

**ROGER BULLIVANT****RISK & WORKING ENVIRONMENT ASSESSMENT**

Contract Name:	Unit 21 Extension, Mardon Park, Central Avenue, Baglan Energy Park, Port Talbot	Contract No.	PP22/2019
Assessed By:	David Johnson	Signature:	<i>D. Johnson</i>
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	Minor Injury (First Aid)
2	Minor Injury (Hospital Treatment)
3	Seven Day Injuries (Time Lost)
4	Major Injuries
5	Death

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