

	SITE SPECIFIC RISK ASSESSMENT					LIKELIHOOD (L) 5. Almost Certain 4. Likely 3. Possible 2. Unlikely 1. Remote		SEVERITY (S) 5. Very High (death / permanent incapacity) 4. High (major injury / severe incapacity) 3. Moderate (injury / 3 days off) 2. Slight (minor injury / immediate first aid) 1. Negligible (no or trivial injury or illness)		Risk Assessment Ref.: SSRA / 002	
	Contract No.: UU6161									Assessment Date: 22/10/24	
	Contract Title: Bury Aesthetic Screens									Issue Status: Rev 3	
	Scope / Description / Location of Works:									Assessed by: D Costello	
	Outfall, Pipework and manhole installation									Approved by: A Owen	
					Risk Factor (RF) = Likelihood x Severity				Page: 1 of 13		

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			L	S	RF		L	S	RF		
			1-5	1-5	1-25		1-5	1-5	1-25		
Services	Service strike	Operatives / members of the public	4	5	20	• Desk top service check • Alert relevant service providers prior to start – Dial before you dig. • Survey area with CAT and Genny and also visually, CAT and Genny to have valid calibration certification and weekly checks. • The users to be CAT and genny trained. • Mark out known service locations with spray or flags in soft ground. • Valid permit to dig to be in place, understood and signed. • All operatives must be suitably trained for the equipment they are using • Safe digging practices in line with MS • Use insulated hand tools and flame-retardant coveralls. • No mechanical excavation until hand dig proves clear. • No mechanical excavation within 500mm of services • CAT scan every 300mm depth minimum. • No breaking of concrete unless consulted with site management. • Toothless bucket for mechanical excavation • All services to be deemed live unless written confirmation to confirm dead. • Keep good records of all services found for future use	1	5	5		Site Engineer / Supervisor / Project Manager

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Open Excavations	Fall from height	Operatives / members of the public	3	5	15	- No excavations to be left unattended. - Fence off excavations adequately. - Always close gates to shoring platform - Always have access ladders in place should the need to evacuate the excavation arise - Excavations to be inspected and maintained by a competent person, daily. - Monitor excavation depth. - Store as dug material away from excavation. - Backfill around shoring to create flat working area - Lower gas monitor into excavations deeper than 2m to check the atmosphere is safe to enter	1	5	5		Site Engineer / Supervisor / Project Manager
Installation of ground shoring	Dropping of load Collapse of box	Operatives	3	5	15	- Shoring to be built as per manufacturer's instructions attached. - Only competent CPCS trained slinger / signallers can sling loads. All ops must stand clear of machine slew radius and banksman must be present at all times. - Lift plan and permit must be in place - No person should stand beneath a slung load. - The minimum number of operatives should be used for the operation – all those not involved must keep well clear of the lifting area - All lifting gear to have relevant test and inspection certification in order and available for inspection. - All lifting gear shall be subject to visual examination prior to and after use - Use designated lifting points only.	1	5	5		Site Engineer / Supervisor / Project Manager

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Movement of plant on-site/Installation of sheet piles	Overturing of plant Crushing	Site personnel	3	5	15	- Level Working Piling Platform to be constructed in accordance with Temporary Works procedures. - Sufficient platform width required for working with crawler crane. - Working Platform certificate provided by BCL. - Plate Bearing Tests to be completed by BCL. - Working Platform certificate provided by BCL. - Daily visual inspection of working platform. - If platform has been damaged stop all works and report to supervisor.	1	5	5		Site Engineer / Supervisor / Project Manager
Lifting	Collision with plant/personnel Failure of plant Crane Overtopping Falling materials Persons crushed Wind related accident	Operatives	4	5	20	- Weight of lift to be within capabilities of crane. - Qualified Lift Supervisor to be present for all crane lifts. - Trial lift where piles hoisted approx. 150mm above ground to be undertaken prior to removing from wagon. - When lifting single piles, Pile quick release shackle to be used. - Guide rope to be utilised when lifting bulk bags and other large items. - No lifting to be undertaken if wind speed exceeds 10m/s (22mph) or operatives do not feel it is safe to do so. - Banksman to ensure materials are not slewed over operatives working. - Operatives to ensure they do not stand beneath a suspended load. - Lifting gear to be selected by a competent person (Qualified Slinger / Signaller) and capacity and condition checked. - A requirement to off load sheet piles from the traffic management may be required. Ensure all lifts are controlled under the guidance of the lift Supervisor and Slinger	1	5	5		Site Engineer / Supervisor / Project Manager

