



HYMANS  ROBERTSON

Wiltshire Pension Fund

Actuarial valuation as at 31 March 2019

Valuation report

31 March 2020

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Valuation report

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1 Introduction

Background to the actuarial valuation

We have been commissioned by Wiltshire Council (“the Administering Authority”) to carry out an actuarial valuation of the Wiltshire Pension Fund (“the Fund”) as at 31 March 2019 as required under Regulation 62 of the Local Government Pension Scheme Regulations 2013 (“the Regulations”).

The actuarial valuation is a risk management exercise with the purpose of reviewing the current funding plans and setting contribution rates for the Fund’s participating employers for the period from 1 April 2020 to 31 March 2023. This report summarises the outcomes of the valuation and the underlying advice provided to the Administering Authority throughout the valuation process.

This summary report is the culmination of other communications in relation to the valuation, in particular:

- Our [2019 valuation toolkit](#) which sets out the methodology used when reviewing funding plans;
- Our assumptions papers dated 15th July 2019, which discuss the discount rate, salary growth and demographic assumptions;
- Our Initial Results Report dated 28th February 2020 which outlines the whole fund results and inter-valuation experience;
- The Funding Strategy Statement which details the approach taken to adequately fund the current and future benefits due to members.

¹ Technical Actuarial Standards (TASs) are issued by the Financial Reporting Council (FRC) and set standards for certain items of actuarial work.

Reliances and Limitations

This report has been prepared for the sole use of Wiltshire Council in its role as Administering Authority of the Fund to provide an actuarial valuation of the Fund as required under the Regulations. It has not been prepared for any other third party or for any other purpose. We make no representation or warranties to any third party as to the accuracy or completeness of this report, no reliance should be placed on this report by any third party and we accept no responsibility or liability to any third party in respect of it.

Hymans Robertson LLP is the owner of all intellectual property rights in this report. All such rights are reserved.

The totality of our advice complies with the Regulations as they relate to actuarial valuations.

The following Technical Actuarial Standards¹ are applicable in relation to this report and have been complied with where material:

- TAS 100 – Principles for technical actuarial work;
- TAS 300 – Pensions.



Use of this report by other parties

This report is addressed to the Administering Authority of the Fund only. We appreciate that other parties may also seek information about the 2019 valuation process and methodology. We would encourage such parties to refer to the following publicly available documents for further information:

- The Fund's Funding Strategy Statement;
- The Fund's Investment Strategy Statement;
- Published meeting papers and minutes for the quarterly meetings of the Fund's Pensions Committee.

Considering these papers alongside this valuation report will provide a more complete view of the Fund's funding strategy and decision-making process surrounding this. These documents are available on the Fund's website (<https://wiltshirepensionfund.org.uk/>) or on request.

2 Valuation approach

Employer contribution rates

The purpose of the valuation is to review the current funding strategy and ensure the Fund has a contribution plan and investment strategy in place that will enable it to pay members' benefits as they fall due.

Valuations for open defined benefit multi-employer pension funds such as the Wiltshire Pension Fund are complex. Firstly, the time horizons are very long; benefits earned in the LGPS today will be paid out over a period of the next 80 years or more, and new members will continue to join in the future. Secondly, as they depend on unknowns such as future inflation and life expectancy, the actual value of future benefit payments is uncertain. Finally, to keep contributions affordable, the Fund invests in return seeking assets which have higher levels of future volatility.

Given the above and that the future cannot be predicted with certainty, employer contribution rates can only ever be an estimate. However, the valuation approach adopted uses an understanding of the Fund, and the uncertainties and risks discussed above, to quantify the likelihood of the contribution plan and investment strategy for each employer being sufficient to fund future benefits.

This is achieved in practice by following the process outlined below.

Step 1: The Fund sets a funding target (or funding basis) for each employer which defines the estimated amount of assets to be held to meet the future benefit payments.

Step 2: The Fund sets the funding time horizon over which the funding target is to be achieved.

Step 3: The Fund sets contributions that give a sufficiently high likelihood of meeting the funding target over the set time horizon.

These three steps are central to the “risk-based” approach to funding which is described in Guide 5 of our [2019 valuation toolkit²](#).

The risk-based approach uses an Asset Liability Model (described in Guide 6) of the [2019 valuation toolkit](#) to project each employer's future benefit payments, contributions and investment returns into the future under 5,000 possible economic scenarios. Future inflation (and therefore benefit payments) and investment returns for each asset class (and therefore asset values) are variables in the projections. Further details of these variables are provided in Appendix 2. The investment strategies underlying the projection of employer asset values are provided in Appendix 1.

By projecting the evolution of an employer's assets and benefit payments 5,000 times, a contribution rate can be set that results in a sufficient number of the future projections being successful i.e. meeting the funding target by the funding time horizon.

The risk-based approach to setting employer contributions allows the Fund and its employers to understand and quantify the level of risk inherent in funding plans, something that is not possible using a single set of assumptions alone.

Further detail on the approach to calculating contributions for individual employers, including the parameters used in the three steps for each type of employer, is set out in the Funding Strategy Statement.

² https://www.hymans.co.uk/media/uploads/LGPS_2019_Valuation_Toolkit_Guides.pdf

Funding position as at 31 March 2019

The valuation also offers an opportunity to measure the Fund's funding position as at 31 March 2019. Whilst this measurement has limited insight into understanding the long term ability to be able to pay members' benefits, it is a useful summary statistic.

For the purposes of this valuation we have adopted a "mark to market" approach, for measuring the funding position, meaning that the Fund's assets have been taken into account at their market value and the liabilities have been valued by reference to a single set of assumptions based on market indicators at the valuation date. These assumptions are detailed in Appendix 2. As we have taken a market-related approach to the valuation of both the assets and the liabilities, we believe that they have been valued on a consistent basis.

Significant events

The figures in this report are based on our understanding of the benefit structure of the LGPS in England and Wales as at 31 March 2019. Details can be found at <http://www.lgpsregs.org/>.

McCloud ruling

The LGPS benefit structure is currently under review following the Government's loss of the right to appeal the McCloud and other similar court cases. At the time of writing, the format and scope of any benefit changes in light of the McCloud ruling is still unknown. In line with the [advice issued by the Scheme Advisory Board in May 2019](#), details on how the Fund has made allowance for the uncertainty associated with the McCloud ruling is set out in the Funding Strategy Statement, specifically:

- Contribution rates – the Fund has made no explicit additional allowance for the McCloud ruling in the calculation of contribution rates as the Fund believes the impact of McCloud can be absorbed within the planned prudence margins (namely within the likelihood of success

used). Once the outcome of the McCloud ruling case is known, the Fund may revisit the contribution rates set to ensure they remain appropriate

- Cessation valuations – the Fund is currently updating its cessation policy to set out how the McCloud ruling is to be allowed for in the calculation of finalised cessation valuations.

Indexation and equalisation of Guaranteed Minimum Pensions (GMP)

As a result of the Government's introduction of a single-tier state pension (STP) there is currently uncertainty around how who funds certain elements of increases on GMPs for members reaching State Pension Age after 6 April 2016.

As part of the introduction of STP, the Government confirmed that public service pension schemes, including the LGPS, will be responsible for funding all increases on GMP as an 'interim solution'. In their [January 2018 consultation response](#), HM Treasury confirmed that the 'interim solution' will continue to remain in place up to 5 April 2021. Thereafter the Government's preferred approach is to convert GMP to scheme pension.

For the 2019 valuation, given the Government's preference for conversion to scheme benefits, we have assumed that all increases on GMPs for members reaching State Pension Age after 6 April 2016 will be paid for by LGPS employers. This has served to increase the value placed on the liabilities.

The Government have also stated that their preferred long term indexation solution of converting GMP to scheme pension will also meet the requirements of equalisation.

3 Valuation results

Employer contribution rates

The key objective of the Fund is to set employer contributions that are likely to be sufficient to meet both the cost of new benefits accruing and to address any funding surplus or deficit relative to the funding target over the agreed time horizon. A secondary objective is to maintain relatively stable employer contribution rates.

