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(67)
Certificate ID: 922171
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579539

Sample : 22-HL2-THE327

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(68)
Certificate ID: 922172
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579540

Sample : 22-JLO-OPD0003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(69)
Certificate ID: 922173
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579541

Sample : 22-JLO-ORT045

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(70)
Certificate ID: 922174
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579542

Sample : 22-JLO-ORT027

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	95	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	95	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(71)
Certificate ID: 922175
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579543

Sample : 22-JLO-ORT015-2

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(72)
Certificate ID: 922176
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579544

Sample : 22-JLO-ORT017

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(73)
Certificate ID: 922177
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579545

Sample : 22-JLO-OPD0049

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(74)
Certificate ID: 922178
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579546

Sample : 22-JLO-DLO008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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(75)
Certificate ID: 922179
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579547

Sample : 22-JLO-DLO005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(76)
Certificate ID: 922180
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579548

Sample : 22-JLO-OPD0072

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Sample Date: 17-Jan-15
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Certificate Ref: 290104-21/01/2015 08:33:01
(77)
Certificate ID: 922181
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579549

Sample : 22-JLO-OPD0075

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 20-Jan-15

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(78)
Certificate ID: 922182
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579550

Sample : 22-JLO-OPD0013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	21	cfu/ml

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Certificate Ref: 290104-21/01/2015 08:33:01
(79)
Certificate ID: 922183
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579551

Sample : 22-JLO-OPD0067

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(80)
Certificate ID: 922184
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579552

Sample : 22-JL1-OPD1006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	5	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(82)
Certificate ID: 922186
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579554

Sample : 22-JL1-OPD1037

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(83)
Certificate ID: 922187
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579555

Sample : 22-JL1-OPD1040

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(84)
Certificate ID: 922188
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579556

Sample : 22-JL1-OPD1047

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(85)
Certificate ID: 922189
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579557

Sample : 22-JL1-OPD1048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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(86)
Certificate ID: 922190
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579558

Sample : 22-JL1-OPD1063

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	8	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	19	cfu/ml

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(87)
Certificate ID: 922191
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579559

Sample : 22-JL1-OPD1070

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(88)
Certificate ID: 922192
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579560

Sample : 22-JL1-OPD1085

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	18	cfu/ml

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(89)
Certificate ID: 922193
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579561

Sample : 22-JL1-OPD1113

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

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(90)
Certificate ID: 922194
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579562

Sample : 22-JL1-OPD1145

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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(91)
Certificate ID: 922195
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579563

Sample : 22-JL2-FMA2013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(92)
Certificate ID: 922196
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579564

Sample : 22-JL2-REN0003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	14	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	21	cfu/ml

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(93)
Certificate ID: 922197
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579565

Sample : 22-JL2-REN0016

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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(94)
Certificate ID: 922198
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579566

Sample : 22-JL2-REN0033

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	17	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	15	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(95)
Certificate ID: 922199
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579567

Sample : 22-JL2-REN0046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	61	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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Certificate Ref: 290104-21/01/2015 08:33:01
(96)
Certificate ID: 922200
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579568

Sample : 22-JL2-REN0064

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(97)
Certificate ID: 922201
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579569

Sample : 22-JL2-DOPD003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	15	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	25	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

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(98)
Certificate ID: 922202
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579570

Sample : 22-JL2-DOPD025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	23	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(99)
Certificate ID: 922203
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579571

Sample : 22-KLO-FMA0001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	14	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	65	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(100)
Certificate ID: 922204
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579572

Sample : 22-KLO-DL0005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	15	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(101)
Certificate ID: 922205
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579573

Sample : 22-KLO-DL0008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	28	cfu/ml

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(102)
Certificate ID: 922206
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579574

Sample : 22-KLO-OPD0073

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	16	cfu/ml

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(103)
Certificate ID: 922207
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579575

Sample : 22-KLO-OPD0075

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	13	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(104)
Certificate ID: 922208
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579576

Sample : 22-KLO-ENT038

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(105)
Certificate ID: 922209
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579577

Sample : 22-KLO-ENT046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(106)
Certificate ID: 922210
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579578

Sample : 22-KLO-ENT048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(107)
Certificate ID: 922211
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579579

Sample : 22-KLO-ENT052

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(108)
Certificate ID: 922212
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579580

Sample : 22-KLO-ENT054

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Amit Biswas(Team Leader)

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(109)
Certificate ID: 922213
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579581

Sample : 22-KLO-ENT062

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate ID: 922215
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579583

Sample : 22-KL1-RES019

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Date: 20-Jan-15

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Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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ALcontrol Laboratories, 2 Mallard Way, Strathclyde Business Park, Bellshill, Scotland, ML4 3BF Tel: (01698) 845599 Fax: (01698) 845520

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Registered in England and Wales No. 4057291

A53912406



ALcontrol Laboratories

Certificate of Analysis

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 17-Jan-15
Certificate Ref: 290104-21/01/2015 08:33:01
(112)
Certificate ID: 922216
Order Number: 1615/GW-WT/5902
SDG Reference: HVC_GLS 17-01-15 2
Laboratory Reference: HVC_GLS[BH]1579584

Sample : 22-KL1-RES034

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	23	cfu/ml

Approved By: Amit Biswas(Team Leader)

Date: 20-Jan-15

Page 1 of 1

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Certificate of Analysis

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Ayrshire
KA4 8HH

Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(11)
Certificate ID: 937129
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606199

Sample : ZEL0 M30 RCN068 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Ayrshire
KA4 8HH

Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(12)
Certificate ID: 937130
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606200

Sample : ZEL1 M26 RNM018 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 25-Jan-15
Received Date: 25-Jan-15
Test Date : 25-Jan-15
Certificate Ref: 291690-28/01/2015 15:10:15
(34)
Certificate ID: 926607
Order Number: 1623/CD/WT/5902
SDG Reference: HVC_GLS 25-01-15 1
Laboratory Reference: HVC_GLS[BH]1587223

Sample : ZK L1 M26 FMA 001 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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KA4 8HH

Sample Date: 25-Jan-15
Received Date: 25-Jan-15
Test Date : 25-Jan-15
Certificate Ref: 291690-28/01/2015 15:10:15
(30)
Certificate ID: 926603
Order Number: 1623/CD/WT/5902
SDG Reference: HVC_GLS 25-01-15 1
Laboratory Reference: HVC_GLS[BH]1587219

Sample : ZE L0 M26 RAG 054 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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KA4 8HH

Sample Date: 25-Jan-15
Received Date: 25-Jan-15
Test Date : 25-Jan-15
Certificate Ref: 291690-28/01/2015 15:10:15
(33)
Certificate ID: 926606
Order Number: 1623/CD/WT/5902
SDG Reference: HVC_GLS 25-01-15 1
Laboratory Reference: HVC_GLS[BH]1587222

Sample : ZJ L1 T13 OPD1 008 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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KA4 8HH

Sample Date: 25-Jan-15
Received Date: 25-Jan-15
Test Date : 25-Jan-15
Certificate Ref: 291690-28/01/2015 15:10:15
(32)
Certificate ID: 926605
Order Number: 1623/CD/WT/5902
SDG Reference: HVC_GLS 25-01-15 1
Laboratory Reference: HVC_GLS[BH]1587221

Sample : ZE L2 M26 DCT 015 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	124	cfu/ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290106-28/01/2015 14:29:48 (5)
Certificate ID: 926475
Order Number: 1615/GWT-WT/5902
SDG Reference: HVC_GLS 17-01-15 3
Laboratory Reference: HVC_GLS[BH]1579602
Legionella Process Date: 18/01/2015

Sample : M27 - RISER

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290106-28/01/2015 14:29:48 (4)
Certificate ID: 926474
Order Number: 1615/GWT-WT/5902
SDG Reference: HVC_GLS 17-01-15 3
Laboratory Reference: HVC_GLS[BH]1579601
Legionella Process Date: 18/01/2015

Sample : OPDO-067

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290106-28/01/2015 14:29:48 (3)
Certificate ID: 926473
Order Number: 1615/GWT-WT/5902
SDG Reference: HVC_GLS 17-01-15 3
Laboratory Reference: HVC_GLS[BH]1579600
Legionella Process Date: 18/01/2015

Sample : M3832 RISER

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290106-28/01/2015 14:29:48 (2)
Certificate ID: 926472
Order Number: 1615/GWT-WT/5902
SDG Reference: HVC_GLS 17-01-15 3
Laboratory Reference: HVC_GLS[BH]1579599
Legionella Process Date: 18/01/2015

Sample : RCG-101M30 RISER

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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Glaston
Ayrshire
KA4 8HH

Sample Date: 17-Jan-15
Received Date: 17-Jan-15
Test Date : 18-Jan-15
Certificate Ref: 290106-28/01/2015 14:29:48 (1)
Certificate ID: 926471
Order Number: 1615/GWT-WT/5902
SDG Reference: HVC_GLS 17-01-15 3
Laboratory Reference: HVC_GLS[BH]1579598
Legionella Process Date: 18/01/2015

Sample : M26 - RISER

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Maureen Howard(Lab Manager)

Date: 28-Jan-15

Page 1 of 1

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0996

H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 377



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 31, 32 & 33 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 2 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinal outlet and then sent to the lab for mircobiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Dec-14

Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

H&V COMMISSIONING LAB SAMPLE TRACKER										
PLANTROOM 31				DATE STERILISED		20/12/2014		Carried out by	GW/BG/TW/CD	
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
H	0	M7	AAW-125	SINK	HOT	21-Dec	PASS			
H	0	M7	AAW-125	SINK	COLD	21-Dec	PASS			
H	0	M7	AAW-247	SINK	HOT	21-Dec	PASS			
H	0	M7	AAW-247	SINK	COLD	21-Dec	PASS			
H	0	M10	AAW-007	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
H	0	M10	AAW-007	HORNE	MIXED	21-Dec	PASS			
H	0	M10	AAW-017	HORNE	MIXED	21-Dec	PASS			
H	0	M10	AAW-156	SINK	HOT	21-Dec	PASS			
H	0	M10	AAW-156	SINK	COLD	21-Dec	PASS			
H	0	M10	AAW-173	HORNE	MIXED	21-Dec	PASS			
H	0	M21	AAW-038	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-045	HORNE	MIXED	21-Dec	PASS			
H	0	M21	AAW-060	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-088	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-096	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-108	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M7	STW-014	HORNE	MIXED	21-Dec	PASS			
H	1	M7	STW-082	HORNE	MIXED	21-Dec	PASS			
H	1	M7	STW-036	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M7	STW-047	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M7	STW-072	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M21	MDU-048	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-046	SINK	HOT	21-Dec	PASS			
H	1	M21	MDU-046	SINK	COLD	21-Dec	PASS			
H	1	M21	MDU-051	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-020	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-020	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
H	1	M21	POA-019	HORNE	MIXED	21-Dec	PASS			
H	1	M21	POA-019	HORNE	MIXED	21-Dec	PASS			
H	1	M21	POA-015	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-012	HORNE	MIXED	21-Dec	FAIL		18/01/2015	PASS
H	2	M7	THE-044	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-026	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-033	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-105	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
H	2	M7	THE-105	HORNE	MIXED	21-Dec	PASS			
H	2	M7	THE-106	SINK	HOT	21-Dec	PASS			
H	2	M7	THE-106	SINK	COLD	21-Dec	PASS			
H	2	M7	THE-091	SINK	HOT	21-Dec	PASS			
H	2	M7	THE-091	SINK	COLD	21-Dec	FAIL		18/01/2015	PASS
H	2	M7	THE-079	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-060	MIXER TAP	MIXED	21-Dec	PASS			
H	4	T5	RENW-156	MIXER TAP	MIXED	21-Dec	PASS			
H	4	T5	RENW-153	MIXER TAP	MIXED	21-Dec	PASS			
H	4	T5	RENW-127	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	4	T5	RENW-188	HORNE	MIXED	21-Dec	PASS			
H	5	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	5	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	5	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	6	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	6	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	6	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	7	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	7	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	7	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	8	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	8	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	8	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	9	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	9	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	FAIL		25/01/2015	PASS
H	9	T5	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	10	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	10	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	10	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	11	T5	GENWD-028	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	11	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	11	T5	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	11	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
E	4	T4	HOW-030	MIXER TAP	MIXED	21-Dec	PASS			
E	4	T4	HOW-064	HORNE	MIXED	21-Dec	PASS			
E	4	T4	RENW-193	HORNE	MIXED	21-Dec	PASS			
E	5	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	5	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	5	T4	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	6	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	6	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	6	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	7	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	7	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	7	T4	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	8	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	8	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	8	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	9	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	9	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	9	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	10	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	10	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	10	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	11	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	11	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	11	T4	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS

E	11	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
K	4	T5	HOW-064	HORNE	MIXED	21-Dec	PASS			
K	4	T5	WS4-014	SINK	HOT	21-Dec	PASS			
K	4	T5	WS4-014	SINK	COLD	21-Dec	PASS			
K	4	T5	WS4-004	MIXER TAP	MIXED	21-Dec	PASS			
K	5	T5	WS5-027	SINK	HOT	21-Dec	PASS			
K	5	T5	WS5-027	SINK	COLD	21-Dec	PASS			
K	6	T5	WS6-027	SINK	HOT	21-Dec	PASS			
K	6	T5	WS6-027	SINK	COLD	21-Dec	PASS			
K	8	T5	WS8-018	SINK	HOT	21-Dec	PASS			
K	8	T5	WS8-018	SINK	COLD	21-Dec	PASS			
K	9	T5	WS9-027	SINK	HOT	21-Dec	PASS			
K	9	T5	WS9-027	SINK	COLD	21-Dec	PASS			
K	10	T5	WS10-018	SINK	HOT	21-Dec	PASS			
K	10	T5	WS10-018	SINK	COLD	21-Dec	PASS			
K	11	T5	WS11-018	SINK	HOT	21-Dec	PASS			
K	11	T5	WS11-018	SINK	COLD	21-Dec	PASS			



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Certificate Ref: 286243-31/12/2014 09:45:16
(65)
Certificate ID: 909545
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558615

Sample : 31E L5 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	44	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(66)
Certificate ID: 909546
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558616

Sample : 31E L5 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	280	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Test Date : 22-Dec-14
 Certificate Ref: 286243-31/12/2014 09:45:16
 (67)
 Certificate ID: 909547
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558617

Sample : 31E L6 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	80	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(68)
Certificate ID: 909548
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558618

Sample : 31E L6 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~460	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(69)
Certificate ID: 909549
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558619

Sample : 31E L6 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	96	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	160	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(70)
Certificate ID: 909550
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558620

Sample : 31K WS9-027 L9 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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 (71)
 Certificate ID: 909551
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558621

Sample : 31K WS10-018 L10 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(72)
Certificate ID: 909552
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558622

Sample : 31K WS10-018 L10 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(73)
Certificate ID: 909553
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558623

Sample : 31E L10 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	216	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	96	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(74)
Certificate ID: 909554
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558624

Sample : 31K WS5-027 HOT L5

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(75)
Certificate ID: 909555
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558625

Sample : 31K WS5-027 COLD L5

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(76)
Certificate ID: 909556
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558626

Sample : 31K WS6-027 HOT L6

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	52	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	124	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(77)
Certificate ID: 909557
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558627

Sample : 31K WS6-027 COLD L6

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(78)
Certificate ID: 909558
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558628

Sample : 31K WS8-018 HOT L8

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:16
(79)
Certificate ID: 909559
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558629

Sample : 31K WS8-018 COLD L8

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(80)
Certificate ID: 909560
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558630

Sample : 31K WS9-027 HOT L9

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
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Certificate Ref: 286243-31/12/2014 09:45:16
(81)
Certificate ID: 909561
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558631

Sample : 31E L8 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	68	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Sample Date: 21-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(82)
Certificate ID: 909562
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558632

Sample : 31E L8 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	192	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	248	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(83)
Certificate ID: 909563
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558633

Sample : 31E L8 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	128	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:17
(84)
Certificate ID: 909564
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558634

Sample : 31E L9 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	144	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	40	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286243-31/12/2014 09:45:17
(85)
Certificate ID: 909565
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558635

Sample : 31E L9 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2300	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1900	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(86)
Certificate ID: 909566
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558636

Sample : 31E L9 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	168	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	224	cfu/ml

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(87)
Certificate ID: 909567
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558637

Sample : 31E L10 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(88)
Certificate ID: 909568
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558638

Sample : 31E L10 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	216	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	140	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(89)
Certificate ID: 909569
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558639

Sample : 31H L5 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	48	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(90)
Certificate ID: 909570
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558640

Sample : 31H L5 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	68	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(91)
Certificate ID: 909571
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558641

Sample : 31H L5 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

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(92)
Certificate ID: 909572
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558642

Sample : 31H L6 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	108	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	156	cfu/ml

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(93)
Certificate ID: 909573
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558643

Sample : 31H L6 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	64	cfu/ml

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(94)
Certificate ID: 909574
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558644

Sample : 31H L6 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(95)
Certificate ID: 909575
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558645

Sample : 31H L8 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	264	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	240	cfu/ml

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(96)
Certificate ID: 909576
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558646

Sample : 31H L8 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:17
(97)
Certificate ID: 909577
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558647

Sample : 31H L8 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	168	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:17
(98)
Certificate ID: 909578
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558648

Sample : 31H L9 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	250	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	112	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286243-31/12/2014 09:45:17
(99)
Certificate ID: 909579
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558649

Sample : 31H L9 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1200	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:17
(100)
Certificate ID: 909580
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558650

Sample : 31H L9 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2000	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1900	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:17
(101)
Certificate ID: 909581
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558651

Sample : 31H L10 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	232	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	296	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:17
 (102)
 Certificate ID: 909582
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558652

Sample : 31H L10 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:17
(103)
Certificate ID: 909583
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558653

Sample : 31H L10 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	256	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	296	cfu/ml

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Certificate Ref: 286300-00/01/2015 13:59:37 (1)
Certificate ID: 914992
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558884

Sample : 31K WS4-014 HOT

Details : NSGH

Method Ref	Determination	LOD	Result	Units
BP50.15	Escherichia coli		0	cfu/100ml
BP50.15	Total Coliforms		0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)		0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)		0	cfu/ml

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 Certificate Ref: 286300-00/01/2015 13:59:37 (2)
 Certificate ID: 914993
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558885

Sample : 31K WS4-014 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

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 Certificate Ref: 286300-00/01/2015 13:59:37 (3)
 Certificate ID: 914994
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558886

Sample : 31K WS4-004 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Certificate ID: 914995
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558887

Sample : 31K WS11-018 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	1	cfu/ml

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 Certificate ID: 914996
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558888

Sample : 31K WS11-018 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	8	cfu/ml

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Certificate ID: 914997
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558889

Sample : 31K L4 HOW-064 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	14	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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 Certificate ID: 914998
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558890

Sample : 31H L0 AAW-156 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	176	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	106	cfu/ml

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Certificate ID: 914999
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558891

Sample : 31H L0 AAW-173 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 915000
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558892

Sample : 31H L0 AAW- 038 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(10)
Certificate ID: 915001
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558893

Sample : 31H L0 AAW- 045 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(11)
Certificate ID: 915002
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558894

Sample : 31H L0 AAW- 060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(12)
Certificate ID: 915003
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558895

Sample : 31H L0 AAW-088 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(13)
Certificate ID: 915004
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558896

Sample : 31H L0 AAW-096 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(14)
Certificate ID: 915005
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558897

Sample : 31H L0 AAW- 108 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(55)
Certificate ID: 915046
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558938
Legionella Process Date: 23/12/2014

Sample : 31H L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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(56)
Certificate ID: 915047
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558939

Sample : 31E L4 HOW-030 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	40	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	26	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(57)
Certificate ID: 915048
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558940

Sample : 31E L4 HOW-064 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	12	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(58)
Certificate ID: 915049
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558941

Sample : 31E L4 RENW-193 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	248	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	110	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(59)
Certificate ID: 915050
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558942

Sample : 31E L7 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	13	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(60)
Certificate ID: 915051
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558943

Sample : 31E L7 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	11	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(61)
Certificate ID: 915052
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558944

Sample : 31E L7 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~440	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~680	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(62)
Certificate ID: 915053
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558945

Sample : 31E L11 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	60	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	12	cfu/ml

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 (63)
 Certificate ID: 915054
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558946

Sample : 31E L11 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	33	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	104	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(64)
Certificate ID: 915055
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558947

Sample : 31E L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~320	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~400	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(65)
Certificate ID: 915056
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558948

Sample : 31H L4 RENW-106 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	40	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	37	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(66)
Certificate ID: 915057
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558949

Sample : 31H L4 RENW-103 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	8	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	21	cfu/ml

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Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(67)
Certificate ID: 915058
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558950

Sample : 31H L4 RENW-127 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~400	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	260	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(68)
Certificate ID: 915059
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558951

Sample : 31H L4 RENW-188 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	296	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	92	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(69)
Certificate ID: 915060
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558952

Sample : 31H L7 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	164	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	206	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(70)
Certificate ID: 915061
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558953

Sample : 31H L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	140	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	240	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(71)
Certificate ID: 915062
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558954

Sample : 31H L7 GENWD- 065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	116	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	84	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(72)
Certificate ID: 915063
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558955

Sample : 31H L11 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~320	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~400	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(73)
Certificate ID: 915064
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558956

Sample : 31H L11 GENW- 034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	29	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	72	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(74)
Certificate ID: 915065
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558957

Sample : 31H L11 GENW-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~300	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	206	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Test Date : 22-Dec-14
 Certificate Ref: 286300-00/01/2015 13:59:37
 (75)
 Certificate ID: 915066
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558958

Sample : 31H L0 AAW-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	208	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	118	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(76)
Certificate ID: 915067
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558959

Sample : 31H L0 AAW-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(77)
Certificate ID: 915068
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558960

