

CLEHONGER PLANT HIRE LTD

Install Head-Wall at Spillway point of 150mm Storm Drain Pipe into River Taff- St Cuthberts Development, Grangetown, Cardiff.

RISK ASSESSMENT

(C) CONSEQUENCE

(F) FREQUENCY

(RR)

ACTIVITY:

RISK RATING

1. Negligible/No effect
2. Minor Injuries
3. Major Injuries
4. Fatalities

1. Negligible
2. Unlikely
3. Likely
4. Probable

- 1 – 4
- 5 – 8
- 9 – 12
- 13 – 16

- Trivial
- Acceptable
- Substantial
- Intolerable

} **WORK MUST**
 } **NOT START**

HAZARD	CAUSE/RISK	EFFECT	Before Control			CONTROL	After Control		
			(C)	(F)	(RR)		(C)	(F)	(RR)

<p>1) ACCESS & EGRESS Transport Safety- Public Safety</p>	<p>Travelling to site. Travelling off site to bank of River Taff. Removal of excavated material. Deliveries of goods and resources into site.</p>	<p>Traffic congestion. Obstructing or blocking of access and egress roads. Closure of river access during execution of construction works. Road traffic accidents. Injury to persons.</p>	4	3	12	<p>Neighbours will receive a letter drop from the Principal Contractor outlining the scope of works and seeking their active cooperation in regard to movement of their vehicles. Closure and access procedures, as appropriate, will be agreed with appropriate authorities regarding access and egress to the river bank (and footpath closure on the Clarence Embankment). A dump truck will be utilised to remove the surplus excavated material etc.. All tyres of vehicles will be cleaned of all mud (Foreign Object Deposit) prior to leaving site. All vehicle and plant movements will be supervised by banks-men wearing high visibility jackets. Lorries travelling on public roads will give-way to local residents such as to cause minimal disruption. Protect the public on adjacent footpaths or roads. Ensure plant and equipment that's being unloaded or parked-up is on site within designated areas.</p>	4	2	8
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<p>2) BACTERIAL INFECTION ie. Leptospirosis, Hepatitis A & B, Typhoid, Ecoli. Clampra Bactar and Salmonella. Weils Disease.</p>	<p>Bad personal hygiene, touching face/ mouth with dirty hands. Infection through open wounds. Skin contact with cement or wet concrete.</p>	<p>Serious illness and possible death</p>	4	3	12	<p>Prior to starting work ensure all cuts and abrasions are properly dressed. Apply barrier type cream to protect the skin. Wash hands thoroughly after exit from all working areas (both equipment and body), do not touch face, do not smoke, wear protective clothing e.g. gloves, overalls face masks etc. Change gloves at regular intervals, removing contaminated clothing and disregard or wash before re-use. Always treat injuries no matter how small. ALWAYS PRACTICE GOOD PERSONAL HYGEINE. Never let wet concrete, cement or mortar have direct contact with hands, arms feet or legs.</p>	3	2	6
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3) DROWNING	Person falling into the River Taff or water filled excavations or pits.	Rivers and flowing water courses are hazardous to any person that might fall into same resulting in drowning incidents. Similarly water filled pits and excavations pose hazards wherein persons or children can drown.	4	3	12	Tracked vehicles will be used to undertake excavations on or near the river bank, working from pre-formed level bases (to avoid slip of the plant into the river Taff. Barriers will be erected around excavations, or pits, to keep the workforce, or others, clear of the potential hazard. If working close to deep water where it is not practicable to erect barriers operatives will wear harnesses with the lanyards of same connected to a rigid fixing (static plant or safety post). No lone working will permitted in the vicinity of the River Taff, or deep excavations or pits.	4	1	4

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4) ENVIRONMENTAL POLLUTION	Spillage of diesel fuel or petroleum during operation of plant, vehicles or equipment or refuelling of same	Site contamination. Contamination of water supplies. Contamination of River Taff. Fire/Explosion.	4	3	12	Careful management of refuelling on site from double banded fuel bowser, will involve measures in place for cleaning up of any spillage. Plant used near the River Taff will be pre-checked to ensure that there exists no discharge of oil or diesel from any parts or hydraulic systems. In the event of a diesel or oil spill on site no matter how minor, site personnel must firstly find the source of the spill and Stop it, then Contain it by using the equipment available in the Spill Response Kit. The Site's no smoking rule is to be enforced.	4	1	4