In order to meet the above objectives, the methodology set out in Section 2 has been used to set employer contributions from 1 April 2020.

Employer contributions are made up of two elements:

- a) the estimated cost of future benefits being built up each year, after deducting members' own contributions and including an allowance for the Fund's administration expenses. This is referred to as the "*Primary rate*", and is expressed as a percentage of members' pensionable pay; plus
- b) an adjustment for the difference between the Primary rate above, and the total contribution the employer needs to pay, referred to as the "*Secondary rate*". In broad terms, the Secondary rate is in respect of benefits already accrued at the valuation date. The Secondary rate may be expressed as a percentage of pay and/or a monetary amount in each year.

The Primary rate and Secondary rate for every contributing employer in the Fund is set out in the Rates and Adjustments Certificate in Appendix 3.

Each employer has been certified primary and secondary contributions that are appropriate for that employer's circumstances and which reflects that employer's experience. However, broadly speaking:

- Primary contribution rates have been subject to some upwards pressure as a result of a weaker outlook for future investment returns.
- Secondary contributions have decreased as employer assets have increased since 31 March 2016, reducing any extra contributions required in respect of benefits accrued to the valuation date.

The table below summarises the whole fund Primary and Secondary Contribution rates at this valuation. The Primary rate is the payroll weighted average of the underlying individual employer primary rates and the Secondary rate is the total of the underlying individual employer secondary rates, calculated in accordance with the Regulations and CIPFA guidance. The whole fund Primary and Secondary contributions calculated at the 2016 valuation of the Fund are shown for comparison.

	Last Valuation 31 March 2016		This Valuation 31 March 2019	
Primary Rate (% of pay)	19.4%		22.0%	
Secondary Rate (£)	2017/18	17,165,000	2020/21	10,973,000
	2018/19	19,998,000	2021/22	11,079,000
	2019/20	22,995,000	2022/23	10,844,000

The Primary rate includes an allowance of 0.8% of pensionable pay for the Fund's expenses (0.5% at the 2016 valuation). Note that the expense allowance is calculated based on the average administration expenses seen in the Fund's accounts over the last 3 years.

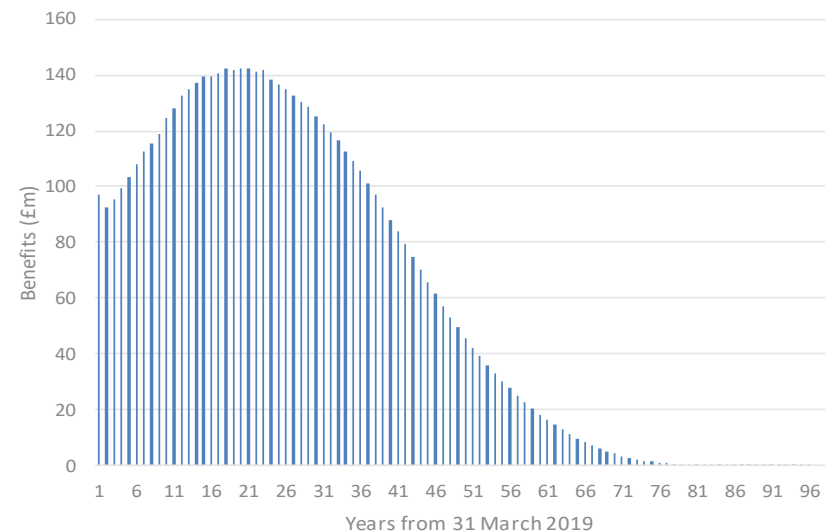
The total expected contributions to be received by the Fund over the period 1 April 2020 to 31 March 2023 is higher in monetary terms than the expected contributions over the period 1 April 2017 to 31 March 2020.

The average employee contribution rate is 6.1% of pensionable pay (6.0% at the 2016 valuation).

Funding position as at 31 March 2019

The funding position is a summary statistic often quoted to give an indication of the health of the fund. It is limited as it provides only a snapshot in time and is based on a single set of assumptions about the future. To measure the funding position at 31 March 2019, we compare the value of the Fund's assets on that date against the expected cost (including an allowance for future investment returns) of all the future benefit payments accrued up to the valuation date (the liabilities).

The chart below details the projected future benefit payments based on the membership data summarised in Appendix 1 and the demographic, salary and benefit increases assumptions summarised in appendix 2.



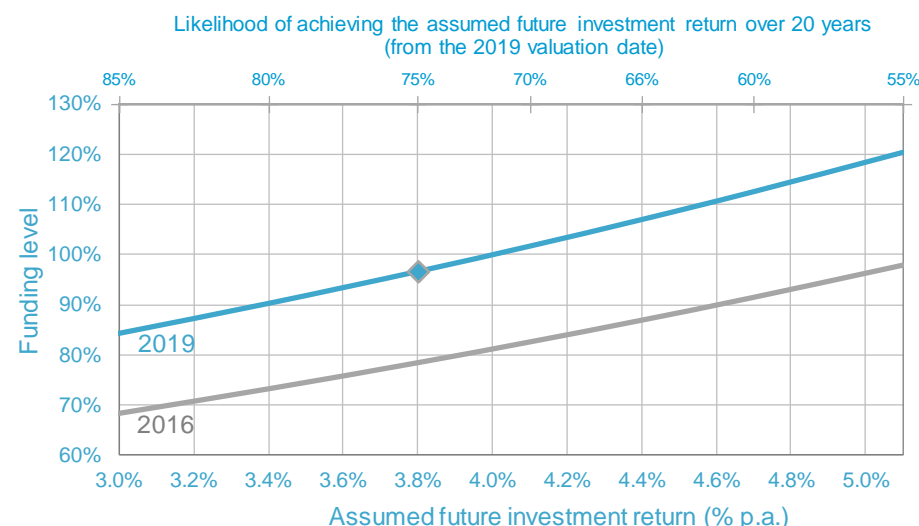
Using an assumption about the future investment return generated from the Fund's assets then allows a value to be placed on these payments in today's money; the liabilities. The higher the assumed investment return, the lower the liability value and therefore the higher the funding level.

The value placed on the liabilities is extremely sensitive to the investment return assumption. Based on the Fund's current investment strategy (detailed in Appendix 1) and the same model used in the contribution rate calculations, it is estimated that:

- There is a 50% likelihood of the Fund's investments achieving at least an annual return of 5.3% p.a. over the next 20 years;
- There is a 75% likelihood of the Fund's investments achieving at least an annual return of 3.8% p.a. over the next 20 years; and

- There is an 80% likelihood of the Fund's investments achieving at least an annual return of 3.4% p.a. over the next 20 years.

The following chart shows how the funding level varies with the future investment return assumption (blue line). For comparison, the funding level associated with the same choice of investment return assumption at the 2016 valuation is also shown (grey line).



From this chart, we can see that:

- Regardless of the investment return assumption used, there has been a genuine improvement in the funding position at 31 March 2019 compared to the last valuation, reflecting an increase in the assets held today per pound of benefit to be paid out in future;
- The funding position would be 100% if future investment returns were around 4.0% p.a. (at 2016, the investment return would have needed to

be 5.2% p.a.). The likelihood of the Fund's assets yielding at least this return is around 71%;

- If future investment returns were 5.3% p.a. then the Fund currently holds sufficient assets to meet 125% of the accrued liabilities. The likelihood of the Fund's assets yielding at least this return is 50%. 125% can therefore be considered the "best estimate" funding position.

Reported funding position


The valuation outputs are more meaningful when stakeholders can understand the likelihood, and hence the level of prudence, attached to them. The above chart does this for the measurement of the funding position.

However, there is still a requirement to report a single funding position at 31 March 2019. This reported position must include a margin of prudence.

For the purpose of reporting a funding level and an associated funding surplus/deficit for the 2019 valuation, an investment return of 3.8% p.a. has been used. It is estimated that the Fund's assets have a 75% likelihood of achieving this return.