Sample : 31H L0 AAW-125 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(78)
Certificate ID: 915069
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558961

Sample : 31H L0 AAW-125 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(79)
Certificate ID: 915070
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558962

Sample : 31H L0 AAW-247 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(80)
Certificate ID: 915071
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558963

Sample : 31H L0 AAW-247 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	64	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	216	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 23-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(81)
Certificate ID: 915072
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558964
Legionella Process Date: 23/12/2014

Sample : 31H L0 AAW-007 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(82)
Certificate ID: 915073
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558965

Sample : 31H L0 AAW-007 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	176	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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H&V Commissioning Services Ltd
Kilknowe Office
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Ayrshire
KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(83)
Certificate ID: 915074
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558966

Sample : 31H L0 AAW-017 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	120	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(84)
Certificate ID: 915075
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558967

Sample : 31H L0 AAW-156 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(85)
Certificate ID: 915076
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558968

Sample : 31H L2 THE-/ 44 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP0/ .10	Escherichia coli	/	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	27	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(86)
Certificate ID: 915077
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558969

Sample : 31H L2 THE-/ 26 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP0/ .10	Escherichia coli	/	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	13	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(87)
Certificate ID: 915078
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558970

Sample : 31H L2 THE-/ 33 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP0/ .10	Escherichia coli	/	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	27	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	48	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 23-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(88)
Certificate ID: 915079
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558971
Legionella Process Date: 23/12/2014

Sample : 31H L2 THE-105 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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Certificate Ref: 286300-00/01/2015 13:59:37
(89)
Certificate ID: 915080
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558972

Sample : 31H L2 THE-105 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	20	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(90)
Certificate ID: 915081
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558973

Sample : 31H L2 THE-106 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(91)
Certificate ID: 915082
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558974

Sample : 31H L2 THE-106 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(92)
Certificate ID: 915083
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558975

Sample : 31H L2 THE-/ 91 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Certificate Ref: 286300-00/01/2015 13:59:37
(93)
Certificate ID: 915084
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558976

Sample : 31H L2 THE-/ 91 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~310	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(94)
Certificate ID: 915085
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558977

Sample : 31H L2 THE-/ 79 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(95)
Certificate ID: 915086
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558978

Sample : 31H L1 STW-014 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	29	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	40	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(96)
Certificate ID: 915087
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558979

Sample : 31H L1 STW-082 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(97)
Certificate ID: 915088
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558980

Sample : 31H L1 STW-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	52	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	104	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(98)
Certificate ID: 915089
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558981

Sample : 31H L1 STW-047 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	144	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	124	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(99)
Certificate ID: 915090
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558982

Sample : 31H L1 STW-072 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	37	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	64	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Certificate of Analysis

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Kilknowe Office
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Ayrshire
KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(100)
Certificate ID: 915091
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558983

Sample : 31H L1 MDU-048 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	1	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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 Ayrshire
 KA4 8HH

Sample Date: 22-Dec-14
 Received Date: 22-Dec-14
 Test Date : 22-Dec-14
 Certificate Ref: 286305-05/01/2015 13:59:37
 (101)
 Certificate ID: 915092
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558984

Sample : 31H L1 MDU-046 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(102)
Certificate ID: 915093
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558985

Sample : 31H L1 MDU-046 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	34	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(103)
Certificate ID: 915094
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558986

Sample : 31H L1 MDU-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 23-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(104)
Certificate ID: 915095
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558987
Legionella Process Date: 23/12/2014

Sample : 31H L1 L1 MDU-020 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Tests marked * have not been subcontracted and are not accredited. The Legionella (calculated) det is a calculated det where the result is extrapolated from the Legionella test results. LOD = Limit of Detection. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(23)
Certificate ID: 915014
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558906

Sample : 31H L1 MDU-020 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(24)
Certificate ID: 915015
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558907

Sample : 31H L1 POA-019 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	36	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(25)
Certificate ID: 915016
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558908

Sample : 31H L1 POA-019 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	108	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	64	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(26)
Certificate ID: 915017
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558909

Sample : 31H L1 POA-015 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Glaston
Ayrshire
KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(27)
Certificate ID: 915018
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558910

Sample : 31H L1 MDU-012 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~350	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(28)
Certificate ID: 915019
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558911

Sample : 31H L1 TH6-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 489



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 31, 32 & 33 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 2 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinal outlet and then sent to the lab for mircobiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Dec-14

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

 H&V COMMISSIONING LAB SAMPLE TRACKER 										
PLANTROOM 32				DATE STERILISED		20/12/2014		Carried out by	GW/BG/TW/CD	
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
F	4	T12	RENW-024	MIXER TAP	MIXED	22-Dec	PASS			
F	4	T12	RENW-027	MIXER TAP	MIXED	22-Dec	PASS			
F	4	T12	RENW-055	HORNE	MIXED	22-Dec	PASS			
F	5	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	5	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	5	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	5	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	6	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	6	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	6	T12	GENWD-034	MIXER TAP	MIXED					
F	6	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	7	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	7	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	7	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	7	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	7	T12	GENWD-065	HORNE TAP	MIXED			LEGIONELLA		
F	8	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	8	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	8	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	8	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	9	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	9	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	9	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	9	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	10	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			

F	10	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	10	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	10	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
F	10	T12	GENWD-066	SINK	HOT	22-Dec	PASS			
F	10	T12	GENWD-066	SINK	COLD	22-Dec	PASS			
F	11	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	11	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	11	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	11	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	4	T12	WS4-017	MIXER TAP	MIXED	22-Dec	PASS			
K	5	T12	WS5-004	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	5	T12	WS5-021	MIXER TAP	MIXED	22-Dec	PASS			
K	6	T12	WS6-005	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	PASS
K	6	T12	WS6-019	MIXER TAP	MIXED	22-Dec	PASS			
K	7	T12	WS7-005	MIXER TAP	MIXED	22-Dec	PASS			
K	8	T12	WS8-005	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	8	T12	WS8-021	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T12	WS9-005	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T12	WS9-021	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	PASS
K	10	T12	WS10-005	MIXER TAP	MIXED	22-Dec	PASS			
K	10	T12	WS10-026	MIXER TAP	MIXED	22-Dec	PASS			
K	11	T12	WS11-005	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	11	T12	WS11-021	MIXER TAP	MIXED	22-Dec	PASS			



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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(33)
Certificate ID: 909513
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558583

Sample : 32K L5 WS5-004 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~780	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(34)
Certificate ID: 909514
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558584

Sample : 32K L5 WS5-021 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	128	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	27	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(35)
Certificate ID: 909515
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558585

Sample : 32K L6 WS6-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~620	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~680	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:16
(36)
Certificate ID: 909516
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558586

Sample : 32K L6 WS6-019 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(37)
Certificate ID: 909517
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558587

Sample : 32K L8 WS8-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~520	cfu/ml

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(38)
Certificate ID: 909518
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558588

Sample : 32K L8 WS8-021 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	72	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	216	cfu/ml

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(39)
Certificate ID: 909519
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558589

Sample : 32K L9 WS9-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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 (40)
 Certificate ID: 909520
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558590

Sample : 32K L9 WS9-021 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2000	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1400	cfu/ml

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 (41)
 Certificate ID: 909521
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558591

Sample : 32K L10 WS10-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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(42)
Certificate ID: 909522
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558592

Sample : 32K L10 WS10-026 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	72	cfu/ml

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(43)
Certificate ID: 909523
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558593

Sample : 32F L5 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	156	cfu/ml

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(44)
Certificate ID: 909524
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558594

Sample : 32F L5 GENWD-029 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	17	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	32	cfu/ml

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(45)
Certificate ID: 909525
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558595

Sample : 32F L5 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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(46)
Certificate ID: 909526
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558596

Sample : 32F L5 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	56	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(47)
Certificate ID: 909527
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558597

Sample : 32F L6 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	76	cfu/ml

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(48)
Certificate ID: 909528
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558598

Sample : 32F L6 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1200	cfu/ml

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Certificate ID: 909529
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558599

Sample : 32F L6 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	216	cfu/ml

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(50)
Certificate ID: 909530
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558600

Sample : 32F L8 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2100	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2200	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 21-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(51)
Certificate ID: 909531
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558601

Sample : 32F L8 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	8	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(52)
Certificate ID: 909532
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558602

Sample : 32F L8 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(53)
Certificate ID: 909533
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558603

Sample : 32F L8 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	232	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(54)
Certificate ID: 909534
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558604

Sample : 32F L9 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2000	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~940	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(55)
Certificate ID: 909535
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558605

Sample : 32F L9 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	80	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	200	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(56)
Certificate ID: 909536
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558606

Sample : 32F L9 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~330	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(57)
Certificate ID: 909537
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558607

Sample : 32F L9 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Date: 29-Dec-14

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 Test Date : 22-Dec-14
 Certificate Ref: 286243-31/12/2014 09:45:16
 (58)
 Certificate ID: 909538
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558608

Sample : 32F L10 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	152	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(59)
Certificate ID: 909539
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558609

Sample : 32F L10 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	68	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(60)
Certificate ID: 909540
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558610

Sample : 32F L10 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	52	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	24	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(61)
Certificate ID: 909541
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558611

Sample : 32F L10 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~560	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~420	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(62)
Certificate ID: 909542
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558612

Sample : 32F L10 GENWD-066 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(63)
Certificate ID: 909543
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558613

Sample : 32F L10 GENWD-066 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	20	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(38)
Certificate ID: 915029
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558921

Sample : 32F L11 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	33	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	18	cfu/ml

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(39)
Certificate ID: 915030
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558922

Sample : 32F L11 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	11	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	60	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(40)
Certificate ID: 915031
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558923

Sample : 32F L11 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	60	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	40	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Certificate of Analysis

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(41)
Certificate ID: 915032
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558924

Sample : 32F L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~2800	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~3100	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(42)
Certificate ID: 915033
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558925

Sample : 32K L11 WSL11-005 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	112	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~380	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(43)
Certificate ID: 915034
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558926

Sample : 32K L11 WS11-021 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	100	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(44)
Certificate ID: 915035
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558927

Sample : 32K L7 WS7-005 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	18	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(45)
Certificate ID: 915036
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558928

Sample : 32K L4 WS4-017 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(46)
Certificate ID: 915037
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558929

Sample : 32F L4 RENW-005 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	116	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~460	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(47)
Certificate ID: 915038
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558930

Sample : 32F L4 RENW-024 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	8	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(48)
Certificate ID: 915039
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558931

Sample : 32F L4 RENW-027 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	29	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(49)
Certificate ID: 915040
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558932

Sample : 32F L4 RENW-055 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	27	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	176	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(50)
Certificate ID: 915041
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558933

Sample : 32F L7 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~320	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~1600	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(51)
Certificate ID: 915042
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558934

Sample : 32F L7 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~(00	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~070	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(52)
Certificate ID: 915043
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558935

Sample : 32F L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(53)
Certificate ID: 915044
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558936

Sample : 32F L7 GENW-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	60	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	80	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Test Date : 23-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(54)
Certificate ID: 915045
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558937
Legionella Process Date: 23/12/2014

Sample : 32F L4 RENW-005 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

Page 1 of 1

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H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 540



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 31, 32 & 33 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 2 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinel outlet and then sent to the lab for microbiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Dec-14

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

 H&V COMMISSIONING LAB SAMPLE TRACKER 										
PLANTROOM 33				DATE STERILISED		20/12/2014		Carried out by		GW/BG/TW/CD
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
J	4	T13	RENW-094	MIXER TAP	MIXED	22-Dec	PASS			
J	4	T13	RENW-124	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	5	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS	LEGIONELLA		
J	5	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-066	SINK	HOT	22-Dec	PASS			
J	5	T13	GENWD-066	SINK	COLD	22-Dec	PASS			
J	6	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	6	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	7	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-028	HORNE	MIXED	22-Dec	FAIL		18/01/2015	FAIL
J	8	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	8	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	9	T13	GENWD-057	HORNE	MIXED	22-Dec	FAIL		18/01/2015	FAIL
J	9	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			

J	10	T13	GENWD-001	HORNE	MIXED	22-Dec	FAIL		18/01/2015	FAIL
J	10	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	10	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	11	T13	GENWD-057	HORNE	MIXED	22-Dec	FAIL		18/01/2015	FAIL
J	11	T13	GENWD-065	HORNE	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	4	T13	WS4-009	MIXER TAP	MIXED	22-Dec	PASS			
K	5	T13	WS5-011	MIXER TAP	MIXED	22-Dec	PASS			
K	6	T13	WS6-011	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	7	T13	WS7-011	MIXER TAP	MIXED	22-Dec	PASS			
K	8	T13	WS8-011	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T13	WS9-011	MIXER TAP	MIXED	22-Dec	PASS			
K	10	T13	WS10-011	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	FAIL
K	11	T13	WS11-011	MIXER TAP	MIXED	22-Dec	PASS			



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 Certificate Ref: 286243-31/12/2014 09:45:16 (1)
 Certificate ID: 909481
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558550

Sample : 33J L6 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	56	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

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Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16 (2)
 Certificate ID: 909482
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558551

Sample : 33J L6 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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 Certificate Ref: 286243-31/12/2014 09:45:16 (3)
 Certificate ID: 909483
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558552

Sample : 33J L6 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	240	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	46	cfu/ml

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Certificate ID: 909484
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558553

Sample : 33J L8 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	22	cfu/ml

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 Certificate ID: 909485
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558554

Sample : 33J L8 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	296	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~420	cfu/ml

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 Certificate ID: 909486
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558555

Sample : 33J L8 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	144	cfu/ml

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 Certificate Ref: 286243-31/12/2014 09:45:16 (7)
 Certificate ID: 909487
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558556

Sample : 33J L8 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Certificate ID: 909488
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558557

Sample : 33J L8 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	288	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	264	cfu/ml

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 Certificate ID: 909489
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558558

Sample : 33J L9 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(10)
Certificate ID: 909490
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558559

Sample : 33J L9 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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 (11)
 Certificate ID: 909491
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558560

Sample : 33K L5 WS5-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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(12)
Certificate ID: 909492
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558561

Sample : 33K L6 WS6-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~680	cfu/ml

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(13)
Certificate ID: 909493
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558562

Sample : 33K L8 WS8-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(14)
Certificate ID: 909494
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558563

Sample : 33K L9 WS9-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	68	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	170	cfu/ml

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 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558564

Sample : 33K L10 WS10-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2200	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2600	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16
 (16)
 Certificate ID: 909496
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558565

Sample : 33J L5 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(17)
Certificate ID: 909497
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558566

Sample : 33J L5 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	28	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Date: 29-Dec-14

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(18)
Certificate ID: 909498
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558567

Sample : 33J L5 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(19)
Certificate ID: 909499
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558569

Sample : 33J L5 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(20)
Certificate ID: 909500
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558570

Sample : 33J L5 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	26	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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 (21)
 Certificate ID: 909501
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558571

Sample : 33J L5 GENWD-066 HOT

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(22)
Certificate ID: 909502
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558572

Sample : 33J L5 GENWD-066 COLD

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 909503
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558573

Sample : 33J L6 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	272	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	219	cfu/ml

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Certificate ID: 909504
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558574

Sample : 33J L6 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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 (25)
 Certificate ID: 909505
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558575

Sample : 33J L9 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	120	cfu/ml

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Certificate ID: 909506
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558576

Sample : 33J L9 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1400	cfu/ml

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(27)
Certificate ID: 909507
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558577

Sample : 33J L9 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	192	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	232	cfu/ml

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Certificate ID: 909508
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558578

Sample : 33J L10 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~540	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~470	cfu/ml

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Certificate ID: 909509
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558579

Sample : 33J L10 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	100	cfu/ml

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(30)
Certificate ID: 909510
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558580

Sample : 33J L10 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	92	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	30	cfu/ml

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(31)
Certificate ID: 909511
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SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558581

Sample : 33J L10 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	148	cfu/ml

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 Received Date: 22-Dec-14
 Test Date : 22-Dec-14
 Certificate Ref: 286243-31/12/2014 09:45:16
 (32)
 Certificate ID: 909512
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558582

Sample : 33J L10 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	15	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 21-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286251-05/01/2015 13:59:37 (1)
Certificate ID: 914991
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 2
Laboratory Reference: HVC_GLS[BH]1558694
Legionella Process Date: 22/12/2014

Sample : 33J L5 GENWD-057 MIX

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	N/A	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		700	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(15)
Certificate ID: 915006
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558898

Sample : 33J L11 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	140	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(16)
Certificate ID: 915007
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558899

Sample : 33J L11 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	64	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	29	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(17)
Certificate ID: 915008
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558900

Sample : 33J L11 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Test Date : 22-Dec-14
 Certificate Ref: 286305-05/01/2015 13:59:37
 (18)
 Certificate ID: 915009
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558901

Sample : 33J L11 GENWD-057 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~340	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~570	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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 Test Date : 22-Dec-14
 Certificate Ref: 286305-05/01/2015 13:59:37
 (19)
 Certificate ID: 915010
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558902

Sample : 33J L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1600	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2100	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286305-05/01/2015 13:59:37
(20)
Certificate ID: 915011
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558903

Sample : 33K L4 WSG-009 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(21)
Certificate ID: 915012
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558904

Sample : 33K L7 WS7-011 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(22)
Certificate ID: 915013
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558905

Sample : 33K L11 WS11-011 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	72	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(23)
Certificate ID: 915014
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558906

Sample : 31H L1 MDU-020 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(24)
Certificate ID: 915015
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558907

Sample : 31H L1 POA-019 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	36	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(25)
Certificate ID: 915016
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558908

Sample : 31H L1 POA-019 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	108	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	64	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(26)
Certificate ID: 915017
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558909

Sample : 31H L1 POA-015 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(27)
Certificate ID: 915018
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558910

Sample : 31H L1 MDU-012 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~350	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(28)
Certificate ID: 915019
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558911

Sample : 31H L1 TH6-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

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(29)
Certificate ID: 915020
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558912

Sample : 33J L4 RENW-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	56	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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ALcontrol Laboratories

Certificate of Analysis

H&V Commissioning Services Ltd
 Kilknowe Office
 16 Barrmill Road
 Glaston
 Ayrshire
 KA4 8HH

Sample Date: 22-Dec-14
 Received Date: 22-Dec-14
 Test Date : 22-Dec-14
 Certificate Ref: 286305-05/01/2015 13:59:37
 (30)
 Certificate ID: 915021
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558913

Sample : 33J L4 RENW-091 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~310	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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 Ayrshire
 KA4 8HH

Sample Date: 22-Dec-14
 Received Date: 22-Dec-14
 Test Date : 22-Dec-14
 Certificate Ref: 286305-05/01/2015 13:59:37
 (31)
 Certificate ID: 915022
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558914

Sample : 33J L4 RENW-094 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(32)
Certificate ID: 915023
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558915

Sample : 33J L4 RENW-124 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(33)
Certificate ID: 915024
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558916

Sample : 33J L7 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	32	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(34)
Certificate ID: 915025
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558917

Sample : 33J L7 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	44	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(35)
Certificate ID: 915026
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558918

Sample : 33J L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(36)
Certificate ID: 915027
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558919

Sample : 33J L7 GENWD-057 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	84	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(37)
Certificate ID: 915028
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558920

Sample : 33J L7 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 599



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 31, 32 & 33 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 2 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinal outlet and then sent to the lab for mircobiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Dec-14

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

 										
H&V COMMISSIONING LAB SAMPLE TRACKER										
PLANTROOM 33				DATE STERILISED		20/12/2014		Carried out by		GW/BG/TW/CD
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
J	4	T13	RENW-060	MIXER TAP	MIXED	22-Dec	PASS			
J	4	T13	RENW-091	HORNE	MIXED	22-Dec	PASS			
J	4	T13	RENW-094	MIXER TAP	MIXED	22-Dec	PASS			
J	4	T13	RENW-124	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	5	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS	LEGIONELLA		
J	5	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-066	SINK	HOT	22-Dec	PASS			
J	5	T13	GENWD-066	SINK	COLD	22-Dec	PASS			
J	6	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	6	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	7	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-028	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	8	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	8	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			

J	9	T13	GENWD-057	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	9	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-001	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	10	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	10	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	11	T13	GENWD-057	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	11	T13	GENWD-065	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	4	T13	WS4-009	MIXER TAP	MIXED	22-Dec	PASS			
K	5	T13	WS5-011	MIXER TAP	MIXED	22-Dec	PASS			
K	6	T13	WS6-011	MIXER TAP	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	7	T13	WS7-011	MIXER TAP	MIXED	22-Dec	PASS			
K	8	T13	WS8-011	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T13	WS9-011	MIXER TAP	MIXED	22-Dec	PASS			
K	10	T13	WS10-011	MIXER TAP	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	11	T13	WS11-011	MIXER TAP	MIXED	22-Dec	PASS			
ZHL4	5		RENW-127	MWS	MIXED	11-Feb	PASS			
ZHL9	5		GENWO-065	MWS	MIXED	11-Feb	PASS			
ZHL11	5		GENWO-028	MWS	MIXED	11-Feb	PASS			
ZHL11	5		GENWO-065	MWS	MIXED	11-Feb	PASS			
ZEL5	4		GENWO-065	MWS	MIXED	11-Feb	PASS			
ZEL6	4		GENWO-036	MWS	MIXED	11-Feb	PASS			
ZEL7	4		GENWO-065	MWS	MIXED	11-Feb	PASS			

ZEL9	4		GENWO-036	MWS	MIXED	11-Feb	PASS			
ZEL11	4		GENWO-065	MWS	MIXED	11-Feb	PASS			
ZKL11	12		WS11-005	MWS	MIXED	11-Feb	PASS			
ZJL8	13		GENWD-028	MWS	MIXED	11-Feb	PASS			
ZJL9	13		GENWD-057	MWS	MIXED	11-Feb	PASS			
ZJL10	13		GENWD-001	MWS	MIXED	11-Feb	PASS			
ZJL11	13		GENWD-057	MWS	MIXED	11-Feb	PASS			
ZJL11	13		GENWD-065	MWS	MIXED	11-Feb	PASS			
ZKL6	13		WS8-011	MWS	MIXED	11-Feb	PASS			
ZKL10			WS10-011	MWS	MIXED	11-Feb	PASS			



