



## Work Package Plan

**River Dee**  
**133/392**  
**ECN5 240m 270yds**  
**WPP01 – Scour Works**

**Start Date: 03/06/24**

**Finish Date: 14/06/24**

**Work Package Plan Number:**  
**WPP001: TBC**

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**CRE (Civils)**

(CRE Discipline *(as stated in the CPP)*)

**Accepted on behalf of Network Rail / Client:**

(Print Name)

(Signature)



Always be sure the required plans and permits are in place, before you start a job or go on or near the line.



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### Supporting guidance



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**1 Introduction**

**Remit**

23/24 Scour Repairs and Preventative Action. Place scour rocks at holes identified in 22/23 WI from AMCO survey (WI2016090) add suitable rock armour to Dn side Low Mileage banking where starting to slump. (CAPEX, Policy Target X)

**Authorising Start of Works**

Prior to works commencing Operatives must be briefed on the following.

- Full Site induction
- Whiteboard brief
- Task Briefing
- Any relevant Permits
- Site Specific Rules
- POWRA

The following tasks support this Work Package Plan:

Reference & Prepared by:	Task Briefing Sheet Title	Activity Start Date
WPP001 TB001	Traffic Management	03/06/24
WPP001 TB002	Site Mobilisation	03/06/24
WPP001 TB003	Access Ramp & Set Up Dry Working Area	04/06/24
WPP001 TB004	Scour Repairs	05/06/24

**TB001 – Traffic Management**

- Traffic management will be a full lane closure on the A945 Westbound carriageway on the southbound lane to allow for Bellmouth installation on 3<sup>rd</sup> – 14<sup>th</sup> June
- A 30mph speed limit will be imposed through the working area, installed and managed by our NHSS certified subcontractor, the system will be installed at 10:00 under the supervision of the AmcoGiffen site management team
- The system will be on full time to allow for materials to be stored
- TM to be installed as per the approved TM Drawing
- Once the 2way traffic lights have been installed on the southbound A92. AMCO’s engineer will mark the line and level of the Bellmouth access points
- Pedestrian path will also be shut over and pedestrians diverted around closure

**TB002 – Site Mobilisation/de-mobilisation**

- Amco Site Supervisor and all site personnel to meet at, 3 A945, Aberdeen AB11 7SL
- AMCO site supervisor to carry out a site induction, task briefing and Whiteboard Briefing. All operatives will sign to show they have understood. If they do not understand, they should speak to AMCO Supervisor immediately.
- The site engineer will mark out the extent of the land being used for the proposed site compound area and mark out within this area the position and location of the site welfare unit and stores from the site layout plan drawing.
- The proposed compound will be within the Lane Closure of the A945



- 1 no all in one 26Ft cabin, 1 1000L Diesel Bowser & 1 10Ft store will be set up as the compound within lane closure All machine and operator certs must be valid prior to unloading. Lifting plan must be in place, prior to any unloading. Exclusion zone will also be enforced.
- Hi-ab operators must use ladder to access lifting point's one at a time & ensure that 3 points of contact are maintained at all times. Harness must also be worn (when on top of units), which will be connected to the lifting hook. Permit to Work at Height will be issued.
- Section of Black Steel fence will be removed to allow for materials to be stored down at river bed level
- Safe walking route to be installed around site cabins. Due to the nature of existing yard, this will be segregated using pedestrian fencing barriers.
- Designated parking within lane closure will be provided
- All site signage will then be installed by AMCO site operative(s).
- A re-fuelling point will be established which will house a double bunded fuel bowser. As an extra precaution, the fuel bowser will remain locked out with refuelling and will be landed upon an appropriately sized plant nappy/drip tray.
- Areas for storage of materials and waste will be signposted as per the site layout drawing.
- All plant and materials to be secured at the end of each shift. Towable bowzers to be secured with tow locks.
- Main compound gate will be chained and padlocked at the end of each shift and CCTV system to be activated.
- Site demob will be carried out in reverse of mobilisation

**TB003 – Installation of Access Ramp & Creation of Dry Working Areas.**

- Marine Licence to be issued prior to AMCO Giffen entering watercourse.
- Permit to work within the watercourse to be issued prior to working in or near watercourse.
- All permit requirements to be adhered to for duration of the below activity.
- Prior to works commencing the Site Supervisor shall register with the SEPA floodline (0845 988 1188 / <http://www.floodlinescotland.org.uk/>)
- A water monitoring kit shall be obtained from the AMCO Environmental Department and a sample shall be taken and recorded (photographed) by the Site Supervisor
- Discussion with local fisheries to be undertaken prior to works commencing and any concerns they have addressed prior to commencing works.
- Amco will install temp ramp into the watercourse using compacted type 1 stone
- Dumper will be brought to location by Trained and Competent Banksman and offload Type 1 loads
- 14T excavator will level to gradient required and 120 Bomag Roller will compact Stone
- During this activity the Site Supervisor shall monitor and record the water quality for silts taking samples upstream and downstream of the work site (the upstream sample providing the baseline). If pollution is being caused then work will stop and the control measures reassessed.
- During all times of this activity, a designated trained and competent rescue team leader must be on standby on the adjacent embankment ready to carry out rescue procedures.
- As per approved site lift plan, 14T excavator will lift bundles of Steel A-Frames to upstream, Frames will need to be transported to the structure from the road
- Wearing all in one dry suits, Damming specialist contractor will enter watercourse and install steel A frame sections one by one as per dry working area sketch. 3 Northern piers will be blocked off to allow for Rock armour Installation.
- Local riverbed will be levelled of using 14T Excavators, extensive excavation is not permitted only a levelling off on areas which require this.