The resulting funding position is as follows:

Valuation Date	31 March 2016	31 March 2019
Past Service Liabilities	(£m)	(£m)
Employees	690	777
Deferred Pensioners	543	688
Pensioners	1,013	1,215
Total Liabilities	2,246	2,680
Assets	1,831	2,589
Surplus / (Deficit)	(415)	(92)
Funding Level	82%	97%



There has been an improvement in the reported funding level since 31 March 2016 from 82% to 97% and a reduction in the funding deficit from £415m to £92m.

A breakdown of the key factors that have influenced the reported funding position from 31 March 2016 to 31 March 2019 are detailed overleaf.

Change in the surplus/deficit position	Assets (£m)	Liabilities (£m)	Surplus / (Deficit) (£m)
Last valuation at 31 March 2016	1,831	2,246	(415)
Cashflows			
Employer contributions paid in	239		239
Employee contributions paid in	60		60
Benefits paid out	(253)	(253)	0
Net transfers into / out of the Fund*	26		26
Other cashflows (e.g. Fund expenses)	(8)		(8)
Expected changes in membership			
Interest on benefits already accrued		283	(283)
Accrual of new benefits		266	(266)
Membership experience vs expectations			
Salary increases greater than expected		5	(5)
Benefit increases less than expected		(0)	0
Early retirement strain (and contributions)	5	8	(3)
Ill health retirement gain		(6)	6
Early leavers greater than expected		(4)	4
Pensions ceasing greater than expected		(1)	1
Commutation less than expected		5	(5)
Other membership experience		31	(31)
Changes in market conditions			
Investment returns on the Fund's assets	688		688
Changes in future inflation expectations		72	(72)
Changes in actuarial assumptions			
Change in demographic assumptions (excl. longevity)		(5)	5
Change in longevity assumptions		(66)	66
Change in salary increase assumption		2	(2)
Change in assumed rate of investment returns		98	(98)
This valuation at 31 March 2019	2,589	2,680	(92)

* We have insufficient data to value the impact on the liabilities as a result of transfers in/out

Since the previous valuation, various events have taken place which affect the value placed on the liabilities, including:

- There is an interest cost of £283m. This is broadly three years of compound interest (or expected investment returns) at 4.0% p.a. applied to the previous valuation liability value of £2,246m. The benefits that have been accrued to the valuation date are three years closer to payment at 31 March 2019 than they were at 31 March 2016, meaning there is a shorter period for future investment returns to help meet this cost. This serves to increase the value placed on the liabilities;
- The areas of membership experience that have had the greatest impact on the surplus/deficit position of the Fund are set out below, together with their impact on the liabilities:

	Expected	Actual	Difference	Impact on Liabilities
Pre-retirement experience				
Early leavers (no of lives)	4,880	8,958	4,078	Positive
Ill health retirements (no of lives)	176	140	(36)	Positive
Salary increases (p.a.)	3.1%	3.4%	0.4%	Negative
Post-retirement experience				
Benefit increases (p.a.)	2.1%	2.1%	(0.0%)	Broadly neutral
Pensions ceasing (£m)	5,431	5,677	246	Positive

- The changes to the longevity assumptions used for the valuation have resulted in a modest reduction in life expectancies. This has served to reduce the liabilities by £66m;
- The assumed rate of future CPI inflation has increased from 2.1% p.a. at 31 March 2016 to 2.3% p.a. at 31 March 2019. This has increased the value of the liabilities by £72m;
- The assumed rate of future investment returns has decreased from 4.0% p.a. to 3.8% p.a.. This has increased the value of the liabilities by £98m.

There has been a large increase in the value of the Fund's assets since the previous valuation because:

- The investment return on the Fund's assets for the period 31 March 2016 to 31 March 2019 was 38.4%. This has increased the value of the assets by £688m.

Projection of the funding position

The progression of the funding position will depend on various factors including future asset performance, economic conditions and membership movements. If the financial and demographic assumptions made at this valuation are borne out in practice, and there are no changes to the valuation assumptions, we project that the funding level at the 2022 valuation date will be approximately 97%. This allows for contributions to be paid as described in Appendix 3.

4 Sensitivity analysis

The results set out in this report are based on assumptions about the future. The actual cost of providing the benefits will depend on the actual experience of the Fund, which could be significantly better or worse than assumed. This section discusses the sensitivity of the results to some of the key assumptions.

Sensitivity of contribution rates to changes in assumptions

The approach to setting employer contribution rates mitigates the limitation of relying on one particular set of assumptions about the future by recognising the uncertainty around future investment returns and inflation. Therefore, there is no need to carry out additional analysis of the sensitivity of contribution rates to changes in financial assumptions.

The contribution rates are sensitive to changes in demographic assumptions. The results in this section in relation to the funding position can be broadly applied to the contribution rates.

Sensitivity of the funding position to changes in assumptions

The reported valuation funding position is based on one set of actuarial assumptions about the future of the Fund. If all of the assumptions made were exactly borne out in practice, then the liability value presented in this report would represent the actual cost of providing accrued benefits from the Fund as it stands at 31 March 2019.

Sensitivity of the funding position to future investment returns

The chart in Section 3 details how the funding position varies with the future assumed investment return.

Sensitivity of the funding position to future inflation

Pensions (both in payment and in deferment) in the LGPS increase annually in line with CPI. Furthermore, benefits accrued in the CARE scheme are revalued annually in line with CPI. If future CPI inflation is higher than the assumed rate of 2.3% then the cost of the benefits will be higher than we have set out in Section 3.

The table quantifies the impact on the funding position of varying the benefit increases and CARE revaluation (CPI) assumption below.

CPI Assumption	Surplus/(Deficit)	Funding Level
% pa	(£m)	%
2.1%	(20)	99%
2.3%	(92)	97%
2.5%	(163)	94%

Sensitivity of the funding position to life expectancy

The main area of demographic risk is people living longer than expected. If long term mortality rates fall at a rate of 1.5% p.a. (compared to the assumed 1.25% p.a.) then members will live slightly longer than we have assumed in this valuation. The impact on the funding position is detailed below.

Long term rate of improvement	Surplus/(Deficit)	Funding Level
% pa	(£m)	%
1.25%	(92)	97%
1.50%	(112)	96%

Other demographic risks to consider

There are other risk factors which would have an impact on the funding position. Examples of these include the level of ill health retirements, withdrawals from the scheme and take up of the 50:50 option. These are probably unlikely to change in such a way that would rank them as amongst the highest risks facing the Fund and therefore there has been no further quantification of their risk.

Comment on sensitivity analysis

Note that the tables above show the effect of changes to each assumption in isolation. In reality, it is perfectly possible for the experience of the Fund to deviate from more than one of the assumptions simultaneously and so the precise effect on the funding position is therefore more complex. Furthermore, the range of assumptions shown here is by no means exhaustive and should not be considered as the limits of how extreme experience could actually be.

Other risks to consider

Regulatory, Administration and Governance risks

As well as financial and demographic risks, the Fund also faces:

- Regulatory risks – central government legislation could significantly change the cost of the scheme in the future; and
- Administration and governance risk – failures in administration processes could lead to incorrect data and inaccuracies in the actuarial calculations.

These risks are considered and monitored by the Fund as part of its ongoing risk management framework.

Resource and environment risks

The Fund is exposed to risks relating to future resource constraints and environmental changes. These risks may prove to be material.

Climate change is a complex issue for the Fund. Adverse future climate change outcomes will have an impact on future longevity, inflation, government and corporate bond yields and equity returns.

Whilst there has been no explicit increase in certified employer contribution related to climate change, these risks may be considered by the Administering Authority when assessing the output from contribution rate ('comPASS') modelling.

Risk management


Employers participating in the Fund are exposed to a number of risks. These include, but are not limited to:

- Investment risk;
- Market risks;
- Demographic risks;
- Regulatory risks;
- Administration and Governance risks;
- Resource and Environmental risks.

The Funding Strategy Statement has further details about these risks and what actions the Fund takes to monitor, mitigate and manage each one.

