Irish Water Form IW-HSQE-FM-037		Revision: 3.0	ı	Design Risk Asses	sment Fo	orm			Approved by: Andrew Cartwright	Approval	date: 20/0 ²	1/15			
Project:			Project Type:				Design S Scope o Design:	Stage and f the		Designer:				PSDP at time of Document Preparation:	
Document Title:			Date of Assessment:				Assessn			Assessmen					
			Revision No:				undertal Role & Organisa Assesso	ation of		Reviewed by: Role & Organisation of Reviewer:		Role & Organisation			
Reference No.	Work Phase(s)	Activity	Related Hazard	Who is at Risk?		_	unimima au aautual tha ui		Action Taken by the Designer to eliminate, minimise or control the risk	Residual Likelihood Severity		1	T	Residual Risk to be passed to another	Residual Risk Owner
	Enter the work phase(s) to which the risk is applicable. (Construction / Operation / Maintenance / Demolition)	Enter the Activity to which the risk is applicable.	Enter the hazard. Ensure all relevant hazards are addressed.	List persons or groups at risk (see Risk Rating Guidance)	1-5 (select from list)	1-5	Risk Likelihood x Severity	Ranking Low, Medium or High is automatically assigned	Give details of control measures taken at this stage to eliminate, reduce or control the risk for the Contractor constructing the works or for those operating and maintaining the works.		1-5 (select from list)	Risk Likelihood x Severity	Ranking Low, Medium or High is automatically assigned	Party Yes or No	
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Guidance on assessing project risk						
Step 1:	Look for the hazards					
	ng with the potential to cause risk.					
Step 2:	Decide who might be harmed by the work activity					
	For example:	Construction Worker				
		Member of the Public				
		Client or Client's Representative employee				
		Operator				
		Maintenance Worker				
		Demolition Worker				
Step 3:	IKELIHOOD of the hazard occuring					
Reference 'Table A' on the right for guidance.						
Step 4: Determine the SEVERITY of the impact if the hazard oc						
	Reference 'Table B' on the right for guidance.					
Step 5:	Categorise the	Risk				
	Risk = Likelihood	x Severity				
	Reference 'Table C' below					
Step 6:	Consider actions that may be taken to eliminate, reduce, or control the risk					
Step 7:	Reassess the re	esidual risk, following any actions taken.				
Ctop 1.	Toucous inc it	any additional months				
Step 8:	Complete the Risk Assessment for all hazards identified.					

Table C: Risk Catergorisation

	Likelihood						
		1	2	3	4	5	
	1	1	2	3	4	5	
Š	2	2	4	6	8	10	
Severity	3	3	6	9	12	15	
	4	4	8	12	16	20	
	5	5	10	15	20	25	

Table A: Guidance on assessing the likelihood of harm arising from a hazard

Likelihood Rating	Guidance on each Likelihood Rating	(Average Frequency)		
1	May never happen - Unlikely to occur - only in exceptional circumstances	Once in corporate memory/probability close to zero		
2	Possible - Considered unlikely – could occur but its doubtful	Once in a working life / unlikely to occur		
3	Probable - Circumstances can be envisaged when it could happen – some time in the future.	Once in five years/likely to occur some time		
4	Likely to happen - Quite conceivable – it probably will occur sometime in the future	Once every 6 months / may occur more than once		
5	Will happen - Likely to occur immediately or within a short period of time; may even be expected to occur frequently.	Once or more per week / may occur many times		

Table B: Guidance on assessing the severity of harm arising from a hazard

Severity Rating	Narrative of Accident	Severity of Accident
1	Superficial injuries; minor cuts / bruises; eye irritation from dust. Nuisance / irritation / discomfort (1-3 days)	Insignificant
2	Lacerations; burns; serious sprains; minor fractures; partial hearing loss; dermatitis; asthma; work related upper limb disorders; ill health leading to permanent minor disability (>3 days)	Minor
3	Amputations; multiple injuries; major fractures; severe life shortening diseases; permanent substantial disability; or many individuals suffering 'moderate' injuries (4-16 weeks)	Serious
4	Injuries or illness resulting in a single fatality, or many individuals suffering severe injuries (>16 weeks)	Critical
5	Injuries or illness resulting in multiple fatalities	Catastrophic

Risk Score	Risk Ranking Controls Required		NOTE: Significant risks are not necessarily those that
1 to 5	LOW	Low risk, controlled satisfactorily. Reduce further if reasonably practicable, no further action required, but activity should be monitored to ensure risk does not increase over time	
6 to 10	MEDIUM		(a) not likely to be obvious to a competent contractor or other designers,
12 to 16		Serious risk, additional controls must be put in place (eg Mitigate / amend design / change option). Controls should be identified to bring risk level down to as low as is reasonably practicable.	(b) unusual, or
20 to 25	VERY HIGH	Unacceptable level of risk. The activity should not commence until control measures have been put in place to reduce risk to an acceptable level.	(c) likely to be difficult to manage effectively