- Working on right hand abutment embankment Damming specialist contractor operatives will “stitch” together waterproof membrane sheets.
- The stitched sheets will be floated across to install area using aid of running water and operatives.
- Membrane is then secured to A Frame using small tools.
- This process is repeated until membrane and a frames are installed as per dry working area sketch.
- Dry Working Area will be created in two halves, 3 North piers first approx. 150 linear metres of dam to encompass piers 1-3 say 150 “A” frames and dam 1.5m high, then switched over to the 2 south piers 110m of dam 110 No “A” frames. Also need lane closure on Riverside drive and form ramp down in to the river.
- Small clean washed gravel bags will be placed at bottom of angle section of a frame to weigh down membrane allowing water to pass over membrane and act as self-weight.
- For trapped fish during install of porta-dam we will notify fisheries for availability to be on site or on standby if fish rescue is required on that day.
- Should any fish become stranded downstream, works will be suspended immediately and local fisheries called and fish rescue arranged.
- If no fish have been stranded within now dry working area, 6” pumps and 2” puddle pumps can be used to maintain dry working areas from any leaks.
- The above process will be repeated after the initial phase of scour works are complete, this will include the repositioning of the dam to allow for water to pass freely down the opposite side as per dry working area sketch.
- In the event of any overtopping of the dry working area, the local fisheries will be contracted to carry out a further fish rescue before pumps are turned on again.
- Upon completion of the main works, the above methods will be removed in opposite sequence with extra care taken to ensure no sediment is disturbed.

**TB004 – Scour Works**

- Water monitoring will be set up in the form of a competent Op checking tide times and monitoring water levels. If when the full tide is in the dry working area becomes full there will be a cut off working time before High tide issued to make sure no works or machinery are in the water during High tide
- Amco will fill scour holes around 1-3 first within dry working area before transferring over to piers 4 & 5 + South Embankment to complete works here
- 14T Excavator will be transferred to south embankment during low tide as there it can track on exposed rock with minimal silt pollution
- Joiner will fit shutters around piers to fill voids
- Concrete will be installed using mixer and 40N Concrete
- Vibrating poker will be utilised to spread concrete evenly throughout shutter and provide finish
- Once set shutters will be stripped and Rock armour will be installed around piers
- 14T Excavator will load 6T Dumper who transfer to affected area leaving a stock pile at pier
- Once enough Stone is in place 14T will track over to piers being controller be Trained and Competent banksman
- 14T Excavator will evenly spread Rock armour around piers
- Once complete dry working area will be transferred to the south side of the structure and process around piers will be repeated
- Rock Armour will be placed at the toe of the South Embankment and Erosion protection matting will be installed as per manufacturers specification



## 1.1 AMCO's delivery organisation

1.2.1 The following individuals from the AMCO's organisation will be involved during this work package:

Role	Name	Contact Number
<b>Managing Director</b>	Jim Double	<Redacted>
<b>Operations Director</b>	Alan Kane	<Redacted>
<b>Contracts Manager</b>	Phil Tait	<Redacted>
<b>Site Agent</b>	Dylan Tait	<Redacted>
<b>General Foreman</b>	Kevin Rourke	<Redacted>
<b>Trainee Engineer</b>	Jamie Scott	<Redacted>
<b>H&amp;S Manager</b>	Thomas McStay	<Redacted>
<b>ROES</b>	TBC	
<b>S&amp;A Advisor</b>	Mike McDermott	<Redacted>
<b>SSOW Planner</b>	Jamie Eskdale	<Redacted>
<b>Programme Planner</b>	Nisha McDonald	<Redacted>
<b>Buyer</b>	Procurement North	<Redacted>
<b>Supply chain Manager</b>	Mike Hardy	<Redacted>

1.2.2 The following companies, specialist contractors and/or individuals will be involved during this work package as defined in the CPP:

Name of company, specialist contractor or individual, etc.	Work activity / Specialism	Point of contact details	
		Name	Mobile
TBC	Dam Install		
Blackwood	Excavators	Paul McCormack	<Redacted>
TBC	TM		

## 1.2 Resources

1.3.1 The following resources will be used for this work package:

### Relevant Design Documents

A copy of any drawings and other design documentation relevant to this task can be found on Site.

### People

Number of People and their competence associated with this WPP		Task
Competence	No of People	TBS Ref
SMSTS, SSSTS, First Aid, PTS, CSCS, CPCS, TM	8	TB001
SMSTS, SSSTS, First Aid, PTS, CSCS, CPCS, TM, Excavator Op	8	TB002
SMSTS, SSSTS, First Aid, PTS, CSCS, CPCS, TM, Excavator Op, Dam Installer	12	TB003





SMSTS, SSSTS, First Aid, PTS, CSCS, CPCS, TM, Excavator Op	8	TB004

**Plant, Equipment and Tools**

Quantity of Plant, Equipment and Tools associated with this WPP		Task
Plant item	No	TBS Ref
6Inch Pumps	2	TB003
14T Excavator	1	All
Bomag Roller	1	All

**Materials**

Quantity of Materials		Task
Material	Quantity	TBS Ref
Rock armour	200T	TB001

**2 Working Together**

**2.1 At site communication**

2.1.1 All site personnel will be inducted upon first arrival at site. At which time they will be briefed accordingly on the site rules and communication methods expected and permitted. Mobile phone communication, will only be permitted when the staff member is in a safe position. On-call managers will be contacted at the end of each shift and as required after an incident has occurred. In the event of an Emergency and where mobile phone signal is poor, personnel will be permitted to seek out a location where they can make a call. All machinery will be controlled by Slinger/Banksman using det-coms. Radios will also be used for communicating between compound to worksite at bridge

**2.2 Contact details**

2.2.1 The following are the main contacts for this work package:

NR Project Team

Name	Role	Contact details	Tick to confirm number works and has been tested
Project Manager	Stephen Boslem	<Redacted>	x
Scheme Project Manager	Gemma Traill	<Redacted>	x