Post valuation events

There has recently been significant volatility in the financial markets as a result of the economic uncertainty associated with the COVID-19 pandemic. At 27 March 2020, we estimate that the whole fund investment return since 31 March 2019 would be in the region of -4%. As an open scheme, with a strong covenant, the LGPS as a whole is able to take a long-term outlook when considering the general funding implications of such external events. For



employers who have a very short time horizon, recent market falls may be more immediately impactful, and the administering authority is taking steps to engage individually with these employers about the deteriorated funding position.

At the time of writing, it is very uncertain how this will affect the long-term economy and investment returns. Therefore, no allowance has been made for this ongoing volatility in the 2019 valuation results or contribution rates detailed in the Rates & Adjustments Certificate. This situation will be monitored closely to understand what impact it may have on the Fund and participating employers.

5 Final comments

The Fund's valuation operates within a broader framework, and this document should therefore be considered alongside the following:

- the Funding Strategy Statement, which in particular highlights how different types of employer in different circumstances have their contributions calculated;
- the Investment Strategy Statement, which sets out the investment strategy for the Fund;
- the general governance of the Fund, such as meetings of the Pensions Committee and Local Pension Board, decisions delegated to officers, the Fund's business plan, etc;
- the Fund's risk register; and
- the information the Fund holds about the participating employers.

Intervaluation employer events

New employers joining the Fund

Any new employers or admission bodies joining the Fund should be referred to the Fund Actuary to assess the required level of contribution. Depending on the number of transferring members the ceding employer's rate may also need to be reviewed.

Cessations and bulk transfers

Any employer who ceases to participate in the Fund should be referred to us in accordance with Regulation 64 of the Regulations.

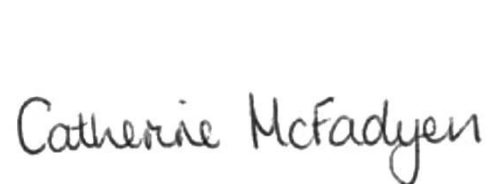
Any bulk movement of scheme members:

- involving 10 or more scheme members being transferred from or to another LGPS fund; or
- involving 2 or more scheme members being transferred from or to a non-LGPS pension arrangement;

should be referred to us to consider the impact on the Fund.

Valuation frequency

Under the provisions of the LGPS regulations, the next formal valuation of the Fund is due to be carried out as at 31 March 2022 where contribution rates payable from 1 April 2023 will be set.



Catherine McFadyen



Barry Dodds

Fellows of the Institute and Faculty of Actuaries

For and on behalf of Hymans Robertson LLP

31 March 2020

An aerial photograph of a lake with a road and a line of trees. The lake is dark and reflects the sky. A road with a white car is visible, bordered by a dense line of green trees. The image is partially obscured by diagonal teal and green bars.

Appendices

Appendix 1 – Data

Membership data as at 31 March 2019

A summary of the membership data provided by the Administering Authority for the purposes of the valuation at 31 March 2019 is shown below. The corresponding membership data from the previous valuation is also shown for reference.

Whole Fund Membership Data	Last Valuation 31 March 2016	This Valuation 31 March 2019
Employee members		
Number	20,172	21,912
Total Actual Pay (£000)	297,281	330,746
Total Accrued Pension (£000) (80ths)	-	10,364
Total Accrued Pension (£000) (60ths)	-	12,873
Total Accrued Pension (£000) (CARE)	10,477	24,535
Average Age (liability weighted)	51.5	51.8
Deferred pensioners		
Number	31,085	37,689
Total Accrued Pension (£000)	30,413	38,649
Average Age (liability weighted)	51.1	51.6
Pensioners		
Number	14,907	17,288
Total pensions in payment (£000)	64,753	75,500
Average Age (liability weighted)	68.2	68.7
Average duration of liabilities	17.9	17.7

Benchmark investment strategy

The following investment strategies, provided by the Fund's investment advisor (Mercer), have been used to assess employer contribution rates and to set the future investment return assumption as at 31 March 2019:

% allocation	Long term strategy	Alternative strategy
UK equities	1.9%	0.0%
Global equities	25.1%	16.4%
Private equity	5.0%	0.0%
Infrastructure (equity)	8.0%	5.3%
Total growth assets	40.0%	21.7%
Index-linked gilts	15.0%	41.8%
UK corporate bonds	0.0%	13.2%
Total protection assets	15.0%	55.0%
Multi-asset credit	5.0%	4.4%
Emerging market debt	5.0%	1.6%
High yield bonds	0.0%	2.0%
Senior loans	0.0%	1.6%
Insurance linked securities	5.0%	0.0%
Property	25.0%	13.7%
Private lending	5.0%	0.0%
Total income generating assets	45.0%	23.3%
Grand total	100.0%	100.0%

Other data used in this valuation

We have also relied upon asset and accounting data from the Fund's published 2016/17, 2017/18 and 2018/19 Annual Report and Accounts. Employer level cashflow data was provided by the Administering Authority and reconciled against the information shown in these documents. It should be noted that there is a variation between the asset figures shown in the Fund's accounts and the unitised asset figure used for the funding position shown. This is mostly due to an allowance made in the accounts for £25 million due from Dorset County Pension Fund in respect of a bulk transfer in of Dorset Fire civilians, which was received in May 2019. In addition, there is a small variation due to the way in which the unitisation model used by Wiltshire Pension Fund accounts for the timing of cashflows.

Comment on data quality

The results of the valuation are dependent on the quality of the data provided to us by the Administering Authority for the specific purpose of this valuation. We have carried out validations on the membership data provided to ensure it is fit for the purpose of the valuation. Further details can be found in our report issued to the Administering Authority entitled "Data report for 2019 valuation". We believe the membership data is fit for the purposes of this valuation.

Appendix 2 – Assumptions

Financial assumptions used to set employer contribution rates

Projection of assets and benefit payments

The approach to setting employer contribution rates does not rely on a single set of assumptions but involves the projection of an employer's future benefit payments, contributions and investment returns under 5,000 future economic scenarios. In this modelling, inflation (and therefore benefit payments) and investment returns for each asset class (and employer asset values) are variables and take different values in each projection.

The model underlying these projections is Hymans Robertson's proprietary economic model, the Economic Scenario Service (ESS). The ESS is a complex model to reflect the interactions and correlations between different asset classes and wider economic variables. The table below shows the calibration of the model as at 31 March 2019. All returns are shown net of fees and are the annualised total returns over 5, 10 and 20 years, except for the yields which refer to simulated yields at that time horizon.

Annualised total returns											
		Cash	Index Linked Gilts (medium)	Fixed Interest Gilts (medium)	UK Equity	Overseas Equity	Property	Corp Medium A	Inflation	17 year real yield	17 year yield
5 years	16th %ile	-0.4%	-2.3%	-2.9%	-4.1%	-4.1%	-3.5%	-2.7%	1.9%	-2.5%	0.8%
	50th %ile	0.7%	0.5%	0.3%	4.0%	4.1%	2.4%	0.8%	3.3%	-1.7%	2.1%
	84th %ile	2.0%	3.3%	3.4%	12.7%	12.5%	8.8%	4.0%	4.9%	-0.8%	3.6%
10 years	16th %ile	-0.2%	-1.8%	-1.3%	-1.5%	-1.4%	-1.5%	-0.9%	1.9%	-2.0%	1.2%
	50th %ile	1.3%	0.0%	0.2%	4.6%	4.7%	3.1%	0.8%	3.3%	-0.8%	2.8%
	84th %ile	2.9%	1.9%	1.7%	10.9%	10.8%	7.8%	2.5%	4.9%	0.4%	4.8%
20 years	16th %ile	0.7%	-1.1%	0.1%	1.2%	1.3%	0.6%	0.7%	2.0%	-0.7%	2.2%
	50th %ile	2.4%	0.3%	1.0%	5.7%	5.8%	4.3%	1.9%	3.2%	0.8%	4.0%
	84th %ile	4.5%	2.0%	2.0%	10.3%	10.4%	8.1%	3.0%	4.7%	2.2%	6.3%
Volatility (Disp) (1 yr)		1%	7%	10%	17%	17%	14%	11%	1%		

Funding target

At the end of an employer's funding time horizon, an assessment is made – for each of the 5,000 projections – of how the assets held compare to the value of assets required to meet the future benefit payments (the funding target). To value the cost of future benefits assumptions are made about the following financial factors:

- Benefit increases and CARE revaluation;
- Salary growth;
- Investment returns (the “discount rate”).