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Kilknowe Office
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Glaston
Ayrshire
KA4 8HH

Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16 (1)
Certificate ID: 909481
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558550

Sample : 33J L6 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	56	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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 Ayrshire
 KA4 8HH

Sample Date: 21-Dec-14
 Received Date: 22-Dec-14
 Test Date : 22-Dec-14
 Certificate Ref: 286243-31/12/2014 09:45:16 (2)
 Certificate ID: 909482
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558551

Sample : 33J L6 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Certificate Ref: 286243-31/12/2014 09:45:16 (3)
Certificate ID: 909483
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558552

Sample : 33J L6 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	240	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	46	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16 (4)
Certificate ID: 909484
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558553

Sample : 33J L8 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	22	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 21-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16 (5)
Certificate ID: 909485
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558554

Sample : 33J L8 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	296	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~420	cfu/ml

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Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16 (6)
Certificate ID: 909486
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558555

Sample : 33J L8 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	144	cfu/ml

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 Certificate Ref: 286243-31/12/2014 09:45:16 (7)
 Certificate ID: 909487
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558556

Sample : 33J L8 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Certificate ID: 909488
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558557

Sample : 33J L8 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	288	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	264	cfu/ml

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 Certificate ID: 909489
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558558

Sample : 33J L9 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(10)
Certificate ID: 909490
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558559

Sample : 33J L9 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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 Certificate ID: 909491
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558560

Sample : 33K L5 WS5-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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Certificate ID: 909492
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558561

Sample : 33K L6 WS6-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~680	cfu/ml

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 (13)
 Certificate ID: 909493
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558562

Sample : 33K L8 WS8-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(14)
Certificate ID: 909494
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558563

Sample : 33K L9 WS9-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	68	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	170	cfu/ml

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 (15)
 Certificate ID: 909495
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558564

Sample : 33K L10 WS10-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2200	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2600	cfu/ml

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(16)
Certificate ID: 909496
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558565

Sample : 33J L5 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Certificate ID: 909497
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SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558566

Sample : 33J L5 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	28	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Certificate ID: 909498
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558567

Sample : 33J L5 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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Certificate ID: 909499
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558569

Sample : 33J L5 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 909500
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SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558570

Sample : 33J L5 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	26	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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KA4 8HH

Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(21)
Certificate ID: 909501
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558571

Sample : 33J L5 GENWD-066 HOT

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(22)
Certificate ID: 909502
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558572

Sample : 33J L5 GENWD-066 COLD

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(23)
Certificate ID: 909503
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558573

Sample : 33J L6 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	272	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	219	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(24)
Certificate ID: 909504
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558574

Sample : 33J L6 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(25)
Certificate ID: 909505
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558575

Sample : 33J L9 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	120	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(26)
Certificate ID: 909506
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558576

Sample : 33J L9 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1400	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(27)
Certificate ID: 909507
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558577

Sample : 33J L9 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	192	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	232	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(28)
Certificate ID: 909508
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558578

Sample : 33J L10 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~540	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~470	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 (29)
 Certificate ID: 909509
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558579

Sample : 33J L10 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	100	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(30)
Certificate ID: 909510
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558580

Sample : 33J L10 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	92	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	30	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16
 (31)
 Certificate ID: 909511
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558581

Sample : 33J L10 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	148	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(32)
Certificate ID: 909512
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558582

Sample : 33J L10 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	15	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286251-05/01/2015 13:59:37 (1)
Certificate ID: 914991
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 2
Laboratory Reference: HVC_GLS[BH]1558694
Legionella Process Date: 22/12/2014

Sample : 33J L5 GENWD-057 MIX

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	N/A	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		700	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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(15)
Certificate ID: 915006
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558898

Sample : 33J L11 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	140	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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(16)
Certificate ID: 915007
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558899

Sample : 33J L11 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	64	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	29	cfu/ml

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(17)
Certificate ID: 915008
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558900

Sample : 33J L11 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(18)
Certificate ID: 915009
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558901

Sample : 33J L11 GENWD-057 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~340	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~570	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(19)
Certificate ID: 915010
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558902

Sample : 33J L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1600	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2100	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
 Received Date: 22-Dec-14
 Test Date : 22-Dec-14
 Certificate Ref: 286305-05/01/2015 13:59:37
 (20)
 Certificate ID: 915011
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558903

Sample : 33K L4 WSG-009 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(21)
Certificate ID: 915012
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558904

Sample : 33K L7 WS7-011 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286305-05/01/2015 13:59:37
(22)
Certificate ID: 915013
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558905

Sample : 33K L11 WS11-011 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	72	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(29)
Certificate ID: 915020
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558912

Sample : 33J L4 RENW-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	56	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(30)
Certificate ID: 915021
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558913

Sample : 33J L4 RENW-091 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~310	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(31)
Certificate ID: 915022
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558914

Sample : 33J L4 RENW-094 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(32)
Certificate ID: 915023
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558915

Sample : 33J L4 RENW-124 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(33)
Certificate ID: 915024
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558916

Sample : 33J L7 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	32	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(34)
Certificate ID: 915025
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558917

Sample : 33J L7 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	44	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(35)
Certificate ID: 915026
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558918

Sample : 33J L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(36)
Certificate ID: 915027
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558919

Sample : 33J L7 GENWD-057 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	84	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(37)
Certificate ID: 915028
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558920

Sample : 33J L7 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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Certificate Ref: 295162-16/02/2015 12:36:27 (1)
Certificate ID: 937119
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606189

Sample : ZHL4 T5 RENW-127 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (2)
Certificate ID: 937120
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606190

Sample : ZHL9 T5 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate ID: 937121
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606191

Sample : ZHL11 T5 GENWO-028 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 295162-16/02/2015 12:36:27 (4)
Certificate ID: 937122
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606192

Sample : ZHL11 T5 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Certificate of Analysis

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (5)
Certificate ID: 937123
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606193

Sample : ZEL5 T4 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (6)
Certificate ID: 937124
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606194

Sample : ZEL6 T4 GENWO-036 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (7)
Certificate ID: 937125
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606195

Sample : ZEL7 T4 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (8)
Certificate ID: 937126
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606196

Sample : ZEL9 T4 GENWO-036 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (9)
Certificate ID: 937127
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606197

Sample : ZEL11 T4 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	84	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(10)
Certificate ID: 937128
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606198

Sample : ZKL11 T12 WS11-005 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(13)
Certificate ID: 937131
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606201

Sample : ZJL8 T13 GENWD-028 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(14)
Certificate ID: 937132
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606202

Sample : ZJL9 T13 GENWD-057 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(15)
Certificate ID: 937133
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606203

Sample : ZJL10 T13 GENWD-001 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	107	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(16)
Certificate ID: 937134
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606204

Sample : ZJL11 T13 GENWD-057 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(17)
Certificate ID: 937135
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606205

Sample : ZJL11 T13 GENWD-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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KA4 8HH

Sample Date: 11-Feb-15
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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(18)
Certificate ID: 937136
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606206

Sample : ZKL6 T13 WS6-011 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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Ayrshire
KA4 8HH

Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(19)
Certificate ID: 937137
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606207

Sample : ZKL10 WS10-011 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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0996

H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 670



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 31, 32 & 33 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 2 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinel outlet and then sent to the lab for microbiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Dec-14

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

H&V COMMISSIONING LAB SAMPLE TRACKER										
PLANTROOM 31				DATE STERILISED		20/12/2014		Carried out by	GW/BG/TW/CD	
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
H	0	M7	AAW-125	SINK	HOT	21-Dec	PASS			
H	0	M7	AAW-125	SINK	COLD	21-Dec	PASS			
H	0	M7	AAW-247	SINK	HOT	21-Dec	PASS			
H	0	M7	AAW-247	SINK	COLD	21-Dec	PASS			
H	0	M10	AAW-007	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
H	0	M10	AAW-007	HORNE	MIXED	21-Dec	PASS			
H	0	M10	AAW-017	HORNE	MIXED	21-Dec	PASS			
H	0	M10	AAW-156	SINK	HOT	21-Dec	PASS			
H	0	M10	AAW-156	SINK	COLD	21-Dec	PASS			
H	0	M10	AAW-173	HORNE	MIXED	21-Dec	PASS			
H	0	M21	AAW-038	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-045	HORNE	MIXED	21-Dec	PASS			
H	0	M21	AAW-060	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-088	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-096	MIXER TAP	MIXED	21-Dec	PASS			
H	0	M21	AAW-108	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M7	STW-014	HORNE	MIXED	21-Dec	PASS			
H	1	M7	STW-082	HORNE	MIXED	21-Dec	PASS			
H	1	M7	STW-036	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M7	STW-047	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M7	STW-072	MIXER TAP	MIXED	21-Dec	PASS			
H	1	M21	MDU-048	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-046	SINK	HOT	21-Dec	PASS			
H	1	M21	MDU-046	SINK	COLD	21-Dec	PASS			
H	1	M21	MDU-051	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-020	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-020	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
H	1	M21	POA-019	HORNE	MIXED	21-Dec	PASS			
H	1	M21	POA-019	HORNE	MIXED	21-Dec	PASS			
H	1	M21	POA-015	HORNE	MIXED	21-Dec	PASS			
H	1	M21	MDU-012	HORNE	MIXED	21-Dec	FAIL		18/01/2015	PASS
H	2	M7	THE-044	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-026	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-033	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-105	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
H	2	M7	THE-105	HORNE	MIXED	21-Dec	PASS			
H	2	M7	THE-106	SINK	HOT	21-Dec	PASS			
H	2	M7	THE-106	SINK	COLD	21-Dec	PASS			
H	2	M7	THE-091	SINK	HOT	21-Dec	PASS			
H	2	M7	THE-091	SINK	COLD	21-Dec	FAIL		18/01/2015	PASS
H	2	M7	THE-079	MIXER TAP	MIXED	21-Dec	PASS			
H	2	M7	THE-060	MIXER TAP	MIXED	21-Dec	PASS			
H	4	T5	RENW-156	MIXER TAP	MIXED	21-Dec	PASS			
H	4	T5	RENW-153	MIXER TAP	MIXED	21-Dec	PASS			
H	4	T5	RENW-127	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	4	T5	RENW-188	HORNE	MIXED	21-Dec	PASS			
H	5	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	5	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	5	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	6	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	6	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	6	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	7	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	7	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	7	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	8	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	8	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	8	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	9	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	9	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	FAIL		25/01/2015	PASS
H	9	T5	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	10	T5	GENWD-028	HORNE	MIXED	21-Dec	PASS			
H	10	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	10	T5	GENWD-065	HORNE	MIXED	21-Dec	PASS			
H	11	T5	GENWD-028	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	11	T5	GENWD-034	MIXER TAP	MIXED	21-Dec	PASS			
H	11	T5	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
H	11	T5	GENWD-036	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
E	4	T4	HOW-030	MIXER TAP	MIXED	21-Dec	PASS			
E	4	T4	HOW-064	HORNE	MIXED	21-Dec	PASS			
E	4	T4	RENW-193	HORNE	MIXED	21-Dec	PASS			
E	5	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	5	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	5	T4	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	6	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	6	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	6	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	7	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	7	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	7	T4	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	8	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	8	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	8	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	9	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	9	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	FAIL		11/02/2015	PASS
E	9	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	10	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	10	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	10	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS			
E	11	T4	GENWD-032	MIXER TAP	MIXED	21-Dec	PASS			
E	11	T4	GENWD-036	MIXER TAP	MIXED	21-Dec	PASS			
E	11	T4	GENWD-065	HORNE	MIXED	21-Dec	FAIL		11/02/2015	PASS

E	11	T4	GENWD-065	HORNE	MIXED	21-Dec	PASS	LEGIONELLA		
K	4	T5	HOW-064	HORNE	MIXED	21-Dec	PASS			
K	4	T5	WS4-014	SINK	HOT	21-Dec	PASS			
K	4	T5	WS4-014	SINK	COLD	21-Dec	PASS			
K	4	T5	WS4-004	MIXER TAP	MIXED	21-Dec	PASS			
K	5	T5	WS5-027	SINK	HOT	21-Dec	PASS			
K	5	T5	WS5-027	SINK	COLD	21-Dec	PASS			
K	6	T5	WS6-027	SINK	HOT	21-Dec	PASS			
K	6	T5	WS6-027	SINK	COLD	21-Dec	PASS			
K	8	T5	WS8-018	SINK	HOT	21-Dec	PASS			
K	8	T5	WS8-018	SINK	COLD	21-Dec	PASS			
K	9	T5	WS9-027	SINK	HOT	21-Dec	PASS			
K	9	T5	WS9-027	SINK	COLD	21-Dec	PASS			
K	10	T5	WS10-018	SINK	HOT	21-Dec	PASS			
K	10	T5	WS10-018	SINK	COLD	21-Dec	PASS			
K	11	T5	WS11-018	SINK	HOT	21-Dec	PASS			
K	11	T5	WS11-018	SINK	COLD	21-Dec	PASS			

 H&V COMMISSIONING LAB SAMPLE TRACKER 										
PLANTROOM 32				DATE STERILISED		20/12/2014		Carried out by	GW/BG/TW/CD	
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
F	4	T12	RENW-024	MIXER TAP	MIXED	22-Dec	PASS			
F	4	T12	RENW-027	MIXER TAP	MIXED	22-Dec	PASS			
F	4	T12	RENW-055	HORNE	MIXED	22-Dec	PASS	Legionella		
F	5	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	5	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	5	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	5	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	6	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	6	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	6	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	7	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	7	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	7	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	7	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	7	T12	GENWD-065	HORNE TAP	MIXED	23-Dec	PASS	LEGIONELLA		
F	8	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	8	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	8	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	8	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			
F	9	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	9	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	9	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	9	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	PASS			

F	10	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	10	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	10	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	10	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
F	10	T12	GENWD-066	SINK	HOT	22-Dec	PASS			
F	10	T12	GENWD-066	SINK	COLD	22-Dec	PASS			
F	11	T12	GENWD-001	HORNE TAP	MIXED	22-Dec	PASS			
F	11	T12	GENWD-029	MIXER TAP	MIXED	22-Dec	PASS			
F	11	T12	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
F	11	T12	GENWD-065	HORNE TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
K	4	T12	WS4-017	MIXER TAP	MIXED	22-Dec	PASS			
K	5	T12	WS5-004	MIXER TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
K	5	T12	WS5-021	MIXER TAP	MIXED	22-Dec	PASS			
K	6	T12	WS6-005	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	PASS
K	6	T12	WS6-019	MIXER TAP	MIXED	22-Dec	PASS			
K	7	T12	WS7-005	MIXER TAP	MIXED	22-Dec	PASS			
K	8	T12	WS8-005	MIXER TAP	MIXED	22-Dec	FAIL		25/01/2015	PASS
K	8	T12	WS8-021	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T12	WS9-005	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T12	WS9-021	MIXER TAP	MIXED	22-Dec	FAIL		18/01/2015	PASS
K	10	T12	WS10-005	MIXER TAP	MIXED	22-Dec	PASS			
K	10	T12	WS10-026	MIXER TAP	MIXED	22-Dec	PASS			
K	11	T12	WS11-005	MIXER TAP	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	11	T12	WS11-021	MIXER TAP	MIXED	22-Dec	PASS			



H&V COMMISSIONING LAB SAMPLE TRACKER



PLANTROOM 33				DATE STERILISED		20/12/2014		Carried out by	GW/BG/TW/CD	
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS	Resample Date	Re Sample Results
J	4	T13	RENW-094	MIXER TAP	MIXED	22-Dec	PASS			
J	4	T13	RENW-124	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	5	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS	LEGIONELLA		
J	5	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	5	T13	GENWD-066	SINK	HOT	22-Dec	PASS			
J	5	T13	GENWD-066	SINK	COLD	22-Dec	PASS			
J	6	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	6	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	6	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	7	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	7	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-028	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	8	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	8	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	8	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	9	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			

J	9	T13	GENWD-057	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	9	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-001	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	10	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	10	T13	GENWD-057	HORNE	MIXED	22-Dec	PASS			
J	10	T13	GENWD-065	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-001	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-028	HORNE	MIXED	22-Dec	PASS			
J	11	T13	GENWD-034	MIXER TAP	MIXED	22-Dec	PASS			
J	11	T13	GENWD-057	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
J	11	T13	GENWD-065	HORNE	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	4	T13	WS4-009	MIXER TAP	MIXED	22-Dec	PASS			
K	5	T13	WS5-011	MIXER TAP	MIXED	22-Dec	PASS			
K	6	T13	WS6-011	MIXER TAP	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	7	T13	WS7-011	MIXER TAP	MIXED	22-Dec	PASS			
K	8	T13	WS8-011	MIXER TAP	MIXED	22-Dec	PASS			
K	9	T13	WS9-011	MIXER TAP	MIXED	22-Dec	PASS			
K	10	T13	WS10-011	MIXER TAP	MIXED	22-Dec	FAIL		11/02/2015	PASS
K	11	T13	WS11-011	MIXER TAP	MIXED	22-Dec	PASS			



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Ayrshire
KA4 8HH

Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(65)
Certificate ID: 909545
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558615

Sample : 31E L5 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	44	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Ayrshire
KA4 8HH

Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(66)
Certificate ID: 909546
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558616

Sample : 31E L5 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	280	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(67)
Certificate ID: 909547
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558617

Sample : 31E L6 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	80	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(68)
Certificate ID: 909548
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558618

Sample : 31E L6 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~460	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(69)
Certificate ID: 909549
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558619

Sample : 31E L6 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	96	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	160	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(70)
Certificate ID: 909550
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558620

Sample : 31K WS9-027 L9 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(71)
Certificate ID: 909551
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558621

Sample : 31K WS10-018 L10 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(72)
Certificate ID: 909552
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558622

Sample : 31K WS10-018 L10 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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KA4 8HH

Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(73)
Certificate ID: 909553
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558623

Sample : 31E L10 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	216	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	96	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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Ayrshire
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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(74)
Certificate ID: 909554
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558624

Sample : 31K WS5-027 HOT L5

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(75)
Certificate ID: 909555
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558625

Sample : 31K WS5-027 COLD L5

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(76)
Certificate ID: 909556
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558626

Sample : 31K WS6-027 HOT L6

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	52	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	124	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(77)
Certificate ID: 909557
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558627

Sample : 31K WS6-027 COLD L6

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(78)
Certificate ID: 909558
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558628

Sample : 31K WS8-018 HOT L8

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(79)
Certificate ID: 909559
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558629

Sample : 31K WS8-018 COLD L8

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(80)
Certificate ID: 909560
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558630

Sample : 31K WS9-027 HOT L9

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(81)
Certificate ID: 909561
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558631

Sample : 31E L8 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	68	cfu/ml

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(82)
Certificate ID: 909562
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558632

Sample : 31E L8 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	192	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	248	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(83)
Certificate ID: 909563
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558633

Sample : 31E L8 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	128	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286243-31/12/2014 09:45:17
(84)
Certificate ID: 909564
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558634

Sample : 31E L9 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	144	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	40	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(85)
Certificate ID: 909565
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558635

Sample : 31E L9 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2300	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1900	cfu/ml

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(86)
Certificate ID: 909566
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558636

Sample : 31E L9 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	168	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	224	cfu/ml

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(87)
Certificate ID: 909567
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558637

Sample : 31E L10 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(88)
Certificate ID: 909568
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558638

Sample : 31E L10 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	216	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	140	cfu/ml

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(89)
Certificate ID: 909569
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558639

Sample : 31H L5 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	48	cfu/ml

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(90)
Certificate ID: 909570
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558640

Sample : 31H L5 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	68	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:17
(91)
Certificate ID: 909571
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558641

Sample : 31H L5 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	14	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(92)
Certificate ID: 909572
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558642

Sample : 31H L6 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	108	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	156	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:17
(93)
Certificate ID: 909573
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558643

Sample : 31H L6 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	64	cfu/ml

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(94)
Certificate ID: 909574
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558644

Sample : 31H L6 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:17
(95)
Certificate ID: 909575
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558645

Sample : 31H L8 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	264	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	240	cfu/ml

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(96)
Certificate ID: 909576
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558646

Sample : 31H L8 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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(97)
Certificate ID: 909577
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558647

Sample : 31H L8 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	168	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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(98)
Certificate ID: 909578
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558648

Sample : 31H L9 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	250	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	112	cfu/ml

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(99)
Certificate ID: 909579
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558649

Sample : 31H L9 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1200	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:17
(100)
Certificate ID: 909580
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558650

Sample : 31H L9 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2000	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1900	cfu/ml

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(101)
Certificate ID: 909581
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558651

Sample : 31H L10 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	232	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	296	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(102)
Certificate ID: 909582
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558652

Sample : 31H L10 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(103)
Certificate ID: 909583
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558653

Sample : 31H L10 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	256	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	296	cfu/ml

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 Certificate ID: 914992
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558884

Sample : 31K WS4-014 HOT

Details : NSGH

Method Ref	Determination	LOD	Result	Units
BP50.15	Escherichia coli		0	cfu/100ml
BP50.15	Total Coliforms		0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)		0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)		0	cfu/ml

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Certificate ID: 914993
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558885

Sample : 31K WS4-014 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

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 Certificate ID: 914994
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558886

Sample : 31K WS4-004 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37 (4)
Certificate ID: 914995
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558887

Sample : 31K WS11-018 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37 (5)
Certificate ID: 914996
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558888

Sample : 31K WS11-018 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	8	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37 (6)
Certificate ID: 914997
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558889

Sample : 31K L4 HOW-064 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	14	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37 (7)
Certificate ID: 914998
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558890

