March 2005

## **North Yorkshire Pension Fund**

**Actuarial Valuation Report** 

As at 31 March 2004



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Summary	

#### 1. Funding objective

The funding objective is:

• To achieve and then maintain a funding target that requires assets equal to 100% of the present value of benefits based on completed service including provision for the effects of future salary growth and inflation up to retirement.

Further details on the funding objective are given in Section 2.

#### 2. Valuation results

#### **Past service**

The Fund shows a deficit of  $\pounds$ 524.5 million at the valuation date against the above funding objective and on the actuarial assumptions detailed in this report. This represents a funding level of 59%.

#### **Future service**

The Common Contribution Rate (i.e. the contribution rate in respect of future service only) is 10.4% of Pensionable Pay.

Further details on these results are given in Section 1.

#### 3. Funding plan

The funding plan is set out in the Fund's Funding Strategy Statement, as prepared by the Administering Authority (North Yorkshire County Council). Individual employer funding plans, and the resulting certified contribution rates, have been determined in accordance with the FSS. Depending on individual circumstances, different approaches to the funding of benefits have been adopted, as part of the FSS consultation process. However, for the majority of employers the two main features of the funding plan are that contribution rates should be assessed based on recovery of

the deficit over a maximum period of 30 years, and that any increase in contributions to this required level can be phased in over a period of up to 3 years if desired.

If the deficit is recovered over this 30 year period then the average employer contribution rate emerging from the valuation is 17.5% of Pensionable Pay per annum. Disregarding the effect of phasing in increases and in the absence of any further reviews, this average contribution rate would be paid for 30 years from 1 April 2005, reverting to 10.4% of Pensionable Pay at the end of the period. In practice, contribution rates will be reviewed regularly over this period so that, all other factors being neutral, a gradual revision of the average employer's contribution rate towards the Common Contribution Rate may be expected.

The recommended employer contribution rates for the period 1 April 2005 to 31 March 2008 are set out in the Certificate attached to this report. Employee contributions are payable in addition to the employer contributions. These contributions are adequate to meet the above funding objective based on the actuarial assumptions detailed in this report.

Additional capital contributions will be paid on top of the rates shown in respect of non-ill health early retirements.

These contributions have been set in accordance with the provisions of Regulation 77 of the Local Government Pension Scheme Regulations 1997 (as amended).

#### 4. Investment strategy

The investment strategy pursued by the Administering Authority, and reflected in the Statement of Investment Principles involves an element of risk. The risks of the strategy relative to the form and incidence of the liabilities are discussed at the end of Section 1.

Certification

- 1. I am the actuary to the North Yorkshire Pension Fund ("the Fund"). This is a report to the Administering Authority of the Fund on my actuarial valuation of the assets and liabilities of the Fund as at 31 March 2004. The last actuarial valuation of the Fund was carried out as at 31 March 2001.
- 2. The valuation has been undertaken in accordance with the Local Government Pension Scheme Regulations 1997 (as amended) ("the Regulations").
- 3. The calculations in the report use methods and bases appropriate for the purpose described above. Figures required for other purposes, such as employer accounting, should be calculated in accordance with the specific requirements for such purposes and it should not be assumed that the figures provided here are appropriate.
- 4. Although addressed to the Administering Authority, this report may be disclosed to other parties with the consent of the Administering Authority, or under the disclosure legislation and regulations. Such parties may use the results as a guide to the funding position of the Fund. Mercer Human Resource Consulting Limited does not accept liability to any other third parties in respect of the contents of this report.
- 5. This report complies with the requirements in the appropriate version of Guidance Note 9 - 'Retirement Benefit Schemes - Actuarial Reports' (insofar as it applies to Local Government Schemes), issued jointly by the Institute of Actuaries and the Faculty of Actuaries. This report does not deal with the solvency position of the Fund were it to be discontinued, given the statutory constitution of the Local Government Pension Scheme.

L. K. HA

Signature:

Actuary:

**Date of Signing:** 

**Qualification:** 

C R Hull

14 March 2005

Fellow of the Institute of Actuaries

Mercer Human Resource Consulting

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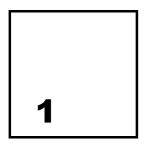
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## Certificates

Rates and Adjustments Certificate issued in accordance with Regulation 77 Schedule to the Rates and Adjustments Certificate dated 14 March 2005 Surplus certificate



## Results

1.1 The results of the valuation are shown below. The method and assumptions used are described in Sections 2 and 3.

#### **Future service**

1.2 In calculating the average employer contribution rate required for future service only (the Common Contribution Rate), the pension and death-in-service benefits arising from one year's future pensionable service have been valued. In doing so, allowance has been made for the benefit changes introduced by the Local Government Pension Scheme (Amendment) (No.2) Regulations 2004, which take effect from 1 April 2005 (see Appendix A). Allowance has also been made for the cost of administrative expenses paid from the Fund.

% of Pensionable Pay
15.95
0.35
16.30
5.90
10.40

The Common Contribution Rate identified at the previous valuation was 11.6% of Pensionable Pay.

#### **Past service**

1.3 The next step is to consider the imbalance between the assets of the Fund and the funding target.

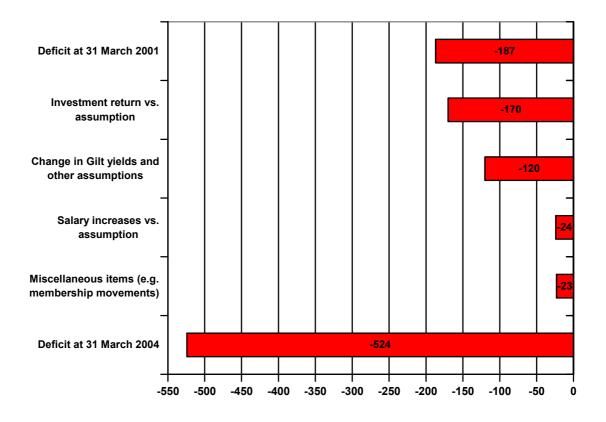
Value of liabilities	£m
<ul> <li>members in service</li> </ul>	583.3
<ul> <li>deferred pensioners</li> </ul>	176.3
<ul> <li>pensioners</li> </ul>	530.7
Total liabilities	1,290.3
Market value of assets	765.8
Deficit	524.5
Funding level	59%

The funding objective is to achieve and maintain a funding level of 100%. The deficit of £524.5 million could be eliminated by an average contribution addition of 7.1% of Pensionable Pay for 30 years. This would imply an average employer contribution rate of 17.5% (17.7% at the previous valuation) of Pensionable Pay.

