



## RISK ASSESSMENT RW2019 River Waveney

<b>Canal:</b> River Waveney	<b>Site address:</b> Geldeston (Shipmeadow) Lock, Geldeston, NR34 0HW	<i>All work to be carried out with accordance with HSE Guidance note HSG150</i>
<b>Work Location:</b> Geldeston Lock	<b>Operation:</b> Dismantle and rebuild part of lock chamber wall	<b>RA Sheet No:</b> 1 of
		<b>Date Task Starts:</b> 19 May 2019

List of Sections		See Also:	Final Risk Level	
1	Travelling to site	WRG Volunteers Health and Safety Guide	M	L
2	Arrival on site	WRG Toolbox Talks	L	
3	Set up gazebo		L	
4	Burco	WRG COSHH Assessment 005	L	
5	Unloading the trailer		L	
6	Setting up the mixer		L	
7	Working near water	Lepotspirosis (Weil's Disease) Notice and card CRT Water Safety film	M	
8	Working at height	WRG Guidance Note	L	
9	Cutting out damaged brick. Cleaning materials for re-use.		M	L
10	Excavation behind walls		L	
11	Mixing mortar	WRG COSHH Assessments 003, 004, 006	M	L
12	Laying bricks	WRG COSHH Assessments 010, 012, 020	M	L
13	Filling behind lock wall		L	
14	Compacting fill material		L	
15	Refuelling small tools and generator	WRG COSHH Assessment 01	L	

**Likelihood (L):**

1	EU	Extremely Unlikely
2	U	Unlikely
3	L	Likely
4	VL	Very Likely
5	AC	Almost Certain

**Severity (S):**

1	FAC	First Aid Required
2	LTI	Lost time injury
3	>3d	Time off work more than 3 days
4	MI	Major Injury
5	F	Fatal

**Risk Level = LxS**

**Risk Level** High / Medium / Low

AC	5	10	15	20	25
VL	4	8	12	16	20
L	3	6	9	12	15
UL	2	4	6	8	10
EU	1	2	3	4	5
	FAC	LTI	>3D	MI	F

No.	TASK	HAZARD	WHO IS EXPOSED AND HOW	RISK LEVEL				CONTROL MEASURES	NEW RISK LEVEL				FURTHER ACTION
				L	S	R	RL		L	S	R	RL	
1.1	Travelling to site	Motor vehicles	Volunteers. Breakdown, collision with other vehicles	2	3	6	M	Properly maintained vehicle. Carry out vehicle checks before driving. Arrange breakdown cover insurance	1	3	3	L	
1.2		Weather	Volunteers. Vehicle collision, loss of control	3	5	15	H	Check weather conditions before travelling. Clear screens to ensure good visibility. Check traffic reports on the radio. Ensure lights are in full working order in case of poor visibility	1	5	5	M	Monitor weather conditions, road conditions and adjust driving to suit. Monitor traffic reports.
1.3		Poor light	Volunteers. Vehicle collision, loss of control.	2	5	10	H	Check vehicle before driving make sure lights are working and properly adjusted. Carry spare bulbs. Adjust driving to suit light conditions. Plan the journey to travel in daylight.	1	5	5	M	Monitor light conditions.
1.4		Volunteers	Driver. Distraction while driving leading to loss of control.	3	5	15	H	Ensure volunteers use seat belts and don't move about vehicle during travel. Ensure volunteers refrain from attracting driver's attention. Ensure volunteers do not participate in rowdy behaviour.	1	5	5	M	
2.1	Arrival on site	Weather	Volunteers, visitors. Effects of	4	1	4	M	Wear appropriate clothing to suit weather conditions. Use sunscreen on exposed skin on	1	1	1	L	Monitor weather conditions during the work day

