

Date: 24 March 2010

SH-13-5



To: Minister of Finance

## AIDE MEMOIRE: DEBT IMPACT OF A BRIGHTLINE TEST

### Costings

In response to your request, this aide memoire presents costings for a 5 year and 10 year grandfathered brightline test that would apply only to residential investment properties. These are Treasury estimates; Inland Revenue has not had the opportunity to review these costings in detail. Key assumptions for these costings are noted below.

\$ million	Forecast period				Outyear projections <sup>1</sup>	
	2010/11	2011/12	2012/13	2013/14	2020/21	2030/31
5 years	12	37	71	73	88	113
10 years	12	37	71	111	312	403

Over a 10 year period, the projected revenue is:

\$ million	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
5 years	12	37	71	73	75	77	79	81	83	85
10 years	12	37	71	111	153	198	243	289	296	304

These costings have changed from those in the base broadening report as we have refined our model for grandfathering the impact of these changes. The revised numbers for the 5 year test as set out above are being included in BEFU forecasts.

### Key Assumptions

Key assumptions in these costings:

- **Turnover rate of residential properties:** this is based on the number of residential property sales recorded by QVNZ against the number of dwellings from Statistics census data (from 1988-2009)
- **Holding period profile of properties when sold:** QVNZ data on how long residential properties were held before sale (average from 1988-2009)
- **Appreciation rate:** 2.6% per year. This is based on a low real growth rate (0.6%) and a 2% inflation assumption. It is lower than the average annual real appreciation rate for house prices per the house price index (2.42% on average per annum over the longest available period). However, in reality, the amount of gains will vary with the housing market; and 2.6% nominal growth may be too strong in the short term due to the weak outlook for the housing market, so these numbers represent a maximum in the short run.
- **Tax rate:** the average tax rates used are those used for the depreciation denial and loading costings. They assume the current base scenario and no company tax cut. A company tax cut would reduce the numbers above by approximately 5%.

<sup>1</sup> These are nominal figures (i.e. the effect of inflation is included- for example in real terms (2010/11 dollars) the revenue for a 10 year test in 2013/14 is \$105 million; whereas revenue for a 10 year test in 2030/31 in real terms (2010/11 dollars) is \$271 million).

- **Behavioural adjustments:** As taxpayers are likely to change their behaviour if a bright-line test is introduced, a 5 year test is costed as a 3 year test. (i.e. the model assumes that if a person would have sold within 3 years, they will still sell within 5; but that if they would have sold between 3 and 5 years, that they will defer the sale until the period has ended). Similarly, we have costed the 10 year test as an 8 year test.
- **Amount of residential investment property in base:** The model uses a \$160 billion dollar base for residential investment property. This is a loose estimate based on the range given by SoFIE data (\$120 billion) and that used by the Tax Working Group (\$213 billion).
- **These costings are grandfathered:** the test is assumed to apply only to properties acquired after Budget day. This reduces the revenue in the early years, but the revenue returns to non-grandfathered level after the number of years of the test has expired.
- **Effective measures to counter avoidance are in place:** losses are effectively ring-fenced, and the test cannot be avoided by structuring through companies.

### Sensitivity analysis

The costings are particularly sensitive to three of these assumptions. The table below shows the impact of varying these assumptions for the 5 year test:

	Lower estimate	Base used for costing	Upper estimate
<b>Turnover rate</b>	5%	9.4%	15%
Revenue (\$m)			
Year 1	7	12	20
Year 5	42	79	25
<b>Appreciation rate</b>	2% <sup>2</sup>	2.6%	4.4% <sup>3</sup>
Revenue (\$m)			
Year 1	9	12	21
Year 5	59	79	142
<b>Behavioural adjustment</b>	2 years	3 years	4 years
Revenue (\$m)			
Year 1	12	12	12
Year 5	42	79	119

For the 10 year test, these figures are:

	Lower estimate	Base used for costing	Upper estimate
<b>Turnover rate</b>	5%	9.4%	15%
Revenue (\$m)			
Year 1	7	12	20
Year 10	169	319	508
<b>Appreciation rate</b>	2% <sup>4</sup>	2.6%	4.4% <sup>5</sup>
Revenue (\$m)			

<sup>2</sup> Effectively assumes only nominal growth.

<sup>3</sup> This is the average real growth rate (2.4%) in the housing price index over the longest available period, with a 2% inflation allowance.

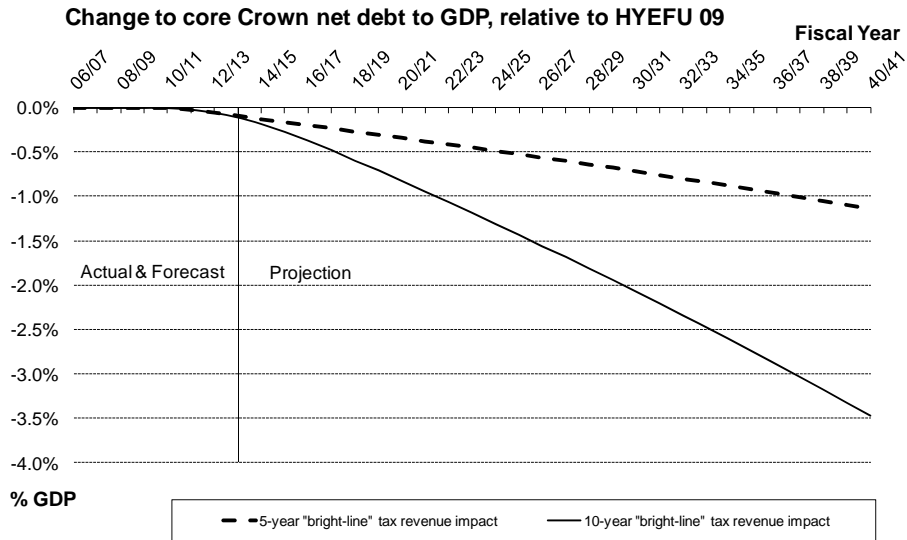
<sup>4</sup> See footnote 2 above.

<sup>5</sup> See footnote 3 above.

Year 1	9	12	21
Year 10	235	319	614
<b>Behavioural adjustment</b>	7 years	8 years	9 years
Revenue (\$m)			
Year 1	12	12	12
Year 10	276	319	357

**Impact on debt**

The impact of a brightline test on debt is shown below. It should not be treated as an accurate projection of these variables- particularly from 2024 onward- but rather as an extension where operating allowances from this year on have been increased to keep debt around 20% of nominal GDP by 2040. This is based on HYEFU data; and assumes that all other policies remain the same, that no behavioural changes occur as a result of the brightline test, and that the other tax reforms have not taken place. The debt impact is due to two factors: the impact of the additional revenue in increasing the operating balance; and the impact of reduced financing costs.



[deleted - privacy], Analyst, Tax Strategy, [deleted - privacy]  
**Bill Moran**, Manager, Tax Strategy, [deleted - privacy]