- 1.4 Of the many assumptions upon which the level of deficit revealed above is dependent, one of the most important is the extent to which advance credit has been taken for the expected future out-performance of the Fund's investments over that available from gilts. If the long-term return were assumed to be in line with the gilt return (as would be the case if the portfolio were fully matched against its liabilities), then the above deficit might increase to about £808 million.
- 1.5 It is highly likely that future financial developments will not follow the assumptions made in the valuation, especially in the short term. The scope for variation in the funding level and resulting contribution requirements is substantial. Changing the investment return assumption, for example, by ½% per annum would have approximately a 9% effect on the overall liabilities. Reducing the allowance for salary increases by ½% per annum would reduce the deficit by about £34 million.

#### **Reconciliation to previous valuation**

1.6 The previous actuarial valuation was carried out as at 31 March 2001 and showed that the value of the assets was lower than the value of the accrued liabilities, after making allowance for projected salaries. There was therefore a deficit in the Fund of £186.6 million. The principal reasons for the change in the funding position (with figures being rounded to whole £m) are as follows:



#### **Maximum funding**

1.7 The Fund's funding level on the maximum funding test under the Income and Corporation Taxes Act 1988 is less than 105% and therefore this test does not impinge on the decisions regarding the contribution rates payable to the Fund. The necessary certificate confirming this position is included in this report.

#### Funding plan

1.8 The average employer contribution rate required to meet the funding objective is:

10.4% of Pensionable Pay (i.e. the Common Contribution Rate)

plus

7.1% of Pensionable Pay for a period of 30 years (to remove the deficit).

In the absence of other factors impinging on the Fund, average contributions at the above level would mean a gradual improvement in the funding level of the Fund so that at the end of 30 years the funding level would have increased to 100% (based on the actuarial assumptions detailed in Section 3).

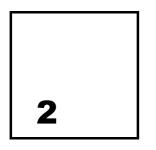
Additional capital contributions are payable in relation to non-ill health early retirements.

1.9 In practice, each employer's position is separately assessed and our certificate confirming the individual employer contribution rates payable for the period 1 April 2005 to 31 March 2008 is attached to this report. These individual rates take into account the differing circumstances of each employer and the funding plan, as laid down in the Funding Strategy Statement, in particular in relation to deficit recovery period and implementation of increases in employer contributions where these are required.

#### **Investment strategy**

- 1.10 It has been assumed that the Administering Authority will continue to invest a significant portion of the assets of the Fund in UK and overseas equities and that these will produce a future investment return that exceeds the current yield available on bonds.
- 1.11 Alternative investment strategies could be followed that would minimise the risk of deterioration in the Fund's funding position. One such strategy would be to invest the assets of the Fund primarily in long-term fixed and index-linked bonds. This strategy would substantially reduce the risk that changing economic conditions will cause deterioration in the Fund's funding position. It would also tend to produce a more stable contribution rate but at a much higher overall level than indicated on the valuation assumptions.
- 1.12 This alternative strategy would involve investing more significant portions of the assets in bonds. This would lead directly to higher contribution rates since it would no longer be appropriate to anticipate the higher investment return that is generally achieved by equities.

- 1.13 It is recommended that the Administering Authority reviews investment objectives and strategy regularly. The broad purpose of such reviews should be:
  - to review the investment risk associated with different investment strategies and
  - to confirm that the current strategy remains appropriate, or otherwise, to act as a stimulus for change.
- 1.14 The analysis in Appendix G illustrates the level of risk inherent in the Fund's current investment strategy by showing the scope for variation in the past service funding level over the next three years.



## Valuation objectives and method

#### Valuation objectives

- 2.1 The valuation has been undertaken in accordance with the provisions of the Local Government Pension Scheme Regulations 1997 (as amended) ("the Regulations"). Under the Regulations, the contribution rates set for the various participating employers are determined by the Fund's actuary, having regard to the Funding Strategy Statement (FSS).
- 2.2 The FSS has been prepared by the Administering Authority, in accordance with Regulation 76A of the Local Government Pension Scheme Regulations 1997 (as amended), after taking account of guidance issued by the Chartered Institute of Public Finance and Accountancy (CIPFA), and after consultation with the participating employers.
- 2.3 The funding objective of the Fund is to achieve and then maintain assets equal to 100% of projected accrued liabilities, assessed on an ongoing basis including allowance for projected final pay. The funding plan, in accordance with the FSS, is to achieve the funding objective over a maximum period of 30 years.

#### Valuation method

- 2.4 The same actuarial method, namely the Projected Unit method, has been used at this and the previous valuation. The Projected Unit method is consistent with the funding objective and is in common use for funding pension funds in the United Kingdom.
- 2.5 The recommended contribution under the Projected Unit method consists of two parts:

• the **Common Contribution Rate** required to meet the cost of benefits accruing for service after the valuation. This is calculated as the value of benefits expected to accrue to the membership in respect of one year's service based on projected salaries, with appropriate allowance for administrative expenses and members' contributions,

#### plus

- the **contribution adjustment** required to correct (over an agreed future period) any imbalance between the assets of the Fund and the funding objective.
- 2.6 For a given set of actuarial assumptions, the method has the following characteristics:
  - if the membership profile remains stable in terms of age and sex, then the Common Contribution Rate (as a percentage of Pensionable Pay) will remain stable. The method therefore implicitly allows for new entrants;
  - if the supply of new entrants to the Fund is cut off or declines, then the Common Contribution Rate will tend to rise at future valuations.

