

Perth - Tay Viaduct

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This Work Package Plan does not require acceptance by Network Rail / Client	
OR	Date
Accepted on behalf of Network Rail / Client:	
(Print Name)	
(Signature)	
(Job Title)	

Always be sure the required plans and permits are in place, before you start a job or go on ar near the line. **Network Rail Project No: SCOAM18**

AMCO Contract No: MSC-3342

WPP Revision: 01

Revision Date: 29/04/20

Work Package Plan

Job No.	3342
Structure	134/035
ELR / Mileage	SCM5/20m 0080yds
Grid Reference	312358,722888
Post Code	PH2 7BA

Start Date:

Finish Date:

Work Package Plan Number:

WPP No: 3342.134.035

Controlled Copy Number

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Unique No: SCOAM18

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Supporting guidance



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APPENDICES – Supporting information

Appendix 1 – Site Layout

Appendix 2 – Risk Assessment

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<u>Site Procedures for AmcoGiffen Sites Operating During the COVID-19</u> Pandemic.

During the current COVID-19 outbreak we need to, as far as possible, ensure we are protecting our employees and supply chain, and minimise the risk of spread of infection, in line with the Government's current advice.

The health and safety requirements of our sites must not be compromised. If an activity cannot be undertaken safely, it should not take place, in line with our SHEQ strategy and processes.

All AmcoGiffen sites must be fully briefed and implement, the measures set out below:

Travel to and from Site

Sites must brief and implement the following arrangements, wherever possible:

- Limit the number of persons per van to maintain some distance between occupants, e.g. keep an empty seat between each occupied seat during travel to / from / during work. Try not to rotate teams using a van.
- Use alternative means of transport to avoid public transport where possible.
- If available, travel to site could be using own transport, as long as the relevant insurance is in place.
- Providing hand-cleaning facilities at entrances and exits. This should be soap and water or hand sanitiser.

Site Access Points & Briefings

All sites must implement the following procedures:

- Stop all non-essential visitors.
- Remove or disable entry systems that require skin contact e.g. fingerprint scanners.
- Allow plenty of space (at least two metres) between people waiting to enter site.
- Require all workers to wash or sanitise their hands before entering or leaving the site.
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible, keeping a distance of 2 metres between people.
- When briefing safety documentation, e.g. whiteboards and task briefs consider holding them outdoors wherever possible, keeping a distance of 2 metres between people.
- Do not hand out the task brief, SWP, whiteboard brief or similar to the workforce to sign, but write in their name on their behalf.
- When scanning in sentinel cards ask the person to place the card on a surface so that it can be scanned safely and maintain 2 metres.
- Regularly clean common contact surfaces in office, access control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, and desks.
- Ensure there is a single drop off / collection point for deliveries.
- Delivery drivers should remain in their vehicles, if the load will allow it, and must wash or sanitise their hands before unloading goods and materials.
- When taking deliveries do not sign the delivery ticket but ask the delivery driver to sign on your behalf.

Site Hygiene Arrangements

All sites must introduce, wherever practicable:

- Sufficient hand washing and / or hand sanitising facilities.
- · Regularly cleaning of hand washing facilities.
- Suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

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• PPE, hygiene and cleaning products are to be ordered in advance to maintain stock, and securely stored.

Toilet Facilities

All sites must implement the following toilet regime:

- Restrict the number of people using toilet facilities to maintain social distancing.
- Notices to advise hands must be washed or sanitised before and after using the facilities. Enhanced cleaning regimes, particularly door handles, locks and the toilet flush.
- Where in use, portable toilets must be cleaned and emptied more frequently.
- Suitable, sufficient rubbish bins for hand towels must be provided with regular disposal.

Mess / Eating Arrangements

The following should be implemented wherever possible:

- Break times staggered to reduce congestion and contact.
- Hand cleaning facilities or hand sanitiser should be available where people eat and should be used when entering and leaving the area.
- Everyone asked to bring pre-prepared meals and refillable drinking bottles from home.
- Everyone should sit 2 metres apart from each other whilst eating.
- Where food is provided on site, it should be pre-prepared and wrapped food only.
- Crockery, eating utensils, cups etc. should not be provided.
- Where equipment such as kettles, microwaves etc. are provided, they must be regularly cleaned.
- Drinking water facilities should have enhanced cleaning measures (e.g. tap handles disinfected).
- Tables should be cleaned between each use.
- Rubbish should be put straight in the bin and not left for someone else to clear up.
- Areas used for eating must be thoroughly cleaned at the end of each break / shift, eg chairs, door handles etc.

