

CONTENTS

INTRODUCTION	Page 2
AGREED POLICES WITH OSJCT	Page 3 - 4
REVIEW COMPLIANCE	Page 5
SITE REVIEW	Page 6- 13
SELECTED HOT & COLD WATER TEMPERATURES	Page 14
RECOMMENDATIONS & SUMMARY	Page 15 - 16

INTRODUCTION

Order of St John Care Trust Head Office:	Wellingore Hall Wellingore Lincoln LN5 0HU
Name of Care Home:	Grevill House
Address of Care Home:	Grevill House 270 London Road Charlton Kings Cheltenham Gloucestershire GL52 6YL
Site contact:	Joe Caine
Site telephone number:	01242 512964
Last Risk Assessment carried out by:	Freeston Water Treatment Ltd Mr Chris Wilson MWM Society
Date of Risk Assessment:	8th October 2010
Date of previous Review:	N/A
Date of new Review:	19th December 2012
Review carried out by:	Freeston Water Treatment Ltd Pete Smith MWM Society

This Review has been carried out in accordance with ACoP L8 'The control of legionella bacteria in water systems' (Approved Code of Practice and Guidance) and BS 8580 (Water quality – Risk assessments for Legionella Control – Code of Practice).

AGREED POLICES WITH OSJCT

Task	Carried out in Agreement with OSJCT
<p>Showerhead cleaning and descaling (large homes with ensuite rooms and served via a water softener)</p>	<p>En-suite homes six monthly visual inspection of all showerheads (any scaled showerheads are cleaned and descaled)</p> <p>Annually every showerhead is cleaned and descaled.</p> <p>This routine is carried out as showers are supplied by water softeners in larger homes.</p>
<p>Cold water storage tank cleaning & disinfection</p>	<p>Freeston Water Treatment will clean & disinfect all tanks on an annual basis.</p>
<p>Six monthly storage tank inspections</p>	<p>This is carried out only if access is safe to the storage tank without the possible cause of external contamination being created.</p> <p>Nearest cold water down services is taken to determine tank temperature & nearest mains outlet.</p>
<p>Legionella water sampling</p>	<p>Carried out if two consecutive months of low hot or high cold water temperatures are recorded.</p>
<p>Remedial works recommended in risk assessments.</p>	<p>Recommended remedial work has been identified and a programme of work has been scheduled to be carried out by the mechanical engineering contractors.</p>

Task	Carried out in Agreement with OSJCT
Certification i.e. Cold water storage cleaning Sampling certificates Temperature records	Refer to online OSJCT client area on Freeston website. Each county has a unique login and password
Non Conformance Records	A copy of non-conformities is sent to the Freeston Water Treatment Ltd Southampton office for processing. They are then forwarded to Graham Hipwell, the respective county surveyor and the Freeston Water Treatment technician that undertakes the routine Legionella control visits.

REVIEW COMPLIANCE

The Review was commissioned in order to establish whether the Legionella Risk Assessment previously completed for the Site is still current. Previous recommendations for remedial works are reviewed and the Legionella Management System Records checked for ACoP L8 compliance. General and specific observations on the systems made during the course of the Survey are also recorded and the more general requirements of L8 are also commented on where applicable.

The specific observations made in this Review, together with the most recent Risk Assessment should be read in conjunction with the practices and procedures detailed in the recommendations section and also with ACoP L8.

The Assessment should be reviewed regularly (at least every two years) and whenever there is reason to suspect it is no longer valid. An indication of when to review the Assessment and what needs to be reviewed should be recorded.

This may result from, for example:

Changes to the water system or its use

Changes to the use of the building in which the water system is installed

The availability of new information about risks or control measures

The results of checks indicating that control measures are no longer effective

A case of Legionnaires' disease/Legionellosis is associated with the system

SITE REVIEW

This Review relates to observations made and information supplied from the existing Risk Assessment together with information supplied by others.

LEGIONELLA MANAGEMENT RECORDS

Is there a copy available of the last Risk Assessment carried out on the domestic water systems?	Yes	The original risk assessment was seen at the time of this review filed in the administration office.
Is there a domestic water systems logbook in place?	Yes	A water systems log book was seen to be in use at the time of this review; this was also filed within the administration office. The logbook was seen to be in a poor condition due to incorrect filing and hole punching in report sheets.
Is the Management Structure, including Duty Holder, Responsible Person and deputies properly recorded?	Yes	The Duty Holder, Responsible person and Deputies have been nominated in writing within the logbook documentation.
Are contact details recorded within the logbook documentation?	Yes	The contact details for the Duty Holder, Responsible person and Deputies was seen written within the logbook documentation.