Sample : 31H L0 AAW-156 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	176	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	106	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37 (8)
Certificate ID: 914999
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558891

Sample : 31H L0 AAW-173 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Test Date : 22-Dec-14
 Certificate Ref: 286300-00/01/2015 13:59:37 (9)
 Certificate ID: 915000
 Order Number: 1609/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 3
 Laboratory Reference: HVC_GLS[BH]1558892

Sample : 31H L0 AAW- 038 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(10)
Certificate ID: 915001
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558893

Sample : 31H L0 AAW- 045 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286300-00/01/2015 13:59:37
(11)
Certificate ID: 915002
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558894

Sample : 31H L0 AAW- 060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(12)
Certificate ID: 915003
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558895

Sample : 31H L0 AAW-088 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(13)
Certificate ID: 915004
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558896

Sample : 31H L0 AAW-096 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(14)
Certificate ID: 915005
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558897

Sample : 31H L0 AAW- 108 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(55)
Certificate ID: 915046
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558938
Legionella Process Date: 23/12/2014

Sample : 31H L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(56)
Certificate ID: 915047
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558939

Sample : 31E L4 HOW-030 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	40	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	26	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(57)
Certificate ID: 915048
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558940

Sample : 31E L4 HOW-064 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	12	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(58)
Certificate ID: 915049
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558941

Sample : 31E L4 RENW-193 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	248	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	110	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(59)
Certificate ID: 915050
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558942

Sample : 31E L7 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	13	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	18	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(60)
Certificate ID: 915051
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558943

Sample : 31E L7 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	11	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(61)
Certificate ID: 915052
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558944

Sample : 31E L7 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~440	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~680	cfu/ml

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Sample Date: 22-Dec-14
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Certificate Ref: 286300-00/01/2015 13:59:37
(62)
Certificate ID: 915053
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558945

Sample : 31E L11 GENWD-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	60	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	12	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(63)
Certificate ID: 915054
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558946

Sample : 31E L11 GENWD-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	33	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	104	cfu/ml

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Certificate Ref: 286300-00/01/2015 13:59:37
(64)
Certificate ID: 915055
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558947

Sample : 31E L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~320	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~400	cfu/ml

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(65)
Certificate ID: 915056
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558948

Sample : 31H L4 RENW-106 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	40	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	37	cfu/ml

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Certificate Ref: 286300-00/01/2015 13:59:37
(66)
Certificate ID: 915057
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558949

Sample : 31H L4 RENW-103 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	8	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	21	cfu/ml

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(67)
Certificate ID: 915058
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558950

Sample : 31H L4 RENW-127 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~400	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	260	cfu/ml

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(68)
Certificate ID: 915059
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558951

Sample : 31H L4 RENW-188 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	296	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	92	cfu/ml

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(69)
Certificate ID: 915060
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558952

Sample : 31H L7 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	164	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	206	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(70)
Certificate ID: 915061
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558953

Sample : 31H L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	140	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	240	cfu/ml

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Certificate Ref: 286300-00/01/2015 13:59:37
(71)
Certificate ID: 915062
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558954

Sample : 31H L7 GENWD- 065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	116	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	84	cfu/ml

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(72)
Certificate ID: 915063
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558955

Sample : 31H L11 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~320	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~400	cfu/ml

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(73)
Certificate ID: 915064
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558956

Sample : 31H L11 GENW- 034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	29	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	72	cfu/ml

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(74)
Certificate ID: 915065
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558957

Sample : 31H L11 GENW-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~300	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	206	cfu/ml

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(75)
Certificate ID: 915066
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558958

Sample : 31H L0 AAW-032 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	208	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	118	cfu/ml

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(76)
Certificate ID: 915067
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558959

Sample : 31H L0 AAW-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(77)
Certificate ID: 915068
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558960

Sample : 31H L0 AAW-125 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(78)
Certificate ID: 915069
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558961

Sample : 31H L0 AAW-125 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(79)
Certificate ID: 915070
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558962

Sample : 31H L0 AAW-247 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(80)
Certificate ID: 915071
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558963

Sample : 31H L0 AAW-247 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	64	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	216	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 23-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(81)
Certificate ID: 915072
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558964
Legionella Process Date: 23/12/2014

Sample : 31H L0 AAW-007 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(82)
Certificate ID: 915073
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558965

Sample : 31H L0 AAW-007 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	176	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286300-00/01/2015 13:59:37
(83)
Certificate ID: 915074
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558966

Sample : 31H L0 AAW-017 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	120	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(84)
Certificate ID: 915075
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558967

Sample : 31H L0 AAW-156 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(85)
Certificate ID: 915076
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558968

Sample : 31H L2 THE-/ 44 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP0/ .10	Escherichia coli	/	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	40	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	27	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(86)
Certificate ID: 915077
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558969

Sample : 31H L2 THE-/ 26 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP0/ .10	Escherichia coli	/	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	13	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(87)
Certificate ID: 915078
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558970

Sample : 31H L2 THE-/ 33 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP0/ .10	Escherichia coli	/	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	27	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	48	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 23-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(88)
Certificate ID: 915079
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558971
Legionella Process Date: 23/12/2014

Sample : 31H L2 THE-105 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(89)
Certificate ID: 915080
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558972

Sample : 31H L2 THE-105 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	20	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(90)
Certificate ID: 915081
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558973

Sample : 31H L2 THE-106 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286300-00/01/2015 13:59:37
(91)
Certificate ID: 915082
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558974

Sample : 31H L2 THE-106 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286300-00/01/2015 13:59:37
(92)
Certificate ID: 915083
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558975

Sample : 31H L2 THE-/ 91 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286300-00/01/2015 13:59:37
(93)
Certificate ID: 915084
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558976

Sample : 31H L2 THE-/ 91 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.10	Total Coliforms	0	cfu/100ml
BP50.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~310	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(94)
Certificate ID: 915085
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558977

Sample : 31H L2 THE-/ 79 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.15	Total Coliforms	0	cfu/100ml
BP00.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP00.5	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(95)
Certificate ID: 915086
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558978

Sample : 31H L1 STW-014 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	29	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	40	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(96)
Certificate ID: 915087
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558979

Sample : 31H L1 STW-082 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(97)
Certificate ID: 915088
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558980

Sample : 31H L1 STW-036 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	52	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	104	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(98)
Certificate ID: 915089
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558981

Sample : 31H L1 STW-047 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	144	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	124	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(99)
Certificate ID: 915090
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558982

Sample : 31H L1 STW-072 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	37	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	64	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(100)
Certificate ID: 915091
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558983

Sample : 31H L1 MDU-048 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	1	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(101)
Certificate ID: 915092
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558984

Sample : 31H L1 MDU-046 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	28	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(102)
Certificate ID: 915093
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558985

Sample : 31H L1 MDU-046 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.0	TVC (3 Days @ 22°C)	34	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(103)
Certificate ID: 915094
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558986

Sample : 31H L1 MDU-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286305-05/01/2015 13:59:37
(104)
Certificate ID: 915095
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558987
Legionella Process Date: 23/12/2014

Sample : 31H L1 L1 MDU-020 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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Certificate Ref: 286243-31/12/2014 09:45:16
(33)
Certificate ID: 909513
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558583

Sample : 32K L5 WS5-004 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~780	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(34)
Certificate ID: 909514
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558584

Sample : 32K L5 WS5-021 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	128	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	27	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(35)
Certificate ID: 909515
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558585

Sample : 32K L6 WS6-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~620	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~680	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(36)
Certificate ID: 909516
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558586

Sample : 32K L6 WS6-019 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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(37)
Certificate ID: 909517
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558587

Sample : 32K L8 WS8-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~520	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(38)
Certificate ID: 909518
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558588

Sample : 32K L8 WS8-021 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	72	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	216	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(39)
Certificate ID: 909519
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558589

Sample : 32K L9 WS9-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(40)
Certificate ID: 909520
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558590

Sample : 32K L9 WS9-021 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2000	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1400	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:16
(41)
Certificate ID: 909521
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558591

Sample : 32K L10 WS10-005 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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(42)
Certificate ID: 909522
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558592

Sample : 32K L10 WS10-026 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	72	cfu/ml

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(43)
Certificate ID: 909523
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558593

Sample : 32F L5 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	156	cfu/ml

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(44)
Certificate ID: 909524
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558594

Sample : 32F L5 GENWD-029 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	17	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	32	cfu/ml

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(45)
Certificate ID: 909525
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558595

Sample : 32F L5 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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(46)
Certificate ID: 909526
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558596

Sample : 32F L5 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	56	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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(47)
Certificate ID: 909527
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558597

Sample : 32F L6 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	76	cfu/ml

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(48)
Certificate ID: 909528
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558598

Sample : 32F L6 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1200	cfu/ml

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Certificate ID: 909529
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558599

Sample : 32F L6 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	216	cfu/ml

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(50)
Certificate ID: 909530
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558600

Sample : 32F L8 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2100	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2200	cfu/ml

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(51)
Certificate ID: 909531
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558601

Sample : 32F L8 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	11	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	8	cfu/ml

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(52)
Certificate ID: 909532
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558602

Sample : 32F L8 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(53)
Certificate ID: 909533
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558603

Sample : 32F L8 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	232	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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Sample Date: 21-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(54)
Certificate ID: 909534
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558604

Sample : 32F L9 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2000	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~940	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(55)
Certificate ID: 909535
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558605

Sample : 32F L9 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	80	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	200	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(56)
Certificate ID: 909536
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558606

Sample : 32F L9 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~330	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286243-31/12/2014 09:45:16
(57)
Certificate ID: 909537
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558607

Sample : 32F L9 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	20	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(58)
Certificate ID: 909538
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558608

Sample : 32F L10 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	152	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(59)
Certificate ID: 909539
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558609

Sample : 32F L10 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	68	cfu/ml

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(60)
Certificate ID: 909540
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558610

Sample : 32F L10 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	52	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	24	cfu/ml

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(61)
Certificate ID: 909541
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558611

Sample : 32F L10 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~560	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~420	cfu/ml

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Certificate Ref: 286243-31/12/2014 09:45:16
(62)
Certificate ID: 909542
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558612

Sample : 32F L10 GENWD-066 HOT

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(63)
Certificate ID: 909543
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558613

Sample : 32F L10 GENWD-066 COLD

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	5	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	20	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(38)
Certificate ID: 915029
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558921

Sample : 32F L11 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	33	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	18	cfu/ml

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(39)
Certificate ID: 915030
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558922

Sample : 32F L11 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	11	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	60	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(40)
Certificate ID: 915031
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558923

Sample : 32F L11 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	60	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	40	cfu/ml

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(41)
Certificate ID: 915032
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558924

Sample : 32F L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~2800	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~3100	cfu/ml

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(42)
Certificate ID: 915033
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558925

Sample : 32K L11 WSL11-005 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	112	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~380	cfu/ml

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(43)
Certificate ID: 915034
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558926

Sample : 32K L11 WS11-021 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	100	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	128	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(44)
Certificate ID: 915035
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558927

Sample : 32K L7 WS7-005 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	18	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Sample Date: 22-Dec-14
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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(45)
Certificate ID: 915036
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558928

Sample : 32K L4 WS4-017 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(46)
Certificate ID: 915037
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558929

Sample : 32F L4 RENW-005 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	116	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~460	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(47)
Certificate ID: 915038
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558930

Sample : 32F L4 RENW-024 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	2	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	8	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(48)
Certificate ID: 915039
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558931

Sample : 32F L4 RENW-027 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	29	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	3	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(49)
Certificate ID: 915040
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558932

Sample : 32F L4 RENW-055 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	27	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	176	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(50)
Certificate ID: 915041
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558933

Sample : 32F L7 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~320	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~1600	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286305-05/01/2015 13:59:37
(51)
Certificate ID: 915042
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558934

Sample : 32F L7 GENWD-029 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	~(00	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	~070	cfu/ml

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Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(52)
Certificate ID: 915043
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558935

Sample : 32F L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	0	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	11	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(53)
Certificate ID: 915044
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558936

Sample : 32F L7 GENW-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP00.10	Escherichia coli	0	cfu/100ml
BP00.10	Total Coliforms	0	cfu/100ml
BP00.0	TVC (2 Days @ 37°C)	60	cfu/ml
BP00.0	TVC (3 Days @ 22°C)	80	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Test Date : 23-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(54)
Certificate ID: 915045
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558937
Legionella Process Date: 23/12/2014

Sample : 32F L4 RENW-005 MIX

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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 Test Date : 22-Dec-14
 Certificate Ref: 286243-31/12/2014 09:45:16 (1)
 Certificate ID: 909481
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558550

Sample : 33J L6 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	56	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	44	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16 (2)
 Certificate ID: 909482
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558551

Sample : 33J L6 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	7	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16 (3)
Certificate ID: 909483
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558552

Sample : 33J L6 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	240	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	46	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16 (4)
Certificate ID: 909484
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558553

Sample : 33J L8 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	22	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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 Certificate Ref: 286243-31/12/2014 09:45:16 (5)
 Certificate ID: 909485
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558554

Sample : 33J L8 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	296	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~420	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

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Certificate Ref: 286243-31/12/2014 09:45:16 (6)
Certificate ID: 909486
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558555

Sample : 33J L8 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	144	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16 (7)
 Certificate ID: 909487
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558556

Sample : 33J L8 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16 (8)
 Certificate ID: 909488
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558557

Sample : 33J L8 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	288	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	264	cfu/ml

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 Certificate Ref: 286243-31/12/2014 09:45:16 (9)
 Certificate ID: 909489
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558558

Sample : 33J L9 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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 (10)
 Certificate ID: 909490
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558559

Sample : 33J L9 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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 Certificate ID: 909491
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558560

Sample : 33K L5 WS5-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	12	cfu/ml

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(12)
Certificate ID: 909492
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558561

Sample : 33K L6 WS6-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	32	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~680	cfu/ml

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(13)
Certificate ID: 909493
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558562

Sample : 33K L8 WS8-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(14)
Certificate ID: 909494
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558563

Sample : 33K L9 WS9-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	68	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	170	cfu/ml

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(15)
Certificate ID: 909495
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558564

Sample : 33K L10 WS10-011 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2200	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2600	cfu/ml

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 (16)
 Certificate ID: 909496
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558565

Sample : 33J L5 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(17)
Certificate ID: 909497
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558566

Sample : 33J L5 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	28	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Certificate ID: 909498
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558567

Sample : 33J L5 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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Certificate ID: 909499
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SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558569

Sample : 33J L5 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	10	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 909500
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SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558570

Sample : 33J L5 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	26	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 909501
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558571

Sample : 33J L5 GENWD-066 HOT

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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 Certificate ID: 909502
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558572

Sample : 33J L5 GENWD-066 COLD

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 22-Dec-14
Certificate Ref: 286243-31/12/2014 09:45:16
(23)
Certificate ID: 909503
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558573

Sample : 33J L6 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	272	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	219	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(24)
Certificate ID: 909504
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558574

Sample : 33J L6 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(25)
Certificate ID: 909505
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558575

Sample : 33J L9 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	120	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(26)
Certificate ID: 909506
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558576

Sample : 33J L9 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~2500	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~1400	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(27)
Certificate ID: 909507
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558577

Sample : 33J L9 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	192	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	232	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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Certificate Ref: 286243-31/12/2014 09:45:16
(28)
Certificate ID: 909508
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558578

Sample : 33J L10 GENWD-001 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~540	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~470	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 (29)
 Certificate ID: 909509
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558579

Sample : 33J L10 GENWD-028 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	100	cfu/ml

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(30)
Certificate ID: 909510
Order Number: 1608/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 1
Laboratory Reference: HVC_GLS[BH]1558580

Sample : 33J L10 GENWD-034 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	92	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	30	cfu/ml

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Date: 29-Dec-14

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 (31)
 Certificate ID: 909511
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558581

Sample : 33J L10 GENWD-057 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	148	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286243-31/12/2014 09:45:16
 (32)
 Certificate ID: 909512
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 1
 Laboratory Reference: HVC_GLS[BH]1558582

Sample : 33J L10 GENWD-065 MIX

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	15	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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 Certificate Ref: 286251-05/01/2015 13:59:37 (1)
 Certificate ID: 914991
 Order Number: 1608/RM/WS/5902
 SDG Reference: HVC_GLS 22-12-14 2
 Laboratory Reference: HVC_GLS[BH]1558694
 Legionella Process Date: 22/12/2014

Sample : 33J L5 GENWD-057 MIX

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	N/A	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		700	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 05-Jan-15

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(15)
Certificate ID: 915006
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558898

Sample : 33J L11 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	140	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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(16)
Certificate ID: 915007
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558899

Sample : 33J L11 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	64	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	29	cfu/ml

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(17)
Certificate ID: 915008
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558900

Sample : 33J L11 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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(18)
Certificate ID: 915009
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558901

Sample : 33J L11 GENWD-057 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~340	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~570	cfu/ml

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(19)
Certificate ID: 915010
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558902

Sample : 33J L11 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~1600	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~2100	cfu/ml

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(20)
Certificate ID: 915011
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558903

Sample : 33K L4 WSG-009 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	3	cfu/ml

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Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(21)
Certificate ID: 915012
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558904

Sample : 33K L7 WS7-011 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

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(22)
Certificate ID: 915013
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558905

Sample : 33K L11 WS11-011 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	104	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	72	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(23)
Certificate ID: 915014
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558906

Sample : 31H L1 MDU-020 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(24)
Certificate ID: 915015
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558907

Sample : 31H L1 POA-019 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	36	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	36	cfu/ml

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(25)
Certificate ID: 915016
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558908

Sample : 31H L1 POA-019 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	108	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	64	cfu/ml

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(26)
Certificate ID: 915017
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558909

Sample : 31H L1 POA-015 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	4	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(27)
Certificate ID: 915018
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558910

Sample : 31H L1 MDU-012 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~350	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	208	cfu/ml

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(28)
Certificate ID: 915019
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558911

Sample : 31H L1 TH6-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	88	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	184	cfu/ml

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(29)
Certificate ID: 915020
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558912

Sample : 33J L4 RENW-060 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	48	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	56	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(30)
Certificate ID: 915021
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558913

Sample : 33J L4 RENW-091 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	~800	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	~310	cfu/ml

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Certificate Ref: 286305-05/01/2015 13:59:37
(31)
Certificate ID: 915022
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558914

Sample : 33J L4 RENW-094 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	24	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	6	cfu/ml

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(32)
Certificate ID: 915023
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558915

Sample : 33J L4 RENW-124 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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(33)
Certificate ID: 915024
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558916

Sample : 33J L7 GENWD-001 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	60	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	32	cfu/ml

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(34)
Certificate ID: 915025
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558917

Sample : 33J L7 GENWD-028 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	44	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	11	cfu/ml

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(35)
Certificate ID: 915026
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558918

Sample : 33J L7 GENWD-034 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(36)
Certificate ID: 915027
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558919

Sample : 33J L7 GENWD-057 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	136	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	84	cfu/ml

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Ayrshire
KA4 8HH

Sample Date: 22-Dec-14
Received Date: 22-Dec-14
Test Date : 22-Dec-14
Certificate Ref: 286305-05/01/2015 13:59:37
(37)
Certificate ID: 915028
Order Number: 1609/RM/WS/5902
SDG Reference: HVC_GLS 22-12-14 3
Laboratory Reference: HVC_GLS[BH]1558920

Sample : 33J L7 GENWD-065 MIX

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 29-Dec-14

Page 1 of 1

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ALcontrol Laboratories, 2 Mallard Way, Strathclyde Business Park, Bellshill, Scotland, ML4 3BF Tel: (01698) 845599 Fax: (01698) 845520

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A53912406



Certificate of Analysis

H&V Commissioning Services Ltd
Kilknowe Office
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Glaston
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KA4 8HH

Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (1)
Certificate ID: 937119
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606189

Sample : ZHL4 T5 RENW-127 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	7	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (2)
Certificate ID: 937120
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606190

Sample : ZHL9 T5 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (3)
Certificate ID: 937121
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606191

Sample : ZHL11 T5 GENWO-028 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (4)
Certificate ID: 937122
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606192

Sample : ZHL11 T5 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (5)
Certificate ID: 937123
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606193

Sample : ZEL5 T4 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (6)
Certificate ID: 937124
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606194

Sample : ZEL6 T4 GENWO-036 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (7)
Certificate ID: 937125
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606195

Sample : ZEL7 T4 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	12	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (8)
Certificate ID: 937126
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606196

Sample : ZEL9 T4 GENWO-036 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27 (9)
Certificate ID: 937127
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606197

Sample : ZEL11 T4 GENWO-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	84	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(10)
Certificate ID: 937128
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606198

Sample : ZKL11 T12 WS11-005 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(13)
Certificate ID: 937131
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606201

Sample : ZJL8 T13 GENWD-028 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(14)
Certificate ID: 937132
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606202

Sample : ZJL9 T13 GENWD-057 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	9	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(15)
Certificate ID: 937133
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606203

Sample : ZJL10 T13 GENWD-001 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	107	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(16)
Certificate ID: 937134
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606204

Sample : ZJL11 T13 GENWD-057 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(17)
Certificate ID: 937135
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606205

Sample : ZJL11 T13 GENWD-065 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(18)
Certificate ID: 937136
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606206

Sample : ZKL6 T13 WS6-011 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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Sample Date: 11-Feb-15
Received Date: 11-Feb-15
Test Date : 11-Feb-15
Certificate Ref: 295162-16/02/2015 12:36:27
(19)
Certificate ID: 937137
Order Number: 1630/CD/WT/5902
SDG Reference: HVC_GLS 11-02-15 2
Laboratory Reference: HVC_GLS[BH]1606207

Sample : ZKL10 WS10-011 MWS

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 16-Feb-15

Page 1 of 1

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H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 901



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 41 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 4 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinel outlet and then sent to the lab for microbiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Jan-15