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				L	S	R	RL		L	S	R	RL	
			cold, heat, precipitation.					hot sunny days. Take hot / cold drinks and food as appropriate. Establish a shelter for people.					
2.2		Uneven ground	Volunteers, visitors, public. Slips, trips and falls.	4	2	8	M	Avoid vegetation and puddles that may hide changes in ground conditions. Wear appropriate footwear. Establish pedestrian routes. Ensure public routes are not disturbed.	1	2	2	L	
2.3		Public	Volunteers. Aggressive behaviour	2	4	8	M	Park site vehicles off public routes. Do not congregate on public routes. When dealing with aggression from members of the public, avoid confrontation.	1	4	4	L	
2.4		Animals	Volunteers. Attack, stings and bites.	3	3	9	M	Don't disturb insect nests. Wear long clothing. Do not approach dogs off lead.	1	3	3	L	
2.5		Contaminated material	Volunteers. Skin, eye irritation. Puncture wounds from needles, glass. Disease from faeces.	3	3	9	M	Avoid contact with unknown materials. Wear gloves. Avoid contact with face and eyes with dirty hands. Do not handle needles or glass. Wash hands before eating, drinking or smoking. Cover open wounds.	1	3	3	L	
2.6		Hemlock	Volunteers. Skin irritation	3	3	9	M	Tape off area of Hemlock Avoid contact with plants	1	3	3	L	
3.1	Set up Gazebo	Gazebo	Volunteers. Entrapment injury.	3	1	3	L	Provide instruction on setting up Gazebo. Keep hands and fingers away from items that may trap them.	1	1	1	L	
3.2		Gazebo	Volunteers. Musculo-skeletal strains and sprains due to manual handling.	3	2	6	M	Use 4 volunteers to set up gazebo. Co-ordinate lifting. Only use volunteers capable of lifting the load.	1	2	2	L	
4.1	Set up Burco	Burco	Volunteers. Musculo-skeletal	3	2	6	M	Use 2 volunteers to set up Burco. Provide instruction for setting up Burco.	1	2	2	L	

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				L	S	R V	RL		L	S	R V	RL	
			strains and sprains due to manual handling.					Locate Burco on level ground. Fill Burco after setting up.					
4.2	Using the Burco	Hot Water and steam	Volunteers. Burns and scalds	3	1	3	L	Instruct volunteers in correct use of Burco. Avoid handling Burco during water heating. Take care when filling to avoid splashes of hot water. Avoid removing lid when water is boiling.	1	1	1	L	Monitor water level in Burco.
5.1	Unloading trailer	Tools and equipment	Volunteers. Manual handling injury.	3	2	6	M	Only use volunteers capable of lifting the load. Avoid stretching and twisting when moving equipment.	1	2	2	L	
5.2		Tools and equipment	Volunteers. Entrapment, impact injury	3	2	6	M	Unload the trailer in order. Only remove straps from the item being unloaded to avoid other items accidentally falling. Wear gloves and appropriate footwear.	1	2	2	L	
6.1	Setting up mixer	Mixer	Volunteers. Manual handling injury.	3	2	6	M	Only use volunteers capable of lifting the load. Avoid stretching and twisting when positioning the mixer. Place the mixer close to the materials.	1	2	2	L	
6.2		Mixer	Volunteers. Entrapment, impact injury	3	2	6	M	Set the mixer up on a level surface. Keep hands and fingers away from where they can be trapped.	1	2	2	L	
7.1	Work site near water	Water	Volunteers. Drowning.	3	5	15	H	Take care when working close to water edges to avoid overbalancing. Make sure the boat and pontoon are secure before boarding. Secure access ladder. Face water edges. No lone working. Ensure throw lines or lifebuoys are available.	1	5	5	M	Monitor water conditions if the water level is likely to change.
7.2		Water	Volunteers. Weil's Disease	3	5	15	H	Awareness of Weil's Disease and carry warning card. Avoid contact with standing water. Cover cuts and open wounds.	1	5	5	M	