Regulators

Organisation	Contact details	Tick to confirm number works and has been tested
Emergency Services	Emergency – 112 / Non Emergency 101	x
British Transport Police	0800 405040	x
HSE	Fatalities and Major Injuries - 0845 3009923. Other - <a href="http://www.hse.gov.uk/riidior/report.htm">http://www.hse.gov.uk/riidior/report.htm</a>	x
ORR	020 7282 2000	x
EA/SEPA/NRW	0800 807060	x
Flood line	0345 9881188	x
Spill clean up	0800 592827	x

**2.3 Other parties involved with the package of work (interfaces details)**


2.3.1 The following working arrangements will apply with all parties / organisations that have been identified with this work package:

Interfacing Organisation	Interface Point for:	Point of Contact and contact details	Interface arrangements
Landowners	Site compound/mobilisation	Craig Thomson <Redacted>	Use of loud, noisy equipment and access to the land 24/7.
Centara	Utility Surveys	Office- 01924 220726	To be contacted by AMCO to provide utility survey info in advance of works.

**3 Hazard Management**

**3.1 Work involving particular risks**


3.1.1 The work in this package does not involve the following particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015:

Risk	When and where will the risk be present?	Permits Required	How will this risk be controlled?
Work which puts workers at risk of burial under earth falls, engulfment in swampland or falling from a height, where the risk is particularly aggravated by the nature of the work or processes		Permit to Dig Permit to WAH	Permit to dig to be carried out and issued prior to works commencing. All excavations to be supported with safe benching and excavation inspection checklists to be carried out daily. Full Service search of the field and structure to be carried out




<p>used or by the environment at the place of work or site.</p>		<p>prior to any works commencing. Slit trench to be carried out to structure 090/249 and any cables will be diverted before structure is demolished. No stockpiles to be left unsafe and stocked too high. Excavations to have safe access and egress installed, this must be maintained at all times. No one allowed within excavations unless safe access and egress as well as safe benching and embankments. Exclusion zones around excavations to be erected and maintained throughout works. Adequate signage erected. All staff well briefed on hazards and control measures with excavations.</p> <p>All working at height will be controlled by a Permit to work at height and flow chart justification. All works to be carried out with Fall Prevention Equipment in place. Exclusion zone to be set up, signed and maintained below all works at height including deliveries. Alloy tower to be installed by Trained and Competent Operative and check sheet to fill out every time one is used before anyone access; tower. Hi-ab Drivers are only allowed to stand on the wagon if there is edge protection installed.</p> <p>Banksman to control all plant movements and exclusion zones. Any access to the back of a flatbed van or HGV must only be completed once a safety rail system has been installed. Only authorised personnel involved in the works to enter the exclusion zone under the control of the banksman. Ensure equipment is certified and checked prior</p>
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			to each and every use. Exclusion zone to be identified, barriers and warning signs to be erected. Use proper access and egress at all times. Ensure equipment is fit for purpose before each use. AMCO trained and competent banksman to reverse stone wagons onto site and show exactly where stone is to be tipped, Only the driver of the wagons is allowed to undo latch for swing door.
Work which puts workers at risk from chemical or biological substances constituting a particular danger to the safety or health of workers or involving a legal requirement for health monitoring.		COSHH Assessments	MSDS and COSHH assessments to be communicated to workforce with all control measures detailed in the assessment adhered to. Water suppression to be used whilst cutting abutments to minimise dust. Exclusion zone around area will be set up so on lth person cutting the saw will be in the area. Suitable PPE / RPE as detailed in the COSHH assessment to be used whilst working with substances hazardous to health. Gloves to be worn should be rubber coated completely as appose to rubber palm coating only. Face masks of FFP3 variety should be worn. Face masks to be worn during working with dry dusty material operations. Gloves should be pvc with the ability to block liquids reaching skin.
Work with ionizing radiation requiring the designation of controlled or supervised areas under regulation 16 of the Ionising Radiations Regulations 1999(1).	N/A	N/A	N/A
Work near high voltage power lines.	N/A	N/A	N/A
Work exposing workers to the risk of drowning.	N/A	N/A	N/A
Work on wells, underground earthworks and tunnels.	N/A	N/A	N/A



Work carried out by divers having a system of air supply.	N/A	N/A	N/A
Work carried out by workers in caissons with a compressed air atmosphere.	N/A	N/A	N/A
Work involving the use of explosives.	N/A	N/A	N/A
Work involving the assembly or dismantling of heavy prefabricated components.		Lift Plan	<p>All lifting operations will be planned and risk assessed prior to commencing activity &amp; accompanied by a Lifting Operations Plan.</p> <p>No hand held mobile phone usage on site by drivers/ operatives is permitted as per the Site Rules.</p> <p>14T excavator will be used for lifting, operator to be trained and competent to perform the activity.</p> <p>Lifting appliance operator to be in possession of CSCS or CPCS training card.</p> <p>Weight, size, shape and centre of gravity of load known before carrying out the activity.</p> <p>All lifting equipment, chains, slings &amp; lifting hooks to be inspected before commencing the activity.</p> <p>Slinger/Signaller will use hand signals and speak to operator using det-coms throughout any lifts</p> <p>Pre inspection checks of lifting appliance before commencing the activity.</p> <p>Proximity hazards assessed before carrying out the activity.</p> <p>SWL of lifting appliance not to be exceeded.</p> <p>Weather conditions to be taken into consideration while transporting materials down the access ramps using excavator.</p>



### 3.2 Significant railway and construction risks

3.2.1 The following are the significant railway and construction safety and health risks that apply during this work package. A copy of the risk assessments associated with this WPP can be found in **Appendix 1**

