

The following Designer’s Risk Assessments are based on the risk matrix below.

PROBABILITY	Almost Certain	A					
	Likely	B					
	Possible	C					
	Unlikely	D					
	Rare	E					
			5	4	3	2	1
			Very Low	Low	Medium	High	Very High
			IMPACT				

Record of Designers' Actions to Reduce Risk

Use this form to record any instance where hazards of construction, maintenance, cleaning & demolition have been identified, and design actions have been taken to reduce the associated risks. Ensure that the Project Hazard Inventory is also updated. Any new hazards caused as a result of the design changes must also be identified and added to the Project Hazard Inventory.

Project Title: Waterloo Cottage			Project No. ERCF2509N 05		Prepared by: John Castle		Date: October 2026		Form Ref. No. 1 of 3	
Phase: Construction ☒ Maintenance ☐ Demolition ☐										
Hazard	Haz Ref.	Initial Risk level		Design actions taken to remove or reduce risks (Avoid, Reduce or Control the hazards)	Residual risk levels after design changes have been made					
		Prob	Impact		Prob	Impact				
Pedestrian/vehicle hazards.	1	C	1	1. Pedestrians must not be allowed on to the site. Area to be fenced or barriered off. 2. The Principal Contractor to provide barriers/safe means of access. 3. Appropriate safe systems of work to be adopted including signs. 4. High visibility clothing to BS 6629	D	2				
Moving vehicle hazards.	2	C	1	Principal Contractor to provide: 1. Safe systems of work. 2. Adequate signs. 3. Banksman.	D	2				
Mechanical plant operations.	3	C	2	Principal Contractor to develop safe working procedures for all plant operations and maintenance. The use of suitably trained personnel will be mandatory.	D	2				
Fire.	4	C	2	Fire Safety Procedures for the compound and work areas are to be developed by the Contractor.	D	2				

Project Title: Waterloo Cottage		Project No. ERCF2509N 05		Prepared by: John Castle		Date: October 2026		Form Ref. No. 2 of 3	
Phase: Construction ✓ Maintenance □ Demolition □									
Hazard	Haz Ref	Initial Risk level		Design actions taken to remove or reduce risks (Avoid, Reduce or Control the hazards)	Residual risk levels after design changes have been made				
		Prob	Impact		Prob	Impact			
Hot works	5	C	2	All hot works to be carried out by authorised and trained personnel only. Fire extinguishers are to be provided immediately adjacent to the hot work area and catch mats or boards are to be provided over the timber decking to catch sparks or slag. A Fire Watcher is required to watch the area during and post work to monitor fire risk, sparks, slag and hot objects for a period of up to one hour following the completion of all hot work.	E	2			
Working at height	6	C	2	Contractor to comply with Work at Height Regulations 2005. Where possible all demolition/ dismantling work to be carried out by mechanical plant to reduce the risk of falling from height. Where working from height is unavoidable, cherry pickers or MEWP's are to be used and all staff must be equipped with appropriate fall arrest systems/ harnesses and lanyards that are securely attached to a designated anchor point.	E	2			
Noise	7	C	2	Plant noise to be reduced so far as is reasonably practicable. Principal Contractor to comply with requirements of Control of Pollution Act. Construction noise at properties to be limited as specified in the Tender Document.	D	3			
Manual handling operations.	8	C	3	Minimise the requirements for manual handling of materials. Mechanical lifting and carrying appliances should be used where practicable.	D	4			
Waste disposal.	9	C	3	All waste to be disposed off site.	D	4			

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Phase: Construction ☒ Maintenance ☐ Demolition ☐										
Hazard	Haz Ref.	Initial Risk level		Design actions taken to remove or reduce risks (Avoid, Reduce or Control the hazards)	Residual risk levels after design changes have been made					
		Prob	Impact		Prob	Impact				
Site Security. (vandalism)	10	C	3	The Principal Contractor to co-ordinate all aspect of security for his own compound and the Works.	D	3				
Hazardous/ toxic materials	11	D	2	Contractors to prepare COSHH assessment for materials used. Test in excavations, manholes, drains for toxic gases. Test for hazardous ground contaminants. Appropriate protective equipment to be work/utilised during laying of hot materials and materials with detrimental effects upon skin contact.	E	2				
Underground/ buried services, overhead services.	12	D	2	Principal Contractor is to take every precaution possible to utilise all known detection methods to locate the actual positions of underground/ overhead services prior to commencement of works.	E	2				
Lifting Activities	13	C	1	Qualified contractors to provide lifting plan, segregate area etc	D	1				
Working adjacent to open excavations	14	C	1	Excavations minimised where practicable. Stable excavation profiles or proprietary support systems to be used as required. Edge protection, barriers and safe access/egress to be provided. Plant and material stand-off distances maintained. Temporary works and excavation support to be designed and inspected by competent persons in accordance with ground conditions and excavation depth.	D	2				

Working within a live farm environment	15	D	2	Stock-proof fencing and secure gates to be provided to segregate the works from livestock. Construction footprint and duration within the field minimised. Access routes, compounds and storage areas positioned to reduce interaction with farming operations. Liaison with landowner maintained throughout the works and all boundary features reinstated on completion	E	2
Temporary instability of concrete bag wall during demolition	16	B	1	Plant and material stand-off distances maintained. Temporary works and excavation support to be designed and inspected by competent persons in accordance with ground conditions and excavation depth	B	3
Alkathene 0.75inch water main under Waterloo Hill	17	B	2	Confirm pipe position and depth using trial holes Mark out the service route on site prior to excavation. Establish exclusion zone around identified pipework. Use hand digging within 500 mm of the known service location. Brief all operatives on the presence of the water main during site induction and daily briefings. Prohibit use of mechanical breakers or excavators directly above the pipe. Liaise with Welsh Water regarding protection requirements where works are adjacent to the asset. Provide temporary support or protection to exposed pipework where necessary. Maintain emergency contact details for Welsh Water in the event of a strike.	D	2