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<p>5) General public and local residents, and children.</p>	<p>Members of the public and children, coming into contact with plant and vehicles when construction works are ongoing. General public (especially children) gaining access to the construction site after-hours.. Working in close proximity to the boundary or on river bank.</p>	<p>Possible death or injury due to falling, tripping and other accidents due to the ignorance or unawareness of the dangers on or about construction sites.</p>	<p>4</p>	<p>4</p>	<p>16</p>	<p>Ensure members of the public are protected from civil works by totally enclosing the work area with Heras Fencing (by principal Contractor). Ensure unrestricted access for pedestrians on adjacent roads and footpaths (especially young mothers with push chairs, children, the old and infirm). A banks-man will be tasked to direct (traffic when vehicles are reversing into site or exiting into work areas off site). Keep highway clean and clear of obstructions. Employ road brush as required in the event that the road surface becomes muddied. In liaison with the Principal Contractor assist with measures to ensure that access cannot be gained into any “construction area” during both day and night (e.g Lock off gates at end of shifts). Left-open pits/excavations will be covered by robust road plates at end of shifts.</p>	<p>4</p>	<p>1</p>	<p>4</p>
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6) MANUAL HANDLING	Attempting to lift awkward / heavy loads : i.e. loads in excess of 25Kg.	Pulled / strained muscles, serious back injury, resulting in loss time off work – perhaps long term disability.	4	3	12	Where possible use mechanical means for lifting , even if it means waiting for someone to finish using plant or an appliance. Use correct lifting techniques making lifts by bending knees with back straight. Use the power of your legs to straighten up. Avoid twisting, bending your back, stooping, reaching upwards and carrying a heavy object long distances. Use safe techniques to manoeuvre heavy materials into position (i.e. two man lifting irons, sack trucks etc).	3	2	6
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<p>7) Moving/Lifting of loads with excavators: Note: The pre-cast Head-wall weighs c. 150 Kg.</p>	<p>Failure of plant. Failure of lifting equipment. Insecure loads. Inexperienced signallers. Slip of lifting appliance.</p>	<p>Load falling resulting in serious injuries or possible fatality, Damage to plant / property.</p>	4	3	12	<p>Set up exclusion zones to prevent unauthorised access to the area where the load is to be lifted, or appoint a banks-man to prevent others who are not involved with “the lift” from gaining access into a restricted “zone”.</p> <p>Use 3 tonne tracked excavator to transport the Head-Wall pre-cast unit (of weight 150Kg) from site to the river bank. Lifting of the Head-wall will be by the use of chains attached to lifting hooks to three cast-in M12 Lifting Sockets. Chains will be adjusted that the Head-wall is clear of the ground by at least 900mm prior to being transported along a pre-cleared and levelled route to the clearly defined river bank location. The pre-cast unit will be lowered by the tracked machine on to a preformed semi dry concrete base (minimum 100 thick at the correct invert level for the 150mm storm discharge pipe). Only approved certified lifting appliance and equipment are to be used with load attached by competent slinger.</p>	4	2	8
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8) Noise	Emissions of noise from plant and equipment	Excessive noise levels (above 85dB) can cause hearing difficulties or damage to hearing. Noise adversely affecting neighbours.	3	3	9	Plant will be attenuated to levels below 85dB and not over-revved. The choice of equipment will take noise emission into account. The site location, {with children near-by in playgrounds, close proximity to railway lines, and close to a factory} has a relatively high background noise factor, and site activities will be planned as not to exceed such background noises. If, however, complaints are received about the noise emission from CPH activities noise attenuation improvements will be attempted.	2	3	6
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9) Plant movements around work area / site	Personnel getting crushed or run over by plant.	Crushing injuries if plant makes contact with or entraps the body of any person - resulting in possible death. Collision with other plant. Collision with structures. Plant inadvertently rolling / driving into excavations, structures or river.	4	3	12	Set an exclusion zone in the vicinity of working plant. Signaller/banks-man to be in attendance where there is a risk of collision or entrapment. Sound audible alarm and use flashing beacons when manoeuvring around site and work areas. Install stop blocks or timber baulks alongside excavations and structures to prevent plant from hitting / rolling into them. Excavate flat work platforms on any sloping surfaces to facilitate plant working off a level base. Design the work methodology to AVOID persons entering excavations or void between working plant and a wall or face of excavation.	4	2	8
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