



ROGER BULLIVANT

RISK & WORKING ENVIRONMENT ASSESSMENT

Contract Name:	Unit B Mardon Park, Central Avenue, Baglan Energy Park, Port Talbot			Contract No.	PP24/2001
Assessed By:	David Johnson	Signature:	<i>D. Johnson</i>	Date:	18.12.23
Activity/Process:	PILING - DRIVEN PILING			RA Serial No.	GEN-RA-001

Risk Assessment Matrix

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

Likelihood Key

Score	Likelihood
1	Unlikely
2	May Happen
3	Likely
4	Very Likely
5	Certain

Severity Key

Score	Severity
1	No impact
2	Minor Incident
3	Medium Incident
4	Major Incident
5	Catastrophic Incident

Risk Number	Associated Hazard	Person(s) Affected	Consequence	Risk Assessment Score			Control Measures	Residual Risk		
				L	S	R/R		L	S	R/R
1	Driven Pile pushing solid contaminants down into the ground water	The driving down of soil in contact with the butt end or 'plugging' of an open ended pile	Contamination of the groundwater Impact to the sensitive local ecology	2	3	6	- Use of solid precast sections to prevent plugging - Specify slender sections L/B ratio >40 - Include a central projecting spigot on lead section to deflect contaminated fill as the section passes through the strata	1	3	3
2	Pile creating pollution pathway between contaminated fill and ground water	Along pile shaft	Contamination of the groundwater Impact to the sensitive local ecology	2	3	6	- Use solid precast sections - Research has proven that soils reform around displacement pile shafts 'sealing' and preventing any pathway	1	3	3