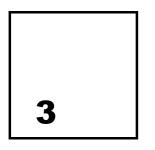
#### **Selection of assumptions**

#### **Common Contribution Rate**

- 2.7 As described above, the Common Contribution Rate to the Fund is calculated as the value of benefits expected to accrue to the membership in respect of one year's service based on projected salaries and assessed on the valuation assumptions (see Section 3 for further details).
- 2.8 Under the Regulations, the actuary must have regard to the desirability of maintaining as nearly constant an employer contribution rate as possible. We have therefore used long-term actuarial assumptions (a "nominal yield basis") to calculate the Common Contribution Rate.

#### **Contribution adjustment**

2.9 As described above, an adjustment is made to the Common Contribution Rate to correct (over an agreed future period) any imbalance between the assets of the Fund and the funding objective (i.e. the present value of benefits based on completed service including provision for the effects of future salary growth and inflation up to the assumed retirement age). To determine the adjustment, assets and liabilities must be calculated on a consistent basis. The funding objective has been calculated on valuation assumptions (see Section 3 for further details) that are consistent with market conditions on the valuation date (a "current yield basis"), and the assets have been taken at their market value at that date.



## **Valuation assumptions**

- 3.1 The valuation results depend on the assumptions used. There are two broad categories of assumptions:
  - financial assumptions such as the investment return that will be earned in the future and the rates at which earnings and pensions will increase; and
  - demographic assumptions such as rates of mortality, retirement, and withdrawal from the Fund.
- 3.2 The financial and demographic assumptions are considered separately below. A number of changes have been made to the assumptions used for the last actuarial valuation. These have been noted below.
- 3.3 In addition, there are special considerations in respect of the assumptions to adopt when calculating individual employer contribution rates. These issues are considered at the end of this section.

#### Financial assumptions – past service

- 3.4 In setting any actuarial basis, it is important to appreciate that the differences between the financial assumptions, (for example, the real returns above price and salary inflation) are more significant for the valuation result than the absolute rates of investment return and price/salary inflation individually.
- 3.5 The financial assumptions for valuing past service liabilities have been derived from the long-term yield on Government bonds in the market at the valuation date. The table below compares the key market yields on the valuation date with the corresponding yields at the last valuation:

	Valuation date	Previous valuation
Annualised yield on long-dated fixed gilts	4.6%	4.6%
Annualised yield on long-dated index-linked gilts	1.8%	2.3%
Long term expectation for annual price inflation	2.8%	2.3%

#### **Investment return**

- 3.6 In considering the past service investment return assumptions the following have been taken into account:
  - the return available on long-dated gilts of 4.6% per annum.
  - the expected out-performance over gilts in the long-term from other asset classes, such as equities, held by the Fund. It is a matter of judgement what the expected out-performance relative to gilts should be.
  - In considering the allowance for expected out-performance relative to gilts, it must be recognised that this will primarily be generated by the Fund's equity investment content. The proportion of the Fund invested in equities is a relevant factor, but the higher the equity content adopted (in pursuit of higher overall returns) the greater will be the volatility in funding outcomes from one valuation to the next.
  - For this valuation, the out-performance assumption for valuing past service liabilities has been set at 2.0% per annum for the period pre-retirement and 0.5% for the period post-retirement. The allowance for this outperformance is based on the liability profile of the Fund, with a higher assumption in respect of the "pre-retirement" (i.e. active and deferred pensioner) liabilities than for the "post-retirement" (i.e. pensioner) liabilities. This approach allows for a gradual shift in the overall equity/bond weighting of the Fund as the liability profile of the membership matures over time.

At the 2001 valuation an asset out-performance assumption of 1.0% per annum for the period pre and post-retirement was used to value past service liabilities.

#### **Pension increases**

3.7 The Fund guarantees to increase the pension in payment in line with price inflation. Therefore, for valuing past service liabilities the pension increase

assumption has been set equal to the long term current expectation for price inflation (i.e. 2.8% per annum as shown above).

#### **Pensionable Pay increases**

3.8 It has been assumed that increases in Pensionable Pay will be 1.75% per annum above the assumed increase in price inflation of 2.8% per annum i.e. a total increase of 4.55% per annum for valuing past service liabilities. At the 2001 valuation Pensionable Pay was assumed to increase at 1.5% per annum in excess of price inflation and in addition a salary scale was included for certain members to reflect promotional increases. No salary scale has been included for this valuation. This is explained further under "Demographic assumptions" below.

#### Financial assumptions – future service

3.9 In deriving the assumptions to be used for assessing the future service contribution rate (the Common Contribution Rate), account has been taken of the fact that contributions will be invested in market conditions applying at future dates, which are unknown at the present time and are not directly linked to market conditions at the valuation date. Further, the future service liabilities for which these contributions will be paid have a longer average duration than the past service liabilities. Given this, a "longer-term" view has been taken in setting the future service basis with the result that the financial assumptions adopted are essentially the same as for the previous valuation. The allowance for Pensionable Pay increases above price inflation has, however, been changed in the same way as for past service.

#### **Financial assumptions - summary**

3.10 In summary, the financial assumptions adopted for the valuation (2001 valuation assumptions shown in brackets) are as follows:

	Past service	Future service
Investment return (pre retirement)	6.6% pa (5.6% pa)	6.5% pa (6.5% pa)
Investment return (post retirement)	5.1% pa (5.6% pa)	6.5% pa (6.5% pa)
Pensionable Pay increases	4.55% pa (3.8% pa)	4.25% pa (4.0% pa)
Pension increases	2.8% pa (2.3% pa)	2.5% pa (2.5% pa)

#### **Demographic assumptions**

- 3.11 The demographic assumptions used for the valuation cover factors such as rates of withdrawal, ill health retirements and proportions married.
- 3.12 In relation to members in active service, we have traditionally differentiated between manual and officer members in connection with such areas as the

assumed rates of early retirement in ill-health, early leaving and assumed future promotional pay rises. However, with the advent of "single status" employment, it is often no longer possible to identify in LGPS pension scheme records whether an employee should be described as "manual" or "officer". We have therefore brought the demographic assumptions for both groups into line with one another at this valuation. For this purpose, we have adopted the assumed rates of ill-health retirement and/or leaving as were previously applied to officer members. In addition we have removed the assumed promotional salary scale which applied to officers, and replaced it with an overall increase in the assumed earnings inflation rate of 0.25%.

