

Planning Application Reference No.	APP/20/00761
Site Name:	Land to the east of Helmsley House, Bartons Road and west of Normandy Way, Havant
Additional Information:	
A single care home is proposed comprising 64 single occupancy bedrooms with all other facilities being communal. The maximum occupancy of the proposed development is therefore 64 persons. No staff will reside on site. Whilst a 64 bedroom single residential development is proposed as opposed to 64 separate units of accommodation/dwellings, 64 units are shown to be proposed for the purposes of this exercise at an occupancy rate of 1 person per unit.	
Date:	9th October 2020

Stage 1 Calculate total Nitrogen in kg per year derived from the development that would exit the Wastewater Treatment Works (WwTW) into Solent catchments after treatment

Step 1 Calculate additional population

Enter the number of units proposed	64
Net population increase per housing unit	1
Total net population increase generated by the development	64

Step 2 Calculate wastewater volume generated by the development

Water use in litres per person per day	110
Total wastewater volume generated by the development (litres per day)	7,040

Step 3 Confirm receiving WwTW and permit limit

Select the wastewater treatment works the development will connect to	Budds Farm
Wastewater treatment works' permit limit (mg per litre)	9.7
Wastewater treatment works' discharge level (mg per litre)	8.7

Select the Ww

Step 4 Calculate total nitrogen in kg per year discharged by the WwTW

Deduct acceptable Nitrogen loading in wastewater (mg per litre)	6.7
Total Nitrogen discharged by WwTW (mg per day)	47,376.2
Total Nitrogen discharged by WwTW (kg per day)	0.0474
Total Nitrogen discharged by WwTW (kg per year)	17.3

Stage 2	Calculate existing (pre-development) nitrogen from current land use of the development site	
Step 1	Total area of development site	
	Enter the total area of the development site (hectares)	0.63
Step 2	Identify current land uses of the development site	
	Enter area currently used for urban development (hectares)	0.08
	Enter area currently used for open space / greenfield (hectares)	0.42
	Enter area currently used for woodland (hectares)	0.13
	Enter area currently used for community food growing / catchment average (hectares)	0.00
	Enter area currently used for cereals (hectares)	0.00
	Enter area currently used for dairy (hectares)	0.00
	Enter area currently used for general cropping (hectares)	0.00
	Enter area currently used for horticulture (hectares)	0.00
	Enter area currently used for pig farming (hectares)	0.00
	Enter area currently used for lowland grazing (hectares)	0.00
	Enter area currently used for mixed farming (hectares)	0.00
	Enter area currently used for poultry farming (hectares)	0.00
	<i>Check to help ensure that sum total of land uses in Step 2 equals site area in Step 1</i>	0.6
Step 3	Calculate nitrogen load from current land usage	
	<i>Total Nitrogen load from current land usage (kg per year)</i>	3.9

Stage 3	Calculate nitrogen load for the non-built land uses proposed for the development site	
Step 1	Identify proposed land uses of the development site	
	Enter the total urban area to be created (hectares)	0.63
	Enter the total designated open space / SANG area to be created (hectares)	0.00
	Enter the total nature reserve area to be created (hectares)	0.00
	Enter the total woodland area to be created (hectares)	0.00
	Enter the total community orchard area to be created (hectares)	0.00
	Enter the total community food growing / allotment area to be created (hectares)	0.00
	<i>Check to help ensure that sum total of proposed land uses equals site area in Stage 2</i>	0.63
Step 2	Calculate total Nitrogen load from proposed land uses	
	<i>Total Nitrogen load from future land uses (kg per year)</i>	9.01

Stage 4	Calculate the net change in Nitrogen load from the proposed development	
Step 1	Identify Nitrogen load from wastewater (Stage 1)	
	<i>Nitrogen leaving wastewater treatment works (kg per year)</i>	17.29
Step 2	Calculate net change in Nitrogen load from land use changes	
	<i>Total Nitrogen load from future land use (kg per year)</i>	5.12
Step 3	Calculate total Nitrogen budget for the development site	
	<i>Nitrogen budget for the site (kg per year)</i>	22.41
Step 4	Calculate precautionary buffer if Nitrogen budget exceeds zero	
	<i>Precautionary Nitrogen buffer (kg per year)</i>	4.48

Total Nitrogen budget for the proposed development (kg per year)		26.9
Development will generate additional Nitrogen - Mitigation is required with your Local Planning Authority for advice on next steps		Please liaise