1 July 2018 - 30 June 2019



NZBS National Office 11 Great South Road Epsom 1051 Private Bag 92 071 Victoria Street West AUCKLAND 1142



## TABLE OF CONTENTS

1

## **1** INTRODUCTION

## PART I

| 2 | FORE  | CAST STATEMENT OF PERFORMANCE EXPECTATIONS:  | 10 |
|---|-------|--|----|
|   | Perio | d covered: 1 JULY 2018 TO 30 JUNE 2019   |    |
|   | 2.1   | Forecast Statement of Externally Focused Service Performance                                 | 11 |
|   | 2.2   | Forecast Statement of Internally Focused Service Performance (Capability and Input Measures) | 13 |

## PART II

| 3 | FINAN | FINANCIAL PLAN                   |    |  |  |  |  |  |
|---|-------|----------------------------------|----|--|--|--|--|--|
|   | 3.1   | Overview of Financial Plan       | 17 |  |  |  |  |  |
|   | 3.2   | Key Assumptions                  | 22 |  |  |  |  |  |
|   | 3.3   | Forecast Financial Statements    | 28 |  |  |  |  |  |
|   | 3.4   | Statement of Accounting Policies | 31 |  |  |  |  |  |



Copyright ©. This copyright work is licensed under the Creative Commons Attribution 3.0 New Zealand licence. In essence, you are free to copy, distribute and adapt the work, as long as you attribute the work to New Zealand Blood Service and abide by the other licence terms. To view a copy of this licence, visit <u>http://creativecommons.org/licenses/by/3.0/nz/</u>. Please note that the New Zealand Blood Service logo may not be used in any way which infringes any provision of the Flags, Emblems, and Names Protection Act 1981 or would infringe such provision if the relevant use occurred within New Zealand. Attribution to New Zealand Blood Service should be in written form and not by reproduction of the New Zealand Blood Service logo.

## **1 INTRODUCTION**

## <u>Purpose</u>

This Annual Statement of Performance Expectations has been prepared in accordance with the Crown Entities Act 2004 and should be read in conjunction with the July 2017 – June 2021 NZBS Statement of Intent (SOI).

It sets out how the New Zealand Blood Service (NZBS) will organise itself and prudently deploy resources (in line with both the new April 2018 Government Expectations on Employment Relations in the State Sector and the 20 June 2018 Letter of Expectation from the Minister of Health) to ensure transparency, collaboration and value for money in the support of New Zealand's healthcare sector. It identifies for Parliament and the New Zealand public what NZBS intends to achieve and how performance will be assessed, in order to deliver on the organisation's strategic goals<sup>1</sup> and its single enduring Output Class and Outcome:

# Health needs of people in New Zealand are supported by the availability of safe and appropriate blood, blood products, tissue products and related services.

## Government Expectations for the 2018/19 Financial Year

This Statement of Performance Expectations has been prepared taking into account the Minister's 20 June 2018 Letter of Expectations for the 2018/19 financial year, requiring NZBS to take a whole of sector view and;

- Focus on keeping costs to district health boards as low as possible while continuing to ensure the safe supply of blood and blood products as and when needed and;
- Continue to innovate where appropriate to support this goal.

NZBS will also adhere to the Minister's more general expectations of:

- Ongoing fiscal discipline and prudent financial management;
- Contributing as part of the team approach across the health and disability system, to continue to improve service delivery, building on progress that has already been made to achieve better results for New Zealanders;
- Continuing the commitment to ongoing continuous performance improvement, including publishing non-sensitive performance information on the NZBS website to demonstrate openness, transparency and accountability;
- Working constructively with the Ministry of Health as required for all functions undertaken by the New Zealand Blood Service;

## NZBS Strategy

The NZBS strategy is explained in detail in the Statement of Intent. What NZBS plans to achieve in the 2018/19 year as detailed in Part I of this document is linked to the following seven strategic goals:

|    | Strategic Goal   |
|----|--|
| 1. | NZBS builds on core capabilities to provide a range of products and services which are appropriate to New Zealand health needs and priorities.   |
| 2. | NZBS achieves the highest possible safety and quality standards in all that it does.   |
| 3. | NZBS manages a sustainable donor population capable of supporting ongoing product demand in New Zealand.   |
| 4. | NZBS relationships with other health sector entities are mutually supportive and productive.   |
| 5. | NZBS has a sustainable, competent and engaged workforce.   |
| 6. | NZBS uses international best practices and internal Research and<br>Development capabilities to improve and develop products and services<br>for the New Zealand health and disability sector. |
| 7. | NZBS is a financially sustainable organisation operating effectively and efficiently.  |

## **Business Improvement Activities**

In addition to maintaining a safe and secure supply of blood, blood products, tissue products and related services at all times, NZBS's main areas of focus for the 2018/19 year are related to the following business improvement activities:

### Ensuring Appropriate Blood Product Utilisation

NZBS is a demand driven service. It works in partnership with prescribing clinicians in the District Health Boards (DHBs) and with Hospital Transfusion Committees to ensure clinically appropriate utilisation of blood and blood products. This is very effective, as evidenced by the ongoing reduction in demand for Red Blood Cells (RBCs) as DHBs, with the support of NZBS, have progressively implemented patient blood management programmes. This reduction in RBC prescribing, whilst good medical practice and overall reducing sector costs, does create financial challenges for NZBS with the associated loss of production volume and product dispensed.

Immunoglobulin product (IVIg) utilisation is also closely managed and monitored, as this drives plasmapheresis collection activity. Historically, the rate of growth in New Zealand has been lower than that seen in other countries. For example, growth in Australia is consistently between 11-13% per annum, whereas up until 2015 NZBS growth was on average 6.5% per annum and since then it has reduced to between 0 - 4%.

While the 2017/18 financial year has seen an 11% increase in IVIg demand growth, a medium growth outlook (5% per annum) for immunoglobulin is reflected over the current 4 year planning horizon.

These changes in demand are forecast to continue into the 2018/19 financial year therefore NZBS will continue to flex its collection activity to align with actual demand in order to minimise expiry levels.

## **Collections and Facilities**

Over the period of this SPE and the associated SOI, NZBS will seek to ensure optimum efficiency of the blood collection and processing network. This will include;

• Establishment of processing of Haematopoietic Progenitor Cells (HPC) at the Wellington site from late 2018. This will provide support for the stem cell therapy programme in the Central region.

- During 2018, planning will be finalised for the refurbishment and improvement of the main Auckland laboratory facilities. By 2022 this will provide a second future proofed processing facility (along with Christchurch) capable of servicing the blood supply needs for the whole of New Zealand if required.
- The Auckland site also houses the National Tissue Typing and National Reference Laboratory. Growth and new technologies in these areas requires an update in space and configuration planned over the next 2 3 years.
- NZBS leases all of its buildings and regularly reviews its overall facility infrastructure in response to changes in forecast collection and manufacturing requirements. The major changes planned are to ensure that New Zealand maintains at least two hub sites capable of processing the blood product supply for the entire country whilst providing the most cost effective method of supply chain management and service delivery.
- NZBS will deploy business improvement programmes across our major sites, utilising LEAN methodologies, to ensure that we can minimise the capital outlay needed to extend and refurbish those sites. Staff will be supported to lead the redesign of their working environments with particular focus on the Auckland hub site which has been signalled for extension and/or refurbishment for several years.
- Due to the continued decline in demand for red blood cells and the increasing cost of facility operations we will consider the potential rationalisation of red blood cell only collection sites. We will ensure that donors continue to have the ability to donate locally by enhancing mobile collections where efficient to do so.

## Business Improvement activities

Safety is the cornerstone of everything that NZBS does, therefore quality and ongoing process improvement is embedded in the way that we work.

- A major focus for business improvement activity for 2018/19 will be the area of productivity improvements in donor services and technical services. We have built in savings to reflect this activity both in cost avoidance terms and real savings in operations.
- During 2018/19 NZBS will accelerate process improvements through our 'Process Excellence' programme, aimed at implementing LEAN systems and processes across NZBS operations. This is multi-year activity based on a programme of work which will engage and develop staff from the front-line in delivering meaningful improvements, building on NZBS's culture of safety and excellence. In addition to direct process improvements, savings targets associated with these projects have been incorporated within the financial projections.
- Following a successful Executive management restructure in 2017 we will complete further realignment of the management teams during calendar year 2018.

## Sector Relationships

The critical relationship for NZBS is with the District Health Boards (DHBs). Over the term of the current Statement of Intent (SOI), NZBS aims to further develop its strategic relationship with the DHBs to ensure the sector works collaboratively to develop a strategy for blood management in New Zealand so providing a proactive response to changing demand patterns whilst ensuring prudent financial considerations.

Addressing the overall cost to the sector remains challenging, particularly in light of the ongoing volume decline in fresh product issues and will require NZBS to focus strongly on

business improvement opportunities for cost containment, use technologies to drive efficiencies and ensure optimal skill mix models are in place in our workforce.

As New Zealand's national blood service we are proud and honoured to support the health needs of New Zealanders. As a demand driven organisation, central to our purpose and decision making is our core focus to meet the needs of patients, donors and health sector stakeholders who utilise our services, in a safe, sustainable, high quality manner.

Customer feedback, clinical engagement, research and surveys help inform and guide our focus on business improvement and service strategy. Over the coming year we plan to grow our external partnerships and strategic engagements to ensure we are proactively planning and meeting changing service demand.

## **Financial Plan**

As a demand responsive service within the public health and disability sector, NZBS has a constant focus on improving its performance, increasing efficiencies and containing costs wherever possible. Business improvement initiatives, centred on the application of LEAN methodologies that focus on collaborative team efforts to improve performance by systematically removing waste and reducing variation, have been incorporated in the financial forecasts covering this planning period.

Infrastructure investment has, over the last few years, been a focus and this focus is maintained over this 4 year planning period. Such investment does introduce additional cost to the business, for example higher depreciation charges not all of which could / can be immediately offset by savings initiatives with the inevitable influence on price setting decisions.

NZBS has a statutory responsibility to balance the Minister's and DHBs' expectation of minimising any price increase to the sector with the Crown Entities Act 2004 obligation to maintain financial viability. Achieving that necessary balance is a constant challenge particularly in a period of falling or largely minimal demand growth, noting a low growth outlook continues to be forecast over this 4 year planning period.

#### **Price Setting**

In its annual setting of prices for the sector NZBS is required to balance a range of price setting considerations not all of which naturally align. The considerations that must be taken into account as part of the price setting process comprise;

- Working to a breakeven earnings position accepting that does not mean NZBS cannot plan for a deficit or surplus;
- Maintaining the Board's collective duty to ensure NZBS operates in a financially responsible manner at all times;
- Ensuring sufficient cash is generated from operating activities to enable capital funding to be available to ensure equipment and infrastructure are maintained;
- Ensuring the Crown's Capital Charge levy totalling \$8.93m over the 4 year planning period can be funded in addition to the normal operational expenditures.

As an operating principle NZBS is committed to working to keep its annual price settings to a minimum albeit that expectation required to be balanced against the need to behave in a financially responsible manner.

In the current planning period NZBS has found it extremely challenging to set its prices at desired minimum levels, defined at below 2% p.a. in the face of ongoing fresh product volume decline, primarily red cells, combined with cost input pressures ranging from expected elevated increases in labour costs through to toll fractionation charges for fractionated product manufacture.

In addition NZBS is shortly to celebrate its 20<sup>th</sup> year since establishment and with that milestone is the recognition of the need to ensure key areas of infrastructure continue to be adequately maintained to ensure NZBS remains a fit for future purpose essential service provider.

The price settings forecast for the key product categories and overall weighted price increases over the 4 year planning period are set out below.

| Heading  | Actual<br>2016/17 | Forecast<br>2017/18 | Forecast<br>2018/19 | Forecast<br>2019/20 | Forecast<br>2020/21 | Forecast<br>2021/22 |
|--|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Weighted Price Increase % –<br>All Products & Services | 1.87%             | 1.98%               | 3.98%               | 3.91%               | 2.64%               | 2.66%               |
| Weighted Price Increase % –<br>Fresh Products          | 1.63%             | 1.96%               | 3.46%               | 3.47%               | 1.99%               | 1.99%               |
| Weighted Price Increase % –<br>Fractionated Products   | 1.90%             | 2.19%               | 4.75%               | 4.76%               | 3.30%               | 3.27%               |
| Weighted Price Increase % –<br>All Blood Products      | 1.86%             | 2.06%               | 4.11%               | 4.12%               | 2.65%               | 2.67%               |
| Weighted Price Increase % –<br>All Services            | 2.13%             | 1.68%               | 3.40%               | 3.01%               | 2.56%               | 2.73%               |

Over the 2018/19 to 2021/22 4 year planning period NZBS is forecasting a compound volume increase of 7.24% and a compound price movement of 14.12%. This price movement compares with a forecast *'all groups'* compound CPI movement of 6.90%.

The long run NZBS price setting behaviour over the period 1 July 2007 to 30 June 2022, shows a *3.83% higher* compound price increase (net of price rebates to the DHBs) when compared to the annual compound CPI movement over the same period.

As a benchmark indicator this comparison is considered the best long run indicator of NZBS price setting behaviour over time, post any price rebates made to the sector.

## Price Rebates

NZBS has a mechanism in place to provide a price rebate to the DHBs in the event there is a level of earnings surplus which is not required by NZBS to meet and discharge its own financial obligations and responsibilities.

NZBS may generate additional revenue or make savings, as against budget setting, by events such as:

- increases in demand for products and services;
- improved fractionation yields;
- exchange rate gains; and/or
- internal cost efficiencies.

Since the price rebate mechanism was introduced in 2009 NZBS has paid \$9.95m in price rebates to DHBs, the last such payment in the 2014/15 financial year.

There is no planned price rebate for the 2018/19 financial year. The 4 year financial projections show no planned price rebates.

## Earnings Performance Outlook

NZBS is forecasting operating deficits for the first 2 years of the planning period effectively absorbing cost on behalf of the sector. In addition NZBS reports non-operating items relating to expenses associated with the Auckland hub site redevelopment project as well as those that arise from international accounting standards compliance obligations.

There are two reporting compliance items classified by NZBS as non-operating items namely;

- Accrued Rent Payable which is a charge arising from the compliance requirement to amortise the Christchurch Blood Centre lease over the term of the initial lease. In the first half of the lease term the amortised charge is higher than the actual lease payment. This difference is treated as a non-operating charge to earnings with a matching liability accrual within the Statement of Financial Position.
- Unrealised Foreign Exchange gains / (losses) arising from the requirement to mark forward exchange contracts held by NZBS to the market 'spot rate' at a month end or at balance date.

Both these items are non-cash in nature but impact the final reported earnings surplus or (deficit). A *cumulative operating deficit of \$1.49m* is forecast over the 4 year planning period, noting the latter 2 years of the planning cycle are forecasting small operating surpluses.

This financial forecast outlook remains consistent with the Minister's 30 April 2012 letter to the NZBS Chairman that clarified the expectation of ending the financial year at a breakeven position wherein it was further clarified as:

"The requirement to end the financial year at a break-even position does not necessarily mean NZBS should not plan for a deficit or surplus. Rather, it reflects the Board's collective duty to ensure that NZBS operates in a financially responsible manner." (letter from Minister to NZBS Chairman dated 30 April 2012)

| Earnings Performance Outlook           | Actual<br>2016/17 | Forecast<br>2017/18 | Forecast<br>2018/19 | Forecast<br>2019/20 | Forecast<br>2020/21 | Forecast<br>2021/22 |
|--|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| EBITDA (\$000s)                        | 7,318             | 5,938               | 5,581               | 8,429               | 9,837               | 9,818               |
| EBIT (\$000s)                          | 3,594             | 1,959               | 1,336               | 3,248               | 4,106               | 4,060               |
| Operating surplus / (deficit) (\$000s) | (11)              | (1,183)             | (796)               | (117)               | 1,143               | 994                 |
| Non-Operating items (\$000s)           | (62)              | 440                 | (630)               | (477)               | (785)               | (817)               |
| Reported surplus (deficit) (\$000s)    | (73)              | (743)               | (1,426)             | (594)               | 358                 | 177                 |

The NZBS earnings performance outlook over the forecast period is detailed below.

## **Demonstrating Financial Sustainability**

NZBS considers its financial sustainability and the ability to fund its capital programme from within its own financial resources is best demonstrated by the following specific measures namely;

- <u>EBITDA</u> representing the underlying Earnings performance Before Interest (finance and capital charges), Taxation (noting NZBS is income tax exempt), Depreciation and Amortisation (accrued rental liability) charges as well as any foreign exchange gains or (losses) realised or unrealised.
- <u>Cash generated from operating activities</u> noting NZBS is required to meet all its capital investment requirements from its operating earnings.
- <u>Available working cash</u> without recourse to either the term deposit programme or external funding sources in order to assist in meeting planned capital expenditure when that cannot be fully funded from operating cash flows, noting that those operating cash flows are in turn influenced by NZBS price settings.

 <u>Liquidity capability</u> that is available over and above the working cash position that could be utilised in a timely manner if the need arose. In the NZBS context in addition to the available working cash balance, liquidity capability would comprise the balance of the term deposit programme, excluding the Adverse Fractionation Event reserve funds of \$4.0m, plus the available undrawn funds under the NZBS funding facility.

The following table sets out these key NZBS financial sustainability metrics over the planning period.

| Heading  | Actual<br>2016/17 | Forecast<br>2017/18 | Forecast<br>2018/19 | Forecast<br>2019/20 | Forecast<br>2020/21 | Forecast<br>2021/22 |
|--|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| EBITDA (\$000s)  | 7,318             | 5,938               | 5,581               | 8,429               | 9,837               | 9,818               |
| % EBITDA to Revenue  | 6.45%             | 4.95%               | 4.42%               | 6.32%               | 7.06%               | 6.74%               |
| Cash Generated from Operating<br>Activities (\$000s)         | 3,870             | 5,526               | 3,098               | 4,855               | 6,763               | 5,240               |
| that provides for;   |                   |                     |                     |                     |                     |                     |
| Capital Expenditure Programme<br>(\$000s)                    | 5,088             | 5,473               | 9,304               | 8,557               | 9,000               | 8,117               |
| % of capital expenditure funded<br>from operating activities | 76.06%            | 100.00%             | 33.30%              | 56.74%              | 75.14%              | 64.46%              |
| Available Working Cash at year end (\$000s)                  | 3,927             | 3,727               | 1,916               | 1,785               | 2,827               | 2,809               |
| Liquidity Capacity within existing arrangements (\$000s)     | 11,927            | 11,727              | 9,916               | 9,785               | 10,827              | 10,809              |
| Equity ratio %   | 82.63%            | 83.14%              | 76.13%              | 71.68%              | 68.16%              | 65.46%              |
| Term Borrowings including finance<br>leases (\$000s)         | 8,280             | 7,836               | 11,672              | 14,478              | 17,284              | 19,617              |

The 2016/17 and 2017/18 financial years' capital expenditure reflects the eTraceline national blood bank management software project (\$8.14m) which successfully went live on 2 September 2017. The eTraceline software is an extension of the blood management system designed to support the blood banking functions across the DHB blood banking network.