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk

H&V COMMISSIONING LAB SAMPLE TRACKER									
PLANTROOM 41				DATE STERILISED		20/01/2015	Carried out by	GW/BG/TW/CD	
A	0	M18	OBW-020	MIXER TAP	MIXED	21-Jan			
A	0	M18	OBW-061	HORNE TAP	MIXED	21-Jan			
A	0	M18	EMC-018	HORNE TAP	MIXED	21-Jan			
A	0	M18	CPS-003	HORNE TAP	MIXED	21-Jan			
A	0	M18	CPS-006	MIXER TAP	MIXED	21-Jan			
B	0	M18	OPD-103	MIXER TAP	MIXED	21-Jan			
B	0	M18	OPD-120	MIXER TAP	MIXED	21-Jan			
B	0	M18	OPD-125	MIXER TAP	MIXED	21-Jan			
B	0	M18	OPD-175	HORNE TAP	MIXED	21-Jan			
B	0	M38	OPD-073	HORNE TAP	MIXED	21-Jan			
B	0	M38	OPD-088	MIXER TAP	MIXED	21-Jan			
B	0	M39	OPD-060	MIXER TAP	MIXED	21-Jan			
B	0	M39	OPD-075	MIXER TAP	MIXED	21-Jan			
C	0	M18	ENT-014	HORNE TAP	MIXED	21-Jan			
C	0	M18	ENT-036	HORNE TAP	MIXED	21-Jan			
C	0	M18	ENT-047	MIXER TAP	MIXED	21-Jan			
C	0	M39	OPD-009	MIXER TAP	MIXED	21-Jan			
C	0	M39	OPD-026	HORNE TAP	MIXED	21-Jan			
A	1	M38	CCW-096	HORNE TAP	MIXED	21-Jan			
A	1	M38	CCW-118	HORNE TAP	MIXED	21-Jan			
A	1	M18	CCW-082	HORNE TAP	MIXED	21-Jan			
A	1	M18	CCW-082	HORNE TAP	MIXED	21-Jan			
A	1	M18	CCW-084	HORNE TAP	MIXED	21-Jan			
A	1	M18	CCW-092	HORNE TAP	MIXED	21-Jan			
B	1	M36	CAR-036	HORNE TAP	MIXED	21-Jan			
B	1	M36	SPF-007	HORNE TAP	MIXED	21-Jan			
B	1	M38	CCW-014	HORNE TAP	MIXED	21-Jan			
B	1	M38	CCW-025	MIXER TAP	MIXED	21-Jan			
B	1	M39	CCW-021	MIXER TAP	MIXED	21-Jan			
B	1	M39	MDU-008	HORNE TAP	MIXED	21-Jan			
C	1	M36	23HU-008	MIXER TAP	MIXED	21-Jan			
C	1	M36	23HU-042	MIXER TAP	MIXED	21-Jan			
C	1	M36	23HU-051	MIXER TAP	MIXED	21-Jan			
C	1	M39	THE-009	MIXER TAP	MIXED	21-Jan			
C	1	M39	THE-014	HORNE TAP	MIXED	21-Jan			
C	1	M39	THE-025	MIXER TAP	MIXED	21-Jan			
A	2	M18	ARU-001	MIXER TAP	MIXED	21-Jan	Pass		
A	2	M18	ARU-016	MIXER TAP	MIXED	21-Jan			
A	2	M18	ARU-046	HORNE TAP	MIXED	21-Jan			
A	2	M18	ARU-085	HORNE TAP	MIXED	21-Jan	Pass		
B	2	M18	AFD-022	MIXER TAP	MIXED	21-Jan			
B	2	M18	ARU-050	HORNE TAP	MIXED	21-Jan			
B	2	M38	ASU-039	MIXER TAP	MIXED	21-Jan	Pass		
B	2	M38	ASU-042	MIXER TAP	MIXED	21-Jan	Pass		
B	2	M36	SCH-092	HORNE TAP	MIXED	21-Jan	Pass		
B	2	M39	DCU-005	MIXER TAP	MIXED	21-Jan	Pass		
B	2	M39	DCU-011	HORNE TAP	MIXED	21-Jan	Pass		
C	2	M36	SCH-022	MIXER TAP	MIXED	21-Jan	Pass		
C	2	M36	SCH-040	MIXER TAP	MIXED	21-Jan	Pass		
C	2	M36	SCH-061	HORNE TAP	MIXED	21-Jan	Pass		
C	2	M39	SCH-023	MIXER TAP	MIXED	21-Jan	Pass		
C	2	M39	SCH-063	HORNE TAP	MIXED	21-Jan	Pass		
C	2	M39	SCH-087	MIXER TAP	MIXED	21-Jan	Pass		
A	3	M18	GW1-002	HORNE TAP	MIXED	21-Jan	Pass		
A	3	M18	GW1-048	MIXER TAP	MIXED	21-Jan	Pass		
B	3	M18	GW5-011	HORNE TAP	MIXED	21-Jan	Pass		
B	3	M18	GW5-014	HORNE TAP	MIXED	21-Jan	Pass		
B	3	M38	GW2-035	HORNE TAP	MIXED	21-Jan	Pass		
B	3	M38	GW2-054	MIXER TAP	MIXED	21-Jan	Pass		
B	3	M39	GW2-025	MIXER TAP	MIXED	21-Jan	Pass		
B	3	M39	GW2-035	HORNE TAP	MIXED	21-Jan			
B	3	M36	GW5-004	HORNE TAP	MIXED	21-Jan	Pass		
B	3	M36	GW5-033	MIXER TAP	MIXED	21-Jan	Pass		
C	3	M39	GW3-001	HORNE TAP	MIXED	21-Jan	Pass		
C	3	M39	GW3-005	MIXED TAP	MIXED	21-Jan	Pass		
C	3	M39	GW3-043	HORNE TAP	MIXED	21-Jan	Pass		
C	4	M39	DCFP-013	MIXER TAP	MIXED	21-Jan	Pass		
C	4	M39	DCFP-044	MIXER TAP	MIXED	21-Jan	Pass		



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Test Date : 20-Jan-15
Certificate Ref: 290614-23/01/2015 14:40:55 (1)
Certificate ID: 923705
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581974

Sample : ZAL2 ARU-001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55 (2)
Certificate ID: 923706
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581975

Sample : ZAL2 ARU-003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55 (3)
Certificate ID: 923707
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581976

Sample : ZAL2 ARU-047

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55 (4)
Certificate ID: 923708
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581977

Sample : ZAL2 ARU-085

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 923709
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581978

Sample : ZAL2 ARD-022

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55 (6)
Certificate ID: 923710
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581979

Sample : ZAL2 ARU-050

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	34	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	33	cfu/ml

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Certificate ID: 923711
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581980

Sample : ZAL2 ASU-039

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 923712
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581981

Sample : ZAL2 ASU-042

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55 (9)
Certificate ID: 923713
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581982

Sample : ZAL2 SCU-092

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(10)
Certificate ID: 923714
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581983

Sample : ZAL2 DCU-005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(11)
Certificate ID: 923715
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581984

Sample : ZAL3 GWI-002

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	180	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(12)
Certificate ID: 923716
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581985

Sample : ZAL3 GWI-048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	26	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

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(13)
Certificate ID: 923717
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581986

Sample : ZAL3 GWI-011

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(14)
Certificate ID: 923718
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581987

Sample : ZBL3 GWZ-035

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate ID: 923719
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581988

Sample : ZAL3 GWS-014

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-23/01/2015 14:40:55
(16)
Certificate ID: 923720
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581989

Sample : ZAL3 GWZ-036

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

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Test Date : 20-Jan-15
Certificate Ref: 290614-23/01/2015 14:40:55
(17)
Certificate ID: 923721
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581990

Sample : ZAL3 GWZ-054

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Date: 23-Jan-15

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Test Date : 20-Jan-15
Certificate Ref: 290614-23/01/2015 14:40:55
(18)
Certificate ID: 923722
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581991

Sample : ZAL3 GWZ-025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

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Test Date : 20-Jan-15
Certificate Ref: 290614-23/01/2015 14:40:55
(19)
Certificate ID: 923723
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581992

Sample : ZAL3 GWS-004

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(20)
Certificate ID: 923724
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581993

Sample : ZAL3 GWS-033

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(21)
Certificate ID: 923725
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581994

Sample : 2CL3 GW3-001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(22)
Certificate ID: 923726
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581995

Sample : 2CL3 GW3-005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(23)
Certificate ID: 923727
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581996

Sample : 2CL3 GW3-043

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	52	cfu/ml

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(24)
Certificate ID: 923728
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581997

Sample : ZCL4 DCFP-013

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 20-Jan-15
Certificate Ref: 290614-23/01/2015 14:40:55
(25)
Certificate ID: 923729
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581998

Sample : ZCL4 DCFP-044

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(26)
Certificate ID: 923730
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581999

Sample : ZBL2 DCU-011

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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(27)
Certificate ID: 923731
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582000

Sample : ZCL2 SCU-022

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(28)
Certificate ID: 923732
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582001

Sample : ZCL2 SCU-040

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290614-23/01/2015 14:40:55
(29)
Certificate ID: 923733
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582002

Sample : ZCL2 SCU-061

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

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(30)
Certificate ID: 923734
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582003

Sample : ZCL2 SCU-023

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(31)
Certificate ID: 923735
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582004

Sample : ZCL2 SCU-063

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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(32)
Certificate ID: 923736
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582005

Sample : ZCL2 SCU-087

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

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A53912406

H & V COMMISSIONING WATER TREATMENT SPECIALISTS

Page 935



DOMESTIC WATER SERVICES STERILISATION CERTIFICATE

Project:	NSGH
Client:	Mercury
System:	Plantroom 41 Hot & Cold Domestic Water Services
Engineer:	Gary Weir / Tony Walters / Chris Dougan / Barry Gibb

Sterilisation Conditions

Method Employed	Tank Dose & Draw Through
Contact Time	1 Hour
Sterilisation Agent Used	Sanosil Super 25
PH Range	7.5

Remarks:

Sanosil super 25 was dosed into CWST 4 in the basement tank room.

Sanosil was then drawn through at each outlet at 150PPM.

After being allowed to stand for a period of 1 hour sanosil was flushed from the system.

Samples were then obtained from each sentinel outlet and then sent to the lab for microbiological analysis.

Samples Taken By: Gary Weir / Tony Walters / Barry Gibb & Chris Dougan

Signed on behalf of H & V

gary weir

Date:

Jan-15

**Kilknowe Office
16 Barrmill Road,
Galston KA4 8HH**

TEL: 01563 821991

FAX: 01563 822220

Web: www.handv.co.uk

Email: talk2us@handv.co.uk



PLANTROOM 41				DATE STERILISED		20/01/2015		Carried out by
ZONE	LEVEL	RISER	ROOM REF	SAMPLE POINT	SERVICE	DATE	RESULTS	OTHER REMARKS
A	0	M18	OBW-020	MIXER TAP	MIXED	21-Jan	PASS	
A	0	M18	OBW-061	HORNE TAP	MIXED	21-Jan	PASS	
A	0	M18	EMC-018	HORNE TAP	MIXED	21-Jan	PASS	
A	0	M18	CPS-003	HORNE TAP	MIXED	21-Jan	PASS	
A	0	M18	CPS-006	MIXER TAP	MIXED	21-Jan	PASS	
B	0	M18	OPD-103	MIXER TAP	MIXED	21-Jan	PASS	
B	0	M18	OPD-120	MIXER TAP	MIXED	21-Jan	PASS	
B	0	M18	OPD-125	MIXER TAP	MIXED	21-Jan	PASS	
B	0	M18	OPD-175	HORNE TAP	MIXED	21-Jan	PASS	
B	0	M38	OPD-073	HORNE TAP	MIXED	21-Jan	PASS	
B	0	M38	OPD-088	MIXER TAP	MIXED	21-Jan	PASS	
B	0	M39	OPD-060	MIXER TAP	MIXED	21-Jan	PASS	
B	0	M39	OPD-075	MIXER TAP	MIXED	21-Jan	PASS	
C	0	M18	ENT-014	HORNE TAP	MIXED	21-Jan	PASS	
C	0	M18	ENT-036	HORNE TAP	MIXED	21-Jan	PASS	
C	0	M18	ENT-048	MIXER TAP	MIXED	21-Jan	PASS	
C	0	M39	OPD-009	MIXER TAP	MIXED	21-Jan	PASS	
C	0	M39	OPD-026	HORNE TAP	MIXED	21-Jan	PASS	
A	1	M38	CCW-096	HORNE TAP	MIXED	21-Jan	PASS	
A	1	M38	CCW-118	HORNE TAP	MIXED	21-Jan	PASS	
A	1	M18	CCW-082	HORNE TAP	MIXED	21-Jan	PASS	
A	1	M18	CCW-082	HORNE TAP	MIXED	21-Jan	PASS	
A	1	M18	CCW-084	HORNE TAP	MIXED	21-Jan	PASS	
A	1	M18	CCW-092	HORNE TAP	MIXED	21-Jan	PASS	
B	1	M36	CAR-036	HORNE TAP	MIXED	21-Jan	PASS	Legionella
B	1	M36	CAR-036	HORNE TAP	MIXED	21-Jan	PASS	
B	1	M36	SPF-007	HORNE TAP	MIXED	21-Jan	PASS	
B	1	M38	CCW-014	HORNE TAP	MIXED	21-Jan	PASS	
B	1	M38	CCW-025	MIXER TAP	MIXED	21-Jan	PASS	
B	1	M39	CCW-021	MIXER TAP	MIXED	21-Jan	PASS	
B	1	M39	MDU-008	HORNE TAP	MIXED	21-Jan	PASS	
C	1	M36	23HU-015	MIXER TAP	MIXED	21-Jan	PASS	
C	1	M36	23HU-042	MIXER TAP	MIXED	21-Jan	PASS	
C	1	M36	23HU-051	MIXER TAP	MIXED	21-Jan	PASS	
C	1	M39	THE-009	MIXER TAP	MIXED	21-Jan	PASS	
C	1	M39	THE-014	HORNE TAP	MIXED	21-Jan	PASS	
C	1	M39	THE-025	MIXER TAP	MIXED	21-Jan	PASS	
A	2	M18	ARU-001	MIXER TAP	MIXED	21-Jan	Pass	
A	2	M18	ARU-016	MIXER TAP	MIXED	21-Jan	Pass	
A	2	M18	ARU-046	HORNE TAP	MIXED	21-Jan	Pass	
A	2	M18	ARU-085	HORNE TAP	MIXED	21-Jan	Pass	
B	2	M18	AFD-022	MIXER TAP	MIXED	21-Jan	PASS	
B	2	M18	ARU-050	HORNE TAP	MIXED	21-Jan	PASS	
B	2	M38	ASU-039	MIXER TAP	MIXED	21-Jan	Pass	
B	2	M38	ASU-042	MIXER TAP	MIXED	21-Jan	Pass	
B	2	M36	SCH-092	HORNE TAP	MIXED	21-Jan	Pass	
B	2	M39	DCU-005	MIXER TAP	MIXED	21-Jan	Pass	
B	2	M39	DCU-011	HORNE TAP	MIXED	21-Jan	Pass	
C	2	M36	SCH-022	MIXER TAP	MIXED	21-Jan	Pass	
C	2	M36	SCH-040	MIXER TAP	MIXED	21-Jan	Pass	
C	2	M36	SCH-061	HORNE TAP	MIXED	21-Jan	Pass	
C	2	M39	SCH-023	MIXER TAP	MIXED	21-Jan	Pass	
C	2	M39	SCH-063	HORNE TAP	MIXED	21-Jan	Pass	
C	2	M39	SCH-087	MIXER TAP	MIXED	21-Jan	Pass	
A	3	M18	GW1-002	HORNE TAP	MIXED	21-Jan	Pass	
A	3	M18	GW1-048	MIXER TAP	MIXED	21-Jan	Pass	
B	3	M18	GW5-011	HORNE TAP	MIXED	21-Jan	Pass	
B	3	M18	GW5-014	HORNE TAP	MIXED	21-Jan	Pass	
B	3	M38	GW2-035	HORNE TAP	MIXED	21-Jan	Pass	
B	3	M38	GW2-054	MIXER TAP	MIXED	21-Jan	Pass	
B	3	M39	GW2-025	MIXER TAP	MIXED	21-Jan	Pass	
B	3	M39	GW2-035	HORNE TAP	MIXED	21-Jan	Pass	
B	3	M36	GW5-004	HORNE TAP	MIXED	21-Jan	Pass	
B	3	M36	GW5-033	MIXER TAP	MIXED	21-Jan	Pass	
C	3	M39	GW3-001	HORNE TAP	MIXED	21-Jan	Pass	
C	3	M39	GW3-005	MIXED TAP	MIXED	21-Jan	Pass	
C	3	M39	GW3-043	HORNE TAP	MIXED	21-Jan	Pass	
C	4	M39	DCFP-013	MIXER TAP	MIXED	21-Jan	Pass	
C	4	M39	DCFP-044	MIXER TAP	MIXED	21-Jan	Pass	



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Sample Date: 21-Jan-15
Received Date: 21-Jan-15
Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (1)
Certificate ID: 927063
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583208

Sample : 41-2B-0-0PD-073

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (2)
Certificate ID: 927064
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583209

Sample : 41-2B-0-0PD-088

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (3)
Certificate ID: 927065
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583210

Sample : 41-2B-0-0PD-060

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (4)
Certificate ID: 927066
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583211

Sample : 41-2B-0-0PD-075

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (5)
Certificate ID: 927067
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583212

Sample : 41-2B-1-CAR-036

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (6)
Certificate ID: 927068
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583213

Sample : 41-2B-1-CCW-014

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (7)
Certificate ID: 927069
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583214

Sample : 41-2B-1-SPF-007

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (8)
Certificate ID: 927070
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583215

Sample : 41-2B-1-CCW-025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02 (9)
Certificate ID: 927071
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583216

Sample : 41-2B-1-CCW-021

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Received Date: 21-Jan-15
Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(10)
Certificate ID: 927072
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583217

Sample : 41-2B-1-MDU-008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Sample Date: 21-Jan-15
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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(11)
Certificate ID: 927073
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583218

Sample : 41-2C-0-ENT-014

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Sample Date: 21-Jan-15
Received Date: 21-Jan-15
Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(12)
Certificate ID: 927074
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583219

Sample : 41-2C-0-ENT-036

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Sample Date: 21-Jan-15
Received Date: 21-Jan-15
Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(13)
Certificate ID: 927075
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583220

Sample : 41-2C-0-ENT-048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Sample Date: 21-Jan-15
Received Date: 21-Jan-15
Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(14)
Certificate ID: 927076
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583221

Sample : 41-2C-0-OPD-009

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Sample Date: 21-Jan-15
Received Date: 21-Jan-15
Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(15)
Certificate ID: 927077
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583222

Sample : 41-2C-0-OPD-026

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 26-Jan-15

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(16)
Certificate ID: 927078
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583223

Sample : 41-2C-1-23HV-008

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(17)
Certificate ID: 927079
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583224

Sample : 41-2C-1-23HV-042

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(18)
Certificate ID: 927080
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583225

Sample : 41-2C-1-23HV-051

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	4	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(19)
Certificate ID: 927081
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583226

Sample : 41-2C-1-THE-009

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(20)
Certificate ID: 927082
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583227

Sample : 41-2C-1-THE-014

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(21)
Certificate ID: 927083
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583228

Sample : 41-2C-1-THE-025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(22)
Certificate ID: 927084
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583229

Sample : 41-ZA-0-0BW-020

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(23)
Certificate ID: 927085
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583230

Sample : 41-ZA-0-OBW-061

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(24)
Certificate ID: 927086
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583231

Sample : 41-ZA-0-EMC-018

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(25)
Certificate ID: 927087
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583232

Sample : 41-ZA-0-CPS-003

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(26)
Certificate ID: 927088
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583233

Sample : 41-ZA-0-CPS-006

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(27)
Certificate ID: 927089
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583234

Sample : 41-ZA-1-CCW-098

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(28)
Certificate ID: 927090
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583235

Sample : 41-ZA-1-CCW-118

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(29)
Certificate ID: 927091
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583236

Sample : 41-ZA-1-CCW-082

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(30)
Certificate ID: 927092
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583237

Sample : 41-ZA-1-CCW-082

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(32)
Certificate ID: 927094
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583239

Sample : 41-ZA-1-CCW-084

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(33)
Certificate ID: 927095
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583240

Sample : 41-ZA-1-CCW-092

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Certificate Ref: 290858-30/01/2015 10:27:02
(34)
Certificate ID: 927096
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583241

Sample : 41-ZB-0-OPD-103

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(35)
Certificate ID: 927097
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583242

Sample : 41-ZB-0-OPD-120

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(36)
Certificate ID: 927098
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583243

Sample : 41-ZB-0-OPD-125

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Test Date : 21-Jan-15
Certificate Ref: 290858-30/01/2015 10:27:02
(37)
Certificate ID: 927099
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583244

Sample : 41-ZB-0-OPD-175

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

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Date: 26-Jan-15

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Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923706

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (2)
Certificate ID: 927031
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581975

Sample : ZAL2 ARU-016

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923707

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (3)
Certificate ID: 927032
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581976

Sample : ZAL2 ARU-046

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923708

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (4)
Certificate ID: 927033
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581977

Sample : ZAL2 ARU-085

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923709

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (5)
Certificate ID: 927034
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581978

Sample : ZAL2 ARD-022

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923710

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (6)
Certificate ID: 927035
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581979

Sample : ZAL2 ARU-050

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	34	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	33	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923711

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (7)
Certificate ID: 927036
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581980

Sample : ZAL2 ASU-039

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923712

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (8)
Certificate ID: 927037
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581981

Sample : ZAL2 ASU-042

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923713

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (9)
Certificate ID: 927038
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581982

