

Document Owner: HSQE Manager		HEALTH SAFETY AND ENVIRONMENT RISK ASSESSMENT				F546 Issue 1.3 (March 2018) Procedure P520; Filing reference 13.5																																																					
Project Number/Name:		Rock Street Flood Alleviation Scheme - W000125				Assessment No: 3																																																					
Operation:		Temporary works and excavation				Date: 23.08.22																																																					
Location:		Inlet Structure				Review Date:																																																					
Notes:						Prepared By:		Callum Maddocks																																																			
						Job Title:		W00125																																																			
						Signature:																																																					
						Reviewed:																																																					
Persons exposed: (Yes / No)								<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Likelihood</td> <td>5 Almost Certain</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <td>4 Likely</td> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> </tr> <tr> <td>3 Possible</td> <td>3</td> <td>6</td> <td>9</td> <td>12</td> <td>15</td> </tr> <tr> <td>2 Unlikely</td> <td>2</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>1 Rare</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td colspan="2"></td> <td>1 Negligible</td> <td>2 Minor</td> <td>3 Moderate</td> <td>4 Major</td> <td>5 Extreme</td> </tr> <tr> <td colspan="6"></td> <td colspan="2"></td> <td colspan="3" style="text-align: center;">Severity</td> </tr> </table>			Likelihood	5 Almost Certain	5	10	15	20	25	4 Likely	4	8	12	16	20	3 Possible	3	6	9	12	15	2 Unlikely	2	4	6	8	10	1 Rare	1	2	3	4	5			1 Negligible	2 Minor	3 Moderate	4 Major	5 Extreme									Severity		
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Direct employees Yes Other workers Yes Young person(s) No Public/Visitors Yes																																																											
Hazards with potential for harm						GUIDANCE: Likelihood of harm: High = 5 (almost certain); Low = 1 (rare) Severity of harm: = 5 (Extreme) Death / Lasting Env harm = 4 (Major) Hospitalised / Env harm = 3 (Moderate) Loss time / Loss shift = 2 (Minor) First Aid only / Min harm = 1 (Negligible) Negligible injury / harm Consider method of work and describe the full control measures as appropriate to the activity Where residual risk is 15 to 25 the HSQE team should be consulted																																																					
Work at Height	☐	Laser	☐	Train/Road Rail Vehicles	☐						Surface slip/uneven	☐																																															
Mobile plant/vehicles	☒	Asbestos	☐	Fire/explosion	☐						Work on or near water	☐																																															
Excavation/Earthwork	☒	Dust / Silica	☐	Flying particles	☐						Darkness	☐																																															
Underground services	☒	Noise	☒	Structural collapse	☐						Flood	☒																																															
Overhead cables	☒	Vibration	☐	Contaminated material	☐						Adverse Weather	☐																																															
Other o/h obstruction	☐	Fumes/gas	☐	Disease	☐						Lightning	☐																																															
Falls of material	☐	Lifting operations	☐	Unstable / soft ground	☐						Temperature	☐																																															
Electricity	☐	Demolition	☐	Confined spaces	☐						Pressure	☐																																															
Lead Material	☐	Machinery parts	☐	Manual Handling	☐						Excessive glare /dazzle	☐																																															
Radioactive isotope	☐	Animals	☐	Sharp edges	☐	Airside Ops	☐																																																				
Young Persons	☐	Ecology (Specify)	☒	Pollution (Specify)	☐	Other (Specify)	☐																																																				
Hazardous substances excluding Asbestos, whole Lead or Silica dust require a separate COSHH Assessment Other Hazard(s) (specify) (The above list is intended as a guide and is not exhaustive)								Control supervised by: Callum Maddocks Actioned Date: 23/08/22																																																			
								Signature:																																																			
								Job Title: YII Engineer																																																			

Project Number/Name:			Rock Street Flood Alleviation Scheme - W000125				Assessment No:		3	
Hazard	Factors of harm See notes		Risk See Notes	Describe Risk & Required Control Measures				Factors of harm See notes		Residual risk See notes
(List items ticked on header sheet)	Likelihood	severity		reference method statement if necessary				Likelihood	severity	
Mobile plant/vehicles	4	5	20	Mobile plant operating near the highway/footway and causing harm to the public is a hazard that will be controlled by using pedestrian barriers and pedestrian vehicle barriers. The excavator will not operate in the highway footway during work in or around the inlet structure. The perimeter of our works will be clearly signed and pedestrian access will be completely prevented by use of barriers/fencing. Only one excavator will be used up there so the risk of mobile plant colliding is removed.				1	5	5
Excavation/Earthwork	5	5	25	Open excavations are a hazard that will be reduced by fencing off anything that is open - no material will be stockpiled on the edge of an excavation to remove the risk of material slipping or falling in.				1	5	5
Underground Services	4	5	20	Damaging underground services - will be controlled by referencing existing service drawings, as well as actively using a CAT and Genny during all excavation work. Any work close to services will be excavated using insulated hand tools.				1	5	5
Overhead Cables	3	5	15	Plant/machine colliding with overhead cables - will be controlled by ensuring the height of overheads is known and is below max height of excavator. Small excavator to be used (5T/8T) to height associated risk. Any low hanging cables will be identified early and re-tensioned.				1	5	5
Noise	4	4	16	Noise caused by machine / plant / pump if it was being used - Work will be scheduled to stop by 5PM every day and will not begin until after 8AM. The use of a pump will be avoided as we have opted to create a temporary diversion route to reduce noise levels overnight and fuel consumption/emissions.				1	4	4
Ecology	5	5	25	Work will be taking place in a protected area of woodland and within an area of known invasive species - disruption to the protected habitats is very very minimal, all work regarding the removal of vegetation will be carefully done by use of appropriate hand tools. All work will be conducted effectively with ECoW guidance. Invasive species will be dealt with via specialist subcontractor and any work in the area with plant machinery/personnell will require a full clean before leaving the site. Control measures in place to isolate/highlight areas effected by invasive species and to be clearly communicated/marked out for workers to be made aware of.				1	5	5

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Flood	3	5	15	Event of flood occurring in extreme weather conditions and causing harm or damage - all machinery and plant to be stored in car park as it will be well above water level. All materials to be stored above water level - site to be kept clean and tidy at all times to ensure no loose parts/material is washed in the event of a flood which could potentially cause harm/damage/further blocks etc.				1	4	4
Row 8										
Row 9										
Row 10										