The forecast levels of capital expenditure over the planning period include the planned redevelopment of the Auckland site at 71 Great South Road, Epsom. The redevelopment has a planned capital spend of \$15.70m covering the 2018/19 financial year through to the 2021/22 financial year.

NZBS is planning to fund this redevelopment via a finance leasing facility increasing term borrowings accordingly over the forecast planning period.

NZBS considers the financial management approach reflected in this set of financial forecasts represents an acceptable balancing between operational imperatives, the various competing stakeholder expectations and the requirement to maintain a sound financial position at all times.

NZBS confirms compliance over the 4 year planning period with its credit facility banking covenant obligations.

**Note:** The Financial Plan has made no allowance for the financial impact of any loss caused by blood component contamination or major manufacturing problems where the outcome is the responsibility of NZBS. In the 2014/15 financial year NZBS established an

Adverse Fractionation Events reserve of \$3.0m to ensure a measure of financial mitigation exists should an adverse manufacturing event occur. The balance of this reserve was increased to \$4.0m in 2016/17 following a risk assessment of the Toll Fractionation Agreement with CSL Behring (Australia) Pty Limited.

While component contamination has never occurred, these risks remain ever present and if triggered would represent a significant adverse financial event for the organisation. NZBS considers the establishment of the Adverse Fractionation Event reserve combined with the maintaining of a sound financial position provides reasonable assurance NZBS has the financial capacity to manage such an event out of its own financial resources.

Recourse to the process outlined in 2005 by the Ministry of Health would only occur when NZBS financial resources proved to be inadequate<sup>2</sup>.

This Statement of Performance Expectations is structured in two parts:

- Part I provides a concise tabulated explanation of how performance is to be assessed for the period 1 July 2018 to 30 June 2019 and in more general terms for the subsequent 3 years and consists of:
  - the Forecast Statement of Externally Focused Service Performance which NZBS will report against in its Annual Report for 2018/19; and
  - Forecast Statement of Internally Focused Service Performance (Capability) and Input Measures) relating to internal NZBS activities;
- Part II presents:
  - Forecast Financial Statements for the 4 years to 30 June 2022;
  - Supporting assumptions; and
  - Statement of Accounting Policies.

R Ward & Criffe.

David Chamberlain Chairman

Ian Ward Deputy Chairman

Sam Cliffe **Chief Executive** 

Date: 27 June 2018

## PART I

## 2 FORECAST STATEMENT OF SERVICE PERFORMANCE ACTIVITIES - 1 JULY 2018 TO 30 JUNE 2019

NZBS has one overall Output Class, comprising three interrelated outputs related to:

- Donors (and patients)
- Products and Services
- Supply Chain Management aligning supply with demand

Each of which collectively contributes to the achievement of the outcome below:

## New Zealand Blood Service Outcome

Health needs of people in New Zealand are supported by the availability of safe and appropriate blood, blood products, tissue products and related services

| OUTPUT   |                     | e 2018/19<br>ccl. GST) |
|--|---------------------|------------------------|
| Provision of a safe and effective blood service for all New Zealanders through supply and delivery of: |                     | •                      |
| Fresh Blood Components   | Revenue             |                        |
| Fractionated Blood Products  | Expenses<br>Deficit | \$128.83m<br>\$1.43m   |
| <ul> <li>Other products and related services</li> </ul>  | Denot               | ψ1.τυΠ                 |

## IMPACT STATEMENT

District Health Boards (DHBs) and private health providers receive a safe and secure supply of blood, blood products, tissue products and related services at the right place, at the right time to meet demand at ALL times.

The following table details the external service output performance measures for 2018/19 that will be reported against in the NZBS 2018/19 Annual Report.

These output performance measures are linked to NZBS's enduring outcome and the following two externally focused strategic goals:

## Strategic Goal 1:

**NZBS** builds on core capabilities to provide a range of products and services which are appropriate to New Zealand health needs and priorities; and

## Strategic Goal 4:

**NZBS** relationships with other health sector entities are mutually supportive and productive.

The outputs outlined below will apply for the 2018/19 year and as forecast for the subsequent 3 financial years to 30 June 2022.

## 2.1 FORECAST STATEMENT OF EXTERNALLY FOCUSED SERVICE PERFORMANCE

Performance measures relate to achievement of NZBS's two externally focused strategic goals and will be reported in the NZBS Annual Report.

| WHAT is intended to be achieved   |  |  |   | HOW performanc  | e will be asse  | essed each ye   | ar   |  |  |
|---|--|--|---|---|---|---|--|--|--|
| Performance Measures  | 2013/14  | 2014/15  | 2015/16   | 2016/17   | 2017/18   | 2018/19   | 2019/20  | 2020/21  | 2021/22  |
| 1. External output measures related to<br>Key Products and Services which<br>contribute to achievement of NZBS<br>Enduring Outcome and Strategic Goal<br>1.   | Actual   | Actual   | Actual  | Actual  | Forecast  | Target  | Target   | Target   | Target   |
| Product and Service availability  |  |  |   |   |   |   |  |  |  |
| 1.1 Key products and services are available at all times (24 x 7). Measure is instances when this is not achieved and which could potentially have a negative consequence for patients.   | ACHIEVED<br>0  | ACHIEVED<br>0  | ACHIEVED<br>0   | ACHIEVED<br>0   | 0   | 0   | 0  | 0  | 0  |
| 2. External output measures related to<br>Demand Management and the<br>relationship with DHBs which contribute<br>to achievement of Strategic Goal 4.   | Actual   | Actual   | Actual  | Actual  | Forecast  | Target  | Target   | Target   | Target   |
| 2.1 Planning and Communication with<br>District Health Boards (DHBs)  | ACHIEVED   | ACHIEVED   | ACHIEVED  | ACHIEVED  |   |   |  |  |  |
| NZBS will demonstrate a productive and<br>supportive relationship with the DHBs consistent<br>with maintaining a strategic partnership, including<br>proactively engaging with them through the Lead<br>DHB CEO to agree pricing matters in a timely<br>manner in order to inform preparation of DHB<br>Annual Plans. | Feedback<br>received from the<br>Lead DHB CEO<br>stated;<br>"NZBS has fully<br>met the<br>requirements of its<br>Planning and<br>Communications<br>with DHBs'<br>performance<br>measure" | Feedback<br>received from the<br>Lead DHB CEO<br>stated;<br>"NZBS has fully<br>met the<br>requirements of its<br>Planning and<br>Communications<br>with DHBs'<br>performance<br>measure" | Lead DHB CEO<br>confirmed an open<br>communication<br>process with<br>DHBs over price<br>setting and<br>utilisation patterns<br>to inform the new<br>financial year. To<br>quote: <i>"I believe</i><br>you have<br>developed an<br>open partnership<br>with me which will<br>hopefully see a<br>greater strategic<br>partnership<br>developed". | NZBS assessed its<br>communication<br>obligations to the<br>DHBs and<br>relationship<br>management were<br>met over the course<br>of the 2016/17<br>financial year.<br>However the Lead<br>CEO changed twice<br>during the year with<br>an extended period of<br>no Lead CEO. In<br>these circumstances<br>formal feedback<br>could not realistically<br>be expected. | NZBS to<br>receive<br>favourable<br>feedback from<br>the Lead DHB<br>CEO on<br>maintaining a<br>greater<br>strategic<br>partnership<br>and the timely<br>and relevant<br>provision of<br>information,<br>including any<br>issue<br>resolution over<br>the course of<br>the 2017/18<br>financial year. | NZBS to<br>receive<br>favourable<br>feedback from<br>the Lead DHB<br>CEO on<br>maintaining a<br>strategic<br>partnership and<br>the timely and<br>relevant<br>provision of<br>information,<br>including any<br>issue resolution<br>over the course<br>of the 2018/19<br>financial year. | NZBS to receive<br>favourable<br>feedback from the<br>Lead DHB CEO on<br>maintaining a r<br>strategic<br>partnership and<br>the timely and<br>relevant provision<br>of information,<br>including any issue<br>resolution over the<br>course of the<br>2019/20 financial<br>year. | NZBS to receive<br>favourable<br>feedback from the<br>Lead DHB CEO on<br>maintaining a<br>strategic<br>partnership and the<br>timely and relevant<br>provision of<br>information,<br>including any issue<br>resolution over the<br>course of the<br>2020/21 financial<br>year. | NZBS to receive<br>favourable<br>feedback from the<br>Lead DHB CEO on<br>maintaining a<br>strategic<br>partnership and the<br>timely and relevant<br>provision of<br>information,<br>including any issue<br>resolution over the<br>course of the<br>2021/22 financial<br>year. |

#### NZBS ANNUAL STATEMENT OF PERFORMANCE EXPECTATIONS 1 JULY 2018 - 30 JUNE 2019

|       | Performance Measures  | 2013/14  | 2014/15  | 2015/16  | 2016/17   | 2017/18   | 2018/19  | 2019/20   | 2020/21  | 2021/22  |
|-------|---|--|--|--|---|---|--|---|--|--|
| 2.2   | NZBS Reports for DHBs   | Actual   | Actual   | Actual   | Actual  | Forecast  | Target   | Target  | Target   | Target   |
|       | Monthly demand management reports<br>outlining purchase volumes by key product line<br>are provided to DHBs to assist them to manage<br>local usage and costs.  | ACHIEVED<br>Monthly reports<br>detailing product use<br>and expiry<br>information provided<br>to all 20 DHBs<br>throughout 2013/14.                          | ACHIEVED<br>Monthly reports<br>detailing product<br>use and expiry<br>information provided<br>to all 20 DHBs<br>throughout 2014/15.                          | ACHIEVED<br>Monthly reports<br>detailing product<br>use and expiry<br>information provided<br>to all 20 DHBs<br>throughout 2015/16.                          | ACHIEVED<br>Monthly reports<br>detailing product<br>use & expiry<br>information were<br>provided within set<br>timeframes to all 20<br>DHBs throughout<br>2016/17 | Reports are<br>provided to each<br>DHB by the 10h<br>working day of<br>the following<br>month.  | Reports are<br>provided to each<br>DHB by the 10th<br>working day of<br>the following<br>month.                            | Reports are<br>provided to each<br>DHB by the 10th<br>working day of<br>the following<br>month.           | Reports are<br>provided to each<br>DHB by the 10th<br>working day of<br>the following<br>month.              | Reports are<br>provided to<br>each DHB by<br>the 10th<br>working day of<br>the following<br>month.               |
| 2.3   | Clinical Oversight Programme  | Actual   | Actual   | Actual   | Actual  | Forecast  | Target   | Target  | Target   | Target   |
|       | All blood banks located in main DHB hospitals<br>(other than the 6 DHBs where NZBS is<br>responsible for blood bank provision) will<br>receive at least 1 NZBS Clinical Oversight visit<br>(and audit report) per year in order to enable<br>them to meet the requirements of ISO15189 for<br>IANZ Accreditation. | ACHIEVED<br>100% achievement<br>of a minimum one<br>clinical visit and<br>report per year to all<br>non NZBS managed<br>blood banks in main<br>DHB hospitals | ACHIEVED<br>100% achievement<br>of a minimum one<br>clinical visit and<br>report per year to all<br>non NZBS managed<br>blood banks in main<br>DHB hospitals | ACHIEVED<br>100% achievement<br>of a minimum one<br>clinical visit and<br>report per year to all<br>non NZBS managed<br>blood banks in main<br>DHB hospitals | ACHIEVED<br>100% achievement<br>of a minimum one<br>clinical visit and<br>report per year to all<br>non NZBS managed<br>blood banks in main<br>DHB hospitals      | 100%  | 100%   | 100%  | 100%   | 100%   |
| 2.4   | Haemovigilance <sup>3</sup> - Patient safety<br>(measured in calendar years)  | Actual for 2012<br>calendar year   | Actual for 2013<br>calendar year   | Actual for 2014<br>calendar year   | Actual for 2015<br>calendar year  | Target for 2016<br>calendar year  | Target for 2017 calendar year  | Target for 2018<br>calendar year  | Target for<br>2019 calendar<br>year  | Target for<br>2020 calendar<br>year  |
| 2.4.  | 1 To promote risk awareness and best<br>practice in transfusion, NZBS will publish<br>an annual Haemovigilance Report for<br>each calendar year and will share this<br>information with all DHBs to assist them to<br>reduce the incidence of adverse<br>transfusion related events.                              | ACHIEVED<br>2012 Annual<br>Haemovigilance<br>Report published<br>and distributed to<br>DHBs in November<br>2013 and posted on<br>the NZBS web-site.          | ACHIEVED<br>2013 Annual<br>Haemovigilance<br>Report published<br>and distributed to all<br>DHBs in December<br>2014 and posted on<br>the NZBS web-site.      | ACHIEVED<br>2014 Annual<br>Haemovigilance<br>Report published<br>and distributed to all<br>DHBs in December<br>2015 and posted on<br>the NZBS web-site.      | ACHIEVED<br>2015 Annual<br>Haemovigilance<br>Report published<br>and distributed to all<br>DHBs in December<br>2016 and posted on<br>the NZBS web-site.           | ACHIEVED<br>2016 Annual<br>Haemovigilance<br>Report published<br>and distributed to<br>all DHBs in<br>December 2016<br>and posted on the<br>NZBS web-site | 2017 Annual<br>Haemovigilance<br>Report published<br>and distributed to<br>all DHBs in the<br>December<br>Quarter of 2017. | 2018 Annual<br>Haemovigilance<br>Report published<br>and provided to<br>all DHBs by<br>quarter 2 of 2018. | 2019 Annual<br>Haemovigilance<br>Report published<br>and provided to<br>all DHBs by<br>Quarter 2 of<br>2019. | 2020 Annual<br>Haemovigilanc<br>e Report<br>published and<br>provided to all<br>DHBs by<br>Quarter 2 of<br>2020. |
| 2.4.2 | 2 Number of transfusion related adverse<br>events occurring as a result of an NZBS<br>"system failure" reported to the National<br>Haemovigilance Programme, with a severity<br>score greater than 1 and imputability score<br>classified as likely/probable or certain. <sup>4</sup>                             | ACHIEVED<br>0  | ACHIEVED<br>0  | ACHIEVED<br>0  | ACHIEVED<br>0   | 0   | 0  | 0   | 0  | 0  |

<sup>&</sup>lt;sup>3</sup> As part of the National Haemovigilance programme DHBs report adverse or unexpected transfusion related events or reactions in blood product recipients to NZBS. Internationally recognised Haemovigilance classification systems are used to determine severity and imputability (definitions included in glossary). More information on the NZBS Haemovigilance Programme can be found on the NZBS website at: <a href="http://www.nzblood.co.nz/Clinical-information/Haemovigilance-programme">http://www.nzblood.co.nz/Clinical-information/Haemovigilance-programme</a>
<sup>4</sup> This measure reports adverse events that have occurred as a result of NZBS "system failures" and therefore excludes adverse events resulting from a physiological reaction to the transfusion of a biological product.

## 2.2 FORECAST STATEMENT OF INTERNALLY FOCUSED SERVICE PERFORMANCE (CAPABILITY & INPUT MEASURES)

The following measures relate to achievement of NZBS's five internally focused strategic goals. They could be considered "proxy output measures" in the context of NZBS activities and are key contributors to NZBS's success in achieving its enduring outcome and the external output measures identified in Section 4 of the SOI. They will therefore also be reported in the NZBS Annual Report.

|     | WHAT is intended to be achieved  |   |   |  | HOW Performa  | nce will be asses  | ssed each year                      |   |   |   |
|-----|--|---|---|--|---|--|-------------------------------------|---|---|---|
|     | Performance Measures   | 2013/14   | 2014/15   | 2015/16  | 2016/17   | 2017/18  | 2018/19                             | 2019/20   | 2020/21                                 | 2021/22   |
| 3.  | Internal measures related to Products<br>and Service Quality which contribute to<br>achievement of Strategic Goal 2  | Actual  | Actual  | Actual   | Actual  | Forecast   | Target                              | Target  | Target                                  | Target  |
| 3.1 | <ul> <li>Donation Testing</li> <li>Each donation will be tested prior to use in accordance with the NZBS Manufacturing Standards (as approved by Medsafe).</li> <li>No product is released for issue to a patient until it has passed all safety tests and associated records are maintained.</li> </ul> | ACHIEVED<br>100% tested   | ACHIEVED<br>100% tested                                       | ACHIEVED<br>100% tested  | ACHIEVED<br>100% tested                                       | To maintain 100%<br>donation testing                           | To maintain 100% donation testing   | To maintain 100%<br>donation testing                                    | To maintain<br>100% donation<br>testing | To maintain 100%<br>donation testing                                    |
| 3.2 | <b>Regulatory Compliance - Medsafe</b><br>NZBS will ensure it maintains Medsafe licences<br>for its 6 main sites 100% of the time, to provide<br>an assurance of GMP compliance.   | ACHIEVED<br>100%<br>GMP Licensing<br>Compliance<br>maintained                   | ACHIEVED<br>100%<br>GMP Licensing<br>Compliance<br>maintained | ACHIEVED<br>100%<br>GMP Licensing<br>Compliance<br>maintained                | ACHIEVED<br>100%<br>GMP Licensing<br>Compliance<br>maintained | 100%<br>GMP Licensing<br>Compliance                            | 100%<br>GMP Licensing<br>Compliance | 100%<br>GMP Licensing<br>Compliance                                     | 100%<br>GMP Licensing<br>Compliance     | 100%<br>GMP Licensing<br>Compliance                                     |
| 3.3 | Regulatory Compliance – IANZ<br>(International Accreditation New<br>Zealand)<br>NZBS will ensure it maintains IANZ<br>accreditation 100% of the time at all of its<br>diagnostic laboratories.   | ACHIEVED<br>100% IANZ<br>accredited   | ACHIEVED<br>100% IANZ<br>accredited                           | ACHIEVED<br>100% IANZ<br>accredited  | ACHIEVED<br>100% IANZ<br>accredited                           | 100% IANZ<br>accredited  | 100% IANZ<br>accredited             | 100% IANZ<br>accredited   | 100% IANZ<br>accredited                 | 100% IANZ<br>accredited   |
| 3.4 | Regulatory Compliance – ASHI<br>(American Society of Histocompatibility<br>and Immunogenetics)<br>NZBS will maintain ASHI accreditation 100% of<br>the time at the national Tissue Typing<br>laboratory.   | MAINTAINED<br>100% ASHI<br>accredited<br>Biennial<br>on-site audit<br>completed | MAINTAINED<br>100% ASHI<br>accredited                         | MAINTAINED<br>100% ASHI<br>accredited<br>Biennial on-site<br>audit completed | MAINTAINED<br>100% ASHI<br>accredited                         | 100% ASHI<br>accredited<br>Biennial on site<br>audit completed | 100% ASHI<br>accredited             | 100% ASHI<br>accredited<br>Biennial on-site<br>audit to be<br>conducted | 100% ASHI<br>accredited                 | 100% ASHI<br>accredited<br>Biennial on-site<br>audit to be<br>conducted |