Sample : ZAL2 SCU-092

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923714

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(10)
Certificate ID: 927039
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581983

Sample : ZAL2 DCU-005**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923715

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(11)
Certificate ID: 927040
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581984

Sample : ZAL3 GWI-002**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	16	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	180	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923716

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(12)
Certificate ID: 927041
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581985

Sample : ZAL3 GWI-048

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	26	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	31	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



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Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923717

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(13)
Certificate ID: 927042
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581986

Sample : ZAL3 GWI-011

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923718

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(14)
Certificate ID: 927043
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581987

Sample : ZBL3 GWZ-035

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	3	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923719

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(15)
Certificate ID: 927044
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581988

Sample : ZAL3 GWS-014

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923720

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(16)
Certificate ID: 927045
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581989

Sample : ZAL3 GWZ-035**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923721

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(17)
Certificate ID: 927046
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581990

Sample : ZAL3 GWZ-054

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923722

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(18)
Certificate ID: 927047
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581991

Sample : ZAL3 GWZ-025

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	5	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	9	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923723

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(19)
Certificate ID: 927048
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581992

Sample : ZAL3 GWS-004

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	2	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923724

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(20)
Certificate ID: 927049
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581993

Sample : ZAL3 GWS-033

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923725

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(21)
Certificate ID: 927050
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581994

Sample : 2CL3 GW3-001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923726

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(22)
Certificate ID: 927051
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581995

Sample : 2CL3 GW3-005

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923727

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(23)
Certificate ID: 927052
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581996

Sample : 2CL3 GW3-043

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	6	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	52	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923728

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(24)
Certificate ID: 927053
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581997

Sample : ZCL4 DCFP-013**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923729

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(25)
Certificate ID: 927054
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581998

Sample : ZCL4 DCFP-044

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923730

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(26)
Certificate ID: 927055
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581999

Sample : ZBL2 DCU-011**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923731

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(27)
Certificate ID: 927056
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582000

Sample : ZCL2 SCU-022**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923732

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(28)
Certificate ID: 927057
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582001

Sample : ZCL2 SCU-040**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923733

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(29)
Certificate ID: 927058
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582002

Sample : ZCL2 SCU-061**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	2	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923734

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(30)
Certificate ID: 927059
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582003

Sample : ZCL2 SCU-023**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923735

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(31)
Certificate ID: 927060
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582004

Sample : ZCL2 SCU-063

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

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0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923736

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11
(32)
Certificate ID: 927061
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1582005

Sample : ZCL2 SCU-087**Details :** NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	1	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	0	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)**Date:** 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Supplementary Certificate of Analysis

Supersedes Previous Certificates : 923705

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 20-Jan-15
Received Date: 20-Jan-15
Test Date : 20-Jan-15
Certificate Ref: 290614-30/01/2015 10:08:11 (1)
Certificate ID: 927030
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 20-01-15 1
Laboratory Reference: HVC_GLS[BH]1581974

Sample : ZAL2 ARU-001

Details : NSGH

Method Ref	Determination	Result	Units
BP50.15	Escherichia coli	0	cfu/100ml
BP50.15	Total Coliforms	0	cfu/100ml
BP50.5	TVC (2 Days @ 37°C)	0	cfu/ml
BP50.5	TVC (3 Days @ 22°C)	1	cfu/ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 23-Jan-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996



Certificate of Analysis

H&V Commissioning Services Ltd
Kilknowe Office
16 Barrmill Road
Glaston
Ayrshire
KA4 8HH

Sample Date: 21-Jan-15
Received Date: 21-Jan-15
Test Date : 22-Jan-15
Certificate Ref: 290858-02/02/2015 11:17:59 (1)
Certificate ID: 928705
Order Number: 1619/CD/WT/5902
SDG Reference: HVC_GLS 21-01-15 1
Laboratory Reference: HVC_GLS[BH]1583245
Legionella Process Date: 22/01/2015

Sample : RISER LEGIONELLA M36

Details : NSGH

Method Ref	Determination	LOD	Result	Units
*BP50.9	Legionella spp. (Calculated)	100	Not Detected	cfu/l
BP50.9	Legionella spp.	100	Not Detected	cfu/Volume
*BP50.9	Volume Of Sample Filtered		1000	ml

Approved By: Lynsey Sinclair(Lab Manager)

Date: 02-Feb-15

Page 1 of 1

Abbreviations :< = Less than, > = Greater than. SDG = Sample Delivery Group. The results are given for the sample as received by the laboratory. The site of the test is identified by BH = Bellshill. Tests marked * have not been subcontracted and are not accredited. The Legionella (calculated) det is a calculated det where the result is extrapolated from the Legionella test results. LOD = Limit of Detection. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. Method details and performance characteristics are available on request.



0996

	<u>NHS GREATER GLASGOW & CLYDE</u> <u>Estates Services</u> Standard Operating Procedure (SOP)
	Derogation from Scottish Health Technical Memorandums (SHTMs) & Scottish Health Building Notes (SHBNs)
	SOP NO: 00-C1 – V3

Lead Manager	Head of Corporate Estates
Responsible Director	Director of Estates & Facilities
Approved By	Head of Corporate Estates
Date Approved	02/08/2021
Date for Review	02/08/2024

1.0 Introduction

This Standard Operating Procedure (SOP) covers the process of applying for a derogation from the guidance listed below for every site within NHS Greater Glasgow & Clyde.

- Scottish Health Technical Memorandum 02: Medical gases
- Scottish Health Technical Memorandum 03: Heating and ventilating systems
- Scottish Health Technical Memorandum 04: Water systems
- Scottish Health Technical Memorandum 06: Electrical services
- Scottish Health Technical Memorandum 08-07: Confined Spaces
- Scottish Health Technical Memorandum 08-08: Pressure Systems
- Scottish Health Building Notes 00 - 16

This SOP will be reviewed every three years.

2.0 Derogation Definition.

Within the confines of NHS GG&C and in line with Health Facilities Scotland (HFS) criteria, the definition of a Derogation is stated as;

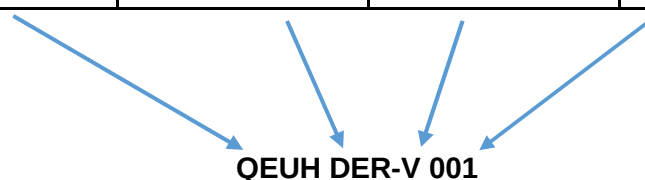
“Equal to or better than the original design or guidance standards”

3.0 Derogation numbering system.

The Derogation numbering system will meet the following format.

Example:

SITE	Derogation	Discipline	Number
QEUH	DER	Ventilation	001



Derogation No: (*Site Name*) DER (V for Ventilation; HV for High Voltage Electrical; LV for Low Voltage Electrical; P for Pressure Systems; MGPS for Medical Gas Pipeline Systems; SHBN for Scottish Health Building Notes) then followed by a 3 digit number starting at 001. These derogations and the numbering system will be controlled and managed by the compliance team and held in the NHS GG&C Central Derogation Register.

4.0 Derogation Request

A request for Derogation must be sent by email to the relevant Compliance manager listed below. See Appendix 1 for flow chart.

Derogations: • HV • LV	Derogations: • Water • Confined Spaces • COSHH • Working at Height	Derogations: • Heating & Ventilation • Pressure Systems • MGPS • Natural gas • Lifts • Lifting Equipment
George Walsh Compliance Manager 	Phyllis Urquhart Compliance Manager 	Dayle McGlinchey Trainee Compliance Manager 

On receipt of email request, the compliance manager will reply with the Smartsheet link to complete the derogation application, see Appendix 2. Once the application is completed in full, the Compliance Manager will issue the derogation form and number by email. See Derogation form on Appendix 3.

Where there are a multiple/significant number of potential “Derogations” a schedule list can be produced and shared with the compliance manager for review. This will ensure that they are reviewed and agreed that they fall within the Derogations definition see clause 2.0 above.

If the request for a Derogation does not meet the Definition in clause 2.0 then this will be returned to the requester by the compliance manager, with a request to review accordingly and produce a potential risk assessment if required.

The Derogation form criteria must be completed in full:

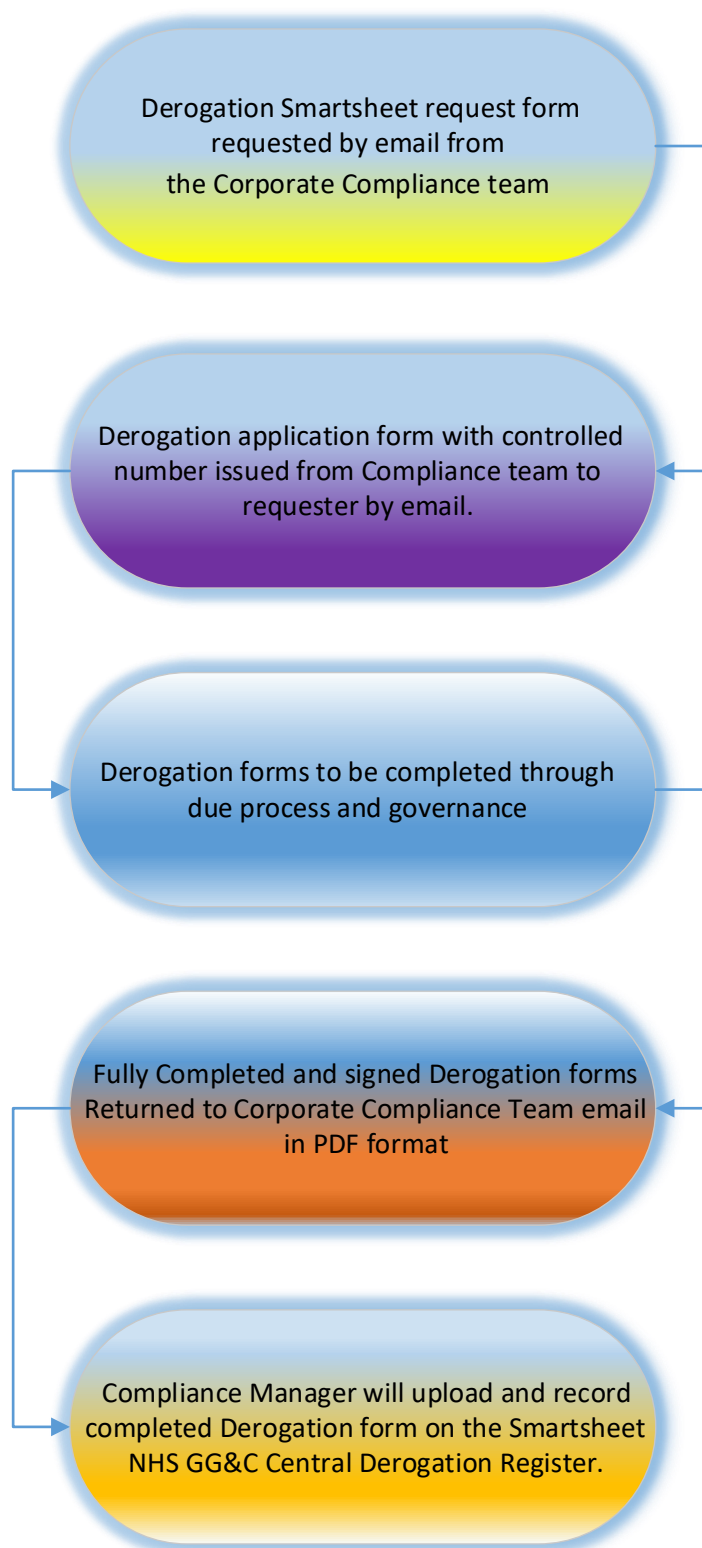
1. Derogations statement.
 - What is the derogation?
 - Why is it required?
 - Proposed derogation outcome?
2. Schematics/plans of existing design.
3. Schematics/plans of proposed design.
4. Additional documentations – Risk assessments, method statements (RAMS), technical data documentation etc.

5.0 Signed Derogation Form

Once the completed derogation form has been approved through due process and governance (i.e. signed off by all the relevant signatories), it will be the responsibility of the Lead Authorised Person/Authorised Person (AP) to ensure this is forwarded to the respective Compliance Manager for uploading onto Smartsheet. The signed derogation form shall be in PDF format.

6.0 NHS GG&C Central Derogation Register

This central derogation register is held within Smartsheet and is updated and controlled by the Estates Corporate Compliance Team.

Derogation Register SOP process chart**Appendix 1**

Appendix 2Derogation Smartsheet request form



Derogation Smartsheet request Form

I have read and understood the Derogation SOP *

☐

Date Requested *

Requested by *

Site *

Location *

Ward / Area *

Dicipline *

Short description of the Derogation *

☐ Send me a copy of my responses

Powered by  smartsheet

[Privacy Notice](#) | [Report Abuse](#)

Appendix 3

Derogation Application Form



Derogation Application Form

Derogation No:

Derogation requested by: Click here to enter text.

Date issued: Click here to enter text.

Title of Derogation: Click here to enter text.

Derogation from: Click here to enter text.

Section: Click here to enter text.

Hospital Site: Click here to enter text.

Location on site: Click here to enter text.

Ward/Area: Click here to enter text.

Date returned: Click here to enter text.

Derogation Statement

Insert the following:

What is the derogation?

Why is it required?

Proposed derogation outcome?

Click here to enter text.

Schematics/plans of existing design.

Insert existing design.

Click here to enter text.

Schematics/plans of proposed design.

Insert proposed design.

Click here to enter text.

Additional documentations.

Risk assessments, method statements (RAMS), technical data documentation etc.

Click here to enter text.

Approval Signatures:

Infection Control Lead - Date -

Print Name.....Position -

Clinical Lead (1) Date -

Print Name.....Position -

Clinical Lead (2) Date -

Print Name.....Position -

Estates Lead (1)..... Date -

Print Name.....Position -

Estates Lead (2)..... Date -

Print Name.....Position -

Head of Corporate Estates..... Date -

Print Name.....

Authorising Engineer..... Date -

Print Name.....

Note: The list of approved signatories will change depending on the subject matter. If there is no need for clinical input to the derogation (it might be a purely a technical change from the SHTM which has no impact on patient safety) then there is no need for these signatures and a N/A is to be inserted.

All relevant signatures must be completed before returning by attachment to the compliance team email: Corporate.ComplianceTeam@ggc.scot.nhs.uk

General Specification for the Cleaning of Ventilation & Air Conditioning Systems

General Specification - Template

Part 1 -- Special Provisions

1.1 Qualification of the HVAC System Cleaning Contractor

A. Certification

The HVAC system cleaning contractor shall have a minimum of one (1) Air System Cleaning Specialist (ASCS) certified on a full time basis, or shall have staff certified by a nationally recognized certification program and organization dedicated to the cleaning of HVAC systems. All works will be undertaken to BS EN 15780 and CIBSE TR/19 standards and recommendations.

B. Experience

The HVAC system cleaning contractor shall submit records of experience in the field of HVAC system cleaning as requested by the client. Quotations or Tenders shall only be considered from firms which are regularly engaged in HVAC system maintenance with an emphasis on HVAC system cleaning and restoration.

1.2 Standards

A. BS EN 15780 Standard

The HVAC system cleaning contractor shall perform the services specified here in accordance with the current published BS EN 15780 Standard.

1. All terms in this specification shall have their meaning defined as stated in BS EN 15780 Standard.
2. BS EN 15780 Standard must be followed with no modifications or deviations being allowed.

B. CIBSE TR/19:2013 Standard

The HVAC system cleaning contractor shall perform the services specified here in accordance with the current published CIBSE TR/19:2013 Standard.

1. All terms in this specification shall have their meaning defined as stated in CIBSE TR/19:2013 Standard.
2. CIBSE TR/19:2013 Standard must be followed with no modifications or deviations being allowed.

Part 2 -- HVAC System Cleaning Specifications and Requirements

2.1 Scope of Work

(Instructions: Users of this specification must complete this section by inserting specific instructions on the scope of work. Be specific and list all included HVAC components and special instructions below. See Supplemental Information for guidance on developing Scope of Work.)

A. The Scope of Work shall include:

2.2 HVAC System Assessment and Site Survey

Prior to the commencement of any cleaning work, the HVAC system cleaning contractor shall perform an assessment of the HVAC system to determine appropriate engineering controls, safety measures, tools and equipment and cleaning methods required to satisfactorily complete the project.

This will include the preparation and provision of a ductwork system schematic identifying all principle components and existing access points, with an indication of new or additional access points which will be provided as part of the cleaning process. It will also include for a representative sample of current airflow performance readings to enable an assessment of impact/improvement achieved following cleaning and the subsequent re-balancing/validation process.

B. Work Plans

Prior to the commencement of any cleaning work, the HVAC system cleaning contractor shall provide a written work plan including the following information:

1. Scope of Work identifying which HVAC components are to be cleaned, as well as those components not included in the process, along with specific environmental engineering controls required for the workspace, and any unique requirements.
2. Means and methods of cleaning to be used on the project.
3. When applicable, the name of all firms, contractors and representatives involved with the project, along with contact information and the tasks they will be performing.
4. Project schedule outlining dates and times the work will take place and timeframe for completion. The HVAC system cleaning contractor shall be involved in determining the sequence of cleaning within the larger project in order to provide the project schedule.
5. Product submittals listing all general use and/or specific "chemical type" products and coatings specific to the project, along with Safety Data Sheets for all chemical products to be used on the project.
6. Safety plan concerns and defined responsibilities of each organization's designated representative involved with executing the plan for the duration of the project.
7. Disclaimers clearly identifying items not covered under any warranty or guarantee for the project.

2.3 Engineering Controls

The HVAC system cleaning contractor shall use engineering controls to ensure worker and occupant safety, and to prevent cross-contamination. The HVAC system cleaning contractor shall follow specified industry standards and guidelines specific to the project environment/facility.

A. Equipment Maintenance & Use

All HVAC system cleaning contractor equipment shall be maintained in good working order, consistent with applicable jurisdictional requirements.

1. Before any equipment is brought onto the work site it shall be cleaned and inspected to ensure that it will not introduce contaminants into the indoor environment or HVAC system.
2. All equipment shall be serviced as needed to limit possible cross-contamination from poor hygiene, and/ or unsafe operating conditions for service personnel and building occupants.
3. Any activity requiring the opening of contaminated vacuum collection equipment on-site, such as servicing or filter maintenance shall be performed in an appropriate containment area or outside of the building.
4. All collection devices, vacuums and other tools and devices shall be cleaned or sealed before relocating to different areas of the building and before removing the equipment from building.
5. Fuel-powered equipment shall be positioned in a location to prevent combustion emissions and air exhaust emissions from entering the building envelope. The HVAC system cleaning contractor shall monitor and manage location of equipment to prevent introduction of combustion emissions into the occupied space.
6. When using vacuum collection equipment exhausting within the building envelope, the HVAC system cleaning contractor shall utilize equipment fitted with HEPA filtration and the equipment shall have a collection efficiency of 99.97% at 0.3 micron particle size.

B. Disposal of Debris & Contaminated Materials

All debris removed from the HVAC System shall be disposed of in accordance with applicable local requirements. To prevent cross-contamination, all contaminated materials removed from the HVAC system shall be properly contained prior to removal from the building. Materials deemed to be hazardous shall be handled in strict accordance with any applicable local and national codes.

C. Control of Product Emissions

Any application of cleaning agents or other chemicals shall be used in strict accordance with manufacturer's recommended procedures and product application instructions, including exhaust ventilation as required.

2.4 HVAC System Cleaning Requirements

All cleaning and restoration procedures shall achieve the minimum level of visibly clean or the specified level of cleanliness verification as defined in the contractual documents for components within the project scope of work as defined in BS EN 15780 and CIBSE TR/19:2013 Standards.

A. Negative Duct Pressurization

Prior to and throughout duration of the cleaning process, the HVAC system and associated air duct shall be kept at an appropriate negative pressure differential relative to the indoor non-work area. This negative pressure differential shall be maintained between the portion of the HVAC duct system being cleaned and surrounding indoor occupant spaces.

1. Under all circumstances, the HVAC system cleaning contractor shall verify pressurization differential during the project.
2. When utilizing vacuum collection equipment exhausting indoors it shall utilize HEPA filtration and the equipment shall have a collection efficiency of 99.97% at 0.3 micron particle size and be capable of retaining dislodged debris.
3. All equipment used to create negative duct pressurization that does not have HEPA filtration shall be exhausted outdoors to a location that would not allow re-entrainment.

B. Access Doors and Accessibility

The HVAC system cleaning contractor shall utilize service openings, as required for proper cleaning, at various points of the HVAC system for physical and mechanical entry, and inspection.

1. The HVAC system cleaning contractor shall utilize existing service openings installed in the HVAC system where possible.
2. Service openings installed into the system as needed shall not degrade the structural, thermal, or functional integrity of the system and shall comply with HVCA and NHS Model Engineering Specifications and standards.
3. Service openings shall be created in a manner that allows for proper closure and shall not hinder, restrict, or alter the airflow within the air duct.
4. Service opening construction materials and methods shall be in compliance with industry standards, using materials acceptable under those standards.
5. The HVAC system cleaning contractor shall use duct access doors and permanent panels fabricated with materials classified for flammability and smoke spread if the material is exposed to the internal airstream.
6. All tapes used in the installation and closure of service openings shall meet the requirements of HTM 03-01.
7. Service panels used for closing service openings in the HVAC system shall be of an equivalent gauge or heavier so as to not compromise the structural integrity of the duct.
8. Service panels used for closing service openings shall be mechanically fastened (screwed or riveted) at maximum every 4" on center and equally spaced. The panel shall overlap the duct surfaces by a minimum of 1" on all sides.
9. Closures must be properly insulated to prevent heat loss/gain or condensation on surfaces within the system.
10. All service openings shall be closed with materials meeting building regulations and HTM 03 and 05 series for smoke generation and flame spread.
14. All service openings capable of being re-opened for future inspection or remediation shall be clearly marked and have their location reported to the client in project report documents.
15. Cutting service openings into flexible duct is not permitted. Flexible duct shall be disconnected at the ends as needed for proper cleaning and inspection and shall be properly reconnected.