What are the main risks (including health) during this Work Package?	When and where will the risk be present?	Permits Required	How will the risk be controlled
Lifting Operations	All	Lift plan and Permit to Work at height	All site personnel briefed during induction and whiteboard briefing. AP will plan all lifts using 14T excavator and all personnel involved will be briefed on works.
Working on Network Rail Managed Infrastructure	TB003 Scour Works		All personnel to be PTS trained or hold valid TVP prior to accessing on or near the line. COSS must supervise all works on or near the line. All personnel to wear Orange Hi-Viz clothing in accordance with AMCO and NR PPE policy. SSOW Plans must be in place for all works on or near the line. All works must be carried out failsafe from ground level and must not encroach above the top of the parapet or through to trackside.
Working in/adjacent to watercourse	Throughout all works associated with WPP002	Permit to Work in/Near Watercourse	Static plant to be sited minimum 10m from watercourse with suitable plant nappy to prevent oil/diesel spillage. Awareness of hazardous flora and fauna. Correct PPE. Adherence to Weill's Disease procedures. Prevent skin contact with water. Minimise working in river bed prior to dry working area being set up to prevent spread of silt. Rescue point to be set up at prior to the works commencing and to contain as a minimum Life Ring and Life Line. Operatives to be conversant with the Rescue Procedure and a "Dummy" rescue carried out. SEPA licence to be in place and conditions adhered to. Sediment control hierarchy to be in place prior to scour works.
Undermining of bridge foundations. Affecting stability of structure	TB003 Excavation for Scour Works		Abutment stability check to be carried out prior to excavation works. No undermining of abutments permitted. Care to be taken when removing material to ensure no undermining occurs. Structure to




			<p>be visually monitored for signs of movement.</p> <p>If any undermining or movement occurs then works must stop and designer informed.</p>
Excavations and breaking ground	TB002 and TB003 Creation of Dry Working Area and Scour Works		<p>Ensure excavations are carried out using a permit to dig. All areas for excavation to be CAT scanned and service drawings checked before work commences. All services to be marked on the ground, Positions of disconnections to be marked up. Check excavations at the beginning and end of each shift and record on appropriate workspace form. Backfill excavations as soon as possible. Fence off excavation if they have to be left unattended. Operatives excavating within the area of a known live service must wear flame retardant overalls, gauntlets and hard hat with visor. Ensure excavator does not slew over "open" river. Driver to be briefed at white board briefing to remind of this.</p>
Falling materials	All	<p>Permit to Work at Height to be issued, harness to be worn, 3 points of contact at all times, edge protection to be used on delivery wagons.</p>	<p>All site personnel briefed during induction and whiteboard briefing. Alloy Tower to be installed as per check sheet with toe boards to minimise risk of falling materials. Exclusion zone set up around cutting exercise and alloy tower throughout works. Bridge to visually monitored by Site Engineer whilst Saw-cut is taking place if there is any cracking/movement or defects works will be stopped Designer and Network rail will be notified</p>



Contact with Buried Services	TB004	Permit to Dig	<p>All areas of disturbed ground to be scanned with CAT and Genny,          Services drawings checked prior to excavation. Hand dig to locate services.          Permit to dig to be in place and briefed to all personnel.          Director Sign off required for any excavations within 1.2m of live services. Cable troughing to be clearly identified prior to works commencing.          All services running over the structure to be isolated or diverted.</p>
Excavations/Breaking Ground	TB004	Permit to Dig	<p>Ensure excavations are carried out using a permit to dig .          New Permit for each task.          All areas for excavation to be CAT scanned and service drawings checked before work commences. All services to be marked on the ground,          Positions of disconnections to be marked up.          Director Sign off required for any excavations near live services</p>
Temporary Works	TB002	Form E	<p>Form 003 deign for temporary works must be signed off before works commence. Temp works co- ordinator &amp; Supervisor to be appointed. Supervisor must see and sign of construction          Permit to Proceed to be completed on completion of works before first put into use.          Form E on completion of temporary works to be issued by CRE nominated person.</p>















<p>Working at Height</p> 	TB001	Permit to Work at Height	Permit to work at height to be issued prior to works commencing. Hi-ab op to be harnessed on at all times during delivery
Manual Handling	All	N/A	All personnel to be briefed on correct manual handling methods, reduce weight and distance carried. Share the load and use mechanical means where possible.
Hazardous substances	All	N/A	All site personnel, briefed on refuelling requirements during induction. All COSHH materials to be stored in COSHH store. Wear correct PPE. Sypol assessments to be arranged.
Noise	All	N/A	Ensure all personnel are wearing suitable ear protection where applicable
Fire	All	N/A	All site personnel, briefed on Emergency arrangements and refuelling requirements. Fire extinguishers to be available at all points of ignition. Muster point to be clearly visible. Flammable materials to be stored in fuel store.
Small tools	All	N/A	Ensure all personnel trained and competent to use small tools. Check tools for damage before use. Quarantine if necessary and replace asap.
Abrasive Wheels	All	Hot Works	Only trained personnel to change abrasive wheels. Ensure correct tool for the job. Ensure blades re sharp and in good working order. Change regularly
Dust	All		Water suppression to be carried out when cutting abutments. Exclusion around work area set up to minimise the people at risk.