TRAINING AND COMPETENCE

Are there any records of appropriate Legionella Management Training for Staff?	No	OSJCT propose to undertake suitable training during the current year of the contract (year 3).
Are any staff which carry out Legionella Management related duties considered to be fully competent for the tasks they undertake?	Not Known	Ensure documentary evidence can be produced and verified to show relevant experience.
Are any contractors and their staff which carry out Legionella Management related duties considered to be fully competent for the tasks they carry out?	Yes	Contractors Freeston Water Treatment must make available details of the training and competence of their staff.

MONITORING

Is hot water temperature monitoring being carried out on a monthly basis and results recorded within the logbook documentation?	Yes	Monthly temperature monitoring of the domestic hot water system is being carried out and recorded in the relevant section of the logbook.
Is cold water temperature monitoring being carried out on a monthly basis and results recorded within the logbook documentation?	Yes	Monthly temperature monitoring of the domestic cold water system is being carried out and recorded in the relevant section of the logbook.
Are hot water calorifier flow temperatures being taken and results recorded within the logbook documentation?	Yes	Monthly temperature monitoring of the hot water calorifier storage is being carried out and recorded in the relevant section of the logbook.
Are hot water calorifier return temperatures being taken and results recorded within the logbook documentation?	Yes	Monthly temperature monitoring of the hot water calorifier return temperatures is being carried out and recorded in the relevant section of the logbook.
Have any non-conforming/out of tolerance results been recorded?	Yes	Continue to monitor and take appropriate corrective actions.
Has action been taken to take corrective action for out of tolerance results?	Yes	Continue to monitor and take appropriate corrective actions.
Are monitoring records recorded within the logbook documentation up to date?	Yes	Monitoring was seen to be up to date as of November 2012 at the time of this review.
Is weekly flushing of infrequently used outlets being carried out and recorded within the logbook documentation?	Yes	Records indicate this has been carried out up till 28 th November 2012.

COLD WATER STORAGE

Have cold water storage tanks, where fitted, been inspected, cleaned and disinfected annually?	Yes	Storage tanks are being cleaned and disinfected annually.
Has storage tank cleaning and disinfection certification been filed within the logbook documentation?	Yes	Cleaning and disinfection certificates are available to view on the client area on the web site for 2012.
Storage tank cleaning and disinfection was last carried out on?		Storage tanks were last cleaned and disinfected in October 2012.
Are tank water temperatures being recorded on a six-monthly basis?	No	No records were seen within the logbook documentation.

SHOWERS

Are showerheads being cleaned and descaled on a quarterly basis or as required?	Yes	There is an agreed policy between OSJCT & Freeston Water Treatment for undertaking shower cleaning; please refer to page 3.
Is showerhead cleaning and descaling records up to date?	Yes	There is an agreed policy between OSJCT & Freeston Water Treatment for undertaking shower cleaning. Records can be located within the logbook and/or on the OSJCT client area on the Freeston website; please refer to page 3. Showers are checked on a monthly basis and recorded in the logbook.

DRAWINGS

Are schematic drawings up to date with any changes made to the domestic water systems?	Yes	Schematic diagrams of the domestic water systems were seen to be filed within the risk assessment report at the time of this review.
Are schematic drawings suitable and show all relevant storage and system details?	Yes	Schematic diagrams within the risk assessment show all relevant areas.

THERMOSTATIC MIXING VALVES

Are TMV's, where fitted, being serviced and maintained?	No	There is an agreement between OSJCT & the Mechanical Engineer Contractor MITIE to service TMV's as per manufacturer's recommendations.
Is documentation available to indicate when TMV's were last serviced / maintained?	No	I was informed by the site maintenance man that no TMV servicing has been carried out for at least two years.

SAMPLING

Has any Legionella or Bacteriological water sampling been carried out on the domestic water systems?	Yes	There is an agreed policy between OSJCT & Freeston Water Treatment for collecting water samples; please refer to page 3. Last water samples were taken in February 2012.
Have Legionella or Bacteriological water sampling test results if taken been filed within the logbook documentation?	No	Water sampling test results were not seen filed within the relevant section of the water systems logbook but are available to see on the OSJCT client area on the Freeston Water Treatment website.