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				L	S	R	RL		L	S	R	RL	
								Avoid touching mouth, nose or eyes. Wash hands before eating, drinking or smoking.					
7.3		Barge and pontoon	Volunteers. Slips, trips and falls during boarding	3	3	9	M	Secure barge and pontoon before boarding Secure access ladder Monitor tide level and adjust mooring lines	1	3	3	L	
8.1	Working at height	Falling objects	Volunteers. Impact injuries.	3	2	6	M	Avoid working beneath areas where work is being carried out. Wear head protection when appropriate.	1	2	2	L	Monitor any work being carried out at height and avoid walking beneath it.
9.1	Cutting out damaged brick. Cleaning materials for re-use.	Hand tools	Volunteers. Cuts, grazes, impact injury.	3	2	6	M	Use the right tool for the job. Provide training in how to use the tools wear gloves	1	2	2	L	
9.2		Hand tools	Volunteers. Manual handling injury	3	2	6	M	Use the right tool for the job. Provide training in how to use the tools Take breaks to avoid fatigue	1	2	2	L	Monitor volunteers to make sure breaks are taken
9.3		Flying debris	Volunteers, Impact injury	4	2	8	M	Work away from yourself Wear gloves and safety goggles	1	2	2	L	
9.4		Dust	Volunteers, public. Respiratory problems, eye irritation.	3	3	9	M	Dampen joints if dust is a problem Provide screens to public areas Stop work in windy conditions if dust is a problem Wear a dust mask	1	3	3	L	Monitor dust production and wind conditions
9.5		Brick	Volunteers. Impact injury from falling materials	3	3	9	M	Remove loose material carefully and place on the ground Wear safety footwear	1	3	3	L	
9.5		Brick	Volunteers. Manual handling injury	2	3	6	M	Do not lift material that is too heavy Get help if material is too heavy Avoid twisting or over-reaching	1	3	3	L	
9.7		Structural collapse	Volunteers, public. Impact injury from collapsing structure, falls and entrapment	3	5	15	H	Seek expert advice before starting repairs Work from the top down Do not leave unstable work unsupported Do not dismantle too much material	1	5	5	M	Monitor stability of structure and seek expert advice if unsure about stability

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				L	S	R	V		RL	L	S	R	
9.8		Rubble	Volunteers, public. Slips trips and falls	3	3	9	M	Stockpile material away from work and access areas Avoid walking over stockpiles Clear material to a designated storage area	1	3	3	L	Monitor production of rubble and keep work area clear.
9.9		Stockpiled material	Volunteers, public. Impact injury from collapsing stockpiles, falls and entrapment	3	4	12	H	Site stockpile away from public areas. Ensure the ground is level and firm enough to support the load Use pallets to store materials off the ground Don't built the stockpiles too high Make sure the stockpiles are built evenly and the stockpile is stable Secure stockpile by wrapping materials with cling film or similar means	1	4	4	M	Monitor the size and position of stockpiles.
10.1	Excavation behind wall	Excavated material	Volunteers. Manual handling injury	3	3	9	M	Avoid excessive lifting and twisting movements. Limit time or activity Take regular breaks to avoid overexposure	1	3	3	L	Monitor volunteers to make sure they take enough breaks
10.2		Stockpiles of excavated material	Volunteers. Slips trips and falls	3	3	9	M	Avoid walking over stockpiled material Stock pile material away from access routes	1	3	3	L	Monitor the size and site of stockpiles
11.1	Mixing mortar	Cement / lime mortar.	Volunteers. Skin and eye irritation	4	3	12	H	Train volunteers how to mix materials. Provide COSHH assessment Wear eye protection, long sleeves and gloves. Do not stand in front of mixer drum when splashes are likely. Avoid contact with cement / lime	1	3	3	L	
11.2		Cement / Lime and sand dust	Volunteers, public. Respiratory problems	4	4	16	H	Site mixer in designated area away from other activities and public. Provide screens in windy conditions. Place materials in mixer drum in a controlled manner. Wear dust masks Provide training in use of dust masks	1	4	4	M	Monitor wind conditions
11.3		Wash water	Environment. Pollution	4	2	8	M	Collect wash water from mixer. Allow solids to settle before	1	2	2	L	