			Wear FFP3 dust masks at all times saw cutting of abutment Carry out occupational health assessments.
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### 3.3 Lifesaving rules

3.3.1 The following table highlights those Life Saving Rules applicable to this WPP

Always		Never	
	✓ or X		✓ or X
	✓		✓
	✓		✓
			
	✓		✓
	✓		✓

## 4 Environmental and Waste Management Arrangements

### 4.1 Environmental management arrangements

4.1.1 The following environmental issues are applicable to this WPP

Environmental Issues	Project Control Measures	Environmental Consents and Permits
Management of oils and chemicals	<ul style="list-style-type: none"> <li>All tanks shall be bunded in accordance with the oil storage regulations.</li> <li>Storage facilities shall be positioned at least 10m away from a drains and gullies.</li> <li>Drip trays shall be used whilst refuelling.</li> <li>Containers shall be fit for purpose, labelled and have proper fitting lids.</li> <li>Containers and tanks shall be made secure against vandalism or theft, locked in COSHH store.</li> <li>Refuelling shall take place in a dedicated area at least 10m away from a drain or gully.</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>



	<ul style="list-style-type: none"> <li>Spill kits shall be kept on site in high risk areas and shall be appropriate to the risk and amount of oils and chemicals present.</li> </ul>	
Dust, Noise, Odour	<ul style="list-style-type: none"> <li>Stihl saw suppression kit to be used.</li> <li>Toolbox talk to be held with all members of staff on working responsibly in the community.</li> <li>Welfare units to be turned off upon completion of shifts.</li> <li>Plant to be turned off when not in use.</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>

## 4.2 Waste management arrangements

4.2.1 The following waste management arrangements are applicable to this WPP. All waste shall be reused or recycled in accordance with the Site Waste management Plan.

Waste type	How will it be stored?	Testing required prior to disposal	Waste classification	Reuse (R) onsite / Disposal off site (D)
Office Waste	6yds skips	No	Non Haz	D
Mixed Construction Waste	12yds skips	No	Non Haz	D
Structure	Taken off site in wagons	No	Non Haz	D

## 5 Emergency Arrangements

### 5.1 Site emergency arrangements

#### 5.1.1 First aid arrangements

5.1.1.1 The first aid arrangements for this package of work are

First aiders	Name	Qualifications
	Dylan Tait/ Kevin Rourke	Full First Aid
Likely injuries associated with this work package	Crush, impact injuries, cuts and grazes.	
First aid equipment provision	Equipment	Location
	Large First Aid Kit	Site Office/ Canteen

A first Aid risk assessment can be found in Appendix 5 of the CPP.

#### 5.1.2 Evacuation arrangements

5.1.2.1 Evacuation arrangements can be found in Appendix 6 of the CPP

#### 5.1.3 Fire safety arrangements

5.1.3.1 A Fire Risk assessment can be found in Appendix 6 of the CPP.



### 5.1.4 Security arrangements

5.1.4.1 CCTV to be installed and set up in the compound and an alarmed cctv system will be set up at the bridge. Herras panels will close off both the compound and work area where warning signage will be installed for any trespassers. Padlocks will be installed on all bowsers and stores. Machines will have their boards installed at the end of each shift.

### 5.1.5 Summoning emergency services

5.1.5.1 Upon an emergency the management team will contact the relevant service to attend site. Aberdeen Royal Foresterhill Health Campus, Foresterhill Rd, Aberdeen AB25 2ZN The route can be found in APPENDIX 3.

### 5.1.6 Railway emergency (trains and electrical)

5.1.6.1

Contact Details	
ECO	
Signal box	Aberdeen
<b>Protection Ref</b>	<b>Signals</b>

In the event of an emergency affecting the safety of the railway the following actions will be undertaken.

1. Do not place yourself or the safety of others in danger
2. The lead communicator on site will be one of the following people and in this order – PICOP > Route Setting Agent > Protection Controller > COSS or SWL or IWA.
3. In an emergency a train can be stopped by raising both arms in the air or at night by waving a light vigorously
4. In an emergency the **signaller / ECO(see above)** shall be contacted immediately via mobile phone or using the nearest signal post telephone.  
The lead communicator shall state (*using the phonetic alphabet to communicate any difficult words*)  
:  
  - 'This is an emergency call'
  - Confirm who you are speaking to the right person *ie usually the signaller or Electrical Control Operator (ECO)*
  - Tell them
    - who you are (*Joe bloggs*),
    - what you do (*ie COSS*); and
    - your location ( for example *Shapton East Junction or near to SH20 (sierra, hotel, two, zero) signal*
  - Describe the problem and what part of the railway is affected *ie Down Main xx or Level crossing at yy*
  - Tell them what action needs to be taken *ie any emergency service required*
  - Ask the person to 'repeat back' the information
  - The Signaller or ECO shall end the conversation.

Access to the track shall be via the following rail access point

### 5.1.7 Asbestos

5.1.7.1 There is no record of asbestos at the train station. Should AMCO or subcontractors come in contact with asbestos, works are to be halted immediately and works to be reviewed.

### 5.1.8 Utilities

5.1.8.1



Organisation	Contact details
Electricity	0800 092 9290
Gas	0800 111 999
Telecoms	0800 023 2023
Water	0800 077 8778

## 6 Work Package Arrangements

### 6.1 Site Layout

6.1.1 A site layout plan can be found in Appendix 3.

### 6.2 Access and Egress

6.2.1 3 A945, Aberdeen AB11 7SL

### 6.3 Welfare

6.3.1 AMCO shall comply with the requirements of the Network Rail Welfare Standard NR/L3/INI/CP0036 Appendices A & B. Details on site welfare provision can be found in Appendix 3 of the CPP.

- 26ft All in one
- 1 x 10ft steel store.

### 6.4 Rail Traffic Management

6.4.1 N/A

### 6.5 Road Traffic Management

A Separate Traffic Management plan, risk assessment and drawing will be located in the site office.

Where possible exact delivery times will be made with suppliers to minimise any issues with wagons getting into the compound, when this is not possible delivery companies will be asked to phone site contact an hour prior to delivery.

## 7 Hand Over and Hand Back Arrangements

### 7.1 Hand over and hand back arrangements

AMCO will conduct a dilapidation survey.