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						signaller, all loads to be secured with Tag lines. The Banksman will be required to stand at the rear of the trailer when the hook block of the crane is lowered down, this will ensure the crane is located at the centre point of the lift and not overshooting the proposed lift. - Lifts to be in accordance with Lift Plan for the mobile crane or excavator. - All excavators to have Rated Capacity Indicator or SLI, audible/visual warning + boom warning device - Lift exclusion zone to be set up. BCL Banksman to ensure no unauthorised person entering lifting area. - All lifting equipment will have a current test certificate checked by BCL Supervisor and be in good working order. Certs will be held on the main hub and checked by Slinger/Signaller. damaged or faulty equipment should not be used and immediately quarantined. - Lifting to take place on firm/level ground. - All lifting equipment will be checked as per LOLER, Colour coding as per the current contract. - Crane to be supplied with anemometer and a red light which must remain on during all operations, during non-working hours the crane jib will be retracted.					

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Cutting PCC	Use of power tool Flying debris Fuel leak Manual handling Laceration / injury Hit by flying debris Muscular / skeletal strain	Operatives	3	3	9	- All operatives using cut off saw or pipe cutting machine must be trained and competent to work with abrasive wheels. - Equipment must be checked before each use – guards in place etc - Hearing protection and impact goggles MUST be worn with abrasive wheel use – light eye protection is not sufficient. - When not in use, the cut off saw must be placed on a drip tray or plant nappy - All operatives must stand well clear of cutting area - HAV's monitoring will be carried out and maximum trigger times given to operatives which must not be exceeded.	1	3	3		Site Engineer / Supervisor / Project Manager
Installation and Jointing of PCC units	Operative hit by excavator Muscular / skeletal injury Trapping	Operatives	3	4	12	- Operatives to stay clear of machine slew zone - Pipes to be pushed home mechanically where possible - Where mechanical means not necessary, steel bar or shovel may be used to push pipe home - Pipe lubricant should be used to reduce physical workload	1	4	4		Site Engineer / Supervisor / Project Manager
Contamination of water routes	Ecological issue, company fines	Local environment, Bethell Business	3	4	12	- Refuel away from water courses including gullies. - Spill kits and plant nappies to be available and used. - Only dewater to approved routes	1	4	4		Site Engineer / Supervisor / Project Manager

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Hand to Arm Vibration Syndrome (HAVS)	Carpel Tunnel Syndrome because of prolonged exposure to vibrating equipment.	Operatives	4	4	20	- Ensure the equipment trigger time is identified from the manufacturer's specifications. - Operatives are only to work within the specified exposure limits. - Operators are to be rotated regularly to reduce the exposure limits. - Trigger times are to be recorded at the end of each shift to identify the high-risk individuals and the high-risk activities. - Ensure hands are kept are warm and dry prior to operating any vibrating machinery.	2	4	8		Project Manager / Works Manager/Operatives
Dust and noise from cut off saw or breaker.	Dust and noise nuisance Dust and noise injury	Operatives / members of the public	5	4	20	- Mandatory PPE must be worn. - Dust mask must be worn. - Dust suppression must be carried out. - Hearing protection to be used with saw and breaker, including ops working locally	1	4	4		
Bursting of cut off saw disc	Struck by debris	Operatives / members of the public	4	3	12	- Trained and competent operatives to use cut off saw. - Ensure tools equipped with guards / screens. - Impact goggles must be worn	1	3	3		
Breaking	Struck by debris	Operatives / members of the public	4	4	16	- Permit to break ground to be in place. - Dampen down area if necessary to control dust. - Debris netting may be necessary if close to public or other operatives / windows. - No person to be within 5m of the works. - Banksman in place and ops to wear impact goggles and hearing protection	1	4	4		

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Quick release buckets	Struck / crush injury	Operatives / members of the public	3	5	15	- Operator must be competent and familiar with bucket change procedure. - Quick release to be checked every morning. - Suitable area for changing buckets to be in place. - Visual check that bucket is secure before commencing and after bucket is changed	1	5	5		
Use of small tools	Injury	Operatives	3	4	12	- Check all tools before use. - Report any faults to supervisor. - Weekly tool checks (PUWER) - Only use the right tool for the job	1	4	4		