|     | Performance Measures  | 2013/14                               | 2014/15   | 2015/16                | 2016/17             | 2017/18  | 2018/19  | 2019/20  | 2020/21   | 2021/22   |  |  |
|-----|---|---------------------------------------|---|------------------------|---------------------|--|--|--|---|---|--|--|
| 4.  | Internal measures related to Donors<br>which contribute to achievement of<br>Strategic Goal 3   | Actual                                | Actual  | Actual                 | Actual              | Forecast   | Target   | Target   | Target  | Target  |  |  |
| 4.1 | Donor Population<br>NZBS maintains a donor population capable of<br>meeting the ongoing demand for blood and<br>blood products.   | -                                     | ese reported numbers represent the donor population required to meet demand and in any given year is constantly flexed to ensure demand gnment in order to minimise expiry. |                        |                     |  |  |  |   |   |  |  |
|     | Active whole blood & apheresis donor<br>panel.  | 112,744                               | 109,158   | 110,746                | 109,751             | 107,300  | 106,200  | 106,200  | 106,500   | 106,000   |  |  |
| NOT | E: The NZBS active Donor population, split betwee   | en whole blood and                    | l apheresis donor p   | anels maintained at le | vels to support ong | oing demand and ther                                 | efore may be above o                           | r below the original ta                        | rget set.   |   |  |  |
| 4.2 | <ul> <li>Donor Satisfaction</li> <li>Measure of overall satisfaction with the quality of service</li> <li>90% of donors give an 8 or higher score out of 10 of their experience/satisfaction with the service.</li> </ul>   | New Measure in 2016/17 Financial Year |   |                        | ACHIEVED<br>91.35%  | Greater than 90%<br>satisfaction with<br>the service | Greater than 90% satisfaction with the service | Greater than 90% satisfaction with the service | Greater than<br>90%<br>satisfaction with<br>the service | Greater than<br>90%<br>satisfaction with<br>the service |  |  |
|     | <b>JOTE:</b> This is ascertained by internal NZBS donor surveys conducted 6 monthly over the financial year. The first survey was conducted in June 2017. The survey results will be benchmarked against the Australian Red Cross Blood Service for comparative purposes. |                                       |   |                        |                     |  |  |  |   |   |  |  |

| Performance Measures  | 2013/14           | 2014/15           | 2015/16             | 2016/17           | 2017/18             | 2018/19             | 2019/20             | 2020/21             | 2021/22             |
|---|-------------------|-------------------|---------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 4.3 Targeted donor recruitment strategies   | Actual            | Actual            | Actual              | Actual            | Forecast            | Target              | Target              | Target              | Target              |
| 4.3.1 Recruit 2,900 new and reinstated Māori donors to the active donor panel (each year measure).  |                   |                   |                     |                   | 2,900               | 2,900               | 2,900               | 2,900               | 2,900               |
| 4.3.2 Recruit 11,000 new and reinstated youth donors between the ages of 16-25 on the active donor panel (each year measure) <sup>5</sup> . | Nev               | w Measures in 20  | 017/18 Financial Ye | ear               | 11,000              | 11,000              | 11,000              | 11,000              | 11,000              |
| NOTE: For clarity, the definition of a New Donor is a down which one blood donation was made within the last 12 r                           |                   |                   |                     |                   |                     |                     |                     |                     | o donations of      |
| 4.4 Raw Material (Collections) Inputs –<br>based on Demand Forecasts  | Actual<br>2013/14 | Actual<br>2014/15 | Actual<br>2015/16   | Actual<br>2016/17 | Forecast<br>2017/18 | Forecast<br>2018/19 | Forecast<br>2019/20 | Forecast<br>2020/21 | Forecast<br>2021/22 |
| 4.4.1 Total Whole Blood donations.  | 120,858           | 120,099           | 119,967             | 111,146           | 111,000             | 109,300             | 108,425             | 107,825             | 107,325             |
| 4.4.2 Total Plateletpheresis donations.   | 3,942             | 3,436             | 3,145               | 2.852             | 2,675               | 2,700               | 2,725               | 2,765               | 2,800               |
| 4.4.3 Total Plasmapheresis donations.   | 32,514            | 41,438            | 52,026              | 53,081            | 58,325              | 61,100              | 65,000              | 70,000              | 70,000              |
| 4.4.4 Total donations.  | 157,314           | 164,973           | 175,138             | 167,079           | 172,000             | 173,100             | 176,150             | 180,590             | 180,125             |

## NZBS ANNUAL STATEMENT OF PERFORMANCE EXPECTATIONS 1 JULY 2018 – 30 JUNE 2019

|   | Performance Measures   | 2013/14  | 2014/15   | 2015/16   | 2016/17   | 2017/18  | 2018/19   | 2019/20   | 2020/21   | 2021/22   |
|---|--|--|---|---|---|--|---|---|---|---|
| 5.  | Internal measures related to People<br>which contribute to achievement of<br>Strategic Goal 5  | Actual   | Actual  | Actual  | Actual  | Forecast   | Target  | Target  | Target  | Target  |
| 5.1   | Annual Employee turnover.  | 10.4%  | 8.1%  | 9.9%  | 10.6%   | 12.0%  | 12.0%   | 12.0%   | 12.0%   | 12.0%   |
| 5.2   | Employee Engagement Index Score from<br>biennial Staff Engagement Survey using the<br>JRA and Associates Survey Tool.  | 68.5%*   | No survey   | No survey   | 71.4% with an<br>84% survey<br>participation rate   | No survey  | Better than<br>the last<br>survey   | No survey   | Better than<br>the last<br>survey   | No survey   |
| NOTE: * NZBS focus over the 2012/13 and 2013/14 years was on money saving initiatives to address the then decline in revenue relating to reduced clinical prescribing of blood product. The impact of this cost focus combined with the closure of 2 whole blood collection centres during this period was considered the major contributory factor to the decline in the Employee Engagement Index Score. ** |  |  |   |   |   |  |   |   |   |   |
| 6.  | Internal measure related to<br>Development which contributes to<br>achievement of Strategic Goal 6   |  |   | Actual  | Actual  | Forecast   | Target  | Target  | Target  | Target  |
| 6.1   | Auckland Facility Redevelopment<br>Project<br>Successful completion of key project<br>milestones in accordance with Board approved<br>project plan.  | A new measu  | ure in 2015/16  | PROJECT<br>DEFERRED<br>The Board<br>deferred this<br>project until 2019<br>when NZBS will<br>occupy the whole<br>site, enabling<br>improved<br>flexibility for<br>refurbishment<br>work | No performance<br>Measure set for<br>2016/17 as<br>project deferred<br>pending further<br>re project<br>planning work | Business case and<br>associated project<br>plan for the<br>redevelopment of<br>the Auckland site<br>facilities approved<br>by the Board no later<br>than 30 June 2018. | Key milestones<br>achieved by 30<br>June 2019 in<br>accordance<br>with the<br>approved<br>Project Plan. | Key milestones<br>achieved by 30<br>June 2020 in<br>accordance<br>with the<br>approved<br>Project Plan. | Key milestones<br>achieved by 30<br>June 2021 in<br>accordance<br>with the<br>approved<br>Project Plan. | Key milestones<br>achieved by 30<br>June 2022 in<br>accordance<br>with the<br>approved<br>Project Plan. |
| 7.  | Internal measures related to Financial<br>Sustainability which contribute to<br>achievement of Strategic Goal 7  | Actual   | Actual  | Actual  | Actual  | Forecast   | Forecast  | Forecast  | Forecast  | Forecast  |
| 7.2   | Financial Management<br>Assure cost efficiency and value for money<br>management through maintenance of financial<br>sustainability in an environment which is<br>demand driven (i.e. changes in product<br>demand – mix and volume by the DHBs,<br>impacts on the NZBS financial result). | Surplus<br>Reported<br>Actual – \$864k<br>surplus<br>Rebate paid to<br>DHBs - \$2.0m | Surplus<br>Reported<br>Actual –<br>\$4.71m surplus<br>Rebate paid to<br>DHBs - \$3.55m. | Deficit reported<br>Actual - \$2.34m<br>deficit<br>No Rebate paid   | ACHIEVED<br>Deficit reported<br>Actual - \$0.08m<br>deficit on<br>revenue of<br>\$114.37m<br>No Rebate paid           | Forecast Deficit<br>Forecast deficit of<br>\$743k on revenues<br>of \$121.05m<br>No Rebate Planned   | Achievement of<br>budget<br>Forecast deficit<br>of \$1.43m.<br>No Rebate<br>Planned                     | Achievement of<br>budget<br>Forecast deficit<br>of \$594k.<br>No Rebate<br>Planned                      | Achievement of<br>budget<br>Forecast<br>surplus of<br>\$358k.<br>No Rebate<br>Planned                   | Achievement of<br>budget<br>Forecast<br>surplus of<br>\$177k.<br>No Rebate<br>Planned                   |

## PART II

## 3 FINANCIAL PLAN

## 3.1 OVERVIEW OF THE 4 YEAR FINANCIAL PLAN

The 2018/19 financial year plan together with the following three financial year projections have been based on the 2017/18 base year forecast, incorporating actual results and trending demand patterns evident in quarter 3 of the base year forecast.

The NZBS planning environment remains '*difficult*' with a demand outlook consistent with blood management practices being constantly assessed and refined by the District Health Boards (DHBs). The demand forecast for primary fresh products continues to decline (a generally global trend) with ongoing decline forecast over the four year planning period.

## Forecast Demand Patterns

Using the benchmark of "*Product issued / tests performed per 1000 head of population*" NZBS is forecasting the following demand trends over the planning period for its key blood products and services.

## (a) Fresh Products – 6.63% decline forecast in issues per 1000 head of population

|   | ACTUAL   | ACTUAL   | ACTUAL   | FORECAST | FORECAST | FORECAST | FORECAST | FORECAST |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| KEY INDICATORS                                      | FY 15    | FY 16    | FY 17    | Base Yr  | Budget   | Year 2   | Year 3   | Year 4   |
|   |          |          |          | FY 18    | FY 19    | FY 20    | FY 21    | FY 22    |
| - Total Fresh Products - units                      | 142,939  | 140,978  | 135,363  | 135,746  | 134,767  | 134,080  | 133,770  | 133,457  |
| - Fresh Products Annual % Volume Grow th            | 0.54%    | (1.37%)  | (3.98%)  | 0.28%    | (0.72%)  | (0.51%)  | (0.23%)  | (0.23%)  |
| - Fresh Products per 1,000 Head of Population       | 31.09    | 30.01    | 28.21    | 27.76    | 27.09    | 26.58    | 26.23    | 25.92    |
| - Per 1,000 Head of Population % Movement           | (1.36%)  | (3.47%)  | (6.00%)  | (1.61%)  | (2.42%)  | (1.89%)  | (1.31%)  | (1.18%)  |
| - Annual % Compound movement since base year - FY09 | (15.04%) | (16.20%) | (19.54%) | (19.31%) | (19.90%) | (20.30%) | (20.49%) | (20.67%) |

The historic and forecast metrics for the fresh product category is set out below.

The overall expectation is for a continuing volume decline over this planning period. Fresh product demand is forecast to be at 25.92 units issued per 1000 head of population by 2021/22. This represents a 6.63% decrease in issues per 1000 head of population over the 4 year planning period.

To put the quantum of fresh product decline in historic perspective the volume of fresh product issues in the 2008/09 financial year totalled 169,567 issues. The compound volume decline from that time to the 2021/22 volume forecast of 133,457 issues equates a volume decline of 20.67%. Volume decline of this magnitude makes it extremely difficult for any manufacturing operation to sustain a minimum price setting position.

The individual product trends within the fresh product category are detailed below;

| FRESH PRODUCT - INDIVIDUAL PRODUCT SETTINGS          | FY 15   | FY 16   | FY17    | FY 18    | FY 19   | FY 20   | FY 21   | FY 22   |
|--|---------|---------|---------|----------|---------|---------|---------|---------|
| - Red Cells - Units (excluding AB Credits)           | 107,992 | 106,389 | 101,228 | 102,050  | 100,823 | 100,087 | 99,601  | 99,115  |
| - Red Cells Annual % Volume Grow th                  | (0.61%) | (1.48%) | (4.85%) | 0.81%    | (1.20%) | (0.73%) | (0.49%) | (0.49%) |
| - Red Cells per 1,000 Head of Population             | 23.50   | 22.67   | 21.10   | 20.87    | 20.27   | 19.84   | 19.53   | 19.25   |
| - Per 1,000 Head of Population % Movement            | (2.46%) | (3.53%) | (6.92%) | (7.94%)  | (2.89%) | (2.11%) | (1.56%) | (1.43%) |
| - Platelets - Adult Doses excluding Buffy Coat sales | 13,279  | 13,511  | 14,295  | 14,547   | 14,784  | 14,895  | 15,009  | 15,120  |
| - Platelets Annual % Volume Grow th                  | (4.88%) | 1.75%   | 5.81%   | 1.76%    | 1.63%   | 0.75%   | 0.77%   | 0.74%   |
| - Platelets per 1,000 Head of Population             | 2.89    | 2.88    | 2.98    | 2.97     | 2.97    | 2.95    | 2.94    | 2.94    |
| - Per 1,000 Head of Population % Movement            | (6.66%) | (0.36%) | 3.59%   | 3.34%    | (0.11%) | (0.65%) | (0.32%) | (0.22%) |
| - Cryoprecipitate - units                            | 4,996   | 5,358   | 5,048   | 4,910    | 4,950   | 4,975   | 5,025   | 5,075   |
| - Cryoprecipitate Annual % Volume Grow th            | 5.11%   | 7.25%   | (5.79%) | (2.73%)  | 0.81%   | 0.51%   | 1.01%   | 1.00%   |
| - Cryoprecipitate per 1,000 Head of Population       | 1.09    | 1.14    | 1.05    | 1.00     | 0.99    | 0.99    | 0.99    | 0.99    |
| - Per 1,000 Head of Population % Movement            | 3.15%   | 5.02%   | (7.76%) | (12.05%) | (0.91%) | (0.89%) | (0.08%) | 0.03%   |
| - FFP Plasma - units                                 | 16,673  | 15,720  | 14,792  | 14,239   | 14,210  | 14,123  | 14,135  | 14,147  |
| - FFP Plasma Annual % Volume Grow th                 | 12.64%  | (5.71%) | (5.91%) | (3.73%)  | (0.20%) | (0.61%) | 0.08%   | 0.08%   |
| - FFP Plasma per 1,000 Head of Population            | 3.63    | 3.35    | 3.09    | 2.91     | 2.86    | 2.80    | 2.77    | 2.75    |
| - Per 1,000 Head of Population % Movement            | 10.54%  | (7.67%) | (7.88%) | (13.06%) | (1.91%) | (1.99%) | (0.99%) | (0.87%) |

# (b) Immunoglobulin Product – 15.3% forecast increase in grams issued per 1000 head of population

Unlike fresh product, Immunoglobulin product (comprising Intragam P, Evogam and Privigen product) is forecast to see modest year on year increases in demand.

|   | ACTUAL  | ACTUAL  | ACTUAL  | FORECAST | FORECAST | FORECAST | FORECAST | FORECAST |
|---|---------|---------|---------|----------|----------|----------|----------|----------|
| KEY INDICATORS                                      | FY 15   | FY 16   | FY 17   | Base Yr  | Budget   | Year 2   | Year 3   | Year 4   |
|   |         |         |         | FY 18    | FY 19    | FY 20    | FY 21    | FY 22    |
| IMMUNOGLOBULIN VOLUMES - GRAMS                      | FY 15   | FY 16   | FY17    | FY 18    | FY 19    | FY 20    | FY 21    | FY 22    |
| - Total immunoglobulin Sales Volumes - Grams        | 335,014 | 356,927 | 355,374 | 394,650  | 414,221  | 434,784  | 456,382  | 479,094  |
| - Total IVIg Annual % Volume Grow th                | 12.21%  | 6.54%   | (0.43%) | 11.05%   | 4.96%    | 4.96%    | 4.97%    | 4.98%    |
| - IVIg Average Annual Compound % Grow th since 2008 |         | 6.21%   | 5.45%   | 7.28%    | 7.37%    | 7.48%    | 7.61%    | 7.76%    |
| - Total IVIg Grams per 1,000 Head of Population     | 72.90   | 76.05   | 74.13   | 80.71    | 83.26    | 86.18    | 89.49    | 93.05    |
| - Per 1,000 Head of Population % Movement           | 10.11%  | 4.33%   | (2.52%) | 8.86%    | 3.17%    | 3.51%    | 3.84%    | 3.98%    |

The historic and forecast metrics for immunoglobulin product review is set out below.

Over the 9 years to 30 June 2017 immunoglobulin annual demand growth averaged 5.45% per annum. In the 2017/18 financial year the rate of annual increase accelerated to a forecast 11.05% growth rate. This rate of increase is not considered sustainable and a more modest level of future growth has been assumed for immunoglobulin product. Over this 4 year planning period the average annual growth rate is forecast at 5% per annum.

Immunoglobulin usage in 2011/12 totalled 64.67 grams per 1000 head of population. By 2016/17 this had increased to 74.13 grams per 1000 head of population, a 14.63% increase over that 5 year period. This level of immunoglobulin usage in New Zealand is significantly lower than what is reported internationally.

Based on the growth assumptions inherent in this plan the use of immunoglobulin product by 2021/22 is forecast to have grown to 93.05 grams per 1000 head of population. This translates to a 15.3% forecast demand increase per 1000 head of population over the 4 year planning period.

#### (c) Services – forecast 3.46% decrease in test volumes per 1000 head of population

The testing services and related activities performed by NZBS are forecast to have nominal annual growth over the 4 year planning period.

| SERVICES                                    | FY 15    | FY 16   | FY17    | FY 18   | FY 19   | FY 20   | FY 21   | FY 22   |
|---|----------|---------|---------|---------|---------|---------|---------|---------|
| - All testing Services - Total Test Volumes | 573,640  | 555,032 | 559,877 | 566,101 | 566,993 | 569,804 | 573,578 | 575,496 |
| - All Testing Annual % Test Volume Grow th  | (0.48%)  | (3.24%) | 0.87%   | 1.11%   | 0.16%   | 0.50%   | 0.66%   | 0.33%   |
| - All Tests Per 1,000 Head of Population    | 124.82   | 118.26  | 116.79  | 115.77  | 113.97  | 112.94  | 112.47  | 111.77  |
| - Per 1,000 Head of Population % Movement   | 4874.78% | (5.25%) | (1.24%) | (0.88%) | (1.55%) | (0.90%) | (0.42%) | (0.62%) |

The historic and forecast metrics for all testing services is set out below.