Scan/Report Close Calls



**Network Rail Project No:**

**AMCO Contract No: MSC7989**

**WPP Revision: 00**

**Revision Date: 04/01/24**

**APPENDICES – Supporting information**

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**Appendix 1 – Risk Assessment**

	<b>CONTRACT NAME:</b>	River Dee			<b>CONTRACT NO:</b>			
	<b>WORK ACTIVITY:</b>	People & Plant Interface						
	<b>HAZARD</b>	<b>HAZARD OUTCOME</b>	<b>SEVERITY</b>	<b>PROBABILITY</b>	<b>INITIAL RISK</b>	<b>RISK CONTROL AND MINIMUMISATION MEASURES</b>	<b>HIERARCHY</b>	<b>RESIDUAL RISK</b>
	Vehicles Entering and Exiting the site	Collision with Pedestrians, employees, visitors etc & other vehicles and cyclists.	4	4	<b>16</b>	Speed restriction 5 mph set and signs in place for all site traffic both in the compound and on the access road. Ensure good lighting throughout site. Appointed vehicle marshalls to control traffic movements. Vehicle marshalls easily identifiable. Compound Pedestrian routes designated and marked out using temporary vehicle barriers. Designated loading/unloading area to be identified, marked and managed. Advisory signage offering details of how to access site. Vehicles exiting the site to give way to vehicles entering the site. Site management to monitor road condition and organise road sweepers as required. If required ask for assistance to manage members of the public. banksman to meet all deliveries which should book in their arrival with site. access gates to be chained and locked at all times!	MINIMISE	4





	vehicles parking at site access point	obstructing view of exiting vehicles. Hindering large vehicles safe accessing.	4	3	12	if possible, no parking outwith site compound. Site fencing to be set up to allow vehicles to complete movement away from the track. Site induction to advise of parking restrictions throughout site. parking only authorised in designated areas. Delivery company and suppliers to be advised of TM plan and access requirements prior to first arrival.	ELIMINATE	4
	Working with heavy plant	fatal or Major Injury	4	4	16	Plant movements to be controlled by a banksman only. Whilst plant is loading/unloading all personnel to maintain a safe distance in case of over turning. plant to follow site speed limits at and on approach to the works. banksman and operator to stay in constant communication using Dect Comm head sets. should dect comms fail then works must be suspended until communication can be re-established. all personnel on site to ensure they wear full good quality orange Hi viz PPE along with head torches for nightshift working. plant only to be delivered or collected whilst AMCO supervisors are on site. No lone working at any time to deliver or collect plant.	MITIGATE	4
	unauthorised personnel operating plant	fatal or Major Injury	5	4	20	All plant operators to provide site management with a copy of their training records. Site management to confirm validity of training with training certification scheme. ie CPCS/NPORS. Pre start checks to be completed prior to first use of any plant/equipment. all personnel to wear suitable PPE for both operating or working in the vicinity of plant. plant to have lighting working and beacons illuminated during operations. ensure immobilisers are removed upon completion of operations and plant is parked in a secure position. if available window	ELIMINATE	5



						shutters to be installed on all plant at the end of each shift.		
	Injury from being run over by vehicles.	fatal or Major Injury	5	4	<b>20</b>	all plant to be operated by trained, competent and authorised personnel. Banksman/marshalls to control access/egress to/from working areas. Pedestrian routes to be illuminated and delineated from vehicles using fixed barriers. Site lighting to be used to illuminate worksite and working area. During periods of cold/inclmant weather, drivers to be reminded to reduce speed whilst operating plant. If available window shutters to be installed on all plant at the end of each shift. marshalls to assist with all plant movements. Banksman to wear Dect Comms to talk to machine operators at all times when machines in operation.	MINIMISE	5
	fire	fatal or Major Injury	4	4	<b>16</b>	fuelling operations only to be carried out at the designated signed areas. Fire point to be set up and managed at all times. During any works producing a spark, all works only to be carried out under the control and guidance of a hot works permit. Refuelling point to be set up a minimum of 10m away from the river, any sewers/gullies or a tributary flowing into the river.	MITIGATE	4



	falls of objects	fatal or Major Injury	5	4	20	slinger/signaller to ensure all loads are secure prior to vehicle moving. Site traffic to travel dead slow when moving on site. banksman to control and monitor the exclusion zone during all loading and unloading operations. Should any personnel attempt to enter the works area, all works to cease. CC/Banksman to be in constant communication using dect comms.	MINIMISE	5
	fall of personnel	fatal or Major Injury	5	4	20	personnel only to access the rear of vehicle if required and if there is sufficient edge/fall prevention/protection in place. Only access the rear of a vehicle is essential to the operation. Edge protection can take the form of propriety system ,curtain or straps.	ELIMINATE	5
	Children	fatal or Major Injury	4	4	16	signage to be erected on surrounding approaches to advise of construction traffic. Signage on perimeter fencing to advise parents to warn children of the risks of accessing site. gates to be secured and locked at all times with final checks done at end of working day. CCTV Security to be on site with site management carrying out daily checks to inspect site perimeters.	MINIMISE	4
	Members of the public	fatal or Major Injury	4	4	16	sigange erected throughout. Marshall to assist all plant movements crossing the track. Ensure members of the public given right of way until vehicle starts moving. Once vehicle is moving ask MOP to wait. If required ask for assistance to manage MOP. ensure vehicle gates are locked and secured outwith crossings. do not lock pedestrian right of way gates.	MINIMISE	4
A								
A	<b>PREPARED BY:</b>	D Tait	<b>DATE PREPARED:</b>	08/11/22	<b>OVERALL RISK</b>			