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Moving vehicles / rollers / lorries / dumpers / excavators etc.	Contact with pedestrians	Operatives / members of the public	3	5	15	- Ensure operators are trained and competent. - Check plant and record on a daily basis. - Eliminate need for reversing where possible. - Provide one-way traffic systems and turning areas if possible. - Set up pedestrian exclusion zones if possible. - Ensure flashing warning lights are used on plant. - Plant to have audible reversing warning devices or cameras. - Banksmen to bank plant where necessary - Pedestrians to ensure that they have plant operator's attention before approaching the machine. - No personnel to be within the operating radius of plant. - Operatives to adhere to speed limits where applicable. - Plan deliveries and collections from site in advance - Operatives to always wear high visibility clothing.	2	5	10		Project Manager / Site Engineer
Manual handling	Pulled backs, strains and sprains, cuts and abrasions	Operatives	3	3	9	- Substitute manual handling with mechanical means of lifting if possible. - Ensure operatives are trained in manual handling. - Two man lift if possible - Ensure routes are clear to prevent trips - Assess the load before lifting. - Adopt correct lifting procedures for lifting.	2	3	6		Project Manager / Site Engineer

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Slips trips and falls	Falling or tripping resulting in injuries to hands, strains and sprains and back injuries	Operatives	3	2	6	- Keep working areas tidy – good housekeeping. - Avoid leaving materials poorly stacked around working area. - Ensure temporary footpath surfaces are suitable for use at the end of every shift	2	2	4		Project Manager / Site Engineer
Unauthorised access to site	Personal injury, small claims	Members of the public	3	4	12	- Excavations to have exclusion zones established with barriers or fencing. - Check fencing and barriers on a regular basis. - Ensure fencing is not left open and replace damaged panels when identified	2	4	8		Project Manager / Site Engineer
Heavy winds	Injury	Operatives / public	3	3	9	- Sandbags shall be used to anchor down the road signs/barriers. - In severe wind conditions, work should stop and report to the Supervisor	2	2	4		Project Manager / Site Engineer/ Operatives
Poor lighting conditions	Injury	Operatives / members of the public	3	3	9	- Tower lights - Cone flashing lamps - Compound lighting	1	3	3		Project Manager / Site Engineer/ Operatives
Noise	Hearing damage	Operatives / members of the public	3	2	6	- Use hearing protection where necessary. - Produce noise exclusion zones if necessary. - Those working locally may also need hearing protection	1	3	1		Project Manager / Site Engineer/ Operatives
COSHH	Injury/long term health issues/death	Operatives	3	4	12	- Substances under COSHH to be stored as per assessment. - COSHH assessment to be in place for all hazardous substances. - Operatives to be briefed on assessment and understand correct methods of use, storage and how to act when there is an incident	1	3	3		Project Manager / Site Engineer/ Operatives

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Refuelling	Hazardous substance spills Contact with substances	Operatives Environment	3	3	9	- Refuelling by competent person - No hot works to take place locally. - Double bunded lockable bowser for storage - Spill kits and plant nappies to be used - Refer to COSHH assessment and wear appropriate PPE - Follow COSHH assessment instructions - Refuel 20m away from any water course entry points	1	3	3		Project Manager / Site Engineer / Operatives
Confined Space Entry	Fall from height Asphyxiation Drowning Explosion Injured person inaccessible	Operatives	3	5	15	- Eliminate the need to work in confined spaces where practical - Confined space entry permit required - Fence off entry point - Follow methodology steps in the Drainage Method Statement - Top and entry man must be confined space trained - All equipment used must have in date certification and be checked prior to use - In the event of an emergency, entry man is to don escape kit and exit the chamber immediately - Bethell Management are to be consulted before any work recommences	1	5	5		Project Manager / Site Engineer / Operatives
Flood Event	Drowning Flooding of local area Flooding of plant	Operatives	3	5	15	- All operatives within the river MUST wear a lifejacket at all times. - Before each shift, the weather forecast is to be checked and throughout the day. - In the event of a flood all plant and personnel are to exit the river immediately.	1	5	5		Project Manager / Site Engineer / Operatives