Changing Facilities, Showers and Drying Rooms

Where applicable, regimes must be put into place to include:

- Ensure use of facilities complies with social distancing, including assessing a max number at any one time and brief workforce.
- Enhanced cleaning of all facilities throughout the day and at the end of each day.
- Increasing the number or size of facilities available on site if possible.
- Suitable and sufficient rubbish bins with regular removal and disposal.

Site Meetings

Site meetings must be conducted remotely, unless by exception if participants are required to be together, in which case:

- Only absolutely necessary meeting participants should attend.
- Consider holding meetings in outdoor areas where possible.
- Rooms should be well ventilated / windows opened to allow fresh air circulation.
- Attendees should be 2 metres apart from each other.

Cleaning

Enhanced cleaning procedures should be in place, including regular cleaning of:

- Taps and washing facilities, toilet flush and seats.
- Door handles and push plates.
- · Hand rails on staircases.

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- · Machinery and equipment controls and shared tools.
- · Vans and vehicles.
- All surfaces, particularly food preparation and eating surfaces.
- Telephone equipment, keyboards, photocopiers and other office equipment.

Sites must also implement the following General Principles:

- Work requiring skin-to-skin contact should not be carried out.
- Plan all other work to minimise contact between workers.
- Re-usable PPE (e.g. back-to-back communication equipment) must be thoroughly cleaned after use and between users.
- Single use PPE should be disposed of so that it cannot be reused.

1 Introduction

1.1 Brief outline of work methodology

Work Details / Remit – Scour Repairs & Preventative Action - Carry out brickwork repair to Upstream column nose of Pier 1 where bricks are missing and loose. Carry out repair to torn reno mattress in between columns of Pier 1 and infill any loss material.



Authorising works commencement

Site operatives will sign in to attendance register.

The site supervisor will carry out a site specific briefing to the workforce prior commencing works which will include:

- Work scope
- Whiteboard brief
- Location of emergency equipment
- Known Hazards
- Welfare provisions & Locations
- Check Competencies
- Slips, trips and falls form to be completed
- First aid kit to be inspected every 4 weeks along with the completed assessment.
- Welfare assessment to be completed to determine whether a Welfare van will be sufficient.
- Site supervisor will confirm competencies, certification of plant and inspection of tools/plant prior commencement. The AMCO site supervisor must be on site at all times when works are taking place.

The site supervisor is to undertake a hazard review on site prior to works commencing to ensure that the SWP and WPP are reflective of the conditions and hazards at site. This is to include walking routes to/from site and at the place of works. This hazard assessment is to be formally recorded on POWRA. The supervisor will record to his line manager how any further control measures required will be implemented and maintained (again recorded on POWRA).'

Report all incidents (pollution, flood events) and any other potential hazards to your supervisor.

SEPA flood warning web site to check. Work to start when there are no flood warnings in place. **flood.sepa**.org.uk

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Report any incident (at the time it happens) and any actions to resolve the issue. Any incident should be followed up with a written report to SEPA in due course. The pollution hotline number is 0800 807060 24/7/365.

Access to worksite - Hillside

HIGH STREET ASSESMENT		
High Street	Yes	
Competent Representative	Name:	
	Signature:	
Segregation	Temporary portable barrier	
Segregation Comments	Men at work signs, traffic cones & hazard warning tape to be used to segregate works form the general public. Supervisor to ensure this is maintained at all times	

Working within a Watercourse:-

- Site Supervisor to issue Permit to Work in Water. Water samples will be measured against
 a baseline during the works, gathered upstream of the work area. Where samples fail,
 pollution mitigation measures are to be reassessed and works stopped until suitable
 pollution mitigation measure can be installed and confirmed that they are working
 effectively.
- The Site Supervisor will monitor the water levels throughout the works. If the water levels
 rise significantly the works will be stopped and the water level allowed to recede, before
 re-entering the watercourse. Life buoy ring to be set up and Life jacket to be worn at all
 times.
- All persons working within the water course will wear wellingtons or chest waders as is appropriate. The wellingtons/chest waders will be cleaned before entry to prevent contamination before works commence. NOTE: Follow Check, Clean, Dry procedure on access/egress to the watercourse.