3.13 The most important of the demographic assumptions are discussed below. In addition, an analysis of actual experience during the intervaluation period, compared with that expected on the demographic assumptions adopted at this valuation, is set out in Appendix F.

#### Early retirement

3.14 Some members are entitled to receive their benefits unreduced from an age prior to the Fund's normal pension age under the "Rule of 85" provisions of the Regulations. This age will be at some point between ages 60 and 65, depending on the length of a member's pensionable service. Our calculations in respect of past service allow for a proportion of the active membership to retire in normal health prior to age 65, as set out below.

	% retiring per annum	% retiring per annum
Age	Males	Females
60	24.0	41.0
61	15.0	20.0
62	21.0	20.0
63	22.0	19.0
64	26.0	23.0

- 3.15 For future service the situation is different since the "Rule of 85" rule has been removed for service from April 2005. Further detail of these changes is given in Appendix A. As a result of the changes, for future service we have assumed the earliest age at which unreduced benefits become an entitlement is 65 except for those members who have protected status under the transitional provisions.
- 3.16 As for the 2001 valuation, no allowance has been made for non-ill health early retirements prior to age 60. Additional capital contributions will be paid by employers in respect of the cost of these retirements.

3.17 We have allowed for outstanding contributions due in respect of early retirements occurring prior to the valuation date by offsetting the costs being met by the employer against the corresponding liabilities.

#### Ill health retirement

3.18 A small proportion of the members in service have been assumed to retire owing to ill health. The allowance for ill health retirements will be reviewed at future valuations. The following is an extract from the decrement table used.

	% retiring per annum	% retiring per annum
Age	Males	Females
35	0.06	0.11
45	0.29	0.38
55	1.25	1.70

#### Mortality

- 3.19 There has been a trend for people to live longer and this is expected to continue. Consequently, for this valuation lighter mortality assumptions have been adopted than used for the previous valuation in order to make some allowance for this improved longevity. It should be stressed, however, that the valuation does not make allowance for the full extent of the increased longevity indicated by the most recent mortality investigations. Therefore, this assumption will continue to be monitored in the light of general trends in mortality experience and the Fund's specific experience.
- 3.20 The following standard tables have been used:

Males	PMA92 Base rated down by 2 years	
Females	PFA92 Base rated down by 2 years	
Preserved Pensioners		
Males	PMA92 Base rated down by 2 years	
Females	PFA92 Base rated down by 2 years	
Current Pensioners		
Males	PMA92 Base	
Females	PFA92 Base	

For members who are assumed to retire in ill health from active status, their mortality assumption is as described above but rated up by 5 years (e.g. PMA92 BASE rated up by 3 years for males).

#### Withdrawals

3.21 This assumption relates to those members who leave the Fund with an entitlement to a deferred pension or transfer value. It has been assumed that members in service will leave the Fund at the following sample rates:

	% leaving per annum	% leaving per annum
Age	Males	Females
25	4.4	7.7
35	1.6	4.2
45	0.9	1.9

#### Proportion married and age difference

3.22 The Fund provides pensions to members' spouses on death. It has been assumed that the proportion of members married will be in accordance with the sample rates below. A further assumption has been made that wives are three years younger, on average, than their husbands.

	% married	% married
Age	Males	Females
25	34	56
35	81	84
45	92	93

#### **Discretionary benefits**

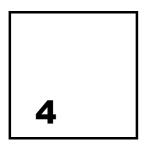
3.23 The costs of any discretion exercised by an employer in order to enhance benefits for a member through the Fund will be subject to additional contributions from the employer as required by the Regulations as and when the event occurs. As a result, no allowance for such discretionary benefits has been made in the valuation.

#### Individual employers

3.24 Having developed the assumptions in this way for the Fund overall, it is important to consider how the financial assumptions in particular impact on individual participating employers. As employers in the Fund will have different mixes of active, deferred and pensioner members, adopting a different pre/post retirement

investment return approach is equivalent to hypothecating a different equity/bond mix investment strategy for each employer. Such an approach would be inconsistent with the Fund practice, as set out in the FSS, of allocating investment performance pro rata across all employers based on a "mirror image" investment strategy to the whole Fund. In completing the calculations for individual employers, we have therefore adopted a combined single pre and post retirement asset out-performance assumption.

3.25 The funding plan adopted in setting individual contribution rates is in accordance with the FSS. Variations in deficit recovery periods adopted and the approach to phasing of contribution increases are as determined through the FSS consultation process and discussions between the administering authority and individual employers.



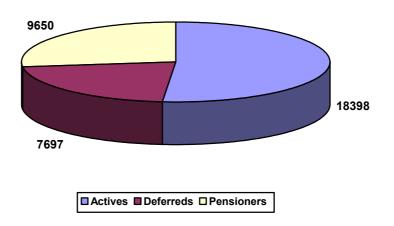
## Valuation data and trends

- 4.1 The valuation is based on three key items of data:
  - the membership of the Fund at the valuation date;
  - the benefits promised by the Fund as set out in the Regulations; and
  - the amount of assets held by the Fund on the valuation date.
- 4.2 The primary responsibility for the accuracy of the data provided is with the Administering Authority who may rely on others for the provision and maintenance of accurate data. Such reasonableness checks as are practicable have been carried out on this data. These checks do not guarantee the accuracy of the data.

#### Membership

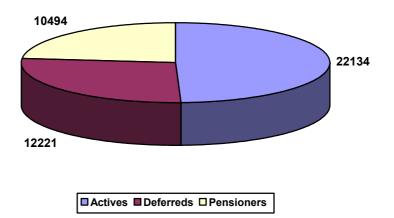
- 4.3 Data in relation to members in service, former employees with deferred pensions and current pensioners were obtained from computerised records maintained by the Fund administrators.
- 4.4 The following charts summarise the change in total membership since the 2001 valuation and also show the age profile of the active membership at this valuation. A more detailed summary of the membership data at the valuation date, with figures at the previous valuation date shown for comparison, is included as Appendix B. A split of the membership between the employers is shown in Appendix C.

