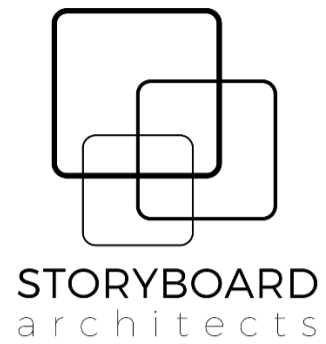


NITRATE BUDGET CALCULATION

Project Description: New 2-bed dwelling
 Address: 24 Langton Close, Winchester, SO22 6RJ



Stage 1 Total Nitrogen (TN) Load from Development Wastewater (25mg/l permit level)

Description	Value	Unit	Note
Development	1no. Dwelling	Residential Unit	
Additional Population	2.4	Persons	average 2.4 persons per housold (ONS)
Waste Water Volume	264	litres/day	2.4 persons x 110 litres
Receiving WwTW permit level	25	mg/l TN	
TN discharged after WwTW	6600	mg/TN/day	90% of consent limit = 24.3mg/l TN. 264 x 25
Convert mg/TN to Kg/TN	0.0066	Kg/TN/day	divide mg/TN by 1,000,000
Convert kg/TN/day to kg/TN/year	2.409	Kg/TN/yr	Kg/TN/day x 365 days

Wastewater total nitrogen load for proposal 2.41 Kg/TN/yr

Stage 2 Nitrogen load from Current Land Use: Urban Residential

Not Applicable			
----------------	--	--	--

Stage 3 Nitrogen Load from Future Land Use: Urban Residential

Not Applicable			
----------------	--	--	--

Stage 4 Calculate the net change in total Nitrogen load

Nitrogen load from Waste water	2.41 Kg/TN/yr	Nitrogen load from Stage 1
Nitrogen change from land use	0	change of land use (Stage 3 - Stage 2)
Nitrogen budget (no buffer)	2.41 Kg/TN/yr	Nitrogen load - change of land use
Nitrogen budget (20% buffer)	2.89 Kg/TN/yr	2.41 Kg/N/yr + 20%

Nitrogen Budget with 20% buffer 2.89 Kg/TN/yr