Working at Height:-

- Equipment certification to be checked and condition of equipment prior to use.
- Site Supervisor is to issue Permit to Work at Height for the worksite.
- Site Supervisor to establish exclusion zone around work area to prevent operatives being struck by falling debris.
- Terram sheet to be laid below work area to collect any fallen debris.

Water levels to be closely monitored as tide can come in very quickly at this location.

Methodology Site set up

- Park up vans at the old Hillside Hospital to unload. Set out traffic cones around vans.
 Ensure parked vehicles don't obstruct other road users or pedestrians.
- Set up mixer next to site vehicles, on an impervious layer of polythene and plywood, batch mortar and pour into wheelbarrow for transporting to site. Only half fill the wheelbarrows to minimise spillage.
- Set out men at work signs at each end of public path and take all plant, tools and materials to viaduct.150m.

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- Supervisor to guide public through public path safely.
- Spill kit to be available on site. Its location to be briefed to the workforce and how to use.
- Hold Point: Supervisor to issue a permit to enter a watercourse.
- In order to avoid the spread of aquatic diseases, such as crayfish plague, the check, clean and dry approach should be taken when any person or plant enters a watercourse with equipment or clothing that has previously been used in another watercourse.
- Where possible, all plant, equipment and tools to be set up at least 10m away from the watercourse. All fuelling to take place at least 10m away from watercourse on a plant nappy or drip tray. Spill kit to be available on site
- Take pre-works water sample to use as a baseline for sediment content. Results to be recorded in diary and photographed.
- To allow for safe access to the watercourse make up a temporary stairway to get from path to the river bed with timber.
- Set up generator on footpath, at least 10m from the watercourse on a drip tray. Lay out 3 cables from path to pier leg and set Hilti TE-40.
- Supervisor to issue a **working at height permit** for the works off alloy tower.
- Carry scaffold 200m to pier 1 and erect for a footing to allow access to the damaged stone work & bricks.
- PASMA trained operatives to set up alloy tower, tight to pier leg. Cover working
 platform with plywood and Terram to catch vegetation, rubble and mortar droppings.
 Attach the Terram to the pier leg beneath the works. Keep the working platform clear
 of trip hazards and set up an exclusion zone around the base of the scaffold to
 protect the workforce from dropped objects.

Works

- Remove heavy moss from the pier leg approx. 8sqm with trowel and wire brush. Removed material to be loaded directly into bags for disposal.
- Cut out damaged stonework/brickwork approx. 1sqm x 105mm deep on pier leg & build up hole with brickwork.
- Rake and point isolated areas throughout pier leg approx. 4sqm x 20mm deep.
- Remove debris from top of damaged gabion basket lid and remove lid from existing baskets.
- Replace holes in baskets with existing gabion stones which are lying on the river banking approx. 500kg
- Place new gabion lid to existing gabion baskets and tie down with gabion tie wire.

Site tidy

- All plant and tools covered in cement/mortar to be washed out into a bucket at least 10m away from the watercourse.
- Never allow concrete or mortar wash out in or near a watercourse; the resulting wash water is highly alkaline and can kill fish and other aquatic animals.

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• Once all works have been completed the supervisor is to ensure the worksite is left clear and tidy.

- Care to be taken not to drop any debris/mortar into the river when removing plywood/Terram from scaffold.
- Post photographs of worksite to be taken before leaving site at the end of each shift.
- Plant itinerary check sheet to be cross checked when leaving site to ensure no plant is left behind.
- Remove temporary steps from embankment, carry back to access and load to van.
- Put all rubble and wire cuttings into the Perth yard skip.