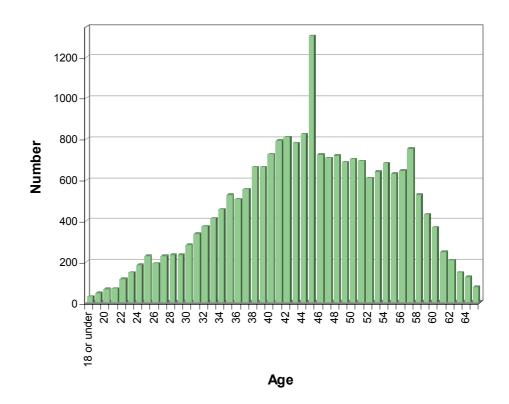
#### **Summary of Membership**











#### Age Profile of Active Members as at 31 March 2004

#### **Benefits**

- 4.5 The benefits provided by the Fund and taken into account in this valuation are set out in the Local Government Pension Scheme Regulations (as amended) as at the date of signing this report. The Regulations have been amended in a number of respects since the last valuation. The most significant changes that will impact on the benefits payable are set out in Appendix A. We have made no allowance for other changes which may be introduced in the future.
- 4.6 Benefits recharged to individual employers have been excluded from the calculation of the valuation liabilities.

The benefits arising from the award of compensatory added years (CAY) of service on premature retirement have been treated as follows, depending on when retirement took place:

• Retirements prior to 1 April 1996 (1 April 1995 in respect of North Yorkshire County Council) – benefits are fully funded within the Fund.

- Retirements from 1 April 1996 (1 April 1995 in respect of North Yorkshire County Council) to 31 March 1999 – the general position is that the CAY benefits (together with associated pension increases) are recharged to the relevant employer. These benefits are therefore excluded from the valuation. However, some employers have opted to discharge their liability in respect of CAY through payment of additional contributions to the Fund. We have been provided with details of these payments and made appropriate allowance in our calculations.
- Retirements after 31 March 1999 benefits are funded, subject to receipt by the Fund of appropriate additional contributions from the relevant employer. Again, details of payments outstanding have been provided to us and we have made appropriate allowance in our calculations.
- 4.7 UK and European law require pension schemes to provide equal benefits to men and women in respect of service after 17 May 1990 (the date of the "Barber" judgement). There is still no general agreement on whether this applies to inequalities caused by guaranteed minimum pensions (GMPs) and, if it does, what adjustments have to be made to scheme benefits to correct these inequalities. The valuation makes no allowance for equalisation of these inequalities. It is consequently possible that additional funding will be required for equalisation once the law has been clarified.

#### Assets

- 4.8 Details of the assets held by the Fund, and audited accounts covering the period ended 31 March 2004, were supplied by the Administering Authority. Full details of the assets are given in Appendix D, with a summary of income and expenditure in Appendix E.
- 4.9 The Fund's assets are invested in equities, bonds and other assets, in both UK and overseas markets using investment managers, who invest either directly in stocks or via pooled funds investing in such stocks.
- 4.10 The Fund has a money purchase additional voluntary contribution (AVC) facility to which members may choose to pay additional contributions to secure additional benefits. As the assets under this arrangement are used solely to meet and match, precisely, the AVC liabilities, they have been ignored for the purposes of this valuation.



## Summary of significant benefit changes

A number of changes have been made to the Regulations during the period since the last valuation. The significant changes are summarised below.

- 1. The introduction of benefits for Councillors in England and Wales.
- 2. The Local Government (Amendment) Regulations 2004 made the following principal changes from 1 April 2004:
  - Introduction of vesting of benefits after 3 months.
  - Introduction of the restriction of re-employed pensioners and deferred pensioners to have their service aggregated for benefit calculation purposes.
- 3. The Local Government Pension Scheme (Amendment) (No.2) Regulations 2004 make the following changes, effective from 1 April 2005:
  - Removal of "Rule of 85" retirement terms for benefits earned from scheme membership after 1 April 2005.
  - Normal retirement age of 65 for all members.
  - Increase in the earliest age from which retirement benefits may be paid, other than on grounds of ill health, from 50 to 55.

#### **Transitional Provisions**

There are a number of transitional provisions which protect different elements of benefits potentially payable from the Scheme in various circumstances. These protections can be summarised in the following categories:

#### (a) Protection of retirement benefits payable at the member's old Rule of 85 age.

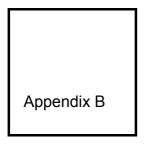
Benefits built up from service before 1 April 2005 will continue to be payable unreduced from the member's Rule of 85 age, where this falls before the normal retirement age of 65. Employer consent is still required for retirement prior to age 60.

## (b) Protection of unreduced retirement from the later of age 60 and Rule of 85 age, for members as at 31 March 2005 who attain age 60 on or before 31 March 2013.

These members will, if they retire on or after their Rule of 85 age (between ages 60 and 65), have no reduction applied to benefits in respect of service completed prior to 1 April 2013.

#### (c) Members aged 50 or more on 31 March 2005.

Such members will continue to be eligible for immediate payment of retirement benefits if made redundant prior to age 55, and also to retire at their own volition, subject to employer consent, prior to age 55 (although benefits may be reduced for early payment in the latter case).



## Summary of membership data

#### **Pensionable Employees**

	At 31.3.2001	At 31.3.2004	Increase (%)
Number	18,398	22,134	20.3
Annual Pensionable $Pay^{1}(\mathfrak{L})$	217,659,237	283,675,515	30.3
Average Pensionable Pay $(f)$	11,831	12,816	8.3
Average Age (years)	44.2	44.6	N/A
Average Reckonable Service (years)	6.8	6.1	-7.3

1. Pensionable Pay figures include actual pay for part-time employees.

#### **Preserved Pensioners\***

	At 31.3.2001	At 31.3.2004	Increase (%)
Number	7,697	12,221	58.8
Annual Pensions inclusive of Pension Increase (£)	8,309,452	12,664,718	52.4
Average Pension including Pension Increase (£)	1,080	1,036	-4.1
Average Age (years)	43.5	44.7	N/A

\* including frozen refunds and leaver options pending

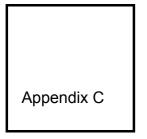
#### **Current Pensioners**

	At 31.3.2001	At 31.3.2004	Increase (%)
Number	7,807	8,536	9.3
Annual Pensions inclusive of Pension Increase (£)	27,716,931	31,225,744	12.7
Average Pension including Pension Increase (£)	3,550	3,658	3.0
Average Age (years)	69.0	69.5	N/A

#### **Current Widow/Widower Pensioners**

	At 31.3.2001	At 31.3.2004	Increase (%)
Number	1,702	1,823	7.1
Annual Pensions inclusive of Pension Increase (£)	3,400,707	3,810,444	12.0
Average Pension including Pension Increase (£)	1,998	2,090	4.6
Average Age (years)	74.4	74.8	N/A

In addition there were 135 current dependant pensioners as at 31 March 2004 with pensions in payment totalling £115,118 per annum.