In 2011/12 the overall test volumes per 1000 head of population stood at 127.34 tests. By 2016/17 the test rate per 1000 head of population had dropped to 116.79 tests, an 8.28% decline over this 5 year period.

For the 2017/18 financial year the test volumes are forecast to have further reduced to 115.77 test units per 1000 head of population. This current plan forecasts that by 2021/22 test unit volumes will have continued to decline to 111.77 test units per 1000 head of population. This translates to a forecast service testing demand decrease per 1000 head of population of 3.46% over the 4 year planning period

| Growth Outlook                             | Actual<br>2016/17 | Forecast<br>2017/18 | Forecast<br>2018/19 | Forecast<br>2019/20 | Forecast<br>2020/21 | Forecast<br>2021/22 |
|--|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Blood Products - % Growth                  | (3.58%)           | 4.33%               | 1.50%               | 1.96%               | 2.09%               | 2.13%               |
| Services - % Growth                        | 2.13%             | 1.51%               | 0.11%               | 0.54%               | 0.73%               | 0.63%               |
| Overall NZBS % Growth<br>Profile Forecasts | (2.54%)           | 3.79%               | 1.24%               | 1.70%               | 1.84%               | 1.86%               |

The overall growth outlook forecast over the 4 year planning period is set out below.

The forecast outlook within a generally low growth demand profile for NZBS products and services creates financial challenges. NZBS is effectively funded via the sector's demand profile and the financial challenges in a low growth setting are expected to be mitigated by;

- The delivery of operational efficiencies aimed at reducing operational cost wherever possible and,
- the price setting mechanism, acknowledging the sector's expectation of price increases being kept to a minimum. This sector expectation must also be balanced against the requirement to ensure NZBS behaves in a financially responsible manner and within that responsible manner generating sufficient internal funding to ensure NZBS can set annual capital plans that ensure essential infrastructure remains appropriately maintained.

## **Operational Efficiencies**

Over this planning period, as noted above, an ongoing focus on delivering operational efficiencies remains a key focus in order to mitigate input cost pressures and reduce the pressure on the price setting mechanism.

NZBS has set itself a target of delivering \$4.72m in operational efficiencies over the planning period. This represents an average annual operational cost savings target of \$1.18m. Based on its experience to date of actively adopting LEAN methodologies and other business improvement techniques NZBS considers it is well positioned to securing those operational efficiency target settings.

## Infrastructure Maintenance

Over this planning period the programme of infrastructure maintenance and renewal continues with the level of forecast capital spend and depreciation over the planning period set out below.

| Capital Plan and Depreciation<br>Forecasts                    | Actual<br>2016/17 | Forecast<br>2017/18 | Forecast<br>2018/19 | Forecast<br>2019/20 | Forecast<br>2020/21 | Forecast<br>2021/22 |
|---|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Capital expenditure   | 5,088             | 5,473               | 9,304               | 8,557               | 9,000               | 8,117               |
| Depreciation  | 3,351             | 3,978               | 4,244               | 5,181               | 5,731               | 5,757               |
| Capital Spend Vs Depreciation<br>(capital greater = positive) | 1,737             | 1,495               | 5,060               | 3,376               | 3,269               | 2,360               |

Over the 4 year planning period NZBS is projecting a total capital spend of \$34.98m which is \$14.06m in excess of forecast depreciation charges and directly attributable to the planned redevelopment of the Auckland hub site.

The major spend in the last nearly 3 financial years (\$8.1m) has related to the development of eTraceline, a stand-alone system designed to support the blood banking function within the DHBs. eTraceline successfully went live 2 September 2017.

The capital programme over the 4 year planning period comprises the following spend analysis by major category;

- Facilities \$20.37m. Key projects covered in this plan are;
  - an extension to and upgrade of the Auckland City Hospital Blood Bank approved in late 2017/18 but with the majority of the \$775k capital spend funded within the 2018/19 financial year.
  - Refurbishment of the Wellington blood bank in 2019/20 \$300k.
  - The redevelopment of the Auckland hub site located at 71 Great South Road Epsom. There are two aspects to this redevelopment namely;
    - the relocation of the national office during 2018/19 back to the Auckland hub site post NZBS assuming sole occupancy of this important site.
    - Sole occupancy from 1 November 2018 enables NZBS to commence a long planned redevelopment of this key hub site after nearly 20 years of occupancy that will ensure it is appropriately configured to meet the foreseeable future needs of the blood service.

This redevelopment programme is being planned as a likely 3 to 4 year programme with an established cost envelope of \$15.74m capital allowance.

- Planning for the possible relocation and redevelopment of the Auckland donor centres located at Manukau and North Shore. The capital allowance for both sites is \$2.61m with the timing aligned to the expiry timings within both sites current leasing arrangements.
- <u>Business Systems and IT Infrastructure</u> \$6.36m over the planning period with the key areas of expenditure identified as;
  - NZBS Blood Management Systems comprising the eProgesa and eTraceline systems - \$3.40m. In this planning period there remains a focus on improving the donor experience with, as an example, the introduction of a self-administered health history capability. Software upgrades/new installs are planned for donor management, tissue, cord and stem cell management systems as well as the piloting of smart fridges post the introduction of eTraceline.
  - Business Systems \$1.28m. Reflects planned upgrades to various business systems to improve functional performance. Investment is planned in the donor management system, the human resources / payroll areas combined with the ongoing investment in business intelligence capabilities.
  - Network Infrastructure \$1.68m. Investment required to maintain the existing NZBS network infrastructure noting this level of planned investment is lower than historically provided for. This is due to NZBS moving to adopt, where appropriate, 'software as a service' (SaaS) cloud service delivery within the current planning period.
- <u>Equipment</u> \$8.25m. A reflection of the ongoing need to maintain all NZBS equipment over the supply chain in suitable working condition, particularly where the supply chain is subject to strict GMP compliance requirements. An emerging trend within the management of the general equipment capital programme has been the willingness of suppliers to offer a finance leasing alternative to outright purchase.

NZBS utilises the finance lease when evaluated as appropriate to do so. For NZBS the finance leasing option better aligns with the NZBS '*pay as you go*' business model. The finance leasing option also provides improved flexibility to

effect technology driven upgrades with minimum disruption than would occur if NZBS physically owned the equipment in question.

### Price Setting

The Minister and sector's expectation remains set on keeping the costs to district health boards as low as possible. However NZBS is also required to balance that expectation against;

- The requirement to fund ongoing capital needs primarily from operational cash flows and approved funding options,
- the setting of price increases at the minimum required to maintain overall NZBS financial viability.

NZBS in taking the above factors into account considers it has taken a balanced view in coming to a position on the required price settings over the 4 year planning period. In terms of price increases, the price increases forecast over the 4 year planning period are a compound increase of 14.12% compared with a forecast compound CPI % movement of 6.90% over the same period.

This elevated price setting over the planning period compared to forecast CPI is a reflection of the very difficult balancing act NZBS faces within a low volume growth environment. Low volume growth makes it extremely difficult to adequately absorb increasing input costs despite those cost increases being mitigated in part by targeted operational efficiencies, maintain overall financial viability as well as deliver on the sector's expectation of keeping prices to a minimum.

While NZBS has worked hard to minimise its price settings within the current environment, it was simply not possible particularly with elevated wage expectations if a balanced financial outcome was to be achieved.

NZBS has a policy mechanism in place to effectively return price increases to the DHBs via a price rebate mechanism, should the actual demand levels and operational performance exceed the forecast financial out-turn. Under this mechanism NZBS last paid a price rebate in the 2014/15 financial year and has rebated \$9.95m since the policy was introduced in the 2008/09 financial year.

No price rebates are forecast over this 4 year planning period.

#### **Financial Position and Liquidity**

Throughout the planning period NZBS maintains its financial gearing ratio under the 37.5% debt ceiling currently set within the NZBS Financial Guidelines Policy. Over the planning period the equity % ratio is forecast in the range of 76.13% to 65.46% of net total tangible assets.

NZBS is forecast to operate at all times within its banking covenant obligations over the 4 year planning period.

Ongoing financial sustainability is considered appropriately maintained over the 4 year planning period with a forecast average annual EBITDA of \$8.42m. The average year-end available working cash position is forecast at \$2.33m supported by available liquidity of \$3.0m on term deposit and an entitlement of \$5.0m in undrawn approved credit facilities.

#### **Disclosure Statement**

This financial forecast has been prepared as required by the Crown Entities Act 2004 for disclosure in this Statement of Performance Expectations (SPE) and may not be appropriate for any other purpose. If NZBS becomes aware that there are changes to the assumptions detailed below, which may materially impact the stated financial position, this SPE and the SOI (if necessary) will be amended accordingly under section 148 of the Crown Entities Act 2004.

### **Board Approval**

The NZBS Board has agreed the financial forecast at the date of signing this <u>Statement of</u> <u>Performance Expectations</u>.

## 3.2 KEY ASSUMPTIONS

The following assumptions (and risk assessments<sup>6</sup> where appropriate) are key elements underpinning the financial forecasts for 2018/19 through to 2021/22:

|             |  | Assu   | mption   |                              |  |                   | Comment / Risk   |  |
|-------------|--|--|--|------------------------------|--|-------------------|--|--|
| 1.          | increases to a minimum, this is tempered by<br>need to maintain financial viability. Based on<br>assumed demand mix and input cost increases,<br>weighted price movements over the 4 year force<br>period are set out below. |  |  |                              |  |                   | NZBS when assessing its price setting performance it<br>is acknowledged the provision of imported skin<br>generally denominated in USD brings the risk of<br>currency fluctuation which is outside NZBS control.<br>Also if unbudgeted costs create unforeseen financial<br>risks over the period then NZBS may require a price                            |  |
|             | Year   | Price<br>Increase                                |  | lood S<br>oduct              | Overall<br>Services<br>Price<br>ncrease      |                   | increase greater than indicated in the three outer years.<br><b>Risk Assessment:</b> <u>MEDIUM</u> – Cost increases could<br>exceed indicated price increases causing deterioration<br>in the NZBS financial position, resulting in a  |  |
|             | 2018/19  | 3.989  | % 4.   | .11%                         | 3.40%  |                   | requirement for price increases greater than currently   |  |
|             | 2019/20  | 3.919  | <b>%</b> 4.  | .12%                         | 3.01%  |                   | indicated in the outer 3 financial years.  |  |
|             | 2020/21  | 2.649  | % 2.   | .65%                         | 2.56%  |                   |  |  |
|             | 2021/22  | 2.66   | % 2.   | .67%                         | 2.73%  |                   |  |  |
| 2.          | Revenue<br>the foreca  | st period ł                                      |  |                              | growth ov<br>s:                              | er                | Revenue growth is a combination of price and demand (volume) movements. The specific demand assumptions for the key revenue categories are detailed in Assumption 3.   |  |
|             | 2018/19  |  | 2%   |                              |  |                   | Risk Assessment: MEDIUM - With price settings set  |  |
|             | 2018/19  |  | 51%  |                              |  |                   | annually, the major risk to revenue growth stems from<br>the uncertainty of demand for any given product or  |  |
|             | 2019/20  |  | 8%   |                              |  |                   | service. The demand assumptions taken within these   |  |
|             | 2021/22  |  | i2%  |                              |  |                   | forecasts reflect recent trend indications as well as<br>allowance for any known forward demand impact<br>factors.   |  |
| 3.<br>(a    | Demand (s<br>been asse<br>basis. The<br>below at p<br>Summary<br>Growth  | sales) grov<br>essed on<br>outcome<br>roduct cat | wth over t<br>a weighte<br>of those as<br>egory leve | ed produc<br>ssessmen<br>el. | st period ha<br>t by produ<br>its is detaile | nas<br>uct<br>led | Sales volumes are totally dependent on health sector<br>demand and outside NZBS direct control. Demand<br>volatility is an ever present reality for NZBS, although<br>the health and disability sector demographics indicate<br>that low demand growth can reasonably be assumed<br>despite the last few years of growth in the New Zealand<br>population. |  |
|             | Product  | 2018/19  | 2019/20  | 2020/21                      | 2021/22                                      |                   | As a manufacturer, NZBS endeavours to maintain   |  |
| Fre         | esh  | (0.27%)  | (0.25%)  | (0.03%)                      | (0.05%)                                      |                   | flexibility within its production settings in order to<br>minimise product expiry and ensure inventory levels  |  |
| Fra         | actionated   | 3.29%  | 4.08%  | 4.04%                        | 4.03%  |                   | are kept aligned to the current individual product   |  |
| Blo         | ood Products   | 1.50%  | 1.96%  | 2.09%                        | 2.13%  |                   | demand profiles, having regard to supply chain<br>logistics, manufacturing requirements and product  |  |
|             |  |  |  |                              |  |                   | shelf life.  |  |
|             | rvices   | 0.11%  | 0.54%  | 0.73%                        | 0.63%  |                   | Red Blood Cells (RBCs): RBCs are the primary fresh   |  |
| Ov          | erall Total  | 1.24%  | 1.70%  | 1.84%                        | 1.86%  |                   | product. NZBS works with the DHBs to actively<br>manage their utilisation of RBCs which has seen a   |  |
| (b          | ) Key Fored  | cast Fres  | h Blood F  | Product Is                   | sues   | -                 | 6.1% decline in use over the last 4 years. With DHBs   |  |
|             | Product  | 2018/19  | 2019/20  | 2020/21                      | 2021/22                                      |                   | increasingly focused on their patient blood<br>management activities or plans, short term decline is   |  |
| RB          | Cs (units)   | 100,823  | 100,087  | 99,601                       | 99,115                                       |                   | expected however population growth and an ageing   |  |
| Pla<br>dos  | telets (Adult<br>ses)  | 14,784   | 14,895   | 15,009                       | 15,120                                       |                   | population may see an offsetting increas demand. If demand increases or decreas  | population may see an offsetting increase in RBC demand. If demand increases or decreases beyond that forecast whole blood collections (refer Assumption |
| Fre         | sh Plasma (units)  | 14,210   | 14,123   | 14,135                       | 14,147                                       |                   | that forecast, whole blood collections (refer Assumption 4) will be flexed as required and accommodated within   |  |
| Cry<br>(uni | roprecipitate<br>its)  | 4,950  | 4,975  | 5,025                        | 5,075  |                   | the current donor panel population.  |  |
|             | otal Fresh<br>oduct Issues   | 134,767  | 134,080  | 133,770                      | 133,457                                      |                   |  |  |

<sup>6</sup> Risk Assessment is based on severity and likelihood.

|   | ASSU   | nption  |  |  | Comment / Risk   |
|---|--|---|--|--|--|
| (c) Key Fractio   | onated B   | lood Pro  | duct Issu  | es   | Immunoglobulin Product (IVIg) – Intragam P<br>Evogam are the primary manufactured fraction   |
| Product   | 2018/19  | 2019/20   | ) 2020/2   | 1 2021/22  | products supported by the second line comments sourced Privigen product. Since 2008 the average sourced privigen product.  |
| Immunoglobulin<br>Issues (grams)  | 414,221  | 434,784   | 4 456,38   | 2 479,094  | <ul> <li>annual growth rate for IVIg product has been 6</li> <li>However from a peak of a 12.2% growth spi</li> <li>2014/15 the growth rate has declined steadily</li> </ul>   |
| (d) Other Key   | Product  | Issues  |  |  | 2017/18 with an 11.0% growth spike. The IVIg g<br>rate in these forecasts reflects a medium g<br>setting of 5% per annum.  |
| Product   | 2018/19  | 2019/20   | 2020/21  | 2021/22  | Over this planning period an average annual g  |
| Femoral Heads   | 810  | 820   | 825  | 835  | rate of 5.0% has been assumed. Should presc<br>increase or decrease from the budgeted ave  |
| (e) Key Servic  | es   |   |  |  | annual growth assumption, then collection target<br>be flexed to ensure demand is met and product e<br>is minimised. ( <u>Note</u> : IVIg product has a two year   |
| Product   | 2018/19  | 2019/20   | ) 2020/2   | 1 2021/22  | life which enables stock management to be flexe<br>required). Inventory levels for fractionated produc   |
| Tissue Typing –Total<br>Test Volumes  | 16,283   | 16,354  | 16,425   | 5 16,493   | be managed at a minimum holding of 4 month's s in order to ensure surety of supply.  |
| Compatibility Testing   | 110,500  | 110,250   | ) 110,25   | 0 110,500  | Risk Assessment: HIGH - Demand volatility,   |
| Blood Grouping  | 156,000  | 156,500   | ) 156,75   | 0 157,000  | upside and downside, is a risk inherent within to business model. Historically NZBS been re  |
| Antibody Screen   | 150,000  | 152,000   | ) 155,00   | 0 155,750  | manage uneven demand growth across all proc  |
| Therapeutic venesection   | 4,325  | 4,350   | 4,375  | 4,400  | This plan forecasts the reduction in fresh provolumes produced per 1,000 head of population an actual 28.21 units in 2016/17 to a forecast 3   |
|   |  |   |  |  | period. Should Immunoglobulin demand inclusion beyond NZBS's ability to collect the required level plasma for manufacture, the second line Pri product would be used to supplement supply.   |
| Collection V<br>patterns the  |  |   |  |  | beyond NZBS's ability to collect the required level<br>plasma for manufacture, the second line Pri<br>product would be used to supplement supply.  |
|   | required   | collection  | n volume   |  | beyond NZBS's ability to collect the required level<br>plasma for manufacture, the second line Pri<br>product would be used to supplement supply.  |
| patterns the  | required   | collection  | n volume   | s over th  | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast statement of the period is required to meet the forecast statement.</li> </ul>   |
| patterns the<br>planning period   | required<br>d are fore   | collectior<br>cast to be  | n volume<br>:  | 2021/22  | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast</li> </ul>   |
| patterns the<br>planning period<br>Collection<br>Method   | required<br>d are fore<br>2018/19  | collection<br>cast to be<br>2019/20   | 2020/21  | <b>2021/22</b>   | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> </ul>   |
| patternsthe<br>planning periodCollection<br>MethodWhole Blood   | required<br>d are fore<br>2018/19<br>109,300   | collection<br>cast to be<br>2019/20<br>108,425  | 2020/21  | <b>2021/22</b>   | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> <li>Risk Assessment: MEDIUM - collection volume very sensitive to product demand assumptions and the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> </ul>   |
| patternsthe<br>planning periodCollection<br>MethodWhole BloodPlasmapheresis   | required<br>d are fored<br>2018/19<br>109,300<br>61,100  | collection<br>cast to be<br>2019/20<br>108,425<br>65,000  | volume<br>2020/21<br>107,825<br>70,000   | 2021/22<br>0 107,325<br>70,000<br>2,800  | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> <li>Risk Assessment: MEDIUM - collection volume</li> </ul>  |
| patternsthe<br>planningCollection<br>MethodWhole BloodPlasmapheresisPlateletpheresisTotal   | required<br>d are fored<br>2018/19<br>109,300<br>61,100<br>2,700<br>173,100<br>ection volu<br>hipped to<br>p fractiona           | collection<br>cast to be<br>2019/20<br>108,425<br>65,000<br>2,725<br>176,150<br>umes the s<br>CSL Beh                             | 2020/21<br>2020/21<br>107,825<br>70,000<br>2,765<br>180,590<br>assumed<br>ring to be               | s over th<br>2021/22<br>107,325<br>70,000<br>2,800<br>180,125<br>kilograms               | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> <li><b>Risk Assessment: MEDIUM</b> - collection volume very sensitive to product demand assump Accordingly NZBS will flex its collection levels</li> </ul>  |
| patterns       the planning period         Collection       Method         Whole Blood       Plasmapheresis         Plateletpheresis       Total         Collections       Vithin these collekgs) of plasma sl         Nanufactured into       Nanufactured into                  | required<br>d are fored<br>2018/19<br>109,300<br>61,100<br>2,700<br>173,100<br>ection volu<br>hipped to<br>p fractiona           | collection<br>cast to be<br>2019/20<br>108,425<br>65,000<br>2,725<br>176,150<br>umes the s<br>CSL Beh                             | 2020/21<br>2020/21<br>107,825<br>70,000<br>2,765<br>180,590<br>assumed<br>ring to be               | s over th<br>2021/22<br>107,325<br>70,000<br>2,800<br>180,125<br>kilograms               | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> <li><b>Risk Assessment: MEDIUM</b> - collection volume very sensitive to product demand assump Accordingly NZBS will flex its collection levels down to align with trending demand patterns.</li> <li>This would be managed with an increase (or decrease in donor recruitment activity and association and patterns).</li> </ul> |
| patterns       the planning period         Collection       Method         Whole Blood       Plasmapheresis         Plateletpheresis       Total         Collections       Vithin these colle         kgs) of plasma sl       nanufactured into         NZ has been fore       NZ | required<br>are fored<br>2018/19<br>109,300<br>61,100<br>2,700<br>173,100<br>ection volu<br>hipped to<br>p fractiona<br>cast as: | collection           2019/20           108,425           65,000           2,725           176,150           umes the ated product | 2020/21<br>2020/21<br>107,825<br>70,000<br>2,765<br>180,590<br>assumed<br>ring to be<br>ucts and r | s over th<br>2021/22<br>107,325<br>70,000<br>2,800<br>180,125<br>kilograms<br>eturned to | <ul> <li>beyond NZBS's ability to collect the required level plasma for manufacture, the second line Priproduct would be used to supplement supply.</li> <li>Blood collection volumes are based on for demand with collection levels flexed as required of financial year in order to minimise product expiry.</li> <li>The growth in plasmapheresis collections forecast the period is required to meet the forecast staplasma demand for the manufacture of Fraction Product (see Assumptions 3).</li> <li><b>Risk Assessment: MEDIUM</b> - collection volume very sensitive to product demand assump Accordingly NZBS will flex its collection levels down to align with trending demand patterns.</li> <li>This would be managed with an increase (or decrease in donor recruitment activity and association and patterns).</li> </ul> |