C. Cleaning Methods

All HVAC components included in the scope of work shall be cleaned by using a suitable agitation device to dislodge contaminants from the HVAC component surface and then capturing the contaminants with a vacuum collection device. Acceptable methods will include those which will not potentially damage the integrity of the duct, nor damage porous surface materials such as liners inside the duct or system components.

1. The included HVAC components shall be cleaned using source removal mechanical cleaning methods designed to extract contaminants from within the HVAC system and safely remove contaminants from the facility.
2. It is the HVAC system cleaning contractor's responsibility to select source removal methods that will render the HVAC system visibly clean and capable of passing cleanliness verification methods as described in BS EN 15780 and CIBSE TR/19:2013 Standards.
3. No cleaning method, or combination of methods, shall be used which could potentially damage components of the HVAC system or negatively alter the integrity of the system.
4. Wet cleaning, power washing, steam cleaning and any other form of wet process cleaning of HVAC system components shall not damage or result in subsequent damage to the components. Cleaning agents or water shall never be applied to electrical, fibrous glass or other porous HVAC system components.

D. Particulate Collection

All methods used shall incorporate the use of vacuum collection devices that are operated continuously during cleaning. A vacuum collection device shall be connected to the component being cleaned through a predetermined opening. The vacuum collection device must be of sufficient power to render all areas being cleaned under negative pressure, such that containment of debris and the protection of the indoor environment are assured. When the vacuum collection device is used to convey air with debris, it shall maintain a sufficient velocity and negative pressure differential in the portion of the mechanical system being cleaned.

1. All vacuum devices exhausting air inside the building shall utilize HEPA filtration and the equipment shall have a collection efficiency of 99.97% at 0.3 micron particle size, including hand-held vacuums and wet-vacuums.
2. All vacuum devices exhausting air outside the facility shall be equipped with particulate collection including adequate filtration to contain debris removed from the HVAC system. Such devices shall exhaust in a manner that will not allow contaminants to re-enter the facility. Precautions shall be taken to locate the equipment down wind and away from all air intakes and other points of entry into the building. Release of debris outdoors must not violate any outdoor environmental standards, codes or regulations.

E. Containment

Debris removed during cleaning shall be collected and precautions must be taken to ensure that debris is not otherwise dispersed outside the HVAC system during the cleaning process.

F. Controlling Odors

Measures shall be employed to control odors and/or mist vapors during the cleaning process.

G. Component Cleaning

All HVAC components included in the Scope of Work must be cleaned in accordance with BS EN 15780 and CIBSE TR/19:2013 Standards. Cleaning methods shall be employed such that all included HVAC system components must be visibly clean as defined in the above Standards.

G.1 Air Handling Unit (AHU)

If Air Handling Unit (AHU) cleaning is included in the scope of work, the HVAC system cleaning contractor shall:

1. Thoroughly clean supply, return, and exhaust fans and blowers. Areas to be cleaned include

blowers, fan housings, plenums (except ceiling supply and return plenums), scrolls, blades, or vanes, shafts, baffles, dampers and drive assemblies. All visible surface contamination deposits shall be removed in accordance with BS EN 15780 and CIBSE TR/19:2013 Standards.

2. Clean all air handling unit (AHU) internal surfaces, components and condensate collectors and drains. Air-handling coils, fans, condensate pans, drains and similar non-porous surfaces are recommended to be wet cleaned in conjunction with mechanical methods as described in BS EN 15780 and CIBSE TR/19:2013 Standards.
3. Ensure efforts to control water extraction are sufficient to collect debris and prevent water damage to the HVAC components and surrounding equipment.
4. Ensure capture, containment, testing and disposal of waste water generated while performing wet cleaning is in accordance with applicable local, regional, state and federal regulations.
5. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards.
6. A full unit re-validation of the system will be required as per HTM 03-01 Part A chapter 12.

G.2 Air Duct Systems

If air duct cleaning is included in the scope of work, the HVAC system cleaning contractor shall:

1. Clean air ducts to remove all non-adhered substances so that they are capable of passing BS EN 15780 cleanliness verification tests.
2. Access air ducts through service openings in the system that are large enough to accommodate mechanical cleaning procedures and allow for cleanliness verification.
3. Use mechanical agitation methods to remove particulate, debris, and surface contamination.
4. Capture dislodged substances with a vacuum collection device.
5. Not use any cleaning methods that will damage any HVAC components.
6. Mark the position of dampers and any air-directional mechanical devices inside the HVAC system prior to cleaning and, upon completion, restore them to their marked position.
7. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards.
8. Any final connections using flexible ducting should be replaced as cleaning of these ducts is not considered practical and cleaning is ineffective.
9. A full re-validation of the ventilation system after re-balancing will be required in all circumstances within a healthcare setting as per HTM 03-01.

G.3 Coils

If coil cleaning is included in the scope of work, the HVAC system cleaning contractor shall:

1. Perform visual inspection of coil and drain pan to determine whether Type 1 (dry cleaning) or Type 2 cleaning (wet cleaning) is required.
2. Use cleaning methods which will render the coil visibly clean in accordance with BS EN 15780 and CIBSE TR/19:2013 Standards.
3. Use Type 2 cleaning methods when visual inspection reveals suspect microbial matter on any portion of the coil or drain pan.
4. Access both upstream and downstream sides of each coil section for cleaning.
5. Use engineering controls required for coil cleaning in accordance with BS EN 15780 and CIBSE TR/19:2013 Standards.
6. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards.
7. Operate negative air machines continuously during Type 1 cleaning process.

8. Isolate the coil from the duct system during the cleaning process to ensure disrupted particulate does not migrate to, or redeposit on, unintended areas.
9. Perform Type 2 cleaning if debris still remains on the coil or the coil is impacted after Type 1 cleaning has been completed and post-cleaning inspection has been performed.
10. Ensure coil cleaning products are used in accordance with the manufacturer's product labeling.
11. Clean and flush the condensate drain pan and drain line and inspect to verify proper drainage operation before and after cleaning.
12. Use cleaning methods and products that shall not cause damage to, or erosion of, the coil surface or fins.
13. Obtain a static pressure drop measurement before and after the coil cleaning process to verify cleanliness.
14. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards

G.4 Inline Coils

If inline coil cleaning is included in the scope of work, the HVAC system cleaning contractor shall:

1. Use Type 1 and/or Type 2 methods for cleaning.
2. Take precautions to capture rinse water when cleaning duct mounted coils without drain pans.
3. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards.

G.5 Electric Resistance Coils

If electric resistance coil cleaning is included in the scope of work, the HVAC system cleaning contractor shall:

1. De-energize and lock out/tag out the power source to the coils.
2. Utilize Type 1 cleaning methods.
3. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards.

G.6 Internally Insulated Duct System Components (e.g. Internal Duct Insulation & Sound Attenuators)

If internally insulated duct system component cleaning is included in the scope of work, the HVAC system cleaning contractor shall:

1. Use cleaning methods that will not cause damage to internal insulation or sound attenuating components and will render the system capable of passing cleanliness verification tests.
2. Clean fibrous glass duct liner or duct board present in equipment or air ducts using mechanical agitation methods to remove particulate, debris, and surface contamination.
3. Ensure the mechanical cleaning methods selected for duct liner or fibrous glass duct board shall not create abrasions, breaks, or tears to fibrous glass liner or duct board surfaces.
4. Ensure the HVAC system is under constant negative pressure when cleaning internally insulated thermal or acoustical insulation components.
5. Ensure insulated thermal or acoustical insulation components do not get wet, in accordance with applicable BS EN 15780 and CIBSE TR/19:2013 standards and recommendations.
6. Verify cleanliness after cleaning has been performed as described in BS EN 15780 and CIBSE TR/19:2013 Standards.
7. Identify for replacement fibrous glass materials with evidence of damage, deterioration, delaminating, friable materials, biological growth, or moisture such that they cannot be restored

- by cleaning or resurfacing.
8. When requested or specified, be capable of remediating exposed damaged insulation in air handlers and/or ducts requiring replacement.
 9. Scrape clean the base surface of all metal surfaces of the duct system that have undergone removal of degraded thermal-acoustic material such that they are free of loose, visible debris prior to installation of new insulation.
 10. In the event the fibrous glass removal was due to mold contamination, clean the base surface prior to reapplying any fibrous glass insulating products in the event the fibrous glass removal was due to mold contamination.
 11. In the event internal insulation materials must be replaced, ensure all materials conform to applicable industry standards. All materials used for insulation replacement within the HVAC system shall meet or exceed the specifications of the original materials or current applicable codes. Installation of the replacement materials shall be in accordance with the manufacturer's written instructions. Installation of thermal-acoustic HVAC insulation common to the air stream shall comply with current standards.

H. Antimicrobial Agents

If the application of antimicrobial agents is included in the scope of work, products must be legally approved for the application for which they will be used. As a general rule use of these agents will not be considered within healthcare settings other than as part of any decontamination prior to cleaning being undertaken (e.g. category 3 safety laboratories).

1. Antimicrobial agents shall only be applied if active biological growth is reasonably suspected, or where unacceptable levels of biological contamination have been verified through testing.
2. Application of any antimicrobial agents used to control the growth of biological contaminants shall be performed after the removal of surface deposits and debris.
3. When used, antimicrobial agents shall be applied in strict accordance with the manufacturer's written recommendations.

2.5 Cleanliness Verification

All components within the project scope of work shall achieve, at minimum, the level of visibly clean or the specified method of cleanliness verification defined in the contractual documents. Cleanliness verification shall be performed on specified components as described in BS EN 15780 and CIBSE TR/19:2013 Standards.

1. Cleanliness verification will be performed immediately after HVAC system component cleaning and prior to use in operation.
2. Cleanliness verification will be determined after mechanical cleaning and before the application of any treatment or introduction of any treatment-related substance to the HVAC system, including biocidal agents and coatings.
3. Photographic evidence of both “before” and “after” cleaning shall be provided for all significant areas of the ductwork distribution system

A. Visual Inspection

Visual inspection of porous and non-porous HVAC system components shall be conducted to assess that the HVAC system is visibly clean as defined in BS EN 15780 and CIBSE TR/19:2013 Standards or the specified method of cleanliness verification defined in the contractual documents.

1. If no contaminants are evident through visual inspection, the HVAC system shall be considered clean.
2. If visible contaminants are evident through visual inspection, those portions of the system where contaminants are visible shall be re-cleaned and subjected to re-inspection for cleanliness.

2.6 Post-Project Documentation

At the conclusion of the project, if specified in the contract, the HVAC system cleaning contractor shall provide documentation showing compliance with this specification for all work performed. This documentation may include the following:

1. Success of the cleaning project, as verified through visual inspection and/or cleanliness verification.
2. Photo images, HVAC plans and other supporting documents such as submittal forms for materials used and/or warranties or guarantees.
3. System schematic drawing (see section 2.2)
4. System areas found to be damaged and/or in need of repair.
5. A copy of the lab results, if a Vacuum Test is used for cleanliness verification.

Supplemental Information

A. Guidance on Developing the Scope of Work

This document is intended as a General Specification template and must be modified to accurately account for the unique system variations within an individual building and cleaning project. This is why users of the document are instructed to complete the Scope of Work section by inserting specific instructions and listing all HVAC components to be included in their project.

Below are 10 examples of how a Scope of Work may read.

1. The HVAC system cleaning contractor to clean the entire HVAC system from the point where the air enters the system to the points where the air is discharged from the system.
2. The HVAC system cleaning contractor to clean all existing supply, return and exhaust air ducts in the building after refurbishment take place.
3. The HVAC system cleaning contractor to clean all supply and return air ducts that are serviced by AHU1 and AHU2.
4. The HVAC system cleaning contractor to clean all reheat coils and supply air ducts downstream of the reheat coils that are located within the construction / designated area.
5. The HVAC system cleaning contractor to clean all air handling units and existing return air ducts after the refurbishment takes place.
6. The HVAC system cleaning contractor to clean all existing and newly installed air ducts that are a part of the construction project.
7. The HVAC system cleaning contractor to clean all building exhaust systems that service for example floors 1 through 3 on the West Wing.
8. The HVAC system cleaning contractor to clean all air handling units and air ducts that service the North Building. All internally lined supply air ducts shall be sealed with an approved coating in accordance with manufacturer's recommendations. All edges and seams of internal liner shall be sealed in accordance with manufacturer's recommendations.
9. The HVAC system cleaning contractor to clean all fan coil units located in the building. The HVAC system cleaning contractor to clean cabinets, coils and blowers located within the fan coil units. All areas are to be cleaned in compliance with this Specification.
10. The HVAC system cleaning contractor to clean all supply and return air ducts located on the 3rd floor from the point they connect to the vertical shaft to their termination point on the 3rd floor.

The Scope of Work shall list which components are to be cleaned and the location of those components. All listed components shall be cleaned in compliance with this Specification. Any special instructions that are not a part of this Specification are also to be included in the Scope of Work. Be brief and specific on **what** to clean. The rest of the Specification will describe **how** to clean.

Airflow Performance Verification

If cleaning is to be undertaken on a “Critical” system then the last verification report can be used to identify performance and balance prior to cleaning. Following the cleaning process a re-balance and re-validation MUST be completed to ensure continued safe operation of the system. If for whatever reason the previous verification report is unavailable then a full verification/validation process in accordance with HTM 03-01 should be completed both before and after any system cleaning exercise.

If cleaning is to be undertaken on a “non-critical” or general ventilation system, then it is recommended that a verification of airflow performance is undertaken prior to works commencing and that following completion of the cleaning process a re-balance / verification of airflows is completed to ensure continued appropriate operation of the system.

The re-balancing of a system can form an integral element of the ductwork cleaning process, however it is recommended that the verification process should be completed by an independent party to ensure unbiased system performance assurance.

B. Applicable Standards and Publications

The following current standards and publications of the issues currently in effect form a part of this specification to the extent indicated by any reference thereto:

BE EN 15780:2011

CIBSE TR/19 Internal cleanliness of Ventilation Systems Second Edition 2013 (released 22nd May 2014).

TR/19 is a good practice guide for the internal cleanliness of ventilation systems. The guide was first published in 2005 as an amalgamation of the TR/17 guide and publication DW/TM2, which related to the internal cleanliness of new ductwork systems. This second edition incorporates reference to BS EN 15780. Also in this edition, changes have been made to highlight the current best practices for the maintenance of kitchen extract systems. It should be noted that such systems are often of fire-rated construction.



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Briefing Note for the Production and Use of a Commissioning Brief

VENTILATION TECHNICAL PLATFORM (VTP)- LIBRARY OF TECHNICAL GUIDANCE

Introduction

Under the current HTM 03-01 standards designers are required to produce certain critical information regarding the design intent and performance criteria at the end of the design stage to ensure that the subsequent commissioning and validation processes can be completed to achieve the agreed design standards and performance.

Scope

The purpose of this document is to provide an overview on the production, use and minimum requirements for a commissioning brief and highlight the timing and responsibilities and purpose of the document to improve the commissioning and independent validation process for new and refurbished ventilation systems / projects.

This document seeks to outline the responsibilities of each of the main stake holders so that issues surrounding commissioning and validation process can be dealt with quickly and efficiently to minimise the risks relating to project completion and safe operational use.

The contents of this document are provided by way of general guidance only at the time of its publication. Any party making any use thereof or placing any reliance thereon shall do so only upon exercise of that party's own judgement as to the adequacy of the contents in the particular circumstances of its use and application. No warranty is given as to the accuracy relevance or completeness of the contents of this document and IHEEM shall have no responsibility for any errors in or omissions therefrom, or any use made of, or reliance placed upon, any of the contents of this document.

Acknowledgments

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General

This information is described within the HTM standard as the Commissioning Brief. The document should include a number of key elements and provide a record of where design criteria may differ from minimum performance standards of the HTM and record the basis of this derogation or reference where the information relating to the performance criteria is recorded and agreed.

Information to be provided

Under clause 11.9 of the HTM 03-01 Part A, It is essential that the designer should pass on the system-design intent fully to the commissioning engineer by providing:

- relevant parts of the specification;
- schematic drawings indicating data listed in Table 11 (HTM 03-01 Chapter 11 pg112);
- equipment schedules;
- controller and regulator schedule;
- fan performance curves;
- wiring diagrams for electrical equipment, including interlock details.

This is the basic design information that should be included within the 'Commissioning Brief'.

Commissioning brief

Under clause 11.13 The commissioning team will require a detailed brief from the system designer. This document is likely to develop over the course of the scheme, however should as a minimum at design stage include:

- a "user" brief comprising a description of the installation and its intended mode of operation;
- the precise design requirements with regard to the scheme of air movement, room static pressures, supply and extract airflow rates and acceptable tolerances;
- full details of the design conditions both inside and out, for winter and summer, together with the control strategy;
- equipment manufacturers' type test data, commissioning, operation and maintenance recommendations;
- drawings showing the layout of the system, positions of airflow measurement test points, dampers, regulating devices and filters within the duct runs, together with sizes of ducts and terminal fittings. It will save time if these drawings are annotated with the design volumes and static pressures required at each branch and outlet point;
- wiring diagrams for all electrical equipment associated with the air handling systems, including motor control circuit details and any interlocking and safety devices.

The commissioning brief at the design stage needs to include the design performance criteria used and detail any areas where design criteria may differ from minimum performance standards of the HTM and record the basis of this derogation or reference where the information relating to the performance criteria is recorded and agreed. This could include where air change rates have been set to exceed minimum levels to accommodate free cooling opportunities, or where elements of witness testing have been excluded or altered. This detailed design criteria will be the basis of both the commissioning and independent validation process.



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In addition to the design Commissioning Brief the project management team will typically also need to undertake and collate a range of test records and witnessing records for elements of the ventilation installation which will be required to complete the commissioning process and are also essential for the independent validation of the systems prior to the services becoming operational. These installation records can include the following elements.

Standard of installation

Under clause 11.20 of the HTM it outlines that during the installation of the system the following will be witnessed:

- that the plant and installations have been provided and installed in accordance with the design specification and drawings;
- that only approved sealants have been used in the installation;
- that all components function correctly;
- that the satisfactory sealing of access doors and viewing ports has been carried out;
- that the AHU airtightness test as per BS EN 1886 has been carried out;
- that air-pressure tests and air-leakage tests on ventilation ducting have been carried out in accordance with the methods set out in the BESA DW143 – ‘Ductwork leakage testing’ but the leakage rate to be not greater than 3% (it is usual to carry out these tests a section at a time as the ductwork is installed and before its insulation is applied. The results will be recorded in the commissioning manual);
- that gaps around doors and hatches are as specified in the design;
- that the permeability tests are carried out as per paragraph 12.17;
- that the correct operation of pressure stabilisers, control dampers, isolating and non-return dampers have been checked;
- that test holes have been provided in their specified locations and are sealed with suitable grommets;
- that control dampers are secured and their quadrants fitted correctly;
- that any interlocks are operative and in accordance with specification;
- that the electric circuits are completed, tested and energised;
- that electric motors have been checked for correct direction of rotation both at full speed and set back;
- that cooling and heating media are available at correct temperatures and pressures and in specified quantities;
- that the air-conditioning plant components and controls function correctly;
- that the air-conditioning plant interlocks and safety controls function correctly;
- that a suitable risk assessment has been completed for any ‘open water’ elements for legionella and other waterborne pathogen risks,
- that the plant is physically complete, insulation is applied and all ducts and pipework are identified as specified;
- that all service penetrations of the fabric of the area are sealed at the point of penetration (see also paragraph 10.30);
- that the building housing the ventilation plant is generally in a fit condition for commissioning and performance tests to commence, that is, windows, doors, partitions, ceilings, etc are completed, surfaces sealed and their final finish applied;
- that the areas containing the ventilation plant and those being served by it are clean;
- that access to all parts of the system is safe and satisfactory.



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All of the above elements need to be witnessed or assurance provided that they have been undertaken and completed. It is advised that as part of the Commissioning Brief and early engagement of both the commissioning contractors and independent validators / Authorised Persons or Authorising Engineers, that a detailed strategy and agreement is reached on who and how this assurance will be provided and recorded, to ensure that the commissioning and validation process proceeds as smoothly as possible.

LEV System Commissioning

In addition to the above requirements for all critical and general healthcare ventilation systems it should be remembered that under the HSE standards for Local Exhaust Ventilation (LEV) systems there are specific requirements for the commissioning of these types of systems as outlined below:

Commissioning objectives:

- ensures that there is adequate control from day one
- proves that the system is providing adequate control
- provides a benchmark for later regular examinations and tests

The commissioning report

The commissioning report should always include the:

- date of the test
- duty holder's name and address
- commissioner's name, job title and employer

Ensure the report has been signed appropriately. You are responsible for ensuring your commissioner has demonstrated impartiality and competency.

Before using LEV

Before you start using your LEV system, ensure it has been checked and is suitable for the process when in use and compatible with the substances handled. The system should be installed correctly according to design, specification and any manufacturer's instructions, and meet specified technical performance.

For more information read chapter 5 of Controlling airborne contaminants at work: A guide to local exhaust ventilation (LEV) - HSG258.