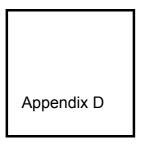


## Distribution of membership by employing bodies

Employing Body	Pensionable Employees	Preserved Pensioners	Pensioners	Widow(er)s
Ashville College	0	0	1	0
Askham Bryan College	97	50	29	2
Buy From The Blind Guild	0	0	0	1
City of York	4,614	1,890	1,015	206
Connexions York and North Yorkshire	1	0	0	0
Craven College	140	59	4	0
Craven District Council	220	132	160	45
Craven Housing	67	3	1	1
Department of Social Security	0	0	16	12
Department of Transport DVLC	0	0	2	2
Filey Town Council	0	0	1	0
H.C.A.T.	0	95	14	1
Hambleton District Council	345	170	151	47
Harewood Housing Society Limited	0	0	1	0
Harrogate Borough Council	1,129	599	493	133
Harrogate Society for the Blind	0	0	1	0
Joseph Rowntree Charitable Trust	10	4	4	1
North Yorkshire Business and Ed. Partnership	4	0	1	0
North Yorkshire CC & DoE Rent Officer	10,487	6,954	4,731	930
North Yorkshire Fire & Rescue Authority	122	7	14	0
North Yorkshire Magistrates Court Committee	128	71	52	13
North Yorkshire Moors National Park	116	44	14	3
North Yorkshire Police Authority	874	304	263	56
North Yorkshire Probation Committee	266	90	80	11
North Yorkshire TEC	0	95	6	1
Northern Procurement Group	2	0	0	0
Raynesway	293	29	10	1

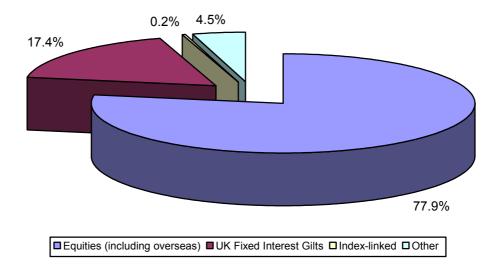
Employing Body	Pensionable Employees	Preserved Pensioners	Pensioners	Widow(er)s
Richmondshire District Council	270	154	136	38
Ryedale District Council	232	124	171	47
Ryedale Housing Association	80	23	6	0
Ryedale Sports and Recreation Limited	9	4	0	0
Scarborough Borough Council	933	449	649	187
Scarborough Sixth Form College	30	10	3	2
Selby Area Internal Drainage Board	0	0	0	1
Selby College	120	68	7	2
Selby District Council	336	228	212	42
St Sampsons Social Club	0	0	1	0
University of Hull, Scarborough Campus	95	36	19	0
York Archaeological Trust Ltd	3	3	1	0
York College	280	119	49	2
York Museums and Gallery Trust	76	11	5	2
York St John College	288	191	123	21
Yorkshire Coast College	160	95	33	3
Yorkshire Coast Homes Ltd	75	3	0	0
Yorkshire Dales National Park	136	48	11	3
Yorkshire Tourist Board	38	39	13	0
Yorkshire Water Authority	0	0	1	4
Grouped Scheduled Bodies	58	20	32	3
Totals	22,134	12,221	8,536	1,823

In addition to the above there were 135 dependant pensioners as at 31 March 2004.

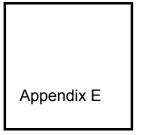


## **Summary of assets**

Based on the information supplied, the market value of the assets of the Fund (excluding AVCs) at the valuation date is £765,794,000. The distribution of assets is as follows:-

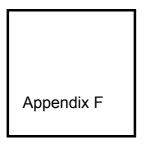


At the 2001 valuation, the market value of the Fund was £723,514,000. Therefore, the market value of the assets of the Fund has risen by 5.8 per cent over the three year period.



## Summary of income and expenditure

INCOME		Year ending 31 March		
	2002	2003	2004	Total
	£000s	£000s	£000s	£000s
Fund at beginning of year	723,514	732,278	584,001	723,514
Contributions to Fund:				
Employees	13,366	14,701	16,350	44,417
Employers	39,996	42,873	48,818	131,687
(including Early Retirement costs recharged)				
Transfer Values received	9,032	9,339	11,958	30,329
Investment income	18,127	16,388	12,873	47,388
Change in market value of investments				
(realised and unrealised gains)	-26,094	-181,845	142,127	-65,812
TOTAL:	777,941	633,734	816,127	911,523
EXPENDITURE		Year ending 31 March		
	2002	2003	2004	Total
	£000s	£000s	£000s	£000s
Retirement and Spouses' Benefits	31,953	32,973	34,181	99,107
Retiring allowances and death gratuities	5,029	5,351	6,501	16,881
Withdrawals	314	351	383	1,048
Transfer Values paid	5,496	8,448	6,383	20,327
Investment Expenses	1,997	1,723	1,964	5,684
Administration Expenses	874	887	921	2,682
Fund at end of year	732,278	584,001	765,794	765,794
TOTAL:	777,941	633,734	816,127	911,523



## **Experience Analysis of the Membership of the Fund** during the period 1 April 2001 to 31 March 2004

The analysis below compares the actual experience over the 3 year period with the assumptions used for the 2004 valuation.

#### 1. Ill Health Retirements

	Actual	Expected	%
Males	91	110	83
Females	141	304	46
Total	232	414	56

#### 2. Withdrawals

	Actual	Expected	%
Males	1,832	224	818
Females	6,261	1,190	526
Total	8,093	1,414	572

Note that actual withdrawals include members moving to another LGPS Fund, bulk transfers and also transfers under the special transfer club terms.