|    | Assumption   | Comment / Risk  |
|----|--|---|
| 5. | Only Albumex products will have revenue associated<br>with the sale of surplus production volumes.<br><b>NOTE:</b> there is no market for the sale of surplus<br>Biostate (Factor VIII).   | NZBS has a developed its stock management process<br>to minimise product expiry and maximise product<br>utilisation.<br><b>Risk Assessment: LOW</b> – clearly defined contract<br>arrangements are in place for surplus Albumin product<br>via the NZBS fractionated product manufacturer, CSL<br>Behring (Australia) Pty Limited.  |
| 6. | New Zealand is maintaining resilience of supply over<br>the planning period for all major blood products<br>including manufactured fractionated products of<br>which Immunoglobulin Products (Intragam P and<br>Evogam) are the driver products derived from NZBS<br>provided starting plasma.<br>In 2015, as part of ensuring resiliency of supply, a<br>second line immunoglobulin product supply<br>agreement for the supply of Privigen was entered<br>into with CSL Behring. This effectively introduced a<br>hybrid supply arrangement for immunoglobulin<br>product going forward and in doing so also<br>represented a supply risk mitigation.<br>NZBS continually assesses its supply chain to<br>ensure the mechanisms in place maintain resilience<br>of supply and that those mechanisms remain<br>appropriate and cost effective in meeting New<br>Zealand's demand needs for these fractionated<br>products. | The principle of ensuring resilience of supply is framed<br>within the wider context of self-sufficiency. NZBS is<br>regularly reviewing its supply arrangements, based on<br>financial, clinical and surety of supply criteria.<br><b>Risk Assessment: MEDIUM</b> – NZBS on current<br>demand forecasts collects sufficient blood (including<br>plasma) and produces sufficient blood products to<br>maintain self-sufficiency over the short term however<br>the current hybrid supply arrangements are expected<br>to continue over the planning period.<br>However a higher than forecast demand for<br>immunoglobulin could be expected to see the level of<br>second line product use increased.<br>The ability to revert to full self-sufficiency can be<br>expected to remain under review over the planning<br>period                    |
| 7. | Current fractionation yields are expected to be maintained over the 4 year planning period.  | Changes in the yield of fractionated product obtained<br>by CSL Behring from a volume of plasma will impact<br>either adversely (in the case of reduced yield) or<br>favourably (in the case of improved yield) on the NZBS<br>forecast financial position.<br><b>Risk Assessment: LOW</b> – based on the prior yield<br>performance of the manufacturer CSL Behring.   |
| 8. | Plasma fractionation costs in 2018/19 and<br>subsequent years will increase in accordance with<br>any agreed increases as provided for in the<br>confidential CSL Behring Toll Manufacturing<br>Agreement.<br>The current Toll Manufacturing Agreement operates<br>until 30 June 2022.   | The CSL Behring (Australia) Pty Ltd Toll Fractionation<br>Agreement is priced in Australian dollars so an<br>exposure to movements in the AUD:NZD cross rate<br>exists.<br><b>Risk Assessment: MEDIUM</b> – NZBS endeavours to<br>mitigate this risk via Forward Exchange contracts<br>purchased in accordance with the NZBS Treasury<br>Policy. Also refer to the foreign exchange assumption<br>18 below.   |
| 9. | The stock turn ratios for the total inventory holding<br>over the forecast period is set out below:Stock Turns<br>(all Products)Turns<br>per<br>Annum2017/18 Year3.582018/19 Year3.672019/20 Year3.892020/21 Year4.012021/22 Year3.99  | NZBS sets a minimum stock holding average of 3 to 4<br>months demand across its non-fresh product range to<br>ensure surety of supply. This sets the minimum<br>benchmark stock turn for all inventory held at an ideal<br>stock turn of between 3.5 times and 4.0 times, a<br>benchmark figure NZBS applies in the context of<br>ensuring efficient working capital management.<br><b>Risk Assessment: MEDIUM</b> – an unexpected drop in<br>demand increases the risk of product expiry (fresh<br>product) and higher short term inventory holding<br>(fractionated product). The primary stock risk category<br>is fractionated product (due to 3 - 4 month minimum<br>stock holding) however the risk, as regards expiry, is<br>mitigated in large part by this product category having<br>a 2 to 3 year shelf life depending on the product. |

|     |   | Assum                                     | ption   |   | Comment / Risk  |
|-----|---|---|---|---|---|
| 10. |   |   | ve been revise<br>the financial fo  |   | As an essential service provider NZBS must adapt<br>quickly to changes in demand and/or safety and<br>regulatory requirements. Staffing levels are therefore<br>subject to increase or decrease in response to  |
|     |   | Year                                      | Forecast FTE<br>Levels as at<br>30 June each  |   | changing business requirements, particularly changes in demand for products.  |
|     |   | 0017/10                                   | Year  |   | Over the planning period assumptions have been made<br>based on forecast demand levels and efficiencies<br>stemming from business improvement initiatives   |
|     |   | 2017/18                                   | 538.65  |   | expected over the planning period.  |
|     |   | 2018/19                                   | 559.38  |   | Risk Assessment: MEDIUM - turnover is relatively  |
|     |   | 2019/20                                   | 553.38  |   | low. The main risk is the inability to source<br>new/replacement appointments with the required skill   |
|     |   | 2020/21<br>2021/22                        | 553.38<br>553.38  |   | mix. NZBS is competing with the health and disability sector at large for resources, mitigated in part by   |
|     |   | 2021/22                                   | 555.56  |   | participating in the same collective agreements as the DHBs.  |
| 11. | employed<br>Employer<br>Single-Emp        | on collecti<br>Collective<br>bloyer Colle | BS staff will c<br>ve agreements<br>Agreements<br>ective Agreeme                    | (either Multi-<br>(MECAs) or<br>nts).             | Staff costs make up on average 45% of NZBS's operational expenditures. Most collectives have built into them an annual increase together with merit step increases which have an impact on NZBS's overall annual cost increases.  |
|     | have taken<br>Expectation                 | into accou<br>ns on Empl<br>lished in 20  | ng employee of<br>unt the Governr<br>loyment Relatio<br>18 and direct co            | nent's updated                                    | Settlements in relation to Collective Agreement<br>negotiations have a flow on effect to costs associated<br>with staff working under Individual Employment<br>Agreements.  |
|     | respect of                                | possible f                                | mbined with be<br>uture settlemen<br>ial forecasts ove                              | nts have been                                     | <b>Risk Assessment: MEDIUM to HIGH</b> - risk of settlement outside of budgeted parameters, depending on wider sector settlements. (Assumption 1 also refers.)  |
| 12. | expected C<br>required) a<br>collection v | PI increase<br>are based<br>olume tar     | ased on currer<br>es) and employ<br>I on meeting<br>gets as set ov<br>as summarised | ee costs (FTEs<br>the projected<br>ver the 4 year | Forecast collection volumes are subject to change in<br>response to alterations in demand patterns for<br>products, variation in production yields and/or<br>collection / processing methods. Further staffing and<br>consumable reductions would be considered in the<br>event that collection volume requirements decrease<br>further than forecast for a sustained period of time. |
|     |   |   |   |   | Likewise, if collection volume levels are required to<br>increase significantly beyond those forecast, an<br>increase in staffing and consumables may be required<br>to collect and process additional volumes.   |
|     |   |   |   |   | <u>Note</u> : Many NZBS consumables purchased from international markets are subject to foreign exchange fluctuations.  |
|     |   |   |   |   | <b>Risk Assessment: MEDIUM</b> - that input price increases are higher than budgeted allowances. (Assumption 1 also refers.)  |
| 13. | maintained<br>the budget                  | with the or<br>t being a                  | cost framework<br>only additional co<br>resociated with<br>with the Public          | osts included in                                  | NZBS has reflected its regulatory compliance costs<br>over the planning period based on the existing<br>regulatory framework and associated cost structures.<br><b>Risk Assessment: LOW</b> – the existing regulatory<br>environment is well understood by NZBS.  |
|     |   |   |   |   |   |

|     | A  | ssumpti  | ion   |   |  | Comment / Risk   |  |  |  |  |
|-----|--|--|---|---|--|--|--|--|--|--|
| 14. | Foreign exchar<br>have been assu   |  | over the  | forecast p  | eriod  | NZBS has exposure to foreign exchange fluctuations,<br>primarily the Australian dollar through its Toll<br>Fractionation contract with CSL Behring.  |  |  |  |  |
|     | Year   | AUD\$  | Euro  | US\$  |  | Based on 2018/19 settings a 1 cent movement in the   |  |  |  |  |
|     | 2018/19  | 0.9088   | 0.5614  | 0.6625  |  | AUD exchange rate increases or reduces fractionation costs by approximately NZD\$220k.   |  |  |  |  |
|     | 2019/20 0.9152 0.5352 0.6593   |  |   |   |  | The financial forecasts assume currency management   |  |  |  |  |
|     | 2020/21  | 0.9037   | 0.5332  | 0.6808  |  | is reflected over the planning period in accordance with   |  |  |  |  |
|     | 2021/22  | 0.8905   | 0.5376  | 0.7063  |  | the requirements of the Treasury Policy. Accordingly<br>realised and unrealised currency movements are<br>incorporated in the financial forecasts.   |  |  |  |  |
|     | These rates hav<br>information that<br>financial forecas   | was avail  | able at the   | time the  | ent  | NZBS manages this operational currency risk via forward exchange contracts managed in accordance with the NZBS Treasury Management Policy.   |  |  |  |  |
|     | were prepared.   |  |   |   |  | <b>Risk Assessment: MEDIUM</b> – any ongoing volatility in global financial markets has the potential to impact New Zealand's economic settings in the medium term. The short term, defined as the initial 12 to 18 months of the planning period, is risk mitigated via forward exchange contracts. |  |  |  |  |
| 15. | As a demand-o<br>and disability se<br>any unbudgete<br>may achieve d<br>improving yields<br>with the NZBS  | ector, NZE<br>d realised<br>ue to opti<br>s and cost | S will share<br>I net financ<br>mal produce<br>efficiencies | e with the E<br>cial gains tl<br>ct mix dem<br>s, in accord | DHBs<br>hat it<br>nand,  | sets out the Board's obligations (having regard to<br>NZBS's longer term financial viability) to assess on a<br>annual basis, whether any realised net financial gain<br>will be shared with the DHBs as a price rebate.   |  |  |  |  |
|     | No price rebate<br>financial foreca  |  | een incorp  | orated in t   | hese   |  |  |  |  |  |
| 16. | The Capital Cha<br>the forecast clo<br>assumed at the<br>closing equity o  | osing equ<br>e current                               | ity position rate of 6%                                     | and has per annur   | been   | This is a Government mandated charge over which NZBS has no direct control.  |  |  |  |  |
| 17. | The quantum of managed year ensure the capital | on year o  | ver the pla   | nning perio   | od to  | Safety requirements and the capital intensive nature of<br>the blood service operations often means a variable<br>capital spend on a year-on-year basis.   |  |  |  |  |
|     | exceeded.<br>The current 4 ye  |  |   |   |  | NZBS allows for capital substitution to apply in any given year.   |  |  |  |  |
|     | of \$32.57m con<br>\$20.91m.   | npared wit   | h a deprec  | ation char  | ge of  | <b>Risk Assessment: LOW</b> - the capital expenditure plan<br>is a carefully considered and managed document<br>ensuring a low risk of being greater than budget.  |  |  |  |  |
| 18. | Interest rates or<br>planning perioc<br>day interest rate  | I have be  | en based o  | off projecte  | The level of available funds has been set to ensure<br>forecast funding needs can be accommodated without<br>need for facility renegotiation. The term of the facility<br>covers the first 2 years of the planning period. |  |  |  |  |  |
|     | Year   | Inte   | rest Rate   |   |  |  |  |  |  |  |
|     | 2018/19  | :  | 2.80%   |   |  | The facility is operated in accordance with its banking covenants.   |  |  |  |  |
|     | 2019/20  |  | 3.10%   |   |  |  |  |  |  |  |
|     | 2020/21  |  | 3.53%   |   |  | <b>Risk Assessment: LOW</b> - based on the forecast level of facility debt NZBS exposure to any interest rate  |  |  |  |  |
|     | 2021/22  |  | 3.95%   | 1   |  | movement is minimal in the context of the overall NZBS   |  |  |  |  |

|     | Assumption  | Comment / Risk  |
|-----|---|---|
| 19. | There will be no adverse material financial impact on<br>the forecast financial position as a result of any<br>plasma pool loss or product recall incident (e.g. loss<br>of a pool of plasma through contamination or an<br>identified manufacturing problem requiring the recall<br>and potential destruction of product). | NZBS would expect to manage such adverse financial impact via its Adverse Fractionation Event Policy where a \$4.0m reserve exits to mitigate the initial financial impact of such an event prior to engaging in the ' <i>last resort</i> ' process outlined in 2005 by the Ministry of Health. Such action would only be initiated if the financial impact exceeded NZBS financial capacity. |
|     |   | <b>Risk Assessment: LOW</b> – a plasma contamination<br>has not occurred to date and is considered a low<br>frequency high financial impact event. However a<br>product recall event did occur in November 2013 with<br>an adverse NZBS financial impact outcome of \$750k.<br>The basis for managing such situations is now well<br>established and is actively monitored by NZBS as to its  |
|     |   | The basis for managing such situations is n<br>established and is actively monitored by NZBS<br>financial capacity to deal with such events.  |