REMEDIAL WORKS

Has any remedial works identified within previous risk assessments / reviews been carried out?	Yes	Remedial works highlighted within previous risk assessment and reviews has been carried out or is an ongoing programme; see page 3.
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ANCILLARY EQUIPMENT

Is there any ancillary equipment on site?	Yes	Water Softener
Is ancillary equipment being serviced and maintained to the manufacturer's recommendations?	Yes	Water softener was last serviced in November 2012; the work report was seen filed in the logbook documentation.

HOT WATER STORAGE

Hot water storage within Grevill House is supplied by two gas fired calorifiers that are located within the Boiler Room of the adjoining building, the Ashley Intermediate Care Centre. The calorifiers are manufactured by Lochinvar and are of a steel construction and have factory fitted insulation under the outer metal casings both calorifiers are gas fired. Both calorifiers have a return system fitted with two circulation pumps fitted on the common return pipe; both calorifiers have de-stratification pumps fitted.

At the time of the survey the following temperatures were recorded:

Calorifier No.1	Calorifier Flow	52.0°C	Not Satisfactory
	Calorifier Return	51.0C	Satisfactory
Calorifier No.2	Calorifier Flow	56.0°C	Not Satisfactory
	Calorifier Return	51.0°C	Satisfactory

Both hot water calorifiers were found to have low storage temperatures at the time of this review; this has been reported at the time of the November site visit and should be investigated.

COLD WATER STORAGE

Domestic cold water storage within Grevill House is by two cold water storage cisterns located within the Roof Space. The cold water storage cisterns are of a sectional, GRP construction with foam insulation to the lid and body and are fed mains cold water through inlet float valves. Each cistern has a screened lid vent and there are insect screens on both the overflow and the overflow warning pipes.

Both water storage tanks were last cleaned and disinfected in October 2012.

SELECTED HOT & COLD WATER TEMPERATURES TAKEN AT REVIEW

Domestic water services should operate at temperatures that prevent the proliferation of Legionella. L8 specifies that hot water should be stored at no less than 60°C and distributed at no less than 50°C, obtainable at user outlets within one minute of opening. Cold water should be stored and distributed at no more than 20°C.

The following hot and cold water temperatures were taken at selected outlets as follows:-

Location	Hot °C	Cold °C	Mixed °C	Comments
Ground Floor Main Kitchen	50.0	8.0		Satisfactory
Ground Floor No.17 WC	48.0	8.5	46.1	Not Satisfactory
Ground Floor Housekeeping Cupboard	55.5	8.7		Satisfactory
Ground Floor No. 33 WC	43.0	9.7	40.3	Satisfactory
First Floor Room 88	48.0	8.9	40.3	Satisfactory
First Floor Room 116	45.0	8.0	41.3	Satisfactory

Hot water temperatures were found to be low probably due to calorifier low storage temperatures; this must be addressed at the earliest opportunity.

RECOMMENDATIONS

Continue monthly temperature monitoring of all domestic sentinel hot and cold water and additional outlets and continue to record in water systems logbook.

Continue weekly flushing of all infrequently used outlets and record in water systems logbook when carried out.

Start six monthly water storage tank inspections and record water temperatures in water systems logbook.

Continue to monitor hot water calorifier flow and return temperatures monthly and record; ensure both calorifiers are adjusted to store hot water at 60.0°C or more at all times.

Continue to ensure that all showerheads and hoses are cleaned / inspected as detailed in the agreed policies on page 3 and recorded when carried out.

Ensure all TMV's are serviced as the agreement between OSJCT & the Mechanical Engineer Contractor MITIE to service TMV's as per manufacturer's recommendations.

Training in Legionella Awareness and Responsibilities should be arranged for appropriate staff.

SUMMARY

I would recommend that the current Legionella control regimes for Grevill House continue. The risk assessment and water systems logbook were found to be filed in the administration office; the current logbook was seen to be in a poor order but was seen to be up to date as of October 2012; the monitoring records for November will be inserted into the logbook at the next site visit.

Both hot water calorifiers were found to have low storage temperatures at the time of this review; records indicated this was the case in November with no.1 calorifier. I would recommend both calorifiers be adjusted to store hot water at 60.0°C or more and maintain 50.0°C or more on the return system; this should be addressed at the earliest opportunity.