#### 3. Pensioner Deaths

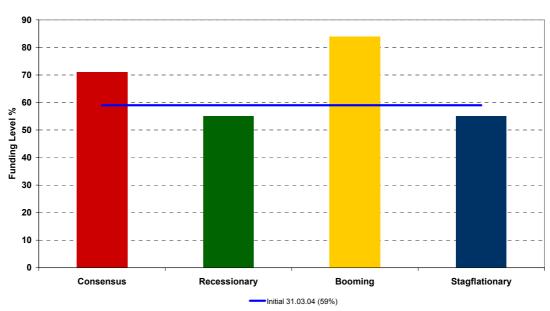
	Actual	Expected	%
Males	483	457	106
Females	493	474	104
Total	976	931	105



## Scenario analysis

- G.1 The ongoing valuation of the Fund has been carried out based on the assumptions set out in Section 3 of this report. The actual outcome is likely to be different from these assumptions, especially in the short term. Scenario analysis, carried out as part of the valuation process, shows the potential impact of a range of possible economic outcomes on the past service funding position and normal contribution over the next three years.
- G.2 The purpose of this process is two-fold:
  - to illustrate the potential variation in the funding level and normal contribution depending on the extent to which experience over the next three years differs from the assumptions; and
  - to highlight the risk (and potential rewards) inherent in the current investment strategy.
- G.3 The results of the analysis are set out below. At this stage the impact of changing investment strategy has not been considered.
- G.4 The scenarios investigated are designed to form a broad spectrum of possible outcomes and are neither equally likely nor intended to represent extremes. The investment assumptions underlying the various scenarios are designed to model possible short-term experience of the Fund over the next few years, as against the long-term valuation assumptions used in the ongoing valuation of the Fund. However, as the experience of the last three years has confirmed, returns on investments equities in particular do not always follow the logic implied by economic statistics; rather, the return depends significantly on how investors' views about the future at the end of the period of measurement compare with their corresponding views at the start.

- G.5 Full details of the actuarial assumptions underlying each scenario can be provided, if required. Some of the more extreme scenarios are designed to test the robustness of the investment strategy to critical conditions for the Fund, not because they are all equally likely. In summary, the four scenarios considered are:
  - Consensus (moderate growth, low inflation)
  - Recession (low growth, low inflation)
  - Boom (high growth, moderate inflation)
  - Stagflation (low growth, high inflation)
- G.6 The following chart shows the Fund's approximate ongoing funding level after three years under each scenario, assuming employer contribution rates from 1 April 2005 are paid as indicated in the Rates and Adjustments Certificate. This chart assumes that no changes would be made to the key actuarial assumptions underlying the valuation.



Scenario Analysis - Ongoing Funding Level at 31 March 2007

G.7 Changes in funding level will, of course, impact on future contribution requirements to the Fund, subject to any mechanisms which may be adopted to smooth out contribution rate fluctuations.



# Local Government Pension Scheme Regulations 1997 (as amended)

# Rates and Adjustments Certificate issued in accordance with Regulation 77

#### **Regulation 77(3)**

I hereby certify that, in my opinion, the Common Rate of employers' contributions payable in each year of the period of three years beginning 1 April 2005 should be at the rate of 10.4 per cent of Pensionable Pay.

I hereby certify that, in my opinion, the amount of the employers' contribution rate payable in each year of the period of three years beginning with 1 April 2005, as set out above, should be individually adjusted as set out in the attached Schedule.

A further individual adjustment shall be applied in respect of each non-ill health early retirement occurring in the period of the Rates and Adjustments Certificate. This further individual adjustment will be calculated in accordance with methods agreed from time to time between the Fund's actuary and the Administering Authority.

The contribution rates set out in the attached Schedule represent the minimum contribution which may be paid by each employer. Additional contributions may be paid if requested by the employer concerned.

#### **Regulation 77(7)**

As noted above, no allowance for non-ill health early retirements has been made in determining the results of the valuation, on the basis that the costs rising will be met by additional contributions. Allowance for ill health requirements has been included in each

employer's contribution rate, on the basis of the method and assumptions set out the report.

L.R.H.

Signature:

Name:

C R Hull FIA 14 March 2005

**Date of Signing:** 

Mercer Human Resource Consulting

Actuarial Certificate

## Schedule to the Rates and Adjustments Certificate dated 14 March 2005

	200	2005/06		2006/07		2007/08	
Major Scheduled Bodies	Individual Adjustment %	Total Contribution Rate %	Individual Adjustment %	Total Contribution Rate %	Individual Adjustment %	Total Contribution Rate %	
North Yorkshire County Council	8.2	18.6	8.3	18.7	8.4	18.8	
City of York Council	7.2	17.6	7.2	17.6	7.2	17.6	
Ryedale District Council	8.3	18.7	9.3	19.7	9.8	20.2	
Harrogate Borough Council	8.4	18.8	9.5	19.9	10.6	21.0	
Richmondshire District Council	10.5	20.9	10.5	20.9	10.5	20.9	
Selby District Council	8.5	18.9	8.5	18.9	8.5	18.9	
Craven District Council	12.5	22.9	13.5	23.9	14.5	24.9	
Hambleton District Council	6.3	16.7	6.3	16.7	6.3	16.7	
Scarborough Borough Council	9.4	19.8	9.4	19.8	9.4	19.8	
North Yorkshire Police Authority	8.5	18.9	8.5	18.9	8.5	18.9	

E.