## 3.3 FORECAST FINANCIAL STATEMENTS

| Forecast Statements of Comprehensive Revenue and Expense |   |  |  |   |  |  |  |   |  |  |
|--|---|--|--|---|--|--|--|---|--|--|
| Budget   | Forecast  |  | Forecast   |   | Forecast   |  | Forecast   |   | Forecast   |  |
| FY 18  | FY 18   | 3  | FY1  | 9   | FY 2   | 0  | FY 21  |   | FY 2   | 2  |
| \$000  | \$000   | %  | \$000  | %   | \$000  | %  | \$000  | %   | \$000  | %  |
|  |   |  |  |   |  |  |  |   |  | 1  |
| 118,446  | 121,048   |  | 127,397  |   | 134,796  |  | 140,932  |   | 147,339  |  |
| 120,301  | 121,791   |  | 128,823  |   | 135,390  |  | 140,573  |   | 147,163  |  |
| (1,855)  | (743)   |  | (1,426)  |   | (594)  |  | 358  |   | 177  |  |
|  |   |  |  |   |  |  |  |   |  |  |
|  |   |  |  |   |  |  |  |   |  |  |
| 94,545   | 94,386  | 77.97%   | 101,296  | 79.51%  | 107,472  | 79.73%   | 112,615  | 79.91%  | 118,052  | 80.129   |
| 22,528   | 25,478  | 21.05%   | 24,834   | 19.49%  | 25,746   | 19.10%   | 26,579   | 18.86%  | 27,444   | 18.63%   |
| 1,075  | 827   | 0.68%  | 952  | 0.75%   | 1,240  | 0.92%  | 1,351  | 0.96%   | 1,408  | 0.96%  |
| 291  | 316   | 0.26%  | 308  | 0.24%   | 332  | 0.25%  | 380  | 0.27%   | 429  | 0.29%  |
| 7  | 41  | 0.03%  | 7  | 0.01%   | 7  | 0.00%  | 7  | 0.00%   | 7  | 0.00%  |
| 118,446  | 121,048   | 100.00%  | 127,397  | 100.00%   | 134,796  | 100.00%  | 140,932  | 100.00%   | 147,339  | 100.009  |
|  |   |  |  |   |  |  |  |   |  |  |
| 43,126   | 45,602  | 37.67%   | 46,487   | 36.49%  | 48,985   | 36.34%   | 51,487   | 36.53%  | 55,425   | 37.62%   |
| 44,894   | 44,858  | 37.06%   | 49,813   | 39.10%  | 51,355   | 38.10%   | 52,876   | 37.52%  | 54,859   | 37.23%   |
| 24,109   | 24,781  | 20.47%   | 24,742   | 19.42%  | 26,298   | 19.51%   | 26,504   | 18.81%  | 26,931   | 18.28%   |
| 112,129  | 115,241   | 95.20%   | 121,042  | 95.01%  | 126,637  | 93.95%   | 130,867  | 92.86%  | 137,216  | 93.13%   |
| 6,317  | 5,807   | 4.80%  | 6,355  | 4.99%   | 8,158  | 6.05%  | 10,064   | 7.14%   | 10,124   | 6.87%  |
| 4,447  | 3,979   | 3.29%  | 4,244  | 3.33%   | 5,181  | 3.84%  | 5,731  | 4.07%   | 5,757  | 3.91%  |
| 537  | 578   | 0.48%  | 631  | 0.49%   | 879  | 0.65%  | 981  | 0.70%   | 1,147  | 0.78%  |
| 2,620  | 2,434   | 2.01%  | 2,277  | 1.79%   | 2,216  | 1.64%  | 2,209  | 1.57%   | 2,225  | 1.51%  |
| (1,287)  | (1,183)   | (0.98%)  | (796)  | (0.63%)   | (117)  | (0.09%)  | 1,143  | 0.81%   | 994  | 0.67%  |
|  |   |  |  |   |  |  |  |   |  |  |
| 601  | 601   | 0.50%  | 560  | 0.44%   | 560  | 0.42%  | 472  | 0.33%   | 428  | 0.29%  |
| (33)   | (1,041)   | (0.86%)  | (56)   | (0.04%)   | (258)  | (0.19%)  | 138  | 0.10%   | 265  | 0.18%  |
|  | ( · · · · ·   |  | 125  |   | 175  |  | 175  |   | 125  |  |
| 568  | (440)   | (0.36%)  | 629  | 0.49%   | 477  | 0.35%  | 785  | 0.56%   | 817  | 0.55%  |
| (1,855)  | (743)   | (0.61%)  | (1,426)  | (1.12%)   | (594)  | (0.44%)  | 358  | 0.25%   | 177  | 0.12%  |
| _  | -   |  | -  |   | _  |  | -  |   | -  |  |
| -  | -   |  | -  |   | -  |  | -  |   | -  | -  |
| (1.855)  | (743)   | (0.61%)  | (1.426)  | (1.12%)   | (594)  | (0.44%)  | 358  | 0.25%   | 177  | 0.12%  |
|  | Budget<br>FY 18<br>\$000<br>118,446<br>120,301<br>(1,855)<br>94,545<br>22,528<br>1,075<br>291<br>7<br>118,446<br>43,126<br>44,894<br>24,109<br>112,129<br>6,317<br>4,447<br>537<br>2,620<br>(1,287)<br>601<br>(33)<br>568 | Budget<br>FY 18         Forecas<br>FY 18           FV 18         FY 18           \$000         \$000           118,446         121,048           120,301         121,791           (1,855)         (743)           94,545         94,386           22,528         25,478           1,075         827           291         316           7         41           118,446         121,048           43,126         45,602           44,894         44,858           24,109         24,781           112,129         115,241           6,317         5,807           4,447         3,979           537         578           2,620         2,434           (1,287)         (1,183)           601         601           (33)         (1,041)           568         (440)           (1,855)         (743)           -         - | Budget<br>FY 18         Forecast<br>FY 18           \$000         \$000         %           118,446         121,048           120,301         121,791           (1,855)         (743)           94,545         94,386           22,528         25,478           1,075         827           291         316           0.26%         100.00%           418,446         121,048           1,075         827           291         316           0.26%         0.03%           118,446         121,048           100.00%         43,126           43,126         45,602           44,894         44,858           24,109         24,781           20,620         2,434           2,620         2,434           2,620         2,434           2,620         2,434           2,620         2,434           2,633         (1,041)           0,08%)         (1,041)           6,011         6,011           6,011         6,011           6,011         6,011           0,05%         (1,855)           (1,855) <td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 18           \$000         \$000         \$         \$000           118,446         121,048         127,397           120,301         121,791         128,823           (1,855)         (743)         (1,426)           94,545         94,386         77.97%         101,296           22,528         25,478         21.05%         24,834           1,075         827         0.68%         952           291         316         0.26%         308           7         41         0.03%         7           118,446         121,048         100.00%         127,397           43,126         45,602         37.67%         46,487           44,894         44,858         37.06%         49,813           24,109         24,781         2.047%         24,742           112,129         115,241         95.20%         121,042           6,317         5,807         4.80%         6331           2,620         2,434         2.01%         2,277           (1,287)         (1,183)         (0.96%)         (796)           601         601         0.50%         <t< td=""><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19           \$000         \$000         %         \$000         %           118,446         121,048         127,397         128,823           (1,855)         (743)         (1,426)           94,545         94,386         77.97%         101,296         79.51%           22,528         25,478         21.05%         952         0.75%           291         316         0.28%         308         0.24%           118,446         121,048         100.00%         127,397         100.00%           41         0.03%         7         0.01%         0.24%           3118,446         121,048         100.00%         127,397         100.00%           43,126         45,602         37.67%         46,487         36.49%           44,894         44,858         37.06%         49,813         39.10%           24,109         24,781         2.047%         24,742         19.42%           112,129         115,241         95.20%         121,042         95.01%           6,317         5,807         4.89%         6331         0.49%           2,620         2,434         2.01%</td><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 19         Forecast<br/>FY 2           \$000         \$000         *         \$000         *         \$000         *         \$000           118,446         121,048         127,397         134,796         135,390         134,796           120,301         121,791         128,823         135,390         (1,426)         (594)           94,545         94,386         77.97%         101,296         79.51%         107,472           22,528         25,478         21.05%         952         0.75%         1,240           291         316         0.26%         308         0.24%         332           7         41         0.03%         7         0.01%         7           118,446         121,048         100.00%         127,397         100.00%         134,796           43,126         45,602         37.67%         46,487         36.49%         48,985           44,894         44,858         37.06%         49,813         9.10%         51,355           24,109         24,781         2.47%         24,244         3.33%         5,181           537         5,780         4.89%</td><td>Budget<br/>FV 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 19         Forecast<br/>FY 20           \$000         \$000         %         \$000         %         \$000         %           118,446         121,048         127,397         134,796         135,390           120,301         121,791         128,823         135,390         107,472           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%           22,528         25,478         21.05%         952         0.75%         1,240         0.92%           291         316         0.26%         308         0.24%         332         0.25%           7         41         0.03%         7         0.01%         7         0.00%           118,446         121,048         100.00%         127,397         100.00%         134,796         100.00%           43,126         45,602         37.67%         46,487         36.49%         48,985         36.34%           44,894         44,858         37.06%         49.813         39.10%         51.355         38.10%           24,109         24,781         2.047%         2.277         13.42%</td><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 20         Forecast<br/>FY 2'           \$000         \$000         %         \$000         %         \$000         %         \$000           118,446         121,048         127,397         134,796         140,932           120,301         121,791         128,823         135,390         140,573           (1,855)         (743)         (1,426)         (594)         358           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%         112,615           22,528         25,478         21.05%         24,834         19.49%         25,746         19.10%         26,579           1,075         827         0.68%         952         0.75%         1,240         0.92%         1,351           291         316         0.24%         308         0.24%         332         0.25%         380           7         41         0.03%         7         0.01%         7         0.00%         140,932           43,126         45,602         37.67%         46,487         36.49%         48,985         36.34%         51,487           44,4894</td><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 20         Forecast<br/>FY 21           \$000         \$000         %         \$000         %         \$000         %         \$000         %           118,446         121,048         127,397         134,796         140,932         140,573           120,301         121,791         128,823         135,390         140,573         140,573           (1,855)         (743)         (1,426)         (594)         358         -           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%         112,615         79.91%           120,528         25,478         21.05%         24,834         19.4%         25,746         19.10%         26,579         18.86%           1,075         827         0.68%         952         0.75%         1,240         0.92%         330         0.27%           291         316         0.26%         308         0.24%         332         0.25%         380         0.27%           291         316         0.27%         24,133         31.0%         51,355         38.10%         52,876         37.52%           24,109</td><td>Budget<br/>PY 18         Forecast<br/>PY 18         Forecast<br/>PY 19         Forecast<br/>PY 20         Forecast<br/>PY 21         Forecast<br/>FY 21         Forecast</td></t<></td> | Budget<br>FY 18         Forecast<br>FY 18         Forecast<br>FY 18           \$000         \$000         \$         \$000           118,446         121,048         127,397           120,301         121,791         128,823           (1,855)         (743)         (1,426)           94,545         94,386         77.97%         101,296           22,528         25,478         21.05%         24,834           1,075         827         0.68%         952           291         316         0.26%         308           7         41         0.03%         7           118,446         121,048         100.00%         127,397           43,126         45,602         37.67%         46,487           44,894         44,858         37.06%         49,813           24,109         24,781         2.047%         24,742           112,129         115,241         95.20%         121,042           6,317         5,807         4.80%         6331           2,620         2,434         2.01%         2,277           (1,287)         (1,183)         (0.96%)         (796)           601         601         0.50% <t< td=""><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19           \$000         \$000         %         \$000         %           118,446         121,048         127,397         128,823           (1,855)         (743)         (1,426)           94,545         94,386         77.97%         101,296         79.51%           22,528         25,478         21.05%         952         0.75%           291         316         0.28%         308         0.24%           118,446         121,048         100.00%         127,397         100.00%           41         0.03%         7         0.01%         0.24%           3118,446         121,048         100.00%         127,397         100.00%           43,126         45,602         37.67%         46,487         36.49%           44,894         44,858         37.06%         49,813         39.10%           24,109         24,781         2.047%         24,742         19.42%           112,129         115,241         95.20%         121,042         95.01%           6,317         5,807         4.89%         6331         0.49%           2,620         2,434         2.01%</td><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 19         Forecast<br/>FY 2           \$000         \$000         *         \$000         *         \$000         *         \$000           118,446         121,048         127,397         134,796         135,390         134,796           120,301         121,791         128,823         135,390         (1,426)         (594)           94,545         94,386         77.97%         101,296         79.51%         107,472           22,528         25,478         21.05%         952         0.75%         1,240           291         316         0.26%         308         0.24%         332           7         41         0.03%         7         0.01%         7           118,446         121,048         100.00%         127,397         100.00%         134,796           43,126         45,602         37.67%         46,487         36.49%         48,985           44,894         44,858         37.06%         49,813         9.10%         51,355           24,109         24,781         2.47%         24,244         3.33%         5,181           537         5,780         4.89%</td><td>Budget<br/>FV 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 19         Forecast<br/>FY 20           \$000         \$000         %         \$000         %         \$000         %           118,446         121,048         127,397         134,796         135,390           120,301         121,791         128,823         135,390         107,472           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%           22,528         25,478         21.05%         952         0.75%         1,240         0.92%           291         316         0.26%         308         0.24%         332         0.25%           7         41         0.03%         7         0.01%         7         0.00%           118,446         121,048         100.00%         127,397         100.00%         134,796         100.00%           43,126         45,602         37.67%         46,487         36.49%         48,985         36.34%           44,894         44,858         37.06%         49.813         39.10%         51.355         38.10%           24,109         24,781         2.047%         2.277         13.42%</td><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 20         Forecast<br/>FY 2'           \$000         \$000         %         \$000         %         \$000         %         \$000           118,446         121,048         127,397         134,796         140,932           120,301         121,791         128,823         135,390         140,573           (1,855)         (743)         (1,426)         (594)         358           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%         112,615           22,528         25,478         21.05%         24,834         19.49%         25,746         19.10%         26,579           1,075         827         0.68%         952         0.75%         1,240         0.92%         1,351           291         316         0.24%         308         0.24%         332         0.25%         380           7         41         0.03%         7         0.01%         7         0.00%         140,932           43,126         45,602         37.67%         46,487         36.49%         48,985         36.34%         51,487           44,4894</td><td>Budget<br/>FY 18         Forecast<br/>FY 18         Forecast<br/>FY 19         Forecast<br/>FY 20         Forecast<br/>FY 21           \$000         \$000         %         \$000         %         \$000         %         \$000         %           118,446         121,048         127,397         134,796         140,932         140,573           120,301         121,791         128,823         135,390         140,573         140,573           (1,855)         (743)         (1,426)         (594)         358         -           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%         112,615         79.91%           120,528         25,478         21.05%         24,834         19.4%         25,746         19.10%         26,579         18.86%           1,075         827         0.68%         952         0.75%         1,240         0.92%         330         0.27%           291         316         0.26%         308         0.24%         332         0.25%         380         0.27%           291         316         0.27%         24,133         31.0%         51,355         38.10%         52,876         37.52%           24,109</td><td>Budget<br/>PY 18         Forecast<br/>PY 18         Forecast<br/>PY 19         Forecast<br/>PY 20         Forecast<br/>PY 21         Forecast<br/>FY 21         Forecast</td></t<> | Budget<br>FY 18         Forecast<br>FY 18         Forecast<br>FY 19           \$000         \$000         %         \$000         %           118,446         121,048         127,397         128,823           (1,855)         (743)         (1,426)           94,545         94,386         77.97%         101,296         79.51%           22,528         25,478         21.05%         952         0.75%           291         316         0.28%         308         0.24%           118,446         121,048         100.00%         127,397         100.00%           41         0.03%         7         0.01%         0.24%           3118,446         121,048         100.00%         127,397         100.00%           43,126         45,602         37.67%         46,487         36.49%           44,894         44,858         37.06%         49,813         39.10%           24,109         24,781         2.047%         24,742         19.42%           112,129         115,241         95.20%         121,042         95.01%           6,317         5,807         4.89%         6331         0.49%           2,620         2,434         2.01% | Budget<br>FY 18         Forecast<br>FY 18         Forecast<br>FY 19         Forecast<br>FY 19         Forecast<br>FY 2           \$000         \$000         *         \$000         *         \$000         *         \$000           118,446         121,048         127,397         134,796         135,390         134,796           120,301         121,791         128,823         135,390         (1,426)         (594)           94,545         94,386         77.97%         101,296         79.51%         107,472           22,528         25,478         21.05%         952         0.75%         1,240           291         316         0.26%         308         0.24%         332           7         41         0.03%         7         0.01%         7           118,446         121,048         100.00%         127,397         100.00%         134,796           43,126         45,602         37.67%         46,487         36.49%         48,985           44,894         44,858         37.06%         49,813         9.10%         51,355           24,109         24,781         2.47%         24,244         3.33%         5,181           537         5,780         4.89% | Budget<br>FV 18         Forecast<br>FY 18         Forecast<br>FY 19         Forecast<br>FY 19         Forecast<br>FY 20           \$000         \$000         %         \$000         %         \$000         %           118,446         121,048         127,397         134,796         135,390           120,301         121,791         128,823         135,390         107,472           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%           22,528         25,478         21.05%         952         0.75%         1,240         0.92%           291         316         0.26%         308         0.24%         332         0.25%           7         41         0.03%         7         0.01%         7         0.00%           118,446         121,048         100.00%         127,397         100.00%         134,796         100.00%           43,126         45,602         37.67%         46,487         36.49%         48,985         36.34%           44,894         44,858         37.06%         49.813         39.10%         51.355         38.10%           24,109         24,781         2.047%         2.277         13.42% | Budget<br>FY 18         Forecast<br>FY 18         Forecast<br>FY 19         Forecast<br>FY 20         Forecast<br>FY 2'           \$000         \$000         %         \$000         %         \$000         %         \$000           118,446         121,048         127,397         134,796         140,932           120,301         121,791         128,823         135,390         140,573           (1,855)         (743)         (1,426)         (594)         358           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%         112,615           22,528         25,478         21.05%         24,834         19.49%         25,746         19.10%         26,579           1,075         827         0.68%         952         0.75%         1,240         0.92%         1,351           291         316         0.24%         308         0.24%         332         0.25%         380           7         41         0.03%         7         0.01%         7         0.00%         140,932           43,126         45,602         37.67%         46,487         36.49%         48,985         36.34%         51,487           44,4894 | Budget<br>FY 18         Forecast<br>FY 18         Forecast<br>FY 19         Forecast<br>FY 20         Forecast<br>FY 21           \$000         \$000         %         \$000         %         \$000         %         \$000         %           118,446         121,048         127,397         134,796         140,932         140,573           120,301         121,791         128,823         135,390         140,573         140,573           (1,855)         (743)         (1,426)         (594)         358         -           94,545         94,386         77.97%         101,296         79.51%         107,472         79.73%         112,615         79.91%           120,528         25,478         21.05%         24,834         19.4%         25,746         19.10%         26,579         18.86%           1,075         827         0.68%         952         0.75%         1,240         0.92%         330         0.27%           291         316         0.26%         308         0.24%         332         0.25%         380         0.27%           291         316         0.27%         24,133         31.0%         51,355         38.10%         52,876         37.52%           24,109 | Budget<br>PY 18         Forecast<br>PY 18         Forecast<br>PY 19         Forecast<br>PY 20         Forecast<br>PY 21         Forecast<br>FY 21         Forecast |

| Forecast Statements of Changes in Equity  |                              |                              |                            |                            |                            |                            |  |
|---|------------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
|   | Budget<br>FY 18<br>\$000     | Forecast<br>FY 18<br>\$000   | Forecast<br>FY 19<br>\$000 | Forecast<br>FY 20<br>\$000 | Forecast<br>FY 21<br>\$000 | Forecast<br>FY 22<br>\$000 |  |
| Opening balance   | 38,352                       | 39,400                       | 38,657                     | 37,231                     | 36,636                     | 36,995                     |  |
| Total comprehensive Revenue and Expense for year<br>Movement in Adverse Fractionation Event Reserve<br>Contribution from owners           | (1,855)<br>-                 | (743)<br>-                   | (1,426)                    | <b>(594)</b><br>-          | -                          | 177                        |  |
| Closing balance   | 36,497                       | 38,657                       | 37,231                     | 36,636                     | 36,995                     | 37,171                     |  |
| Forecast changes in Equity over the forecast period<br>(a) Crown Equity<br>Opening Balance<br>Contribution from Owners<br>Closing balance | 15,717<br>-<br><b>15,717</b> | 15,717<br>-<br><b>15,717</b> | 15,717<br>-<br>15,717      | 15,717<br>-<br>15,717      | 15,717<br>-<br>15,717      | 15,717<br>-<br>15,717      |  |
| (b) Retained Earnings<br>Opening Balance<br>Total Comprehenive Income for year<br>Transfer to Adverse Fractionation Event Reserve         | 19,636<br>(1,855)            | 19,683<br>(743)              | 18,940<br>(1,426)          | 17,514<br>(594)            | 16,920<br>358              | 17,278<br>177              |  |
| Closing balance   | 17,781                       | 18,940                       | 17,514                     | 16,920                     | 17,278                     | 17,455                     |  |
| (c) Adverse Fractionation Event Reserve<br>Opening Balance<br>Transfer from Adverse Fractionation Event Reserve<br>Closing balance        | 3,000<br>3,000               | 4,000<br>-<br>4,000          | 4,000<br>-<br>4,000        | 4,000<br>-<br>4,000        | 4,000<br>-<br>4,000        | 4,000<br>-<br>4,000        |  |
| Closing Equity Balance  | 36,497                       | 38,657                       | 37,231                     | 36,636                     | 36,995                     | 37,171                     |  |

