

Surface Water Management & Maintenance Plan

LAND ADJACENT MARSH VIEW, SHARD LANE, HAMBLETON

March 2024

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LAND ADJACENT MARSH VIEW, SHARD LANE, HAMBLETON

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Signature.....

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1.0 INTRODUCTION

- 1.01 This sustainable drainage management and maintenance plan for the lifetime of the development has been produced on behalf of David Bailey for the proposed glamping pods development at land adjacent to Marsh View, Shard Lane, Hambleton.
- 1.02 A Management Company will be commissioned to maintain the development in terms of the access, car parking / hardstanding areas, drainage, landscaping, open space, etc. An annual levy will be raised by the said company from the site occupants for the upkeep and future maintenance of the said infrastructure.

2.0 SITE DESCRIPTION

Existing Site and Drainage

- 2.01 The development site is located off Shard Lane to the rear of Marsh View. The site is located between Shard Lane and Bull Park Lane. The site is identified on the location plan attached as appendix A.
- 2.02 The proposed site is surrounded by mainly by agricultural land & agricultural buildings. The site currently houses a large two storey dwelling.

Proposed drainage

- 2.03 Surface water from the development will discharge into the dyke located to the east of the site via a water treatment plant. The surface water drainage system is to remain private.
- 2.04 Foul water from the development site will discharge into the dyke located to the east of the site via a water treatment plant. The foul water drainage system is to remain private.
- 2.05 The proposed access and car parking / hardstanding areas within the site development are to remain private. Surface water runoff from the access and car parking / hardstanding areas will drain through SuDS / treatment features comprising trapped gullies and manhole chambers.

3.0 MANAGEMENT & MAINTENANCE RESPONSIBILITIES AND SPECIFICATION

3.01 The table below identifies the maintenance responsibilities for the various drainage features of the scheme.

Feature	Maintenance responsibility
Building drainage	Management company
Surface water drainage within the access and	Management company
hardstanding areas	
Foul water drainage within the access and	Management company
hardstanding areas	
Access and car parking / hardstanding areas	Management company
including drainage (gullies and connections)	

3.02 The table below lists the various drainage features utilised within the proposed drainage design for the development at land adjacent to Marsh View, Shard Lane, Hambleton, along with the maintenance regime that should be followed.

BUILDING DRAINAGE		
Regular maintenance	Frequency	
Visually inspect gutters to ensure they are kept	Annually.	
clear of leaves, debris etc.	No triggers other than maintenance to be taken	
Lift covers of drainage to inspect chambers for	on regular schedule.	
debris and build-up of silts.		
Occasional tasks	Frequency	
Remove leaves and debris from gutters.	As required from regular maintenance inspection.	
Specialist operatives with current confined	Indicator of problem / trigger for maintenance	
spaces training to remove debris from inspection	when surcharging or flooding of drains occurs or	
chambers to ensure outlets are kept clear of	gutters and chambers full of debris and leaves	
debris to ensure adequate drainage.	etc.	
Remedial work	Frequency	
Should drains be heavily blocked or damaged	As required. Indicator of problem / trigger for	
contact drainage maintenance company for	maintenance when drainage not functioning and	
unblocking / repair works.	unblocking pipes and chambers etc. not effective.	
SUDEACE WATER DRAINAGE WITHIN THE ACCESS AND HARDSTANDING AREAS		

SURFACE WATER DRAINAGE WITHIN THE ACCESS AND HARDSTANDING AREAS		
Regular maintenance	Frequency	
Check manhole covers are securely in place. Specialist operatives with current confined spaces training to lift covers and visually inspect manholes to ensure they are kept clear of leaves, debris, silt, etc. Check drainage pipes are operating as expected.	Annually or when notified.	
Specialist operatives to carry out maintenance of pumping equipment in accordance with the manufacturer's recommendations.	Annually or when notified.	
Occasional tasks	Frequency	
Specialist operatives with current confined spaces training to remove debris and silt from the manholes to ensure outlets are kept clear of debris to ensure adequate drainage.	As required from regular maintenance inspection to trigger works.	
Remedial work	Frequency	
The specialist operatives are to advise the	As required from regular maintenance inspection.	

