



WORKPLACE/TASK BASED RISK ASSESSMENT FOR USING A CEMENT MIXER

LOCATION: ANY CANAL/RIVERSIDE LOCATION

NOTES

1. This Risk Assessment is specifically for the use of a Mixer (Petrol/Diesel or Electric) on a KESCRG or WRG controlled site for the purposes of canal restoration.
2. This Risk Assessment should be included in the documentation taken to site and retained by the site leader.
3. There must be a review of this Risk Assessment following any site feedback or every 2 years, whichever comes first. Revision and date are shown in the header.

MANDATORY PPE

1. Hard Hat, Safety Boots and fastened High Viz Jacket (as with any site work)
2. Dust Mask
3. Safety Eyewear
4. Gloves
5. Eye Wash available on site

Risk Scoring Matrix

Likelihood	Meaning	Severity	Meaning
1	Possible	1	Minor cut or bruise/injury
2	More than possible	2	Cut/Injury, needs First Aid
3	Fair chance	3	Injury needing First Aid
4	Likely	4	Broken Limb/ Serious injury
5	Certain	5	Severe injury/Death



HAZARDS FROM MIXER ITSELF

Ref no	HAZARD	LIK	SEV	RAT	EXISTING CONTROL MEASURES	ADDITIONAL CONTROL MEASURES REQUIRED	LIK	SEV	RAT
1.	Pinch points between mixer and drum, limb injury	3	4	12	1. Awareness. Covered in SWI and on-site brief.	1. None	1	4	4
2.	Hot parts on mixer exhaust	2	3	6	1. Awareness. Covered in SWI and on-site brief.	1. None	1	3	3
3.	Mixer runaway, potential crushed foot or limb injury	2	4	8	1. Put wheels under to minimise movement. Covered in SWI and on-site brief. 2. Mixer sited on level ground.	1. None 2. None. This will also reduce fatigue when loading the mixer.	1	3	3
4.	Trip Hazard from cables or towbar	3	3	9	1. Put wheels under, see above. 2. Position cables correctly. Covered in SWI and on-site brief	1. None 2. None 3. Site Leader to check on site	1	2	2
5	Electric shock from mixer power cable/switches.	2	5	10	1. 110V machinery only to be used. 2. CEEFORM plug/sockets fitted.	1. 2. Note. Use of 110V mixer generally covered in site RA, by local group.	1	3	3
6.	Dermatitis from diesel and lube oil.	2	2	4	1. General hygiene 2. Gloves as part of PPE 3. Minimise spillage by using funnels (in Kit Trailer)	1. None 2. None 3. None	1	2	2



CONTROL MEASURES. HAZARDS FROM MIXER ITSELF

Ref no	ADDITIONAL CONTROL MEASURE REQUIRED	BY WHOM	BY WHEN	STATUS (COMPLETED YES/NO)
1.	1. None			
2	1. None			
3	1. None 2. Pre-work briefing	Site Leader	Before work starts	
4	1. None 2. None 3. Site Leader to check before work starts.	Site Leader	Before work starts	
5	1. None 2. None			
6	1. None 2. None 3. None			



HAZARDS FROM SUBSTANCES USED

Ref no	HAZARD	LIK	SEV	RAT	EXISTING CONTROL MEASURES	ADDITIONAL CONTROL MEASURES REQUIRED	LIK	SEV	RAT
1.	Burns from Lime/cement	3	3	9	1. Covered in on-site brief. 2. PPE includes gloves, and safety eyewear.	1. None 2. None	2	2	4
2.	Dermatitis from lime/cement	2	2	4	1. Basic hygiene. 2. PPE includes gloves. 3. Wipes available in site kit.	1. None 2. None 3. None	1	2	2
3.	Respiratory irritation from lime/cement dust	2	3	6	1. PPE includes mask. 2. SWI states to add lime/cement first to minimise dust.	1. None 2. None	1	3	3
4.	Dermatitis from petrol/diesel/lube oil	2	2	4	1. Trailer kit includes funnel and gloves. 2. Fluids kept in suitable easy-pour containers.	1. None 2. None	1	2	2
5	Danger of fire from petrol/ diesel/lube oil	3	4	12	1. SWI states to store fuel/lube away from mixer. 2. SWI states to fill when mixer has cooled down.	1. None 2. None	1	4	4
6.	Leptospirosis from Canal environment	3	5	15	1. Not specific to mixer operation but covered in general site safety briefing.	1. None Note. Leptospirosis is covered on KESCRG website as well.	1	5	5



CONTROL MEASURES HAZARDS FROM SUBSTANCES USED

Ref no	ADDITIONAL CONTROL MEASURE REQUIRED	BY WHOM	BY WHEN	STATUS (COMPLETED YES/NO)
1.	1. None			
2	1. None 2. None 3. None			
3	1. None 2. None			
4	1. None 2. none			
5	1. None 2. None			
6	1. None			



HAZARDS FROM MANUAL HANDLING

Ref no	HAZARD	LIK	SEV	RAT	EXISTING CONTROL MEASURES	ADDITIONAL CONTROL MEASURES REQUIRED	LIK	SEV	RAT
1.	Rotating drum, leading to serious injuries if shovel catches on drum or deflector inside drum.	3	4	12	1. SWI and on-site brief covers not placing shovel in drum. 2. SWI and on-site brief covers correct position to avoid need to place shovel in drum. 3. PPE includes gloves which can pull off.	1. None 2. None	1	3	3
2.	Potential muscular-skeletal injury from twisting and lifting material.	3	4	12	1. SWI covers positioning mixer to minimise twist and lift actions.	1. None	1	4	4
3.	Slips and trips from carrying shovelfuls too far.	2	3	6	1. Correct positioning, see above	1. None	1	3	3
4.	Fatigue-induced injury, particularly slips and trips or muscular-skeletal	3	4	12	1. KESCRG are volunteers, our ethos is to enjoy. 2. Site Leader is responsible for well-being of site persons.	1. None 2. None	2	3	6
5	Blisters from shovel	4	1	4	1. PPE includes gloves. 2. Site FAK includes plasters and bandages.	1. None 2. None	2	1	2
6.	Slippage of handwheel/	3	3	9	1. SWI covers “thumbs out	1. None	1	3	3



	error in using latch mechanism				of way” and the correct use of latch/handwheel.				
7.	Muscular-skeletal injury from assembling the frame for electric mixer.	2	4	8	1. Site Leaders are aware this is at least 2 man lift. 2. SWI specifically covers frame assembly.	1. None 2. None	1	3	3



CONTROL MEASURES HAZARDS FROM MANUAL HANDLING

Ref no	ADDITIONAL CONTROL MEASURE REQUIRED	BY WHOM	BY WHEN	STATUS (COMPLETED YES/NO)
1.	1. None 2. None			
2	1. None			
3	1. None			
4	1. None 2. None			
5	1. None 2. None			
6	1. None			
7	1. None 2. None			
8				