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				L	S	R	RL		L	S	R	RL	
								disposing of water					
11.4		Cement / sand. Emptying full mixer	Volunteers. Manual handling injury	3	3	9	M	Place materials close to mixer to reduce travel distance. Avoid excessive twisting and lifting. Take regular breaks to avoid fatigue. Training in correct use of mixer and control during emptying.	1	3	3	L	Monitor volunteers for signs of fatigue.
11.5		Mixer / spade	Volunteers. Impact and entrapment from spade catching inside the mixer drum	3	2	6	M	Training in correct use of mixer. Do not allow the spade to enter the mixer drum during operation.	1	2	2	L	
12.1	Laying bricks	Bricks	Volunteers. Manual handling injury	3	3	9	M	Provide manual handling training. Avoid twisting and bending excessively when laying bricks. Limit time spent brick laying. Take breaks to avoid fatigue.	1	3	3	L	Monitor volunteers for signs of fatigue.
12.2		Cement / lime mortar.	Volunteers. Skin and eye irritation	4	3	12	H	Train volunteers how to use materials. Provide COSHH assessment. Wear eye protection, long sleeves and gloves. Avoid skin contact with cement / lime mortar.	1	3	3	L	
12.3		Dust when cutting bricks	Volunteers, public. Respiratory problems	4	4	16	H	Cut bricks in designated area away from public areas. Provide screens in windy conditions. Wear dust masks. Provide training in use of dust masks.	1	4	4	M	Monitor weather conditions
13.1	Filling behind lock wall	Filling material	Volunteers. Crush injury from tipped material	2	2	4	M	Keep away from tipping material	1	2	2	L	
13.2		Uneven ground when material tipped	Volunteers. Slips trips and falls	3	2	6	M	Avoid walking over loose tipped material. Wear suitable footwear.	1	2	2	L	
13.3		Filling material	Volunteers. Manual handling	3	2	6	M	Use the right tool for the job. Limit time spent spreading material. Take breaks to avoid fatigue.	1	2	2	L	Monitor volunteers to make sure they take enough breaks.

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				L	S	R	RL		L	S	R	RL	
			injury during spreading										
13.4		Dust	Volunteers, public. Respiratory problems, eye irritation	3	3	9	M	Avoid tipping fill from height If dust is a problem spray water on stockpiles Consider setting up screen to protect public access routes	1	3	3	L	Monitor weather conditions and condition of fill material
14.1	Compacting fill material	Compacting rammer	Volunteers. Manual handling injury	3	3	9	M	Train volunteers in the use of the tool Limit time or activity Take regular breaks to avoid overexposure	1	3	3	L	Monitor volunteers to make sure they take enough breaks
15.1	Refuelling small tools / generator	Petrol	Volunteers. Skin irritation	2	2	4	M	Wear gloves when refuelling. Refer to COSHH assessment 01	1	2	2	L	
		Petrol	Environment. Pollution	3	3	9	M	Refuel in designated areas. Use funnels when refuelling Refuel over drip tray / nappy	1	3	3	L	

<b>CAN THE JOB PROCEED?</b> <i>(Tick one box)</i>	<input type="checkbox"/>	Safe using existing control measures	
	<input checked="" type="checkbox"/>	Safe using existing + additional control measures	
	<input type="checkbox"/>	Not safe to proceed	
<b>ARE THERE ANY LONG TERM CONTROLS?</b>			
<b>ASSESSED BY:</b>	Name: D Evans	Name (signed) D Evans	Date: 20 March 2019
<b>AUTHORISED BY:</b>	Name (Printed) M Bradley	Name (Signed) M Bradley	Date: 26 March 2019