



DESIGNERS RISK ASSESSMENT
Civil Engineering Design – SuDS Basins, Swales and Ditches

LAND AT SUMMER LANE, PAGHAM

FOR

Drew Smith Limited

Revision	Date	Originator	Approved
<i>First Issue</i>	02/12/19	TRS	TRS

Project Name: Land at Summer Lane, Pagham
Project Number: E4761
Report Ref: DSM/E4761/17563
Date: 02/12/2019
Client: Drew Smith Limited



Ref no. Category	Potential Hazard	Consequence of Hazard Occurring	Risk Rating			Action at Design Stage to Reduce Risk	Residual Risk Rating			Additional Control Options required to reduce Residual Risks so far as reasonably practicable	Open/Closed	Owner
			L*	S*	R*		L*	S*	R*			
C	Swales & basins, risk of Drowning.	Injury, Drowning, potential death to contractors/public.	2	8	16	The swale is to be designed with max. proposed 1 in 3 slopes whilst the attenuation basins are designed with a 1 in 5 side slopes to provide a means of escape and egress if necessary.	2	4	8	A ROSPA Water Safety Review is to be commissioned during the construction stage to audit and review and further safety mitigation requirements. All works to be in accordance with the Contractor's Approved Method of Works	Open	Drew Smith Limited
C	Swales & basin, thin ice.	Public/Workers.	3	10	30	Swales designed with pedestrian guardrail round the perimeter of hazard.	2	10	20	Provision of warning signs. Use of deterrent planting at edge of swale to be reviewed. A ROSPA Water Safety Review is to be commissioned during the construction stage to audit and review and further safety mitigation requirements.	Open	Drew Smith Limited
C	Swales & Ponds, stagnant water/Eutrophication.	Public/Workers.	4	6	24	Dry swales & attenuation basin	2	6	12	Planting within swales and ponds to be specified by Landscape Architect to reduce potential for eutrophication. Provision of warning signs to note "No Swimming"	Open	Drew Smith Limited
C	Working on or close to existing watercourses.	Biological disease, Trenchfoot, Leptospirosis.	4	10	40	Outfalls to watercourse reduced as far as reasonably practicable.	1	10	10	All works to be in accordance with the Contractor's Approved Method of Works.	Open	Drew Smith Limited
C	Falls from height for vehicles and pedestrians between road level and base of attenuation basin or swale	Damage to vehicles and property. Crush injuries, potential death to motorists, residents and school users.	2	10	20	A Local Roads Assessment was carried out to assess the risk of vehicles in relation to the basins and the residual risk was deemed low.	1	10	10	A ROSPA Water Safety Review is to be commissioned during the construction stage to audit and review and further safety mitigation requirements. All works to be in accordance with the Contractor's Approved Method of Works	Open	Drew Smith Limited
C	Groundwater.	Rapid reduction in stability of excavations and pond side slopes.	4	10	40	Attenuation basin designed to have a base level above the 2018/2019 winter groundwater level. Local dewatering measures to be provided whilst constructing the swale	2	8	16	All works to be in accordance with the Contractor's Approved Method of Works.	Open	Drew Smith Limited
C	Falls from height in relation to the northern ditch	Injury, Drowning, potential death to contractors/public.	2	8	16	New fence to be placed along the top edge of the ditch with removal rails to enable future maintenance access	2	4	8	A ROSPA Water Safety Review is to be commissioned during the construction stage to audit and review and further safety mitigation requirements. All works to be in accordance with the Contractor's Approved Method of Works	Open	Drew Smith Limited

RISK ASSESSMENT PROCESS

Where risks are identified their likelihood of occurrence will be classed as 1 to 5 as follows:

1. IMPROBABLE	Extremely Unlikely to Occur
2. POSSIBLE	Unlikely to Occur
3. PROBABLE	Probably Will Occur
4. FREQUENT	Very Likely to Occur
5. CERTAIN	Extremely Likely to Occur

Where risks are identified they will further be assessed for potential severity as 2 to 10 as follows:

2. NEGLIGIBLE	Negligible Injury or Consequence
4. MINOR	Minor Injury or Consequence
6. SIGNIFICANT	Significant Injury or Consequence
8. MAJOR	Major Injury or Consequence
10. CRITICAL	Critical Injury or Consequence

These will then be transposed to the Design Risk Assessment Form where each figure is multiplied by the other to assess risk before and after control measures are employed.

CATEGORY OF RISK

C	CDM
E	Environmental
P	Project/Commercial



LIMITATIONS

This document has been prepared by the Civil Engineering Designer in accordance with the requirements of Regulation 9 of the Construction (Design and Management) Regulations 2015 and supporting Code of Practice.

The Schedule identifies significant residual hazards remaining at this stage of the design process and does not identify those generic hazards normally encountered by a Contractor who has been assessed by the Client in accordance with the Regulations as being competent to undertake works of this general nature.

The schedules also indicate, where appropriate, features incorporated within the design to reduce the risks.

All risks have and should be assessed with a view to minimising the risk to all parties, e.g. The general public and building operatives during the construction process, occupation, maintenance and any future alteration or demolition works.

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