### \*\*\* Note re Changes in Inventory

For ease of reporting, the '*Changes in Inventory*' category is an aggregated reporting category comprising 'cost of goods sold, production recoveries and inventory valuation adjustments' consistent with the application of manufacturing standard costing methodologies and generally accepted inventory valuation principles.

|  | iecasi J                 | tatements                  | of Financial               | Position                   |                            |                            |
|--|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|  | Budget<br>FY 18<br>\$000 | Forecast<br>FY 18<br>\$000 | Forecast<br>FY 19<br>\$000 | Forecast<br>FY 20<br>\$000 | Forecast<br>FY 21<br>\$000 | Forecast<br>FY 22<br>\$000 |
| Equity                                     |                          |                            |                            |                            |                            |                            |
| Crown Equity                               | 15,717                   | 15,717                     | 15,717                     | 15,717                     | 15,717                     | 15,717                     |
| Retained Earnings/(Losses)                 | 17,781                   | 18,940                     | 17,514                     | 16,920                     | 17,278                     | 17,455                     |
| Adverse Fractionation Event Reserve        | 3,000                    | 4,000                      | 4,000                      | 4,000                      | 4,000                      | 4,000                      |
| Total Equity                               | 36,497                   | 38,657                     | 37,231                     | 36,636                     | 36,995                     | 37,171                     |
| Equity as a % of Total Assets              | 50.0%                    | 50.9%                      | 46.2%                      | 43.2%                      | 41.1%                      | 39.4%                      |
| Represented by:                            |                          |                            |                            |                            |                            |                            |
| Assets                                     | _                        |                            |                            |                            |                            |                            |
| Current Assets                             |                          |                            |                            |                            |                            |                            |
| Cash and Cash Equivalents                  | 514                      | 3,727                      | <mark>1,916</mark>         | 1,785                      | 2,827                      | 2,809                      |
| Trade and Other Receivables                | 12,669                   | 12,870                     | <mark>13,595</mark>        | 14,315                     | 14,899                     | 15,498                     |
| Inventories                                | 28,030                   | 29,400                     | 29,903                     | 29,959                     | 30,361                     | 31,985                     |
| Investments                                | 7,000                    | 7,000                      | 7,000                      | 7,000                      | 7,000                      | 7,000                      |
| Derivative Financial Instruments           | 54                       | 171                        | 227                        | 485                        | 347                        | 82                         |
| Total Current Assets                       | 48,267                   | 53,167                     | 52,640                     | 53,544                     | 55,434                     | 57,374                     |
| Non Current Assets                         |                          |                            |                            |                            |                            |                            |
| Property, Plant and Equipment              | 14,943                   | 12,919                     | 18,968                     | 23,319                     | 27,549                     | 30,809                     |
| Intangible Assets                          | 9,848                    | 9,890                      | <u>8,901</u>               | 7,926                      | 6,966                      | 6,066                      |
| Total Non Current Assets                   | 24,792                   | 22,809                     | 27,869                     | 31,246                     | 34,515                     | 36,874                     |
| Total Assets                               | 73,058                   | 75,976                     | 80,509                     | 84,790                     | 89,949                     | 94,248                     |
| Liabilities                                | _                        |                            |                            |                            |                            |                            |
| Current Liabilities                        |                          |                            |                            |                            |                            |                            |
| Trade and Other Payables                   | 10,307                   | 12,200                     | 12,135                     | 12,710                     | 13,466                     | 13,909                     |
| Provisions                                 | 4,100                    | 3,517                      | 4,216                      | 4,406                      | 4,544                      | 4,748                      |
| Employee Entitlements                      | 6,278                    | 6,636                      | 7,054                      | 7,110                      | 7,406                      | 7,718                      |
| Derivative Financial Instruments           | -                        | -                          | -                          | -                          | -                          | -                          |
| Borrowings                                 | 562                      | 478                        | 800                        | 1,281                      | 1,439                      | 1,618                      |
| Lease Incentive Liability                  | 25                       | 26                         | 26                         | 26                         | 26                         | 25                         |
| Total Current Liabilities                  | 21,272                   | 22,857                     | 24,230                     | 25,533                     | 26,880                     | 28,019                     |
| Non Current Liabilities                    |                          |                            |                            |                            |                            |                            |
| Employee Benefit Liabilities               | 1,900                    | 1,646                      | 1,763                      | 1,903                      | 2,013                      | 2,170                      |
| Provisions                                 | 2,284                    | 2,302                      | 2,401                      | 2,494                      | 2,585                      | 2,677                      |
| Accrued Rent and Lease Incentive Liability | 2,668                    | 2,678                      | 3,212                      | 3,746                      | 4,192                      | 4,595                      |
| Borrowings                                 | 8,437                    | 7,836                      | 11,672                     | 14,478                     | 17,284                     | 19,617                     |
| Total Non Current Liabilities              | 15,288                   | 14,462                     | 19,048                     | 22,621                     | 26,074                     | 29,058                     |
|  | 1                        |                            |                            |                            |                            |                            |
| Total Liabilities                          | 36,561                   | 37,319                     | 43,279                     | 48,154                     | 52,954                     | 57,077                     |

|   | Budget          | Forecast        | Forecast              | Forecast        | Forecast        | Forecast                     |
|---|-----------------|-----------------|-----------------------|-----------------|-----------------|------------------------------|
|   | FY 18           | FY 18           | FY 19                 | FY 20           | FY 21           | FY 22                        |
|   | \$000           | \$000           | \$000                 | \$000           | \$000           | \$000                        |
| Cash Flows from Operating Activities                  |                 |                 |                       |                 |                 |                              |
| Cash was provided from:                               |                 |                 |                       |                 |                 |                              |
| Receipts from Blood Products and Services Revenue     | 117,070         | 119,201         | 125,618               | 132,645         | 138,714         | 144,994                      |
| Interest Received                                     | 30              | 70              | 70                    | 45              | 66              | 83                           |
| Receipts from Other Revenue                           | 749             | 746             | 763                   | 1,121           | 1,276           | 1,340                        |
|   | 117,850         | 120,017         | 126,451               | 133,811         | 140,056         | 146,417                      |
| Cash was disbursed to:                                |                 |                 |                       |                 |                 |                              |
| Payments to Employees                                 | 44,296          | 43,772          | 49,151                | 51,118          | 52,432          | 54,339                       |
| Payments to Suppliers                                 | 66,193          | 67,847          | 71,223                | 74,849          | 77,734          | 83,536                       |
| Distributions to Primary Stakeholders                 | -               | -               | -                     | -               | -               | -                            |
| Interest Paid   | 489             | 529             | 583                   | 835             | 937             | 1,103                        |
| Capital Charge Paid                                   | 2,620           | 2,434           | 2,277                 | 2,216           | 2,209           | 2,225                        |
| Net GST Payable to IRD                                | (16)<br>113,582 | (92)<br>114,491 | <u>120</u><br>123,353 | (63)<br>128,955 | (20)<br>133,293 | <mark>(26)</mark><br>141,177 |
|   |                 |                 |                       |                 |                 |                              |
| Net Cash Flow from Operating Activities               | 4,268           | 5,526           | 3,098                 | 4,855           | 6,763           | 5,240                        |
| Cash Flows from Investing Activities                  |                 |                 |                       |                 |                 |                              |
| Cash was provided from:                               |                 |                 |                       |                 |                 |                              |
| Proceeds - Interest on Term Deposits > 3 Months       | 259             | 232             | 237                   | 286             | 314             | 346                          |
| Proceeds from the sale of Property, Plant & Equipment | -               | -               | -                     | -               | -               | -                            |
|   | 259             | 232             | 237                   | 286             | 314             | 346                          |
| Cash was disbursed to:                                |                 |                 |                       |                 |                 |                              |
| Acquisition of Property, Plant & Equipment            | (3,900)         | (3,311)         | (8,472)               | (7,457)         | (7,800)         | (6,942)                      |
| Acquisition of Intangible Assets                      | (978)           | (2,162)         | (832)                 | (1,100)         | (1,200)         | (1,175)                      |
| Acquisition of Investments - Term Deposits            | (4,000)         | (3,000)         | (5,000)               | (4,000)         | (5,000)         | (4,000)                      |
| Receipts from Maturity of Investments                 | 4,000           | 3,000           | 5,000                 | 4,000           | 5,000           | 4,000                        |
|   | (4,878)         | (5,473)         | (9,304)               | (8,557)         | (9,000)         | (8,117)                      |
| Net Cash Flow from Investing Activities               | (4,619)         | (5,241)         | (9,068)               | (8,271)         | (8,686)         | (7,771)                      |
| Cash Flow from Financing Activities                   |                 |                 |                       |                 |                 |                              |
| Cash was provided from:                               |                 |                 |                       |                 |                 |                              |
| Proceeds from Term Facilities                         | -               | -               | -                     | -               | -               | -                            |
| Proceeds from Term Borrowings - Finance Leases        | -               | -               | 4,836                 | 4,373           | 4,245           | 3,951                        |
|   | -               | -               | 4,836                 | 4,373           | 4,245           | 3,951                        |
| Cash was disbursed to:                                |                 |                 |                       |                 |                 |                              |
| Repayment of Term Facilities                          | -               | -               | -                     | -               | -               | -                            |
| Repayment of Term Borrowings - Finance Leases         | (521)           | (490)           | (677)                 | (1,089)         | (1,281)         | (1,439)                      |
|   | (521)           | (490)           | (677)                 | (1,089)         | (1,281)         | (1,439)                      |
| Net Cash Flow from Financing Activities               | (521)           | (490)           | 4,159                 | 3,284           | 2,965           | 2,512                        |
| Net increase/(Decrease) in Cash and Cash Equivalent   | (871)           | (206)           | (1,811)               | (131)           | 1,042           | (18)                         |
| · · ·   |                 |                 |                       |                 |                 |                              |
| Cash and Cash Equivalents at the beginning of the yea | 1,385           | 3,932           | 3,727                 | 1,916           | 1,785           | 2,827                        |
|   | 1               |                 |                       |                 | 1 1             | 3 8                          |

| Reconciliation of Surplus / (Deficit) with Net Cash Flow from Operating Activities |                          |                            |  |                            |  |                            |                            |                            |  |
|--|--------------------------|----------------------------|--|----------------------------|--|----------------------------|----------------------------|----------------------------|--|
|  | Budget<br>FY 18<br>\$000 | Forecast<br>FY 18<br>\$000 |  | Forecast<br>FY 19<br>\$000 |  | Forecast<br>FY 20<br>\$000 | Forecast<br>FY 21<br>\$000 | Forecast<br>FY 22<br>\$000 |  |
| Total Comprehensive Revenue and Expense for Year                                   | (1,855)                  | (743)                      |  | (1,426)                    |  | (594)                      | 358                        | 177                        |  |
| Add Back Non Cash Items:   |                          |                            |  |                            |  |                            |                            |                            |  |
| Depreciation - Property Plant and Equipment  | 2,773                    | 2,582                      |  | 2,424                      |  | 3,106                      | 3,570                      | 3,682                      |  |
| Depreciation - Intangible Assets   | 1,674                    | 1,396                      |  | 1,821                      |  | 2,075                      | 2,161                      | 2,075                      |  |
| Property, Plant & Equipment Write Off Provision                                    | -                        | -                          |  | -                          |  | -                          | -                          | -                          |  |
| Change in Premises Reinstatement Provision   | 99                       | 99                         |  | 99                         |  | 93                         | 91                         | 92                         |  |
| Change in Lease Incentive Liability  | (25)                     | (26)                       |  | (26)                       |  | (26)                       | (26)                       | (26)                       |  |
| Add / (Less) Items Classified as Investing Activity:                               |                          |                            |  |                            |  |                            |                            |                            |  |
| Net (Gain) / Loss on Sale of Property, Plant & Equipment                           | -                        | 0                          |  | -                          |  | -                          | -                          | -                          |  |
| Proceeds - Interest on Term Deposits > 3 Months                                    | (259)                    | (232)                      |  | (237)                      |  | (286)                      | (314)                      | (346)                      |  |
| Movement in Working Capital:   |                          |                            |  |                            |  |                            |                            |                            |  |
| (Increase)/ Decrease in Trade and Sundry Receivables                               | (336)                    | (800)                      |  | (709)                      |  | (699)                      | (562)                      | (576)                      |  |
| (Increase) / Decrease in Prepayments   | (14)                     | (5)                        |  | (16)                       |  | (21)                       | (22)                       | (22)                       |  |
| (Increase) / Decrease in Inventories   | 223                      | 289                        |  | (503)                      |  | (56)                       | (402)                      | (1,624)                    |  |
| Increase / (Decrease) in Trade Creditors & Other Payables                          | 206                      | (80)                       |  | 573                        |  | 302                        | 146                        | (28)                       |  |
| Increase / (Decrease) in Other Payables  | 248                      | 2,914                      |  | (567)                      |  | 298                        | 636                        | 505                        |  |
| Increase / (Decrease) in General Accruals  | 435                      | (400)                      |  | 627                        |  | 166                        | 111                        | 170                        |  |
| Increase / (Decrease) in Employee Entitlements                                     | 531                      | 1,025                      |  | 535                        |  | 197                        | 405                        | 469                        |  |
| Increase / (Decrease) in Accrued Rent Payable                                      | 601                      | 601                        |  | 560                        |  | 560                        | 472                        | 428                        |  |
| Revaluation of Derivative Financial Instruments                                    | (33)                     | (1,097)                    |  | (56)                       |  | (258)                      | 138                        | 265                        |  |
| Net Cash Inflow/(Outflow) from Operating Activities                                | 4,268                    | 5,526                      |  | 3,098                      |  | 4,855                      | 6,763                      | 5,240                      |  |

## 3.4 STATEMENT OF ACCOUNTING POLICIES

### 1) <u>Reporting Entity</u>

The New Zealand Blood Service (NZBS) is an appointed entity pursuant to Section 63 of the Human Tissue Act 2008, primarily responsible for the performance of functions in relation to blood and controlled human substances in New Zealand.

NZBS is a Crown entity under the New Zealand Public Health and Disability Act 2000, and, more specifically a Statutory Entity under the Crown Entities Act 2004. NZBS's ultimate parent is the New Zealand Crown.

NZBS is a public benefit entity as its primary objective is to support the New Zealand healthcare community through managing the collection, processing and supply of blood, controlled human substances and related services. Accordingly, NZBS has designated itself as a public benefit entity (PBE) for the purposes of applying the Public Benefit Entities Accounting Standards (PBE Standards), issued by the External Reporting Board (XRB).

#### 2) Authorisation Statement

These forecast financial statements were authorised for issue on 27 June 2018 by the Chief Executive Officer of NZBS who is responsible for the forecast financial statements as presented. The preparation of these financial statements requires judgements, estimations and assumptions (refer section 3.2 for key assumption details) that affect the application of policies and reported amounts of assets, liabilities, income and expenses. The estimates and associated assumptions are based on historical experience and various other factors that are believed reasonable under the circumstances.

Actual financial results achieved for the period covered are likely to vary from the information presented and the variations may be material.

It is not intended that the prospective financial statements will be updated subsequent to presentation.

#### 3) Basis of Preparation

The financial statements of NZBS have been prepared in accordance with the requirements of the Crown Entities Act 2004 and the New Zealand Public Health & Disability Act 2000.

These financial statements have been prepared in accordance with New Zealand generally accepted accounting practice (NZ GAAP), in accordance with Tier 1 PBE Standards. They comply with PBE Standards, as appropriate for PBEs.

The accounting policies set out below have been applied consistently to all periods presented in these financial statements.

The financial statements have been prepared on a historical cost basis, with the exception of certain items identified in specific accounting policies.

The financial statements are presented in New Zealand dollars. The functional currency of NZBS is New Zealand dollars.

#### 4) Significant Assumptions

These forecast financial statements are based on the financial results reported to 31 January 2018 and the inherent trends reflected in those results and have been prepared on the basis of key assumptions as detailed in Section 3.2 as to future events that NZBS can reasonably expect to occur, associated with actions it reasonably expects to take.

These forecasts have been compiled on the basis of the strategic plan (as detailed in the Statement of Intent) and Ministerial expectations at the date the information was prepared. Estimated yearend information for 2017/18 is used as the opening position for the 2018/19 forecasts.

The forecast financial statements have been prepared in compliance with NZFRS 42 Prospective Financial Statements.

#### 5) Standards and Interpretation issued and not yet adopted

There are no standards issued and not yet effective that are relevant to NZBS.

#### 6) Significant Accounting Policies

#### Early adoption of PBE IFRS 9

NZBS has elected to early adopt PBE IFRS 9 Financial Instruments (2014) ("IFRS 9") from 1 July 2018 without restatement, in accordance with the transition requirements. The date of initial application is 1 July 2018. IFRS 9 was issued in January 2017 and is applicable for accounting periods beginning on or after 1 January 2021. This standard sets out the new requirements for classification and measurement, impairment and hedge accounting for financial instruments.

The following changes to accounting policies due to application of IFRS 9 have been applied to these financial statements.

Classification and measurement of financial assets

NZBS classifies its financial assets as subsequently measured at either amortised cost or fair value depending on NZBS's business model for managing the financial assets and the contractual cash flow characteristics of the financial assets. On adoption of IFRS 9, investments previously classified as loans and receivables are now classified as financial assets at amortised cost. However there is no material impact as these are still measured at amortised cost.