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Core elements of LEV commissioning

Ensure that your LEV commissioner has:

- identified the LEV system and location – for example, LEV tester assigned a unique number
- assessed control and demonstrated whether the LEV system adequately controls exposure to the hazardous substances by:
- identifying the hazardous substances it is intended to control
- defining the process and how emissions occur
- defining the operating conditions
- detailing test methods and results
- defined benchmarks by providing performance targets such as flowrates and pressures, as reference for statutory examinations, maintenance and performance management
- ensured the LEV system is correctly balanced and achieving the performance required at every hood in a system

LEV condition

The commissioning report should detail the general condition of your LEV and the operating conditions at time of commissioning, including any external factors that might influence performance. It should also describe:

- the general configuration, components, fan specification, filter media, waste collection, make-up air supply and discharge arrangements, location, photographs of relevant parts and assign identification number
- any minor adjustments or repairs carried out to make the LEV system effective
- the methods used to judge performance, such as visual, smoke test, airflow measurements, pressure measurements, dust lamp, air sampling and filter testing

Commissioning results

You should be able to understand the information provided in the results. It should also give you enough information to update your user manual and logbooks after any defects have been resolved. The commissioner should include a simple summary describing the effectiveness of the system. It should also include:

- quantitative assessment results such as volume flow rates, face velocities, duct velocities, static pressures, fan speed, motor speed and electrical power consumption and filter performance (where applicable)
- qualitative assessment results, including suitable observations
- the results of any airflow indicators and relevant air sampling
- a simple schematic with test points
- calibration certification

The commissioner should also provide information on the frequency of testing, if different from the statutory 14 months.



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Training and information

Employees and operatives must be given suitable and sufficient information, instruction and training in the use of LEV.

What the law says

Employers must assess and control the risks from exposure under the Control of Substances Hazardous to Health Regulations (COSHH) (as amended). They must provide appropriate information and training to workers, and LEV systems should be tested at least every 14 months.

LEV systems also present additional risks. Employers must control the risks to safety from fire, explosions and substances corrosive to metals under The Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR). Employers must also consider compliance with The Control of Noise at Work Regulations 2005, to ensure that workers' hearing is protected from excessive noise.

Other regulations may also apply.

All Ventilation Systems - Certification of equipment

Under clause 11.21 The following test certificates should be assembled by the commissioning team and be available for inspection at any time during the contract period. They will form part of the handover information and should be placed in the commissioning manual:

- type test performance certificates for fans;
- pressure test certificates for:
 - heater-batteries;
 - cooling coils;
 - humidifier (if appropriate);
- type-test certificates for attenuators;
- type-test certificates for primary and secondary filters;
- individual test certificates for EPA or HEPA air filters.

Commissioning Records

When presenting the commissioning information, prior to independent validation the commissioning engineers should present the information against the compliance criteria of the commissioning brief and provide analysis or an assessment of compliance, not just the 'raw data'. If this is not practical then the data should be presented in a format to enable direct comparison to the stated design criteria.

Finally it is also critical that time allowances made within the programme are protected and not compressed or commenced before an installation is appropriately completed, as this will typically result in poor or failed processes and avoidable repetition and costs.

Template Derogation Protocol

For the

Identification, Justification, Recording, & Management

Of NHS standards & guidance including All HTM's/HBN's

Project & Operational

Derogations

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Derogation Protocol - Template

Introduction

The Issue of derogation or managing compliance to NHS guidance and standards is often a complex and potentially contentious issue with very long term implications. It can often involve legal issues, and the legal status of NHS specific guidance, and include a range of challenges.

This protocol outlines a process for all aspects to be considered and stages to follow when assessing and managing any potential derogation and is intended for use on all technical disciplines. It should be noted that a derogation in one area may have implications to other areas and all aspects need to be adequately identified, assessed, and documented when determining if a derogation is appropriate.

Definition of a derogation

In the simplest of forms (the dictionary definition) a derogation is an exemption from or relaxation of a rule or law or standard. As it applies to NHS guidance this exemption must be appropriately recorded with all implications understood and accepted by all parties, and approved at an agreed appropriate level, and where applicable alternative and equivalent mitigation agreed for the risks or implications of the derogation.

The need to demonstrate a robust process for agreeing any derogation from Technical Guidance is a core component of the assurance process and as such must provide a clear auditable trail.

Derogations to guidance will potentially increase risks to the organisation and potentially clinical activity or patient safety and should only be considered in exceptional circumstances. A schedule of derogations will be required for any/all project(s). This schedule is not a simple list of derogations which can be stored in a project file. It is required to be comprehensive and stored where it can be easily referenced by all stakeholders and kept under regular review and monitored to ensure it remains safe and appropriate.

While it is recognised that derogation is required in some cases, this must be risk-assessed, agreed and documented in order that it may be considered within the appraisal and approval process.

Derogations must be properly authorised by the project's senior responsible owner and informed and supported by appropriate technical, Infection Prevention & Control (IPC) and clinical advice (irrespective of a project's internal or external approval processes).

NHS Standards (mandatory, guidance, minimum standards, or simply best practice?)

Over the years the NHS has developed a comprehensive range of documents to provide guidance and advice for those involved in the design, construction and operation of healthcare facilities. These include Health Building Notes (HBN's), Health Technical Memorandum (HTM's), Health Guidance Notes (HGN's), Health Facilities Notes (HFN's) and Fire Practice Notes (FPN's), to name just a few, with some of these standards now archived or superseded. It must also be noted that within the devolved administrations there are a number of documents which contain subtly differing guidance, although the manner to which these should be managed can be universally applied.

Debate over the status of all of these documents can be highly contentious and generally is not definitively defined, however the following elements need to be considered;

Legal - Anecdotal evidence is that any failures to follow these documents has been used in court proceedings to find against hospital Trusts. These are most likely to be in connection with Health and Safety Executive prosecutions or possibly civil or medical malpractice cases. The various Devolved Administrations agree that the documents produced are guidance documents. They become legal requirements when they form part of a contract, however the guidance documents are generally considered as an Approved Code of Practice or at the very least good practice. This is summarised below from a general legal assessment of the status and use of these guidance standards;

'DoH guidance is relevant and is generally taken to be authoritative by the relevant authorities and the court, but this is not conclusive. However, if the guidance isn't followed, the Trust would be expected to justify why and to demonstrate what measures they took to satisfy the requirement of taking all reasonably practicable steps to protect people affected.'

Also the Health and Social Care Act (2012), Health and Social Care Act (Regulated Activities) Regulations 2014, and the Care Quality Commission (Registration) Regulations 2009 are all used as the basis for CQC registration and certification. As such these regulations are used as the reference by the CQC for all healthcare providers (including the NHS).

Health and Social Care Act 2008 (Regulated Activities) Regulations 2014: Regulation 15 These Regulations outline 20 key criteria under which all healthcare providers must operate. The intention of this regulation is to make sure that the premises where care and treatment are delivered are clean, suitable for the intended purpose, maintained and where required, appropriately located, and that the equipment that is used to deliver care and treatment is clean, suitable for the intended purpose, maintained, stored securely and used properly. Providers retain legal responsibility under these regulations when they delegate responsibility through contracts or legal agreements to a third party, independent suppliers, professionals, supply chains or contractors. They must therefore make sure that they meet the regulation, as responsibility for any shortfall rests with the provider.

15(1)(c) suitable for the purpose for which they are being used, Premises must be fit for purpose in line with statutory requirements and should take account of national best practice. Any alterations to the premises or the equipment that is used to deliver care and treatment must be made in line with current legislation and guidance. Where the guidance cannot be met, the provider should have appropriate contingency plans and arrangements to mitigate the risks to people using the service.'

Whilst the NHS guidance documents are not mandatory (unless specifically stated). They do however state that, any departures / derogations - including the measures implemented – should provide a degree of safety not less than that achieved by following the guidance set out in the various documents.

Minimum Standard or Best Practice – Often this is defined by the parties on either side of a debate around derogation. In practice the answer can be both, the guidance sets safe minimum standards which should not be relaxed where they impact patient safety or operational resilience including lifespan. However there isn't an alternative guidance document which could be described as best practice or 'compliance plus' standards, as the NHS guidance are generally considered by many as world leading, it is not unreasonable to describe them as best practice or even an Approved Code of Practice, at least in some circumstances.

Reasons or drivers to consider derogating

Typically there are many reasons cited to derogate from elements of even entire HTM's or HBN's, including but not limited to;

- Refurbishment of existing buildings, facilities or services (including the limitations associated with existing footprints etc.),
- Room allocation and sizes,
- Cost or budget allowance, (however cost should never be the sole consideration, as the budget should be set to reflect full compliance),
- Scope of project,
- Omission of compliance issue at business case/design/construction stage, or
- We haven't done it before or had it agreed on a previous scheme.

At times a derogation is a sensible and safe option to consider, however the full implications of any such consideration must be carefully balanced and a full and detailed record made of the impact, risks, cost consequences, practical limitations of a scheme or site, and a formal review and approval process. This process may also identify other forms of mitigation or control measures and should also include a post project 'in use' assessment to ensure the decision was justified with the benefit of operational hindsight.

What cannot be derogated

In HTMs and HBNs, modal verbs such as “must”, “should” and “may” are used to convey notions of obligation, recommendation or permission. The choice of modal verb will reflect the level of obligation needed to be compliant.

The following describes the implications and use of these modal verbs in HTMs/HBNs:

- “Must” is used when indicating compliance with the law. *These cannot be the subject of derogation.*
- “Should” is used to indicate a recommendation (not mandatory/obligatory), i.e. among several possibilities or methods, one is recommended as being particularly suitable – without excluding other possibilities or methods. These are elements which in extreme or specific circumstances could be considered for an area of derogation, however the organisation must be able to clearly demonstrate the circumstances/reasons for the derogation and if required provide evidence of what measures they took to satisfy the requirement of taking all reasonably practicable steps to protect people affected.
- “May” is used for permission, i.e. to indicate a course of action permissible within the limits of the HTM/HBN. Again, these elements could be considered for an area of derogation, however the organisation must be able to clearly demonstrate the circumstances/reasons for the derogation and if required provide evidence of what measures they took to satisfy the requirement of taking all reasonably practicable steps to protect people affected.

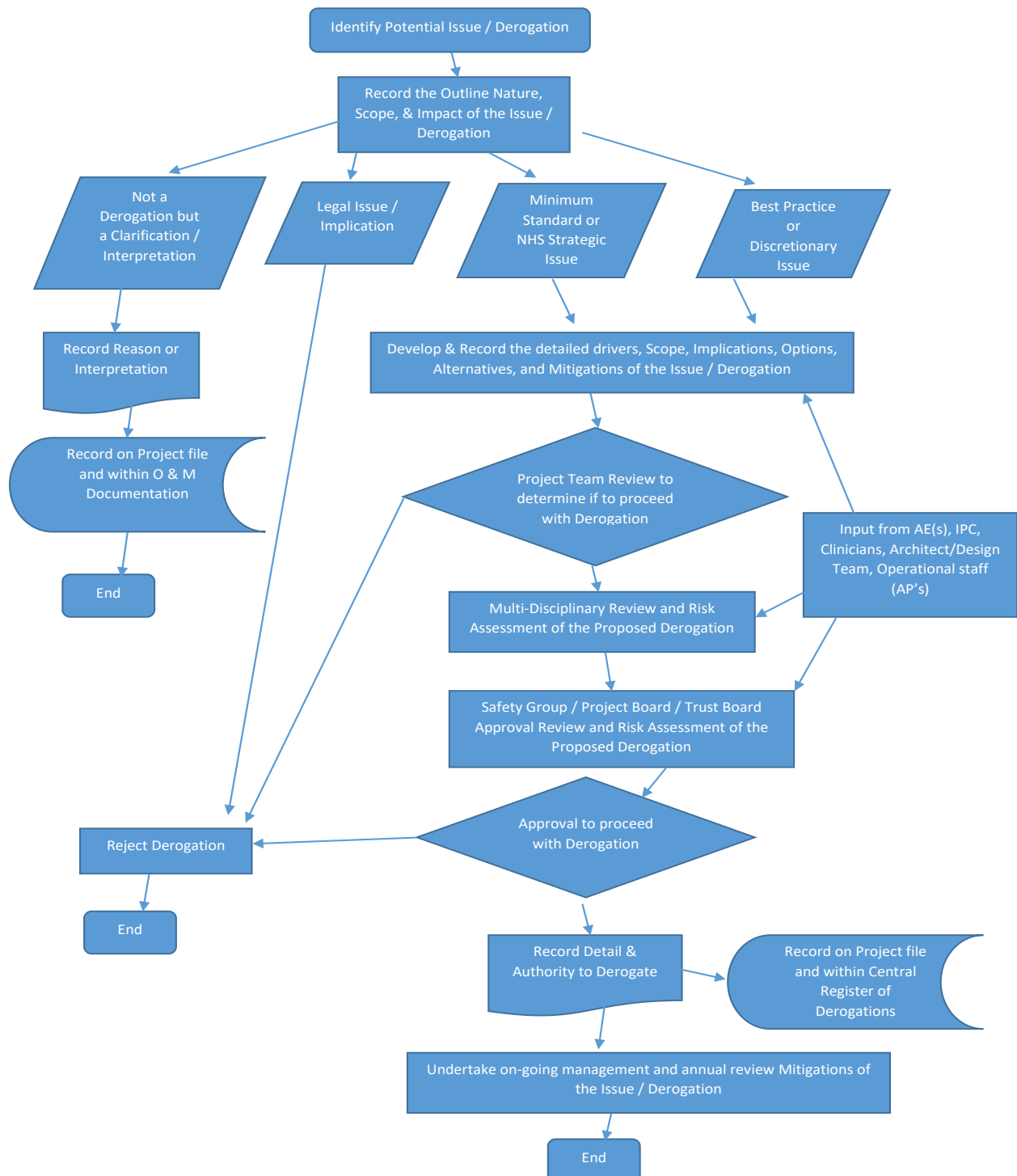
The process of derogation

When considering a derogation, the initial question needs to be clearly established as to who has the authority to agree a derogation and who ultimately holds the responsibility for the decision.

Once a derogation has been identified as potentially being required or desired the issue needs to be very clearly defined by the requester as to the exact nature and extent of the potential derogation. This should include full details of the clause or area of derogation, the reason(s) for the inability to conform to the relevant standard, the predictable consequences of the derogation and what, if any mitigation is being proposed to minimise or remove the residual risk of non-conformance.

Following the request the project team should log the request and undertake a review to assess the request with input from the appropriate working safety group and Authorised Person(s) for the discipline(s) involved. If considered necessary the opinion/comment from the Authorising Engineer for the specific discipline should also be sought to ensure all aspects have been suitably identified and considered. For the avoidance of doubt the review must be comprehensive and include representation for all stakeholders including clinicians, IPC, Operational Estates & Facilities and the Project team, it must not be done in isolation by the project team.

Derogation Flow Diagram



Essential Considerations

The review process must consider a wide range of potential implications and consequences including but not limited to;

- Patient, staff, or visitor safety
- Patient, staff, or visitor comfort
- Maintainability
- Changes in guidance/best practice since publication of an HTM or HBN
- Advances in technology since publication of an HTM or HBN
- Clinical Activity and clinical process/development or creep
- Timescales (both in terms of project programme and lifespan of the development)
- Practical limitations (e.g. space and existing building restrictions)
- Life span and whole life costings
- Energy consumptions and running costs
- Cost (reduced capital costs must not be put ahead of whole life or revenue costs)

Risk Assessment

Once all of these elements have been considered and the scope of the impact of the potential derogation agreed and risk based assessment should be completed to enable the ultimate decision to be made by the Designated Person for the respective system/service with a full understanding of the consequences of the approval or rejection decision.

Records

A full and detailed schedule must be developed and retained for all proposed derogations or clarifications considered during a project or scheme. This schedule should be comprehensive and include as a minimum the following information (per derogation);

Reference No of Standard	<i>For example HBN/HTM reference</i>
Specific Clause Reference	
Derogation/Clarification	<i>Details of what is being proposed for derogation including the exact extent and scope of the derogation requirement.</i>
Derogation Reason/Driver	<i>Details of the reason/explanation of why, extent/impact and details of any proposed alternative design solutions.</i>
Derogation Proposed by	<i>Name of individual or company proposing/requesting the derogation</i>
Date	
Comments by Project team lead	<i>Name of individual with details/commentary to evidence initial design review and a recommendation to approve or reject proposed derogation.</i>
Date	
Comments by Authorised Person (AP)	<i>Name of individual with details/commentary to evidence any recommendation to approve or reject proposed derogation.</i>
Date	
Comments by Authorising Engineer (AE)	<i>Name of individual with details/commentary to evidence any recommendation to approve or reject proposed derogation.</i>
Date	
Working Safety Group (if applicable) comments/risk assessment	<i>Details/commentary to evidence any recommendation to approve or reject proposed derogation.</i>
Date	
Risk Assessment / Details of potential consequences	<i>Details of any risks or potential consequences as a result of the proposed derogation</i>
Mitigation / Control measures to address identified risk elements.	<i>Details of any mitigation or supplementary control or management issues which could be used to reduce or address identified risks</i>
Comments/Review Recommendations for Board Level Designated Person consideration	<i>Consensus assessment of all stakeholders to the proposed derogation with if practical a recommendation to accept or reject.</i>
Executive Board Level Designated Person assessment	<i>Sign off by the DP or similar level board member to accept or reject derogation</i>
Date	
Status	<i>Approved or rejected, (including a time limit if appropriate).</i>

For the avoidance of doubt the Duty Holder or Designated Person MUST make the final decision to accept or reject a request for derogation even where that decision is informed by advice from either external advisors or working multidisciplinary safety groups.

This schedule would form the basis of a live document register which should be accessible to all stakeholders for review purposes and information. Where considered necessary the schedule or register of derogations may also lead to the inclusion onto the organisations risk register to ensure approved derogations do not get overlooked or forgotten.

Recording file structure

All approved derogations must be kept in such a manner as to enable regular (at least annual) review to ensure the decisions taken remain appropriate for any potential usage changes. As such it is recommended that a filing structure or database system is developed to centrally record and manage derogations. One approach is to allocate a referencing system to any agreed derogation which incorporates the following details as a minimum;

- Site reference
- Building reference,
- Level or floor reference (this could be all floors if it applies to an entire building)
- Guidance reference (HTM or HBN reference)
- Date

This file structure or referencing system should enable specific elements for example any ventilation derogations (HTM 03-01) to be filtered or chosen as a condensed schedule to enable the respective working group to undertake an annual review exercise. The specific clause and derogation detail and reasoning would be stored under this searchable file structure.

On-Going Management & Review of Agreed Derogations

The majority of derogations tend to be considered in connection to capital investment projects, however there are also circumstances when operational derogations are required. These can relate to a relaxation of testing or inspection, due to resource shortages or other operational considerations such as access or external circumstances (like a global pandemic). Under these circumstances operational decisions are taken, however it is rare to find these incidents recorded as derogations whether temporary or permanent.

All derogations need to be kept under constant and on-going review to ensure that operational changes, clinical activity or condition surveys and investment planning is undertaken with the full knowledge that areas of the estate may not be fully compliant. An example of this could include an area converted to manage emergency admissions due to the pandemic becoming a more long-standing or permanent facility even after immediate pressures have passed. A non-compliant heat recovery unit (which doesn't conform the HTM 03-01 standards for AHU's) intended as a short-term fix (say 18-month period) becomes a semi-permanent ventilation solution to the area. Or the use of temporary tent style isolation facilities become a permanent solution, when a more substantial permanent provision could be developed and installed to provide a safer and more robust solution. In emergency situation people can make sub-optimal decisions and these issues should be kept under review to ensure they remain appropriate or with the benefit of hindsight lessons are learned to avoid repetition.

One option for this review process could be to incorporate the review into the standing agenda of the relevant working safety group. This would provide a forum for the majority if not all of the agreed derogations which would be held on a central register. It may also be appropriate to ensure that any agreed derogation is recorded on the Trust or divisional/Departmental risk register as an accepted risk to ensure both operational and management staff are aware of the status and accepted associated risks.

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Appendix 1 - Derogation Recording Form Template

The following form is an example of the type of information required and details/signatures required to record an approved derogation.

Element	Detail / Comment	Signature
<i>HTM/HBN Reference No of Standard</i>	<i>For example HBN/HTM reference</i>	
<i>Specific Clause Reference</i>		
Derogation/Clarification	<i>Details of what is being proposed for derogation including the exact extent and scope of the derogation requirement.</i>	
Derogation Reason/Driver	<i>Details of the reason/explanation of why, extent/impact and details of any proposed alternative design solutions.</i>	
Derogation Proposed by	<i>Name of individual or company proposing/requesting the derogation</i>	
Date		
Comments by Project team lead	<i>Name of individual with details/commentary to evidence initial design review and a recommendation to approve or reject proposed derogation.</i>	
Date		

Comments by Authorised Person (AP)	<i>Name of individual with details/commentary to evidence any recommendation to approve or reject proposed derogation.</i>	
Date		
Comments by Authorising Engineer (AE) (if considered necessary)	<i>Name of individual with details/commentary to evidence any recommendation to approve or reject proposed derogation.</i>	
Date		
Working Safety Group (if applicable) comments/risk assessment	<i>Details/commentary to evidence any recommendation to approve or reject proposed derogation.</i>	
Date		
Risk Assessment / Details of potential consequences	<i>Details of any risks or potential consequences as a result of the proposed derogation</i>	

Mitigation / Control measures to address identified risk elements.	<i>Details of any mitigation or supplementary control or management issues which could be used to reduce or address identified risks</i>	
Comments/Review Recommendations for Board Level Designated Person consideration	<i>Consensus assessment of all stakeholders to the proposed derogation with if practical a recommendation to accept or reject.</i>	
Executive Board Level Designated Person assessment	<i>Sign off by the DP or similar level board member to accept or reject derogation</i>	
Date		
Status	<i>Approved or rejected, (including a time limit if appropriate).</i>	



**Bundle of documents for Oral hearings commencing from 16 September 2025 in
relation to the Queen Elizabeth University Hospital and the Royal Hospital for
Children, Glasgow**

**Bundle 53
Water and Ventilation Audit Reports and Domestic Water System Commissioning
Review Report by Andrew Poplett and associated papers**