Each of the 5,000 projections represents a different prevailing economic environment at the end of the funding time horizon and so a single, fixed value for each assumption is not appropriate for every projection. Therefore, instead of using a fixed value, each assumption is set with reference to an economic indicator. The economic indicators used are:

Assumption	Economic Indicator
Benefit increases	Future CPI inflation expectations
CARE revaluation	Future CPI inflation expectations
Salary increases	As above plus 0.4% p.a.
Future investment returns	Prevailing risk free rate of return plus margin

The Fund has three funding bases which will apply to different employers depending on their type. Each funding basis uses a different margin in the future investment return assumption.

Funding Basis	Margin above risk-free rate
Ongoing participation	1.6%
Contractor exit	Same as used to allocate assets on joining the Fund
Gilts exit	0%

Financial assumptions used to assess the funding position

Salary and Benefit Increases

Financial Assumptions (p.a.)	31 March 2016	31 March 2019
Benefit increases and CARE revaluation (CPI)	2.1%	2.3%
Salary increases	2.4%*	2.7%**

*CPI plus 0.3%

**CPI plus 0.4%

Investment Return

The reported funding position is based on an assumed future investment return of 3.8%. The derivation of this assumption is set out in Section 3. The equivalent assumption at the 2016 valuation was 4.0%. This was derived in a different way, please see the 2016 valuation report for further details.

Demographic assumptions

The same demographic assumptions are used in setting contribution rates and assessing the current funding position.

Longevity

As the fund is a member of Club Vita, the baseline longevity assumptions are a bespoke set of Vita Curves that are tailored to fit the membership profile of the Fund. These curves are based on the data the Fund has provided us with for the purposes of this valuation.

We have also allowed for future improvements in mortality based on the CMI 2018 model with an allowance for smoothing of recent mortality experience and a long term rate of improvement of 1.25% p.a. for both women and men.

Longevity Assumptions	31 March 2016	31 March 2019
Baseline Longevity	Club Vita	Club Vita
Future Improvements	CMI2013, Peaked, 1.25% p.a. long term	CMI2018, Smoothed, 1.25% p.a. long term

Full details are available on request.

The longevity assumptions result in the following typical future life expectancies from age 65 (figures for 2016 shown for comparison):

Assumed Life Expectancy	31 March 2016	31 March 2019
Male		
Pensioners	22.5 years	21.7 years
Non-pensioners	24.1 years	22.5 years
Female		
Pensioners	24.9 years	24.0 years
Non-pensioners	26.7 years	25.5 years

Non-pensioners are assumed to be aged 45 at the valuation date

Other demographic assumptions

We are in the unique position of having a very large local authority data set from which to derive our other demographic assumptions. We have analysed the trends and patterns that are present in the membership of local authority funds and tailored our demographic assumptions to reflect LGPS experience. The resulting demographic assumptions are as follows:

Demographic Assumptions	
Retirements in normal health	We have adopted the retirement age pattern assumption as used for the purpose of the 2016 LGPS cost cap valuation. Further details are available on request.
Death in Service	See sample rates below
Retirements in ill health	See sample rates below
Withdrawals	See sample rates below
Promotional salary increases	See sample increases below
Family details	A varying proportion of members are assumed to have a dependant at retirement or on earlier death. For example, at age 60 this is assumed to be 90% for males and 85% for females. The dependant of a male member is assumed to be 3 years younger than him and the dependant of a female member is assumed to be 3 years older than her.
Commutation	50% of future retirements elect to exchange pension for additional tax free cash up to HMRC limits for service to 1 April 2008 (equivalent 75% service from 1 April 2008).
50:50 option	1.0% of members (uniformly distributed across the age, service and salary range) will choose the 50:50 option.

Sample rates for demographic assumptions

Males

Age	Salary Scale	Incidence per 1000 active members per annum						
		Death Before Retirement FT & PT	Withdrawals		III Health Tier 1		III Health Tier 2	
			FT	PT	FT	PT	FT	PT
20	105	0.21	353.77	439.47	0.00	0.00	0.00	0.00
25	117	0.21	233.68	290.28	0.00	0.00	0.00	0.00
30	131	0.26	165.80	205.93	0.00	0.00	0.00	0.00
35	144	0.30	129.54	160.88	0.10	0.07	0.02	0.01
40	150	0.51	104.30	129.48	0.16	0.12	0.03	0.02
45	157	0.85	97.97	121.60	0.35	0.27	0.07	0.05
50	162	1.36	80.76	100.12	0.90	0.68	0.23	0.17
55	162	2.13	63.59	78.88	3.54	2.65	0.51	0.38
60	162	3.83	56.68	70.28	6.23	4.67	0.44	0.33
65	162	6.38	0.00	0.00	11.83	8.87	0.00	0.00

Females

Age	Salary Scale	Incidence per 1000 active members per annum						
		Death Before Retirement FT & PT	Withdrawals		III Health Tier 1		III Health Tier 2	
			FT	PT	FT	PT	FT	PT
20	105	0.12	318.32	378.95	0.00	0.00	0.00	0.00
25	117	0.12	214.19	254.95	0.12	0.07	0.02	0.01
30	131	0.18	179.54	213.68	0.15	0.10	0.03	0.02
35	144	0.30	154.96	184.36	0.31	0.19	0.05	0.04
40	150	0.48	128.97	153.39	0.46	0.29	0.08	0.06
45	157	0.77	120.36	143.12	0.62	0.39	0.10	0.08
50	162	1.13	101.47	120.53	1.16	0.73	0.24	0.18
55	162	1.49	75.71	90.03	4.31	2.69	0.52	0.39
60	162	1.90	61.02	72.46	6.85	4.28	0.54	0.40
65	162	2.44	0.00	0.00	12.31	7.69	0.00	0.00

Prudence in assumptions

We are required to include a degree of prudence within the valuation. This has been achieved in both the setting of contributions and assessment of funding position.

Contribution rates

- Employer funding plans have been set such that the likelihood the employer's funding target is met by the end of the funding time horizon is more than 50%. The actual likelihood varies by employer. Further detail in is the Funding Strategy Statement.

Funding position

- The Fund's investments have a 75% likelihood of returning at least the assumed return.

All other assumptions represent our "best estimate" of future experience.

The assumptions used in this valuation have been agreed with the Administering Authority and are set out in the Fund's Funding Strategy Statement.

Appendix 3 – Rates and Adjustments certificate

In accordance with regulation 62(4) of the Regulations we have made an assessment of the contributions that should be paid into the Fund by participating employers for the period 1 April 2020 to 31 March 2023 in order to maintain the solvency of the Fund.

The method and assumptions used to calculate the contributions set out in the Rates and Adjustments certificate are detailed in the Funding Strategy Statement and in Appendix 2 of our report on the actuarial valuation dated 31 March 2020. These assumptions underpin our estimate of the number of members who will become entitled to a payment of pensions under the provisions of the LGPS and the amount of liabilities arising in respect of such members.

The table below summarises the whole fund Primary and Secondary Contribution rates for the period 1 April 2020 to 31 March 2023. The Primary rate is the payroll weighted average of the underlying individual employer primary rates and the Secondary rate is the total of the underlying individual employer secondary rates, calculated in accordance with the Regulations and CIPFA guidance.

Whole Fund Contribution Rate		
Primary Rate (% of pay)	22.0%	
Secondary Rate (£)	2020/21	10,973,000
	2021/22	11,079,000
	2022/23	10,844,000

The required minimum contribution rates for each employer in the Fund are set out below.