	200	)5/06	200	2006/07		2007/08	
	Individual Adjustment	Total Contribution Rate	Individual Adjustment	Total Contribution Rate	Individual Adjustment	Total Contribution Rate	
Other Scheduled Bodies	%	%	%	%	%	%	
Askham Bryan College	6.1	16.5	6.1	16.5	6.1	16.5	
Craven College	2.0	12.4	2.0	12.4	2.0	12.4	
York College	2.2	12.6	2.2	12.6	2.2	12.6	
Selby College	2.3	12.7	2.3	12.7	2.3	12.7	
Yorkshire Coast College	2.4	12.8	2.4	12.8	2.4	12.8	
Scarborough Sixth Form College	4.2	14.6	4.2	14.6	4.2	14.6	
University of Hull, Scarborough Campus	3.0	13.4	3.0	13.4	3.0	13.4	
Fulford Parish Council	8.0	18.4	8.0	18.4	8.0	18.4	
Whitby Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Great Ayton Parish Council	8.0	18.4	8.0	18.4	8.0	18.4	
Northallerton and Romanby Burial	8.0	18.4	8.0	18.4	8.0	18.4	
Committee							
Selby Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Glusburn Parish Council	8.0	18.4	8.0	18.4	8.0	18.4	
Sutton-in-Craven Parish Council	8.0	18.4	8.0	18.4	8.0	18.4	
Foss Internal Drainage Board	8.0	18.4	8.0	18.4	8.0	18.4	
Skipton Town Council	13.8	24.2	13.8	24.2	13.8	24.2	
Ouse and Derwent Internal Drainage Board	8.0	18.4	8.0	18.4	8.0	18.4	
Marston Moor Internal Drainage Board	8.0	18.4	8.0	18.4	8.0	18.4	
Norton on Derwent Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Thornton Internal Drainage Board	8.0	18.4	8.0	18.4	8.0	18.4	
Richmond Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Malton Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Northallerton Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Pickering Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Hunmanby Parish Council	8.0	18.4	8.0	18.4	8.0	18.4	
Haxby Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Tadcaster Town Council	8.0	18.4	8.0	18.4	8.0	18.4	
Ripon City Council	8.0	18.4	8.0	18.4	8.0	18.4	

Mercer Human Resource Consulting

	2005/06		2006/07		2007/08	
	Individual Adjustment	Total Contribution Rate	Individual Adjustment	Total Contribution Rate	Individual Adjustment	Total Contribution Rate
Other Scheduled Bodies	%	%	%	%	%	%
Knaresborough Town Council	8.0	18.4	8.0	18.4	8.0	18.4
North Yorkshire Fire and Rescue Authority	4.8	15.2	4.8	15.2	4.8	15.2
North Yorkshire Moors National Park	5.1	15.5	5.1	15.5	5.1	15.5
Yorkshire Dales National Park	9.2	19.6	9.2	19.6	9.2	19.6
North Yorkshire Probation Committee	13.6	24.0	13.6	24.0	13.6	24.0
North Yorkshire Magistrates Courts Committee (Department for Constitutional Affairs)	£314,500	£314,500	£314,500	£314,500	£314,500	£314,500

	2005/06		2006/07		2007/08	
Admitted Bodies	Individual Adjustment %	Total Contribution Rate %	Individual Adjustment %	Total Contribution Rate %	Individual Adjustment %	Total Contribution Rate %
York St John College	3.4	13.8	3.4	13.8	3.4	13.8
Ryedale Housing	5.6	16.0	5.6	16.0	5.6	16.0
Yorkshire Tourist Board	-1.4	9.0	-0.2	10.2	0.9	11.3
York Archaeological Trust Limited	13.9	24.3	13.9	24.3	13.9	24.3
Joseph Rowntree Charitable Trust	6.8	17.2	6.8	17.2	6.8	17.2
Ryedale Sports and Recreation Limited	6.1	16.5	6.1	16.5	6.1	16.5
North Yorkshire Business and Education Partnership	27.0	37.4	27.0	37.4	27.0	37.4
Raynesway	8.4	18.8	8.4	18.8	8.4	18.8
Northern Procurement Group	6.7	17.1 + £14,000 p.a.	6.7	17.1 + £14,000 p.a.	6.7	17.1 + £14,000 p.a.
Connexions	2.5	12.9	2.5	12.9	2.5	12.9
York Museum & Gallery Trust	2.1	12.5	2.1	12.5	2.1	12.5

Mercer Human Resource Consulting

	2005/06		2006/07		2007/08	
	Individual Adjustment	Total Contribution Rate	Individual Adjustment	Total Contribution Rate	Individual Adjustment	Total Contribution Rate
Admitted Bodies	%	%	%	%	%	%
Craven Housing	-0.3	10.1	-0.3	10.1	-0.3	10.1
Yorkshire Coast Homes	1.3	11.7	1.3	11.7	1.3	11.7

#### Other interested bodies with no pensionable employees

Former Employers	Proportion of Pension Increases to be Recharged %
Filey Town Council	0
Department of Transport DVLC	100
Yorkshire Water Authority	100
Department of Social Security	0
St Sampsons Social Club	0
Ashville College	0
Selby Area Internal Drainage Board	0
Buy from the Blind Guild	0
Harewood Housing Society Limited	0
Harrogate Society for the Blind	0

A bulk transfer is pending in respect of Harrogate College former Fund members. Active members of the Fund in respect of the Magistrates Courts Committee will transfer to the Principal Civil Service Pension Scheme on 31 March 2005. From that date we have assumed that the Department for Constitutional Affairs (DCA) will be liable for the deficit payments required in respect of the pensioner and deferred pensioner liabilities, which will remain with the Fund. If the DCA's participation in the Fund were to be terminated the deficit position would be revised on a risk-free basis of assessment.



## **Surplus certificate**

The certificate is given to the Commissioners of Inland Revenue for the purposes of paragraph 2 of Schedule 22 to the Income and Corporation Taxes Act 1988.

Name of Fund

Signature:

North Yorkshire Pension Fund

Inland Revenue Reference No.

PS49/1897

- A. I hereby certify that:
- 1. In my opinion as at 31 March 2004 the value of the assets of the Fund did not exceed 105% of the value of the liabilities of the Fund;
- 2. The assets and liabilities to which paragraph (1) refers have been determined in accordance with principles and requirements prescribed by the Pension Fund Surpluses (Valuation) Regulations 1987.

L.K.H	TM.
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Name:	C R Hull
Date of Signing:	14 March 2005
Address:	Mercer Human Resource Consulting Limited Mercury Court, Tithebarn Street Liverpool L2 2QH
Qualification:	Fellow of the Institute of Actuaries



Mercury Court, Tithebarn Street Liverpool L2 2QH 0151 236 9771 Fax 0151 242 7346