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management company of any repair works	Indicator of problem / trigger for maintenance			
necessary to the manholes and pumping	when drainage not functioning and unblocking			
chamber.	pipes and chambers etc. not effective.			
Drains heavily blocked or damaged to be jetted /				
repaired.				
The specialist operatives are to advise the	As required from regular maintenance inspection			
management company of any repairs to pumping	to trigger works or when equipment fails to work.			
equipment.	to the generation of the second se			
FOUL WATER DRAINAGE WITHIN THE ACCESS AND HARDSTANDING AREAS				
Regular maintenance	Frequency			
Check manhole covers are securely in place.	Annually or when notified.			
Specialist operatives with current confined	No triggers other than maintenance to be taken			
spaces training to lift covers and visually inspect	on regular schedule.			
manholes and pumping chamber to ensure they				
are kept clear of leaves, debris, silt, etc. to ensure				
adequate drainage.				
Check drainage pipes are operating as expected.				
Specialist operatives to carry out maintenance of	Annually or when notified.			
pumping equipment in accordance with the				
manufacturer's recommendations.				
Occasional tasks	Frequency			
Specialist operatives with current confined	As required from regular maintenance inspection			
spaces training to remove debris and silt from the	to trigger works.			
manholes and pumping chamber to ensure				
outlets are kept clear of debris to ensure				
adequate drainage.				
Remedial work	Frequency			
The specialist operatives are to advise the	As required from regular maintenance inspection.			
management company of any repair works	Indicator of problem / trigger for maintenance			
necessary to the manholes and pumping	when drainage not functioning and unblocking			
chamber.	pipes and chambers etc. not effective.			
Drains heavily blocked or damaged to be jetted /				
repaired.				
The specialist operatives are to advise the	As required from regular maintenance inspection			
management company of any repairs to pumping	to trigger works or when equipment fails to work.			
equipment.	to trigger works or when equipment rails to work.			
ACCESS AND CAR PARKING / HADDETAND	NG AREAS INCLUDING DRAINAGE (GUILLIES			
	NG AREAS INCLUDING DRAINAGE (GULLIES			
AND CONNECTIONS)	· · ·			
AND CONNECTIONS) Regular maintenance	Frequency			
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ATTENUATION STORAGE		
Regular maintenance	Frequency	
Inspect and identify any areas that are not	Monthly for 3 months, then annually	
operating correctly. If required, take remedial		
action.		
Remove debris from the catchment surface	Monthly	
(where it may cause a risk to performance)	in order by	
For systems where rainfall infiltrates into the	Annually	
tank from above, check surface of filter for	, uniouny	
blockage by sediment, algae or other matter,		
remove and replace surface infiltration		
medium as necessary.		
Remove sediment from pre-treatment	Annually, or as required	
structures and/or internal forebays.		
Remedial work	Frequency	
Repair/rehabilitate inlets, outlets, overflows	As required	
and vents.		
Monitoring	Frequency	
Inspect/check all inlets, outlets, vents and	Annually	
overflows to ensure that they are in good		
condition and operating as designed.		
Survey inside of tank for sediment build-up	Every 5 years or as required.	
and remove if necessary		
PERVIOUS PAVEMENTS		
Regular maintenance	Frequency	
Brushing and vacuuming (standard cosmetic	Once a year, after autumn leaf fall or	
sweep over whole surface)	reduced frequency as required, based on	
	site-specific observations of clogging or	
	manufacturer's recommendations – pay	
	particular attention to areas where water	
	runs onto pervious surface from adjacent	
	impermeable areas as this area is most likely	
	to collect the most sediment.	
Occasional tasks	Frequency	
Stabilise and mow contributing and adjacent	As required	
areas		
Removal of weeds or management using	As required – once per year on less	
glyphospate applied directly into the weeds	frequently used pavements	
by an applicator rather than spraying		
Remedial work	Frequency	
Remediate any landscaping which, through	As required	
vegetation maintenance or soil slip, has been		
raised to within 50mm of the level of paving		
Remedial work to any depressions, rutting	As required	
and cracked or broken blocks considered		
detrimental to the structural performance or a		
hazard to users, and replace lost jointing		
material.	-	
Rehabilitation of surface and upper	Every 10 to 15 years or as required (if	
substructure be remedial sweeping.	infiltration performance is reduced due to	
	significant clogging)	

Monitoring	Frequency
Initial inspection	Monthly for 3 months after installation
Inspect for evidence of poor operation and/or	Three-monthly, 48 hours after large storms in
weed growth – if requires, take remedial	first six months
action	
Inspect silt accumulation rates and establish	Annually
appropriate brushing frequencies	
Monitor inspection chambers	Annually
FLOW CONTROL DEVICES	
Regular maintenance	Frequency
Inspect and identify any areas that are not	Monthly for 3 months, then annually
operating correctly. If required, take remedial	
action.	
Remove debris and litter from the catchment	Monthly
surface (where it may cause a risk to	
performance)	
Inspect Hydrobrake and clear any material	Monthly
which may cause a blockage	
Occasional tasks	Frequency
Remove sediment	Annually, or as required
Remedial work	Frequency
Repair any damage or vandalism	As required
INLETS, OUTLETS, CONTROLS AND INSPE	CTION CHAMBERS
Regular maintenance	Frequency
Inspect surface structures removing	Monthly
obstructions and silt as necessary. Check	
there is no physical damage.	
Strim vegetation 1m minimum surround to	Monthly
structures and keep hard aprons free from	
silt and debris.	
Remove cover and inspect ensuring water is	Annually
flowing freely and that the exit route for water	
is unobstructed. Remove all debris and silt.	
Occasional tasks	Frequency
Check topsoil levels are 20mm above edge	As required
of baskets and chambers to avoid mower	
damage	
Remedial work	Frequency
Unpack stone in basket features and unblock	As required
or repaid and repack stone as necessary.	
Repair physical damage if necessary	As required