Employer code	Employer/Pool name	Contributions currently in payment 2019/2020	Primary Rate % 1 April 2020 - 31 March 2023	Secondary Rate						Total Contribution Rate		
				2020/2021		2021/2022		2022/2023		2020/2021	2021/2022	2022/2023
				% of pay	£	% of pay	£	% of pay	£			
Wiltshire Council and associated Admission bodies												
	Wiltshire Council Pool (Non-Schools) *	21.0% plus £5,700,000	20.4%	0.6%	£5,700,000	0.6%	£5,700,000	0.6%	£5,700,000	21.0% plus £5,700,000	21.0% plus £5,700,000	21.0% plus £5,700,000
	Wiltshire Council Pool (Schools)	25.8%	20.4%	5.4%		5.4%		5.4%		25.8%	25.8%	25.8%
	320 Atkins Global	26.0%	19.7%	6.3%		6.3%		6.3%		26.0%	26.0%	26.0%
	317 Elior UK PLC	24.8%	21.2%	3.6%		3.6%		3.6%		24.8%	24.8%	24.8%
	339 Idverde	15.9%	20.3%	-4.4%		-4.4%		-4.4%		15.9%	15.9%	15.9%
	357 Mears Care Ltd East 2	28.7%	20.7%	0.0%		0.0%		0.0%		20.7%	20.7%	20.7%
	358 Mears Care Ltd North 1	28.7%	19.9%	0.0%		0.0%		0.0%		19.9%	19.9%	19.9%
	314 Oxford Health NHS	24.7%	21.5%	3.2%		3.2%		3.2%		24.7%	24.7%	24.7%
	302 Visit Wiltshire	20.3%	20.3%	0.0%		0.0%		0.0%		20.3%	20.3%	20.3%
	Somerset Care	0.0%	21.0%	-21.0%		-21.0%		-21.0%		0.0%	0.0%	0.0%
Swindon Borough Council and associated Admission bodies												
	Swindon BC Pool (Non-Schools) **	21.4% plus £2,604,000	20.2%	1.2%	£2,604,000	1.2%	£2,604,000	1.2%	£2,604,000	21.4% plus £2,604,000	21.4% plus £2,604,000	21.4% plus £2,604,000
	Swindon BC Pool (Schools) **	25.5%	20.2%	5.3%		5.3%		5.3%		25.5%	25.5%	25.5%
	98 Aqincare	24.1%	27.8%	-8.4%		-8.4%		-8.4%		19.4%	19.4%	19.4%
	78 Capita	22.9%	24.6%	0.0%		0.0%		0.0%		24.6%	24.6%	24.6%
	336 Create Studios Digital Media	30.8% plus £8,000	38.0%	-1.0%	£2,000	-1.0%	£10,000	-1.0%	£10,000	37.0% plus £2,000	37.0% plus £10,000	37.0% plus £10,000
	362 Edwards and Ward (SBC - Nythe)	19.8%	19.7%	0.0%		0.0%		0.0%		19.7%	19.7%	19.7%
	309 Great Western Hospitals	15.4%	24.0%	-8.6%		-8.6%		-8.6%		15.4%	15.4%	15.4%
	Public Power Solutions	21.7%	23.6%	0.0%		0.0%		0.0%		23.6%	23.6%	23.6%
Salisbury City Council												
	86 Salisbury City Council	12.5%	20.0%	-8.9%		-8.9%		-8.9%		11.1%	11.1%	11.1%
Other tax raising asociated bodies												
	57 Dorset and Wiltshire Fire Authority	18.8% plus £79,000	20.1%	1.4%		1.4%		1.4%		21.5%	21.5%	21.5%
	Wiltshire Police	18.2% plus £293,000	19.7%	-1.3%		-2.3%		-3.3%		18.4%	17.4%	16.4%
Town and Parish Councils												
	7 Westbury Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	8 Trowbridge Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	9 Wilton Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	10 Devizes Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	11 Downton P C	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	12 Marlborough Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	13 Calne Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	15 Amesbury Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	17 Durrington Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	18 Stratton St Margaret Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	20 Royal Wootton Bassett Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	33 Melksham Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	34 Malmesbury Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	35 Chippenham Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	37 Cricklade Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	40 Highworth Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	44 Haydon Wick Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	46 Purton Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	48 Corsham Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	50 Warminster Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	58 Mere Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	59 Melksham Without Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	62 Bradford-on-Avon Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	66 Blunsdon St Andrew Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	71 Wroughton Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	72 Steeple Ashton Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	73 Wanborough Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	349 Hullavington Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	350 Tidworth Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	356 Ludgershall Town Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%
	365 Idmiston Parish Council	20.1%	20.2%	0.5%		-0.5%		-1.5%		20.7%	19.7%	18.7%

