

Nitrogen Budget Calculation

Planning Application Reference No.	APP/20/01014
Site Name:	Blossom House, 1-3 Beech Grove, Hayling Island
Additional Information: 	
Date:	11th November 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 0
	Net population increase per housing unit 2.40
	Total net population increase generated by the development 0.00
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) 0
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
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) 0.0
	Total Nitrogen discharged by WwTW (kg per day) 0.0000
	Total Nitrogen discharged by WwTW (kg per year) 0.0

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) 0.17
Step 2	Identify current land uses of the development site
	Enter area currently used for urban development (hectares) 0.17
	Enter area currently used for open space / greenfield (hectares) 0.00
	Enter area currently used for woodland (hectares) 0.00
	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
	Check to help ensure that sum total of land uses in Step 2 equals site area in Step 1 0.2
Step 3	Calculate nitrogen load from current land usage
	Total Nitrogen load from current land usage (kg per year) 2.4

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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)	0.17
	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>	0.17
Step 2	Calculate total Nitrogen load from proposed land uses	
	<i>Total Nitrogen load from future land uses (kg per year)</i>	2.43

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>	0.00
Step 2	Calculate net change in Nitrogen load from land use changes	
	<i>Total Nitrogen load from future land use (kg per year)</i>	0.00
Step 3	Calculate total Nitrogen budget for the development site	
	<i>Nitrogen budget for the site (kg per year)</i>	0.00
Step 4	Calculate precautionary buffer if Nitrogen budget exceeds zero	
	<i>Precautionary Nitrogen buffer (kg per year)</i>	0.00

Total Nitrogen budget for the proposed development (kg per year)	0.0
Development will be Nitrogen neutral - no mitigation will be required	