

**Table 3 Updated Total N and P losses modelled by OVERSEER for the proposed farming system on Glen Eyrie Downs and WQS thresholds**

	OVERSEER modelling outputs kg/year					WQS threshold kg/year
	System 1 – Cubicle stables	System 2 – Cut and carry	System 3 – Sheep and beef	System 4 – Mixed farm	System 5 – Conventional Dairy	
Total N leaching/runoff	32,731 (35,376)	21,616 <sup>*1</sup>	28,056 <sup>*1</sup>	30,755 <sup>*1</sup>	30,307 <sup>*1</sup>	38,139
Total N leaching/runoff at Highly Developed	37,079 (37,588)	26,261 <sup>*1</sup>	37,888 <sup>*1</sup> (reduced area of Sheep & Beef)	38,221 <sup>*1</sup> (reduced area of Sheep & Beef)	38,080 <sup>*1</sup>	38,139
Total P leaching/runoff	1,604 (1,605)	1,035 <sup>*1</sup>	1,294 <sup>*1</sup> (1182 <sup>*1</sup> at HD)	1,356 <sup>*1</sup> (1,297 <sup>*1</sup> at HD)	1,611 <sup>*1</sup>	1,621

\* APSIM modelling for a cut and carry system is not complete. Until complete assumed figures are 5 kg/ha N (Developed) (average loss for cut and carry systems in Taupo (Thorrold and Betteridge (2006);Menneer et al. (2008); AgResearch (unpublished) and 7.5 kg/ha N(Highly Developed) and 0.5 kg/ha P(derived from fodder crop losses modelled on similar soils).

<sup>1</sup> Includes 146 kg N and 1 kg P associated with unfarmed area (modelled in GED final\_350 kg MS\_ animal weight.ovp)