	400	Aldbury Parish Council	20.1%	20.2%	0.5%	-0.5%	-1.5%	20.7%	19.7%	18.7%
	402	Redlynch Parish Council	20.1%	20.2%	0.5%	-0.5%	-1.5%	20.7%	19.7%	18.7%
	403	Central Swindon South PC	20.1%	20.2%	0.5%	-0.5%	-1.5%	20.7%	19.7%	18.7%
	404	St Andrews Parish Council Swindon	20.1%	20.2%	0.5%	-0.5%	-1.5%	20.7%	19.7%	18.7%
	409	Central Swindon North PC	20.1%	20.2%	0.5%	-0.5%	-1.5%	20.7%	19.7%	18.7%
	496	West Swindon Parish Council	20.1%	20.2%	0.5%	-0.5%	-1.5%	20.7%	19.7%	18.7%
Further Education Colleges										
	702	New College	21.5% plus £112,000	25.0%	-1.9%	-1.9%	-1.9%	23.1%	23.1%	23.1%
	704	Swindon College	22.1% plus £259,000	25.3%	-3.2%	-3.2%	-3.2%	22.1%	22.1%	22.1%
		Wiltshire College	22.0% plus £805,000	24.9%	-2.3%	1.4%	1.4%	22.6%	26.3%	26.3%
Academies										
		Acom Education Trust	24.9%	25.8%	-2.8%	-2.8%	-2.8%	23.0%	23.0%	23.0%
		Activate Learning Trust	24.1%	25.4%	3.7%	3.7%	3.7%	29.1%	29.1%	29.1%
		Althestan Trust	25.1%	26.0%	-0.2%	-0.2%	-0.2%	25.8%	25.8%	25.8%
	95	Bishop Wordsworth Academy	28.7%	26.6%	-0.2%	-0.2%	-0.2%	26.4%	26.4%	26.4%
	348	Blue Kite Trust	21.6%	25.2%	-0.4%	-0.4%	-0.4%	24.9%	24.9%	24.9%
	497	Brunel SEN MAT	24.0%	25.0%	0.6%	0.6%	0.6%	25.6%	25.6%	25.6%
	236	Bybrook Valley Academy	22.6%	25.8%	-0.2%	-0.2%	-0.2%	25.6%	25.6%	25.6%
	229	Colebrook Infants Academy, Swindon	24.5%	26.2%	0.4%	0.4%	0.4%	26.6%	26.6%	26.6%
	207	Commonweal Academy, Swindon	25.6%	25.8%	-1.4%	-1.4%	-1.4%	24.4%	24.4%	24.4%
	201	Corsham Secondary Academy	26.8%	26.0%	-0.1%	-0.1%	-0.1%	25.9%	25.9%	25.9%
	253	Dauntsey Primary Academy	24.3%	25.8%	0.3%	0.3%	0.3%	26.2%	26.2%	26.2%
	260	Diocese of Bristol Academy Trust	24.1%	25.6%	-1.2%	-1.2%	-1.2%	24.4%	24.4%	24.4%
	259	Diocese of Salisbury Academy	24.6%	25.7%	0.2%	0.2%	0.2%	25.9%	25.9%	25.9%
	231	Dorcan Technology Academy, Swindon	24.6%	26.1%	-4.5%	-4.5%	-4.5%	21.6%	21.6%	21.6%
		EQUA MAT	26.2%	26.5%	-3.7%	-3.7%	-3.7%	22.7%	22.7%	22.7%
	241	Excalibur Academy	28.7%	25.9%	1.6%	1.6%	1.6%	27.5%	27.5%	27.5%
	91	Goddards Park Academy, Swindon	21.0%	24.6%	-2.6%	-1.6%	-0.5%	22.0%	23.0%	24.1%
	270	Great Western Academy	25.5%	24.6%	0.3%	0.3%	0.3%	24.8%	24.8%	24.8%
		Grove Learning Trust	26.3%	26.0%	-1.3%	-1.3%	-1.3%	24.7%	24.7%	24.7%
	93	Hardenhuish School Ltd	24.7%	25.4%	-2.9%	-2.9%	-2.9%	22.5%	22.5%	22.5%
	252	Hazelwood Academy	24.0%	25.6%	-2.2%	-2.2%	-2.2%	23.4%	23.4%	23.4%
	206	Highworth Warneford Academy, Swindon	26.1%	25.7%	-2.3%	-2.3%	-2.3%	23.5%	23.5%	23.5%
	209	Holy Cross Academy	24.7%	25.3%	0.5%	0.5%	0.5%	25.8%	25.8%	25.8%
	244	Holy Family Academy	23.1%	25.5%	-2.2%	-2.2%	-2.2%	23.3%	23.3%	23.3%
	208	Holy Rood Primary	26.1%	26.5%	-0.2%	-0.2%	-0.2%	26.4%	26.4%	26.4%
	238	Holy Trinity (Calne) Academy	28.4%	26.2%	0.2%	0.2%	0.2%	26.4%	26.4%	26.4%
	220	Holy Trinity (Great Cheverell) Academy	25.1%	26.8%	-3.7%	-3.7%	-3.7%	23.1%	23.1%	23.1%
	234	John of Gaunt Academy	25.4%	25.9%	-1.7%	-1.7%	-1.7%	24.3%	24.3%	24.3%
	261	King Alfred Academy	28.4%	26.0%	3.9%	3.9%	3.9%	29.9%	29.9%	29.9%
	239	King William Street Academy	25.7%	26.3%	-0.4%	-0.4%	-0.4%	25.9%	25.9%	25.9%
	210	Lethbridge Academy, Swindon	24.5%	25.9%	-1.1%	-1.1%	-1.1%	24.8%	24.8%	24.8%
		MAGNA	22.4%	25.7%	-2.0%	-2.0%	-2.0%	23.7%	23.7%	23.7%
	251	Malmesbury Primary Academy	24.5%	26.2%	-1.5%	-1.5%	-1.5%	24.8%	24.8%	24.8%
	237	Mead Academy, The	21.4%	25.1%	-3.0%	-3.0%	-3.0%	22.0%	22.0%	22.0%
	255	Millbrook Academy	26.4%	25.6%	5.0%	5.0%	5.0%	30.5%	30.5%	30.5%
	254	Morgan Vale and Woodfalls	26.3%	25.4%	1.0%	1.0%	1.0%	26.4%	26.4%	26.4%
	249	Oasis Community Learning	22.8%	25.7%	-0.4%	-0.4%	-0.4%	25.3%	25.3%	25.3%
	257	Peatmoor Academy	25.5%	26.4%	-3.3%	-3.3%	-3.3%	23.1%	23.1%	23.1%
	205	Pewsey Vale Academy	26.5%	25.9%	0.0%	0.0%	0.0%	25.8%	25.8%	25.8%
		Pickwick Academy Trust	25.4%	25.9%	0.6%	0.6%	0.6%	26.5%	26.5%	26.5%
		Reach South Academy Trust	27.1%	25.1%	3.0%	3.0%	3.0%	28.1%	28.1%	28.1%
		River Learning Trust	23.6%	25.4%	-3.4%	-3.4%	-3.4%	22.0%	22.0%	22.0%
		Royal Wootton Bassett Academy Trust	26.9%	25.6%	-1.9%	-1.9%	-1.9%	23.7%	23.7%	23.7%
		Salisbury Plain MAT	30.2%	25.4%	-2.4%	-2.4%	-2.4%	23.0%	23.0%	23.0%
	256	Shaw Ridge Academy	23.6%	25.6%	-0.8%	-0.8%	-0.8%	24.7%	24.7%	24.7%
	202	Sheldon Academy	24.3%	26.0%	-2.4%	-2.4%	-2.4%	23.6%	23.6%	23.6%
	266	Somerset Road Educational Trust	25.2%	25.7%	-0.3%	-0.3%	-0.3%	25.4%	25.4%	25.4%
	96	South Wilts Grammar Academy	25.2%	25.8%	-2.2%	-2.2%	-2.2%	23.5%	23.5%	23.5%
	268	South Wiltshire UTC	20.8%	24.9%	-5.3%	-24.9%	-24.9%	19.6%	0.0%	0.0%
	223	St Augustines Academy	25.0%	25.9%	-3.3%	-3.3%	-3.3%	22.6%	22.6%	22.6%
	245	St Catherines Academy	23.6%	26.6%	-5.3%	-5.3%	-5.3%	21.3%	21.3%	21.3%
	224	St Edmunds Academy (Calne)	26.7%	25.3%	2.0%	2.0%	2.0%	27.3%	27.3%	27.3%
	226	St Joseph's (Devizes) Academy	24.8%	26.4%	-1.3%	-1.3%	-1.3%	25.1%	25.1%	25.1%
	213	St Joseph's (Swindon) Academy	25.3%	25.3%	-4.1%	-4.1%	-4.1%	21.3%	21.3%	21.3%

216	St Laurence Academy	25.2%	25.5%	-1.5%		-1.5%		-1.5%		24.0%	24.0%	24.0%
227	St Leonards (Andrews) Academy, Swindon	21.1%	26.0%	-3.0%		-3.0%		-3.0%		23.0%	23.0%	23.0%
214	St Mary's Academy, Swindon	23.1%	25.5%	-2.5%		-2.5%		-2.5%		23.0%	23.0%	23.0%
211	The Park Academies Trust	25.5%	25.5%	-1.6%		-1.6%		-1.6%		23.9%	23.9%	23.9%
	ULT	17.3%	24.9%	-5.6%		-5.6%		-5.6%		19.3%	19.3%	19.3%
88	Wellington Academy	20.1%	25.0%	-3.9%		-3.9%		-3.9%		21.1%	21.1%	21.1%
258	Westlea (Swindon) Academy	25.3%	25.5%	-1.1%		-1.1%		-1.1%		24.4%	24.4%	24.4%
	White Horse Academies	22.8%	25.2%	-3.7%		-2.3%		-1.3%		21.5%	22.9%	23.9%
232	Woodford Valley Academy	24.2%	25.6%	-1.0%		-1.0%		-1.0%		24.6%	24.6%	24.6%
Community Admission Bodies												
31	CIPFA	22.8% plus £1,429,000	43.1%	-17.1%	£322,000	-17.1%	£322,000	-17.1%	£322,000	26.0% plus £322,000	26.0% plus £322,000	26.0% plus £322,000
61	Order of St John	30.9% plus £525,000	46.5%	-46.5%		-46.5%		-46.5%		0.0%	0.0%	0.0%
74	Swindon Dance	29.2%	42.0%	-21.0%		-21.0%		-21.0%		21.0%	21.0%	21.0%
313	WASP (Wiltshire & Swindon Sports Partnership)	19.4%	29.3%	-29.3%		-29.3%		-29.3%		0.0%	0.0%	0.0%
Admitted Bodies												
498	Adoption West	21.1%	20.4%	-4.8%		-4.8%		-4.8%		15.6%	15.6%	15.6%
	Aster	23.6%	49.1%	-17.7%	£435,000	-17.7%	£435,000	-17.7%	£435,000	31.4% plus £435,000	31.4% plus £435,000	31.4% plus £435,000
371	Brunel Pensions Partnership	17.7% plus £61,000	20.1%	-1.5%		-1.5%		-1.5%		18.5%	18.5%	18.5%
160	Caterlink 4	30.2%	33.7%	0.0%		0.0%		0.0%		33.7%	33.7%	33.7%
331	Churchill Contract Services 1	31.6%	33.3%	0.7%		0.7%		0.7%		34.0%	34.0%	34.0%
303	Collaborative Schools Ltd	22.1%	23.0%	-1.9%		-1.9%		-1.9%		21.1%	21.1%	21.1%
364	Deeland	38.5%	40.1%	-1.6%		-1.6%		-1.6%		38.5%	38.5%	38.5%
337	Direct Cleaning (Wansdyke)	28.0%	32.0%	0.0%		0.0%		0.0%		32.0%	32.0%	32.0%
359	First City Nursing	29.2%	35.3%	-6.1%		-6.1%		-6.1%		29.2%	29.2%	29.2%
372	Great Western Hospital	28.6%	33.1%	-21.0%		-21.0%		-21.0%		12.1%	12.1%	12.1%
324	Greenwich Leisure Limited	12.2%	33.3%	-33.3%		-33.3%		-33.3%		0.0%	0.0%	0.0%
327	Mears Care Ltd	31.9%	35.3%	-35.3%		-35.3%		-35.3%		0.0%	0.0%	0.0%
360	NHS South Central and West Commissioning Support Unit	32.7%	29.9%	-1.7%		-1.7%		-1.7%		28.1%	28.1%	28.1%
82	Places for People Leisure	24.4%	32.6%	-9.8%		-9.8%		-9.8%		22.8%	22.8%	22.8%
351	Ringway	29.0%	34.9%		£59,000		£59,000		£59,000	34.9% plus £59,000	34.9% plus £59,000	34.9% plus £59,000
51	Selwood Housing (West Wilts)	25.7% plus £343,000	48.6%	-20.9%	£343,000	-20.9%	£343,000	-20.9%	£343,000	27.7% plus £343,000	27.7% plus £343,000	27.7% plus £343,000
354	Spurgeons	21.7%	37.5%		£3,000		£3,000		£3,000	37.5% plus £3,000	37.5% plus £3,000	37.5% plus £3,000
375	Swindon Music	26.7%	35.6%		£8,000		£8,000		£8,000	35.6% plus £8,000	35.6% plus £8,000	35.6% plus £8,000
342	Swindon Wildcats Limited	19.2%	30.5%	-30.5%		-30.5%		-30.5%		0.0%	0.0%	0.0%
410	The Hills	30.5%	33.3%		£373,000		£373,000		£373,000	33.3% plus £373,000	33.3% plus £373,000	33.3% plus £373,000
374	Turning Point	33.7%	33.9%		£1,000		£1,000		£1,000	33.9% plus £1,000	33.9% plus £1,000	33.9% plus £1,000
52	Westlea Housing	32.2% plus £517,000	50.8%	-18.6%	£517,000	-18.6%	£517,000	-18.6%	£517,000	32.2% plus £517,000	32.2% plus £517,000	32.2% plus £517,000
330	Wiltshire Clinical Commissioning Group	24.6%	26.9%	-8.7%		-8.7%		-8.7%		18.1%	18.1%	18.1%