Classification and measurement of financial liabilities

Classification of financial liabilities remained unchanged for NZBS. Financial liabilities continue to be measured at either amortised cost or at fair value through profit and loss.

Changes to impairment of financial assets

The PBE IFRS 9 impairment requirements are based on an expected credit loss model, replacing the incurred loss methodology under PBE IAS 39. NZBS applies the simplified approach for trade and other receivables, which requires the lifetime expected credit losses to be applied when measuring the loss allowance. The impact of adopting IFRS 9 has not had a material impact on the loss allowance.

#### **Revenue**

Revenue is measured at the fair value of consideration received or receivable. The specific accounting policies for significant revenue items are explained below.

#### Sales of Products

Revenue from the sales of products is recognised at the time the risk and effective ownership transfers to the customer.

#### **Provision of Services**

Revenue from the rendering of services is recognised as the services are provided.

#### Price Rebate to District Health Boards

NZBS also considers annually in accordance with the financial guidelines policy, price rebates to District Health Boards which if elected by the Board to be paid are recognised at the point of decision and deducted from the amount of revenue received or receivable.

#### Interest Income

Interest income is recognised using the effective interest method.

#### Capital Charge

The capital charge is recognised as an expense in the financial year to which the charge relates.

#### <u>Leases</u>

#### Finance leases

A finance lease is a lease that transfers to the lessee substantially all the risks and rewards incidental to ownership of an asset, whether or not title is eventually transferred.

At the commencement of the lease term, NZBS recognises finance leases as assets and liabilities in the statement of financial position at the lower of the fair value of the leased item or the present value of the minimum lease payments.

The amount recognised as an asset is depreciated over its useful life. If there is no certainty as to whether NZBS will obtain ownership at the end of the lease term, the asset is fully depreciated over the shorter of the lease term and its useful life.

#### **Operating leases**

An operating lease is a lease that does not transfer substantially all the risks and rewards incidental to ownership of an asset. Lease payments under an operating lease are recognised as an expense on a straight-line basis over the lease term.

#### Cash and Cash Equivalents

Cash and cash equivalents include cash in hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less, and bank overdrafts. Cash and cash equivalents are classified and measured at amortised cost in the statement of financial position. These financial instruments are short term in nature and the carrying amount is considered to be a reasonable approximation of fair value.

Bank overdrafts are shown within borrowings in current liabilities in the statement of financial position. Bank overdrafts are classified and measured at amortised cost. As these are short term in nature the carrying amount is considered to be a reasonable approximation of fair value.

#### Trade and Other Receivables

Trade and other receivables are initially measured at fair value and subsequently measured at amortised cost using the effective interest method, less any provision for impairment. Trade and other receivables are short term in nature and the carrying amounts are considered to be a reasonable approximation of fair values.

NZBS applied the simplified approach to measure the loss allowance for trade and other receivables. Under this approach the loss allowance is the lifetime expected credit loss. Trade receivables which are significant on an individual basis are evaluated on a line by line basis. For those are not determined to be significant individually, the loss allowance is assessed on a portfolio basis, taking into account days past due and historical loss experience in portfolios with shared characteristics. Historical loss rates are adjusted for forward-looking indicators and relevant macro-economic factors.

A provision for impairment of receivables is established when there is objective evidence that NZBS will not be able to collect all amounts due according to the original terms of receivables.

#### **Inventories**

Inventories are measured at cost upon initial recognition. To the extent that inventory was received through non-exchange transactions (i.e. donated goods) for no cost or for a nominal cost, the cost of the inventory is its fair value at the date of acquisition.

However, as NZBS is not legally permitted to purchase blood from the public, the accounting fair value of blood from donors is considered nil. Therefore the cost of inventories comprise all costs of collection, costs of conversion, and any other costs incurred in bringing the inventories to their present location and condition.

After initial recognition, inventory is measured at the lower of costs and net realisable value. The cost of inventory is determined using the FIFO or weighted average methods. The valuation includes allowance for slow moving items. Obsolete inventories are written off.

The write down from cost to net realisable value is recognised in the surplus or deficit except for fractionated derived products manufactured from New Zealand sourced plasma (refer below).

Inventories are recognised as an expense when deployed for utilisation or consumption in the ordinary course of NZBS's operation.

#### Fractionated derived products manufactured from a principal pool

Fractionated derived products are manufactured into finished blood products by a third party manufacturer on a "toll" manufacturing basis using NZBS provided sourced plasma. Fractionated derived products in the main are manufactured from between 10.4 tonne to 13.0 tonne plasma pools and the NZBS rolling manufacturing plan generally currently allows for 5 of the larger production pools in a financial year. The driver product group within the manufacturing process is the immunoglobulin product represented by Intragam P and Evogam product.

The principal pool work in progress (WIP) is included at full standard cost as the final output that the manufacturer must produce is locked in via the agreed production plan for a pool and contract

yields per the toll manufacturing agreement. This high level of certainty enables the WIP to be viewed in the same light as finished fractionation product for the purposes of inventory valuation.

Valuation of fractionated derived products from these plasma pools, both finished goods and WIP, is based on allocating the actual input cost of manufacturing a plasma pool (NZBS source plasma input plus third party toll fractionation manufacturing fee) to prorated finished/WIP product output using actual product plasma yield, reported by the manufacturer.

Post this product cost allocation, if there are any products where cost exceeds the net realisable value then that cost excess is reallocated to the driver product group.

#### Financial Assets

NZBS classifies its financial assets within the scope of PBE IFRS 9 *Financial Instruments* into the following three categories: (1) Financial assets at fair value through surplus or deficit, (2) Financial assets at amortised cost, and (3) Financial assets at fair value through other comprehensive revenue or expense.

Financial assets are initially measured at fair value plus transaction costs unless they are carried at fair value through profit or loss in which case the transaction costs are recognised in the surplus or deficit.

Purchases and sales of investments are recognised on trade date, the date on which NZBS commits to purchase or sell the asset. Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or have been transferred and NZBS has transferred substantially all the risks and rewards of ownership.

The fair value of financial instruments traded in active markets is based on quoted market prices at the balance date. The quoted market price used is the current bid price.

The fair value of financial instruments that are not traded in an active market is determined using valuation techniques. NZBS uses a variety of methods and makes assumptions that are based on market conditions existing at each balance date. Quoted market prices or dealer quotes for similar instruments are used for long-term debt instruments held. Other techniques, such as estimated discounted cash flows, are used to determine fair value for the remaining financial instruments.

The subsequent measurement of financial assets depends on their classification. NZBS classifies financial assets into three categories depending on their contractual cash flow characteristics and NZBS's business model for managing financial assets.

The categories of financial assets are:

#### Category (1) - Financial assets at fair value through surplus or deficit

This category has two sub-categories: financial assets held for trading, and those designated at fair value through surplus or deficit at inception. A financial asset is classified in this category if acquired principally for the purpose of selling in the short term or if so designated by management to eliminate or significantly reduce an accounting mismatch.

Derivatives are also categorised as held for trading unless they are designated as hedges. Assets in this category are classified as current assets if they are either held for trading or are expected to be realised within 12 months of the balance date.

After initial recognition they are measured at their fair values. Gains or losses on re-measurement are recognised in the surplus or deficit.

#### Category (2) - Financial assets at amortised cost

A financial asset is measured at amortised cost only if both of the following conditions are met:

- It is held within a business model with an objective to hold assets in order to collect contractual cash flows; and
- The contractual terms of the financial asset give rise to cash flows that are solely payments of principal and interest.

After initial recognition they are measured at amortised cost using the effective interest method, less impairment. Gains and losses when the asset is impaired or derecognised are recognised in the surplus or deficit.

# Category (3) - Financial assets at fair value through other comprehensive revenue or expense

A financial asset is measured at fair value through other comprehensive revenue or expense if both the following conditions are met:

- The financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows; and
- The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

#### Impairment of Financial Assets

At each balance date NZBS assesses whether there is any objective evidence that a financial asset or group of financial assets is impaired. Any impairment losses are recognised in the surplus or deficit. The loss allowance is measured based on expected credit losses, taking into account external factors and forward looking indicators. NZBS has recognised a loss allowance in relation to trade and other receivables measured at amortised cost. The methodology applied is described in more detail in 'Trade and other receivables' section.

#### Financial Liabilities

NZBS classifies its financial liabilities within the scope of PBE IFRS 9 *Financial Instruments* as either financial liabilities at fair value through surplus or deficit or financial liabilities at amortised cost. The classification of financial liabilities are determined on initial recognition. NZBS may choose at initial recognition to designate a financial liability as at fair value through surplus or deficit if doing so eliminates or significantly reduces an accounting mismatch.

All financial liabilities of NZBS are measured at amortised cost except derivative financial instruments which are measured at fair value. Gains or losses on re-measurement are recognised in the surplus or deficit.

All financial liabilities are recognised initially at fair value, and in the case of loans and borrowings, plus directly attributable transaction costs.

NZBS's financial liabilities include trade and other payables, loans and borrowings.

#### Foreign Currency Translation

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Transactions denominated in foreign currency are reported at the reporting date by applying the exchange rate on that date. Foreign exchange gains and losses resulting from the settlement of such transactions are recognised in the surplus or deficit.

#### Accounting for Derivative Financial Instruments and Hedging Activities

NZBS uses derivative financial instruments to manage exposure to foreign exchange risks arising from financing activities. In accordance with its Treasury Management Policy, NZBS does not hold or issue derivative financial instruments for trading purposes. NZBS has not adopted hedge accounting.

Derivatives are initially recognised at fair value on the date a derivative contract is entered into and are subsequently re-measured at their fair value at each balance date. The resulting gain or loss is recognised in the surplus or deficit.

#### Property, Plant and Equipment

Property, plant and equipment consists of operational assets which include plant and equipment, computer hardware, motor vehicles, furniture and fittings / office equipment and leasehold improvements.

Property, plant and equipment is shown at cost less accumulated depreciation and impairment losses.

#### Additions

The cost of an item of property, plant and equipment is recognised as an asset if, and only if, it is probable that future economic benefits or service potential associated with the item will flow to NZBS and the cost of the item can be measured reliably.

Property, plant and equipment is initially recognised at cost. Where an asset is acquired at no cost, or for a nominal cost, it is recognised at fair value as at the date of acquisition.

Work in progress is recognised at cost less impairment and is not depreciated.

#### Disposals

Gains and losses on disposals are determined by comparing the proceeds with the carrying amount of the asset. Gains and losses on disposals are included in the surplus or deficit.

#### Subsequent costs

The cost of replacing or improving part of an item of property, plant and equipment is recognised in the carrying amount of an item. The costs of day-to-day servicing of property, plant and equipment are recognised as incurred in the surplus or deficit.

#### Depreciation

Depreciation is provided on a straight-line basis on all property, plant and equipment, at rates that will write off the cost of the assets to their estimated residual values over their useful lives. The useful lives of major classes of assets have been estimated as follows:

| Computer Equipment:     | - 3 to 5 years                            |
|-------------------------|---|
| Furniture and Fittings: | - 5 to10 years                            |
| Motor Vehicles:         | - 3 to 4 years                            |
| Plant and Equipment:    | - 5 to10 years                            |
| Leasehold Improvements: | - Shorter of term of lease or useful life |

The residual value and useful life of an asset is reviewed, and adjusted if applicable, at each financial year end.

#### Intangible Assets

Acquired computer software licenses are capitalised on the basis of the costs incurred to acquire and bring to use the specific software.

Costs associated with maintaining computer software are recognised as an expense when incurred.

#### Amortisation

The carrying value of an intangible asset with a finite life is amortised on a straight-line basis over its useful life. Amortisation begins when the asset is available for use and ceases at the date that the asset is derecognised. The amortisation charge for each period is recognised in the surplus or deficit.

The useful lives of major classes of intangible assets have been estimated as follows:

Computer Software - 3 years

Computer Software Blood Management System (eProgesa and eTraceline) - 10 years

Changes in the expected useful life or the expected pattern of consumption are treated as changes in accounting estimates.

Intangible assets with a finite useful life are assessed for impairment whenever there is an indication that the asset may be impaired.

#### Impairment of Non-Financial Assets

NZBS does not hold any cash-generating assets. Assets are considered cash-generating where their primary objective is to generate a commercial return.

#### Non-Cash-Generating Assets

Property, plant, and equipment and intangible assets held at cost that have a finite useful life are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the asset's carrying amount exceeds its recoverable service amount. The recoverable service amount is the higher of an asset's fair value less costs to sell and value in use.

Value in use is determined using an approach based on either a depreciated replacement cost approach, restoration cost approach, or a service units approach. The most appropriate approach used to measure value in use depends on the nature of the impairment and availability of information.

If an asset's carrying amount exceeds its recoverable service amount, the asset is regarded as impaired and the carrying amount is written-down to the recoverable amount. The total impairment loss is recognised in the surplus or deficit.

The reversal of an impairment loss is recognised in the surplus or deficit.

#### **Creditors and Other Payables**

Creditors and other payables are classified as financial liabilities measured at amortised cost. As these are short term in nature the carrying amount is considered to be a reasonable approximation of fair value.

#### Employee Benefits

#### Short-term benefits

Employee benefits that NZBS expects to be settled within 12 months of balance date are measured at nominal values based on accrued entitlements at current rates of pay. These include salaries and wages accrued up to balance date, annual leave earned to, but not yet taken at balance date, retiring and long service leave entitlements expected to be settled within 12 months, and sick leave.

NZBS recognises a liability for sick leave to the extent that absences in the coming year are expected to be greater than the sick leave entitlements earned in the coming year. The amount is calculated based on the unused sick leave entitlement that can be carried forward at balance date, to the extent that NZBS anticipates it will be used by staff to cover those future absences.

NZBS recognises a liability and an expense for bonuses where contractually obliged or where there is a past practice that has created a constructive obligation.

#### Long-term benefits

#### Long service leave and retirement leave

Entitlements that are payable beyond 12 months, such as long service leave and retirement gratuities, have been calculated on an actuarial basis. The calculations are based on:

- Likely future entitlements accruing to staff, based on years (of service years) to entitlement, the likelihood that staff will reach the point of entitlement and contractual entitlements information; and
- The present value of the estimated future cash flows. The discount rate is based on the weighted average of Government interest rates for stock with terms to maturity similar to those of the relevant liabilities. The inflation factor is based on the expected long-term increase in remuneration for employees.

#### Superannuation Schemes

#### **Defined contribution schemes**

Obligations for contributions to defined contribution superannuation schemes are recognised as an expense in the surplus or deficit.

#### Defined benefit schemes

NZBS belongs to the Defined Benefit Plan Contributors Scheme (the scheme), which is managed by the Board of Trustees of the National Provident Fund. The scheme is a multi-employer defined benefit scheme.

Insufficient information is available to use defined benefit accounting, as it is not possible to determine from the terms of the scheme, the extent to which the surplus/deficit will affect future contributions by individual employers, as there is no prescribed basis for allocation. The scheme is therefore accounted for as a defined contribution scheme.

#### **Provisions**

NZBS recognises a provision for future expenditure of uncertain amount or timing when there is a present obligation (either legal or constructive) as a result of a past event, it is probable that expenditures will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

Provisions are not recognised for future operating losses.

Provisions are measured at the present value of the expenditures expected to be required to settle then obligation using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the obligation. The increase in the provision due to the passage of time is recognised as an interest expense.

#### **Borrowings**

Borrowings are initially recognised at their fair value. After initial recognition, all borrowings are measured at amortised cost using the effective interest method.

Borrowings are classified as current liabilities unless NZBS has an unconditional right to defer settlement of the liability for at least 12 months after balance date.

#### **Adverse Fractionation Event Reserve and Matching Investment Funds**

NZBS collects source plasma and contracts a third party to manufacture that source plasma, via a complex series of processes known as fractionation, to produce a range of derived fractionation products for use within the New Zealand health sector. The manufacturing contract clearly defines the party's respective risks and responsibilities inclusive of financial risk attribution should certain of those risks inherent in the manufacturing process actually occur. NZBS attributed financial risks have, based on historical performance, been classified as being of low frequency but with a potentially high financial impact if an event did occur.

Accordingly NZBS has elected to mitigate this manufacturing financial risk with the establishment of the Adverse Fractionation Event Policy that mandates the establishment of an Adverse Fractionation Event Reserve within the Equity section of the Statement of Financial Position that is complemented by a matching term deposit fund to ensure access to liquidity in the event of an adverse event occurring.

Under this policy NZBS is required to assess, on an annual basis, the upper level of potential financial risk, the current level of the reserve and whether further funds should be transferred to the reserve with matching liquidity also required to be then set aside.

#### Equity

Equity is the Crown's interest in NZBS.

The components of equity are:

- Crown Equity Crown Equity is the net asset and liability position at the time NZBS was established plus any subsequent equity injections.
- Accumulated Comprehensive Revenue and Expense is the accumulated surplus/deficit since NZBS establishment.
- Adverse Fractionation Event Reserve is the transfer from accumulated comprehensive revenue and expense commencing financial year ending 30 June 2015. The reserve has been established to mitigate the financial manufacturing risk associated with the production of fractionated derived products.

#### Good and Service Tax (GST)

All items in the financial statements are stated exclusive of GST, except for receivables and payables, which are stated on a GST inclusive basis. Where GST is not recoverable as input tax then it is recognised as part of the related asset or expense.

The net amount of GST recoverable from, or payable to, the Inland Revenue Department (IRD) is included as part of receivables or payables in the Statement of Financial Position. The net GST paid to, or received from the IRD, including the GST relating to investing and financing activities, is classified as an operating cash flow in the statement of cash flows.

Commitments and contingencies are disclosed exclusive of GST.

#### **Taxation**

NZBS is a statutory corporation under the New Zealand Public Health & Disability Act 2000 and is exempt from income tax under Section CW38 of the Income Tax Act 2007.

#### Budget Figures

The budget figures are those approved by the Board of NZBS at the beginning of the year as presented in the *Annual Statement of Performance Expectations*. The budget figures have been

prepared in accordance with NZ GAAP and comply with NZ GAAP, using accounting policies that are consistent with those adopted by the Board for the preparation of the financial statements.

#### **Critical Accounting Estimates and Assumptions**

In preparing these financial statements NZBS has made estimates and assumptions concerning the future. These estimates and assumptions may differ from the subsequent actual results. Estimates and assumptions are continually evaluated and are based on historical experience and other known or expected factors, including expectations or future events that are believed to be reasonable under the circumstances. Where this is the case the basis of those assumptions are detailed in the relevant accounting policy and / or Section 3.2 of this document.

#### Critical Judgements in Applying the NZBS Accounting Policies

In preparing these financial statements NZBS management has made judgements in applying the NZBS accounting policies. These judgements have been applied consistently to all periods presented in these financial statements. There are no material judgements that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities that need disclosing.

======= /=/ =======