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Working in water	Drowning	Operatives	3	5	15	- No lone working - Lifejackets to be worn by all operatives involved before entering the river. - Enter the river via temporary works approved scaffold access system. The scaffold must be signed off before access is allowed.	1	5	5		Project Manager / Site Engineer/ Operatives
Discharge of sump water into water course	Destruction of aquatic life	Aquatic Life	3	5	15	- A water quality risk assessment will be carried out as part of the discharge license application. - All water extracted via the well points will pass through settlement tanks and will be regularly tested in accordance with the discharge permit to ensure no unacceptable levels of contaminants or silt are discharged into the river. - As an additional check the water turbidity will be monitored on a daily basis. This will comprise of upstream and downstream turbidity readings to gauge the impact of the discharge. The works will be stopped and assessed if the baseline turbidity (from upstream readings) is exceeded by more than 50FTU.	1	5	5		Project Manager / Site Engineer/ Operatives
Pollution of water course during works	Spilt oil from plant enters the watercourse	Aquatic Life	3	5	15	- Refuelling to take place in designated area more than 10m away from the river. Designated refuelling plant to be located on Riverstone Road near the bell mouth installation. - Spill kits to be on the machine. - Call EA hotline to report any pollution incidents.	1	5	5		Project Manager / Site Engineer/ Operatives
Wildlife	Disturbing wildlife & their habitats	Wildlife	3	5	15	Fish rescue will be undertaken once pumps activated. ECoW to check for protected species (otters/birds) prior to commencement. Undertaken on previous phase of works. N/A for this activity.	1	5	5		Project Manager / Site Engineer/ Operatives

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Environmental Hazards	Contracting Leptospirosis (Weil's Disease)	Workforce Involved & Site Visitors	3	5	15	- Disposal of all food waste and containers into the correct bin with a lid and covered skip - Use hand wash sanitizer before eating, drinking, and smoking - Keep cuts and scratches covered with waterproof plasters - Cuts must be treated with antiseptic wipes and sterile dressing - Report flu like symptoms to your doctor immediately	1	5	5		Project Manager / Site Engineer/ Operatives
Sharps	Risk of contracting infection through contact with sharps	All persons on site	3	5	15	- Finds of sharps will be reported to the BCL site supervisor and removal will be priority before activities start/continue. - All sharps will be removed with appropriate equipment that allow hands free removal. - Designated sharps bins are on site and maintained. - All sharps' bags and bins will be removed to the site compound at the end of each shift and will be removed from site when necessary. - Appropriate PPE will be worn for removal of sharps. Puncture proof gloves CUT5 minimum. - CUT5 gloves will be the minimum standard glove for all personnel on site regardless of activity.	1	5	5		Project Manager / Site Engineer/ Operatives

	SITE SPECIFIC RISK ASSESSMENT					LIKELIHOOD (L) 5. Almost Certain 4. Likely 3. Possible 2. Unlikely 1. Remote		SEVERITY (S) 5. Very High (death / permanent incapacity) 4. High (major injury / severe incapacity) (injury / 3 days off) 3. Moderate 2. Slight (minor injury / immediate first aid) 1. Negligible (no or trivial injury or illness)		Risk Assessment Ref.: SSRA / 002	
	Contract No.: UU6161									Assessment Date: 22/10/24	
	Contract Title: Bury Aesthetic Screens									Issue Status: Rev 3	
	Scope / Description / Location of Works:									Assessed by: D Costello	
	Outfall, Pipework and manhole installation									Approved by: A Owen	
					Risk Factor (RF) = Likelihood x Severity				Page: 13 of 13		

Hazard Identified	Risk / Effects / Consequences before Controls	Persons at Risk	DEGREE OF RISK (uncontrolled)			Control Measures / Minimise Risk by	REMAINING RISK (with controls)			Further Action Required (if RF = 12 or more)	Responsibility for Control
			L	S	RF		L	S	RF		
			1-5	1-5	1-25		1-5	1-5	1-25		
Placing and Compacting Concrete	Traffic accident Concrete burns. Concrete splashes to eyes. Contamination of water HAVS	Site personnel	3	4	12	- All persons to be briefed as to concrete finishing requirements. - All traffic movements will be under the control of a nominated traffic marshal. Concrete wagons will be guided to the required locations ensuring constant communication is kept between the banksman and the driver. - Ensure all operatives have received a COSHH assessment for concrete. Ensure the correct PPE is used and is fit for purpose. - Do not drop the concrete from a height ensure it is placed using the excavator bucket or concrete skip. If concrete comes into contact with skin, ensure it is washed off immediately using warm soapy water. - Concrete will not be dropped from height. The correct PPE provided will be used i.e. safety glasses/goggles. If concrete comes into contact with eyes get to the nearest eye wash station immediately. First aider to assist. - Take care not to allow any seepage from excavator bucket to enter the water channel. - All concrete wagons drivers to be briefed on washout procedure prior to discharging. - All practicable methods will be used to minimise the risk of cement entering the watercourse – i.e. use of Visqueen to prevent seepage from the pour into the water. If there is any risk of contamination occurring during concreting then the works will be halted, and cause investigated and removed before re-commencing. - HAVs whilst using vibrating poker will be assessed by the foreman and recorded in each operative's HAVs Log Book.	1	4	4		Project Manager / Site Engineer/ Operatives