1.1.2 The following tasks support this Work Package Plan:

Reference & Prepared by:	Task Briefing Sheet Title	Activity Start Date
TBS1 3342 M Cheyne	Scour repairs	

1.2 AMCO's delivery organisation

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

Contacts		
On call Manager	TBA	
Regional Director	A Boyle	07557 203 539
Regional Manager	A Kane	07881 232 506
Site Agent	B Thomson	07557 540 042
Depot Manager Perth	T Burrows	07620 587 246
Depot Engineer	M Cheyne	07787 877965
Site Supervisor	TBA	

1.2.2 Resources

People

Number of People and their competence		
Competence No of Peop		
Supervisor	1	
Bricklayer	2	
General operative		

PPE

PPE requirements for tasks outlined in this WPP		
	White safety helmet	
Minimum PPE	High visibility upper and lower body clothing	
requirements to	Safety footwear	
be worn at all	Safety glasses	
times	Cat 2 safety gloves	
	Safety glasses	
	Dust mask FFP1, FFP2 or FFP3	
Task specific	Impact goggles	
PPE	Kevlar armlets	
	Mesh protective gloves	

Plant, Equipment and Tools

Quantity of Plant, Equipment and Tools		
Plant item	No	
Welfare Van	1	
Site vehicles	1	
Spill Kit	1	

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Plant nappies	
Generator	1
Breakers	1
5" grinder	1
Alloy tower	1
Mixer	1
Men at work signs	2
Traffic cones	4
Hilti TE-40	1

Materials

Quantity of Materials		
Material	Quantity	
Building sand	4 x bags	
Cement	1 x bag	
SIKA	5 litres	
Plywood	2 sheets	
Terram sheeting 4m x 4m	1	
Gabion plastic coated mesh 4m x 4m	1	
Gabion tying wire	1 roll	
Pliers	2 pairs	
Wire cutters	1 pair	
Engineering brick	60	
Timber 6m x 200 x 50mm	2	
Posts 1.8m x 75 x 75	2	

2 Working Together

2.1 At site communication

- Whiteboard Brief.
- The Site Supervisor will brief the contents of the WPP and permits in the Welfare van before works commence.
- The Use of mobile phones must only be from a position of safety.
- Any Minor Changes to the WPP must be agreed with the On Call Manager using the PoWRA booklet refer to 1.2.1 in the WPP above for contact details.
- Any significant changes will require an amendment to the WPP and signed off by the CRE/CEM refer to 1.2.1 in the WPP above for contact details.
- Out of Hours any incidents or issues must be discussed with the On Call Manager refer to 1.2.1 in the WPP above for contact details.

2.2 Contact details

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

Network Rail Project Team

Name	Role	Contact details	Tick to confirm number works and has been tested
D Fleming	Works Delivery Manager Earthworks	07917 782 199	
W Barrie	Works Delivery Manager Structures East	07732 642 036	$\sqrt{}$

Regulators

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Organisation	Contact details	Tick to confirm number works and has been tested
Emergency Services	Emergency – 112 / Non-Emergency 101	✓
British Transport Police	0800 405040	✓
HSE	Fatalities and Major Injuries - 0845 300 9923. Other - http://www.hse.gov.uk/riddor/report.htm	√
ORR	020 7282 2000	✓
EA/SEPA/NRW	0800 807060	✓
Flood line	0345 9881188	✓
Local Authority		✓
Spill clean up	0800 592827	√

3 Hazard Management

3.1 Work involving particular risks

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

OR

The work in this package involves the following particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015:

Risk	How will this risk be controlled	When and where will the risk be present?	Permits required
Working on Network Rail managed infrastructure	Works are high street environment. All personnel shall comply with NR standard of full orange hi viz and other task specific PPE.	At all times	SWP
Working in a high street environment – members of the public	An appropriate barrier around the works to be set up: Depending on the circumstances, traffic cones/hazard warning tape may need to be upgraded to pedestrian barriers or Heras fence panels if the amount of passing pedestrians is high or the worksite is restricted. Plan work in sections if required to allow members of the public access past the works. One man to be watchman and to direct MOPs safely passed works. Men at work signs to be set up to warn MOPs of the works.	At all times / allowing public to pass works safely	No
Alloy Towers	Working at height permit to be issued PASMA trained operatives to erect scaffold and complete tower checklist as and when required. Towers must be erected by trained persons holding PASMA or similar competency, in accordance with	Access to workface	Working at height permit

