

## Appendix B – Risk Register



Item	Category	Impact	Severity	Cost/Time/Quality/Environment	Control	Residual	Client / Consultant	Client / Consultant	Y	L	M	H	0	100	300	116.67	2.38	2.85	0	1	2	1.0
		Inadequate Site Investigation, Contaminated ground / Foundations, Coffing, retaining walls or boundaries	R	Cost/ Time/ Environment	M	H	Consultant	Client / Consultant	Y	L	M	H	0	100	300	116.67	2.38	2.85	0	1	2	1.0
		Excavated materials used for civil engineering works (e.g. for canal lining and weepholes) deposited in banks	R	Cost/ Time/ Environment	M	H	Consultant	Client / Consultant	Y	L	M	H	0	100	300	116.67	2.38	2.85	0	1	2	1.0
		Shoring and scaffolding used for this design slope gradient, requiring shalower slope or additional support measures	R	Cost/ Time/ Quality/ Environment	M	H	Consultant	Client / Consultant	Y	L	M	H	0	100	300	116.67	2.38	2.85	0	1	2	1.0
25	Physical condition	Adverse weather conditions (eg high intensity rainfall or others) during year site activities	R	Cost/ Time/ Quality/ Environment	H	H	Consultant	Client/Consultant /Contractor	Y	M	H	H	0	50	500	116.67	2.38	2.85	0	1	10	2.3
		Adverse water levels in rivers, wetland and other climatic conditions	R	Cost/ Time/ Quality/ Environment	M	H	Client	Client/Consultant /Contractor	Y	M	M	H	0	100	500	100.00	2.13	2.56	0	2	6	2.3
		Excessive groundwater pumping in excavations	R	Cost/ Time/ Quality/ Environment	M	M	Consultant	Client/Consultant /Contractor	N	L	M	H	0	100	200	100.00	2.21	2.77	0	2	4	2.0
		Shoring and scaffolding used for this design slope gradient, requiring shalower slope or additional support measures	R	Cost/ Time/ Quality/ Environment	H	H	Consultant	Client / Consultant	Y	L	M	H	0	100	300	116.67	0.79	0.95	0	1	2	1.0
26	Changes in Scheme	Constructive safety reductions to cover site conditions	A	Cost	M	H	Consultant	Client/Consultant /Contractor	Y	L	M	H	0	100	250	103.33	0.35	0.42	0	1	2	1.0
		Additional works in relation to water management	D	Cost/ Time/ Environment	H	H	Consultant	Client/Consultant	N	M	H	H	0	500	2500	760.00	0.35	0.42	0	0	0	0
<b>Environmental Risks</b>																						
27	Environmental Impact	Non compliance with environmental legislation, permits (planning, Highways, etc) or other (planning, Highways, etc)	D	Cost/ Time/ Quality/ Environment	M	H	Consultant	Client / Consultant	N	L	M	H	0	10	20	10.00	0.96	1.03	0	0	2	0.3
		Consent or contractor failure to meet environmental specification	A	Cost/ Time/ Quality/ Environment	M	H	Consultant	Client/Consultant /Contractor	N	L	M	H	0	10	50	15.00	0.30	0.36	0	0	2	0.3
		Unacceptable impacts on riparian habitats or sanctuaries (eg new designation)	A	Cost/ Time/ Quality/ Environment	M	M	Client	Client/Consultant	N	L	M	H	0	10	50	15.00	0.28	0.33	0	0	4	0.7
		Unacceptable matter stepping on the project	R	Cost/ Time/ Quality/ Environment	M	M	Client	Client/Consultant /Contractor	Y	L	M	H	0	10	50	15.00	0.31	0.37	0	0	2	0.3
		Discovery of buried (unknown) archaeological remains or other significant buried or submerged archaeological remains	R	Cost/ Time/ Environment	L	M	Consultant	Client	Y	L	M	H	0	10	50	15.00	0.95	1.14	0	1	8	2.0
		AS2 requires a separate investigation	R	Cost/ Time/ Environment	H	VH	Consultant	Client	Y	M	M	H	0	25	150	41.67	0.95	1.14	0	1	4	1.3
		Requirement for detailed hydrological studies	D	Cost/ Time/ Environment	M	M	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
		Further surveys and research required to inform hydrological studies	D	Cost/ Time/ Environment	H	H	Consultant	Client	Y	L	L	H	0	10	20	10.00	0.95	1.14	0	0	1	0.2
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**Halcrow Group Limited**

Lyndon House 62 Hagley Road Edgbaston Birmingham B16 8PE  
Tel +44 (0)121 456 2345 Fax +44 (0)121 456 1569

**[www.halcrow.com](http://www.halcrow.com)**