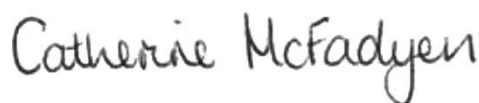
*The contributions due for 1 April 2020 to 31 March 2023 are shown in the table above. With the agreement of the Administering Authority, this employer has agreed to make a cash payment in advance of £26,090,265 in April 2020 in respect of contributions due for the year to 31 March 2021, for non-schools only. In calculating this cash amount payable for the year to 31 March 2021 a reduction in return for this early payment of 1.85% for the period 1 April 2020 to 31 March 2021 has been applied (i.e. the above expected amounts in the table multiplied by 0.9815). With the agreement of the Administering Authority, the employer may also make a cash payment in April 2021 in respect of contributions due in the year to 31 March 2022 and/or April 2022 in respect of contributions due in the year to 31 March 2023. The reduction in the amount payable will be calculated by the Fund actuary at that time based on updated payroll estimates. As the employer has estimated, in advance, the pensionable pay for 2020/21 (and will estimate for 2021/22 and/or 2022/23 if prepaying those contributions), a balancing adjustment to reflect the actual pensionable pay over the year would be made at the end of each year (no later than 30th April following the year-end).

** Swindon Borough Council have requested details around the prepayment of contributions for 2021/2022 and 2022/2023. No arrangement has currently been made to prepay contributions but may be considered within the inter-valuation period as agreed with the Fund.

Further comments

- Contributions expressed as a percentage of payroll should be paid into Wiltshire Pension Fund ("the Fund") at a frequency in accordance with the requirements of the Regulations;
- Further sums should be paid to the Fund to meet the costs of any early retirements and/or augmentations using methods and factors issued by us from time to time or as otherwise agreed.
- Payments may be required to be made to the Fund by employers to meet the capital costs of any ill-health retirements that exceed those allowed for within our assumptions. If an employer has ill health liability insurance in place with the insurer arranged through the Fund, the premium is deducted from that employer's asset share and any amounts recovered through that insurance are allocated to that employer's asset share.
- The certified contribution rates represent the **minimum** level of contributions to be paid. Employing authorities may pay further amounts at any time and future periodic contributions may be adjusted on a basis approved by the Fund Actuary.
- There has been significant volatility in the financial markets during February and March 2020 as a result of the COVID-19 pandemic. This volatility may impact funding balance sheets for those employers planning to exit the Fund during the period covered by this Rates and Adjustments Certificate. In order to effectively manage employer exits from the Fund, the Administering Authority reserves the right to revisit the contribution rates for employers that are expected to cease participation in the Fund before 31 March 2023. An employer will be contacted by the Administering Authority in this instance.

Signature:



Name:

Catherine McFadyen

Barry Dodds

Qualification:

Fellows of the Institute and Faculty of Actuaries

Firm:

Hymans Robertson LLP
20 Waterloo Street
Glasgow
G2 6DB

Date:

31 March 2020

Appendix 4 – Section 13 dashboard

The following information has been provided to assist the Government Actuary's Department in complying with Section 13 of the Public Service Pensions Act.

Item	
Past service funding position - local funding basis	
Funding level (assets/liabilities)	97%
Funding level (change since last valuation)	15% increase
Asset value used at the valuation	£2,588,536,000
Value of liabilities	£2,680,294,000
Surplus (deficit)	£91,758,000
Discount rate(s)	3.8% p.a.
Assumed pension increases (CPI)	2.3% p.a.
Method of derivation of discount rate, plus any changes since previous valuation	There is a 75% likelihood that the Fund's investments will return at least 3.8% over the next 20 years based on a stochastic asset projection. The assumption at the 2016 valuation was 1.8% above the yield available on long-dated fixed interest gilts.
Assumed life expectancies at age 65:	
Average life expectancy for current pensioners - men currently age 65	21.7 years
Average life expectancy for current pensioners - women currently age 65	24.0 years
Average life expectancy for future pensioners - men currently age 45	22.5 years
Average life expectancy for future pensioners - women currently age 45	25.5 years
Past service funding position - SAB basis (for comparison purposes only)	
Market value of assets	£2,588,536,000
Value of liabilities	£2,319,517,000
Funding level on SAB basis (assets/liabilities)	112%
Funding level on SAB basis (change since last valuation)	15% increase
Contribution rates payable	
Primary contribution rate	22% of pay
Secondary contribution rate (cash amounts in each year in line with CIPFA guidance):	
Secondary contribution rate 2020/21	£10,973,000
Secondary contribution rate 2021/22	£11,079,000
Secondary contribution rate 2022/23	£10,844,000
Giving total expected contributions:	
Total expected contributions 2020/21 (£ figure based on assumed payroll of £339.8m)	£85,784,000
Total expected contributions 2021/22 (£ figure based on assumed payroll of £349.0m)	£87,931,000
Total expected contributions 2022/23 (£ figure based on assumed payroll of £358.6m)	£89,792,000
Average employee contribution rate (% of pay)	6.1% of pay
Employee contribution rate (£ p.a. figure based on assumed payroll of £339.8m)	£20,748,000
Additional information	
Percentage of liabilities relating to employers with deficit recovery periods of longer than 20 years	0.0%
Percentage of total liabilities that are in respect of Tier 3 employers	11.7%