A							
A	<b>SEVERITY</b>		<b>PROBABILITY</b>				<b>RISK Medium</b>
A	LOW	1	1	NOT LIKELY		LOW	1 TO 6
A	SLIGHT - FIRST AID TREATMENT	2	2	POSSIBLE - OTHER FACTORS NEEDED BUT NOT LIKELY		MEDIUM	7 TO 15
A	MODERATE - OVER 3 DAYS INJURY	3	3	QUITE POSSIBLE - OTHER FACTORS NEEDED - LIKELY		HIGH	16 TO 25
A	HIGH - MAJOR INJURY / DEATH	4	4	LIKELY - OTHER FACTORS THEN WILL HAPPEN			
A	VERY HIGH - MULTIPLE DEATH	5	5	VERY LIKELY - WAITING TO HAPPEN			

<b>CONTRACT NAME:</b>	River Dee		<b>CONTRACT NO:</b>				
<b>WORK ACTIVITY:</b>	Scour Works						
<b>HAZARD</b>	<b>HAZARD OUTCOME</b>	<b>SEVERITY</b>	<b>PROBABILITY</b>	<b>INITIAL RISK</b>	<b>RISK CONTROL AND MINIMUMISATION MEASURES</b>	<b>PROCEDURES</b>	<b>RESIDUAL RISK</b>



Railway Infrastructure	Fatal or Major Injury	5	4	20	Ensuring all personnel working within the railway environment are clear on the methodology and the safe working limits. If any work strays from the methodology detailed in the WPP work must cease immediately and the work process must be reviewed. All personnel accessing the track must be in possession of a Sentinel card or a valid TVP. The site COSS must have visited the site and be aware of the work site in advance of permanent work beginning. All individuals to be COSS briefed and their sentinel cards checked on a daily basis	5
Working in a Railway Environment	Fatal or Major Injury	5	4	20	Green Zone working. Wearing of correct PPE. Use of PICOMs. COSS 3 in 1 Briefings. Use of competent staff and adequate supervision. Adherence to Rule Book and method statement requirements.	5
Premature Collapse	Fatal or Major Injury	5	3	15	The works will be agreed with AMCO & NR. All demolition works will be checked and agreed by TW O. Demolition methodology to be adhered to at all times. Saw cut will be carried out to the abuments to allow for a clean breaking point. Exclusion zone set up around works so that there is no risk to any personell if the structure does collapse	5
Working Adjacent to/or on or near the Railway line	Uncontrolle d exposure to rail traffic. Injury to operative Damage to S&T Equipment	5	4	20	All personnel to be PTS trained or hold valid TVP. COSS must supervise all works on or near the line. All personnel to wear Orange Hi-Viz clothing in accordance with AMCO and NR PPE policy. SSOW Plans must be in place for all works on or near the line. Do not go near the line without a COSS briefing. ALO plan to be in place	5



HAVS	Reportable or minor Injury	4	4	16	Use low vibration tools. Where appropriate use anti vibration handles. HAVS monitoring to be completed daily. Ensure ELV's are not breached and actions are taken when EAV are reached. Rotate personnel		3
Environmental Concerns and Pollution	Prosecution Bad Public Image	3	4	12	Consult with Authorities SNH & Historic Scotland. Use drip trays and nappies with static plant. A&A Environmental to be on 24hr call out. Spillage granules and spill kits are to be available on site. All COSHH equipment to be placed on plant nappies or drip trays at work site. Care to be taken during the works to ensure no source of contamination or falling debris. Liaison with SEPA for any consents required. Biodegradable oil to be used at all times for plant and machines		3
Contact with falling objects	Fatal or Major Injury	4	3	12	Establish and maintain an exclusion zone. Edge protection. Wearing of head protection. Correct loading of working platforms. Dress loose ground and remove loose objects. Consider personal positioning and be aware of adjacent activities.		4
Contact with moving machinery.	Fatal or Major Injury	4	4	16	Designated access routes. Emergency stop arrangements. Use of personal locks. Use of guarding. Use of pre-start alarms and signage. Permit to Work. Personal positioning	HS41	4
Use of specialist Equipment	Minor Injury	3	3	9	Only trained personnel to use equipment. Suitable full orange PPE to be worn for the task. All plant & training certs to be held in office		3



Lifting Operations	Death or serious Injury	5	4	20	Suitable and sufficient lifting appliance with regards to load and reach. Lifting Appliance inspection register & certificates in date. Operators licence and certification in date. Adequate access including swing area free of obstructions. Use suitable & sufficient and in date lifting chains/slings connected to correct lifting points on equipment only. Ensure area kept clear of persons not involved during lifting. Wear appropriate PPE. Lifting Plan to be supplied by Appointed Person Exclusion zone to be set up around lifting area.	HS49	5
Manual Handling	Reportable or minor Injury	3	4	12	Recommended 25kg lift per person. Use mechanical lifting means where possible. Ensure operatives have training for manual handling. Appropriate PPE to be worn at all times. Assess load and task before lifting, taking into account the individual's capabilities and the environment.	HS38	2
Falling from height	Fatal or Major Injury	4	4	16	Exclusion zone around areas and overhead work areas. Safety helmets to be worn at all times. All equipment to be logged and tagged with unique identification. Copies of up to date certs to be held in the site office. Equipment to be checked before each use.	HS 49	4
Working in the hours of darkness	Reportable or minor Injury	3	3	9	Cap lamps to be worn at all times. Extra care to be taken with slips, trips and falls. Work areas and accesses/egresses to be illuminated with Tower lights/ Task lights. Lights not to blind or distract operators.		2





