# Development site details

Date (dd/mm/yyyy):	9/18/23
Site Name:	Rear of Prospect Farm
Planning Application number:	
Site Address:	Rear of Prospect Farm, Main Road, Cutmill, Chidam

# Stage 1

## User Inputs

Date of first occupancy:		
Average occupancy rate:	2.40	
Water usage (litres/person/day):	120	
Development Proposal (dwellings/ units):	1	
Include deductible acceptable loading?	No	
Wastewater treatment works:	Thornham WwTW	
Wastewater treatment works N permit (mg TN/litre):	10	
Stage 1 Calculat	ed Loading	
Stage 1 Nutrien	t Loading	
Additional population	2.40	people
Wastewater by development	288.00	litres/da
Annual wastewater TN load	0.95	kg TN/





St				
P loading to WwTW:				
Net land use P change:		Your final phosphorus budget is:		have pop up message if negative that says soemthing like "No P to mitigate FALSE
P budget:				
P budget + 20% buffer:		budget is.		If positive have
N loading to WwTW:	0.95	The total		
Net land use N change:	-0.00	amount of		
N budget:	0.94	nitrogen to		
N budget + 20% buffer:	1.13	mitigate is:		
				Stage 1 Value: Stage 2 Nutrient loading from current land use Stage 3 Nutrient loading from future land use Stage 3 Nutrient loading from future land use Stage 3 Nutrient loading from future land use
	0.84		1.01	
	0.84			

St				
P loading to WwTW:				
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	0.84		1.01	
	0.84			

#### CONCLUSIONS/MITIGATION

The nitrogen budget calculation for the site shows that after the occupation of the proposed development there will be an increase in the Total Nitrogen load compared to the existing site use; therefore, it is recommended that mitigation or nitrogen offsetting is required for this development.

### SOLUTION

The area of off-site rewilding required to offset the nitrogen load of the proposed development: 1.13 kg/yr  $\div$  9.3 [14.3-5] kg/ha/yr = 0.121ha [calculation assumes an urban land use type (14.3kg N/ha) for rewilding through woodland planting (5.0kg N/ha)]. Therefore, in order to offset the calculated nitrogen load of 1.13 kg/ yr, rewilding an area of 0.121 ha [1210sq m] through the planting of a native broadleaf woodland would be required.

This extent of rewilding is illustrated on attached Drawing 7.

The rewilded woodland area will have 50% canopy cover at maturity [based on 250 trees per hectare] comprising native broadleaf species. As per paragraph 5.12 of NE guidance, a nitrogen leaching rate from woodland planting is likely to equate to 5 kg/ha/yr.

No dogs will NOT be allowed on the woodland in order to avoid potential inputs of Nitrogen from dog waste. The woodland area will be fenced off from the remainder of the land with stock proof fencing.

The provision and long-term retention of the woodland area will be addressed through a suitably worded planning condition.