



STIRLINGMAYNARD

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DRAINAGE STRATEGY CHECKLIST

Project Ref:	3787/199	Project Title:	Proposed Aldi Store Kengate Industrial Estate, Hythe	
Prepared By:	BH	Date:	08/10/2018	Sheet: 1
EXISTING SITE				
	Roofs	Hard Pavings	Total Impermeable	Total
Existing Areas:	0.27 ha	0.46 ha	0.73 ha	0.74 ha
General:				
Is FRA/Drainage Strategy Report available?		Yes	Ref: 3787/199 v1.2	
Is a Statutory Undertaker's Capacity Report available?		No	Ref:	
Any Pre-Planning discussions/correspondence with flood/drainage authorities available?		No	Ref:	
Ground Conditions (where known):		Comments		
Strata:	Yes	Made Ground: Concrete, Asphalt, Sands, Gravels. Natural Ground: Tidal Flat Deposits Bedrock: Weald Clay Formation		
Source (e.g. SI Report/ online/etc.):	Geo-Env Report			
Groundwater Vulnerability (e.g. Source Protection Zone):		Vulnerability: None Source Protection: None		
Groundwater depth:	2.5m-6.5m BGL			
Contamination status:	Known	Soil – Lead, Asbestos (Risks deemed low)		
Infiltration rate(s):	No			
Spatial room for soakaways:	Yes			
Site suitable for infiltration?	No	Assumed based on site geology		
Existing Surface Water Drainage (where known):		Comments		
Status (i.e. Greenfield/Brownfield):	Brownfield			
Is site within Critical Drainage Area?	No			
Surface water sewerage Undertaker:	Southern Water			
Receptor type(s): (e.g. sewer/river/ IDB/riparian drain/soakaway)	Combined Sewer			
Size of off-site connections(s):	1No. 150mm Ø 1No. 100mm Ø			
Level of off-site connection(s):	0.69m AOD Unknown			
Gradient of off-site connection(s):	Unknown			
Pre-Development discharge rate:	37 l/s	Based On: Governing Brownfield Estimate		
Existing Foul Water Drainage (where known):		Comments		
Receptor type(s) (e.g. foul/ combined sewer, treatment plant):	Combined Sewer			
Foul sewerage Undertaker:	Southern Water			
Size of off-site connections(s):	As Above			
Level of off-site connection(s):	As Above			
Gradient of off-site connection(s):	Unknown			
Pre-Development discharge rate:	Unknown			



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Project Ref:	3787/199	Project Title:	Proposed Aldi Store Kengate Industrial Estate, Hythe	
Prepared By:	BH	Date:	08/10/18	Sheet: 2
PROPOSED DEVELOPMENT				
	Roofs	Hard Pavings	Total Impermeable	Total
Proposed Areas:	0.21ha	0.42ha	0.63ha	0.74ha
Comparison with Impermeable Area of Existing Site:			Decrease	0.10ha
Proposed Surface Water Drainage:				
Means of disposal:		Combined Sewer	Discharge to sewer in Dymchurch Road.	
SuDS features suitable for site:		None	There is insufficient space on site for swales or ponds. Permeable paving is not financially viable.	
Proposed off-site discharge rate:		18.5 l/s		
% betterment over existing rate:		50 %		
Siphonic roof drainage?		No	Traditional RWP's	
Off-site gravity discharge practicable?		Yes		
Rainfall Model:		FEH		
Design Life:		25 yrs		
Design Return Periods: - No surcharging: - No surface water ponding: - No off-site flooding:		1 in 30 year 1 in 100 year +20% cc	Sufficient storage provided within buried attenuation tanks for up to and including 1 in 100 years plus 20% climate change with limited surface water flooding contained within lowest level area of car park	
Climate Change Allowance:		10 & 20 %		
Outputs: - Network diagram? - Impermeable areas? - Simulation calculations? - Exceedance route?		Yes Yes Yes Yes	3787-199-305 3787-199-307 & 308 See Simulation Details and Results 3787-199-306	
Proposed features for water quality:		Condor CNSB30s/21 Bypass Separator Petrol Interceptors. Naylor Smart Gully Adaptors with Smart Sponges to channel gully outlets providing treatment at source. SuDS indices provided in email titled <i>Naylor Correspondence Smart Sponge SuDS Indices</i>		
Proposed Foul Water Drainage:				
Means of disposal:		Combined Sewer	Discharge to sewer in Dymchurch Road	
Proposed off-site discharge rate:		4 l/s	Based on: Unit Discharge Method	
Gravity discharge practicable?		Yes		
Maintenance				
Maintenance schedule prepared?		Yes		
Who is responsible for maintenance of drainage features?		Aldi Stores Ltd		