Dust	Increase Breathing problems affecting the lungs and respiratory system	3	3	9	During cutting works ,dust to be kept to a minimum due to the close proximity of live traffic adjacent to the works at Keppochhill Rd. Dust suppression kit/Water Pump to be used at all times during cutting works with sthail saw. FFP3 Dust masks and goggles to be worn.		2
COSHH	Reportable or minor Injury	3	3	9	COSHH assessments to be communicated to the workforce. See Working Safety File All COSHH materials to have safety data sheet on site for onsite materials such as grout, tar and concrete and COSHH assessment. Gloves to be worn at all times.		3
Wiel's Disease	Reportable disease	3	3	9	Identify locations and eliminate where possible. (Pump out water) Carry Information card. Be aware of symptoms. Protect cuts and damaged skin. Wear appropriate PPE. Do not inject . Personal hygiene. Inform GP if reporting 'flu symptoms	HS44	3
Collapsing or overturning structure	Fatal or Major Injury	4	3	12	Comply with design restrictions. Scaffold and structure inspections. Adjustments by qualified personnel only. Adhere to weight restrictions. Correct use of scaffold or structure. Exclusion zones for excavation work.		4
Eye Protection	Minor injury Serious injury	3	3	9	To prevent eye injury – appropriate eye protection to be worn as required for the task in hand. Safety Glasses to be worn at all times.		3



Traffic Management	Minor or major injury Damage to motor vehicles	5	4	<b>20</b>	TM must be in place in accordance with Section 8. Road closure to be in place for the duration of the works. Only trained and competent persons to implement TM. All TM to be planned in in symology.		5
Slips, Trips & Falls	Reportable or minor Injury	2	4	8	Keep a tidy site. Store materials tidily in lay-down areas and keep tools in a storage container. Route cable runs for core drills and hand held power tools away from walking areas and out of any water.		3
Nipping, trapping and crushing	Minor injury Serious injury	3	3	9	Use Competent, trained staff and ensure that correct PPE including gloves are worn at all times. Pre-work briefing, toolbox talks. Operatives to complete Point of Work Risk Assessments if any changes to work. Exclusion zone to be set up where possible.		3
Contact with Buried Services	Death or serious Injury	4	4	<b>16</b>	All areas of disturbed ground / structure to be scanned with CAT and Genny, Services drawings checked prior to excavation. Hand dig to locate services. Permit to dig to be in place and briefed to all personnel. Under no circumstances is any coring or drilling works to commence until AMCO site management have issued permits to dig. Regional Director sign off required if working 1.2m or less to existing services. No mechanical works when 1.2m of known services.	HS33	3



Electrical Hazards	Reportable injury	4	4	16	Site installations must be inspected, tested and commissioned prior to use. Ensure installation and removal is by qualified electrician. Ensure mains distribution cabinets are locked at all times. Site electrical tools are to be 110V only. Ensure PAT testing of all tools/electrical equipment. Check electrical certs for cabins and keep copies on site.	HS42	4
Excavations and breaking ground	Serious injury Death	5	4	20	Ensure excavations are carried out using a permit to dig. New Permit Each day. All areas for excavation to be CAT scanned and service drawings checked before work commences. All services to be marked on the ground, Positions of disconnections to be marked up. Check exactions at the beginning and end of each shift and record on appropriate check sheets. Backfill excavations as soon as possible. Fence of excavation if they have to be left unattended. Regional Director sign off required if working 1.2m or less to existing services. No mechanical works when 1.2m of known services	HS33	4
Noise	Noise induced deafness Injury to personnel Nuisance Noise	2	4	8	Use of silenced plant where possible. Ear defenders must be worn in areas where noise exceeds safe levels (85dB). Turn off plant when not in use. Residents to be letter dropped prior to the works commencing		2



Small Plant	Electrical shocks and burns  Entanglement in rotating part Flying particles Use of non-proprietary holding devices Hand arm vibration syndrome Noise induced hearing loss	2	3	6	Inspect all equipment before use. Check maintenance schedule if available. Correct PPE to be worn. Plant to be operated competent person	HS42	2
Contact with moving machinery.	Fatal or Major Injury	4	4	16	Designated access routes. Emergency stop arrangements. Use of personal locks. Use of guarding. Use of pre-start alarms and signage. Permit to Work. Personal positioning	HS41	4
Contact with moving plant or vehicles	Fatal or Major Injury	4	4	16	Designated access routes. Use of guarding. Pre-start alarms. Reversing alarms. Segregation of pedestrians. Use of RRV Banksman, use of WAC or TL to restrict straying and general awareness. Personal positioning.		4



Abrasive Wheels	Reportable or minor Injury	3	3	9	Cut off saws & grinders will only be operated by competent personnel. Changing of blades to be only carried out by trained operatives PPE (Appropriate impact goggles, masks and gloves to be use) must be worn during this operation.		2
<b>PREPARED BY:</b>	Dylan Tait	<b>DATE PREPARED:</b>		04/01/24	<b>OVERALL RISK</b>		<b>Medium</b>
<b>SEVERITY</b>		<b>PROBABILITY</b>				<b>RISK</b>	
LOW	1	1	NOT LIKELY			LOW	1 TO 6
SLIGHT - FIRST AID TREATMENT	2	2	POSSIBLE - OTHER FACTORS NEEDED BUT NOT LIKELY			MEDIUM	7 TO 15
MODERATE - OVER 3 DAYS INJURY	3	3	QUITE POSSIBLE - OTHER FACTORS NEEDED - LIKELY			HIGH	16 TO 25
HIGH - MAJOR INJURY / DEATH	4	4	LIKELY - OTHER FACTORS THEN WILL HAPPEN				
VERY HIGH - MULTIPLE DEATH	5	5	VERY LIKELY - WAITING TO HAPPEN				



Scan/Report Close Calls



**Network Rail Project No:**  
**AMCO Contract No: MSC7989**  
**WPP Revision: 00**  
**Revision Date: 04/01/24**

Appendix 2 – TM Plan

Appendix 3 – Hospital Route



Scan/Report Close Calls



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