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	manufacturer's instructions and inspected prior to use. • Users must be briefed in both the safe use and limitations of the towers. Towers must always be erected on a firm level base and when parked or in use must have all four wheel brakes applied. Outriggers must be used if the height of the tower requires. Personnel must descend from platforms every time towers are moved. If using towers on platforms, additional means of preventing a tower travelling over the edge must be applied e.g. secured stop blocks.		
Nipping, trapping and crushing	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.	At all times	No
Falling Debris	Exclusion zone to be established around work area where works at height are being undertaken. Work at height operative to be aware of where material is being deposited. No operative access into exclusion when overhead works are being undertaken.	From overhead works	No
Works at height	Working at height permit to be issued PASMA trained operatives to erect scaffold and complete tower checklist as and when required.	Accessing high level works	Working at height permit
COSHH Substances (HRA – HS39)	COSHH data on site for COSHH items. Task Specific PPE worn at all times when handing COSHH Items Harmful substances to be used as per manufacturers recommendations. COSHH items stored off site when not in use. Operatives to be equipped with task specific PPE at all times whilst using COSHH items.	When handling hazardous or items detrimental to health or the environment	No
Plant – use of portable tools and equipment	Low voltage equipment (110v). Regular maintenance of tools. Circuit tests and PAT HAVs assessments to be undertaken. When using angle grinder Kevlar armlets and mesh protective gloves to be worn	Carrying out the works	Competency of operator
Operating small tools	Operatives must be trained and competent. Inspect plant before use and report any faults to site supervisor. When using angle	Carrying out the works	Competency of operator

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	grinders Kevlar armlets and mesh protective gloves must be worn.		
Cement based products	Cement can cause ill health mainly by skin contact, inhalation of dust and manual handling. Therefore, appropriate PPE and COSHH awareness is essential	Masonry & pointing repairs	СОЅНН
Planning to work in a watercourse	WPP to have been approved by both A Kane and A Boyle. Amco Environmental team to have commented on requirements. SEPA approval as required or Marine Scotland if works are below high water mark. Environmental survey to have been carried out prior to commencing works. Carry out works as per approved WPP.	Scour repairs	No
Working in water.	Do not work alone. Difficult access and egress, possible entrapment, depth and flow will all need to be considered. Fresh concrete and cement are very alkaline and corrosive and can cause serious pollution in watercourses. It is essential to ensure that the use of wet mortar and cement in or close to any watercourse is carefully controlled so as to minimise the risk of any material entering the water. Working in confined / restricted spaces will pose significant risks at incidents involving water so a means of rescue should be considered before works commence.	Scour repairs	Permit to enter a watercourse
Works over water	Ensure that working platforms are secure with no tripping hazards. Surfaces which become wet and slippery should be cleaned and treated with sand or industrial salt.	Working next to a watercourse	Permit to enter a watercourse
Slips, trips and falls	Get the right footwear with good tread and slip resistant soles. Take extra care at night and in poor weather conditions – always use a hat lamp, slow down and look ahead to where you are placing your feet. On track always walk ballast to ballast and avoid walking on troughs and sleepers as these are frequently slippery. Always use hand rails when climbing or descending stairs. Play your part in keeping your work place tidy – clear waste as it is generated, clean up spills and store materials safely. In extreme conditions stop work until	At all times	No

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	actions are taken to make access ways safe. Always fix and report close		
	calls, eg: poor underfoot conditions or		
	access, unsafe stairs or walkways		
Manual handling	Correct lifting equipment and	At all times	No
	techniques. Use mechanical means where possible. Assess the load		
	before lifting. Do not lift more than you are capable. Share the load when		
	practical to do so		
Access / egress from site	Erect temporary steps to allow safe	At start and finish	No
	access to watercourse. Walking routes to be suitable and all trip hazards removed.	of shift	
Leptospirosis	Gloves to be worn at all times, hand washing and welfare facilities to be located on site for duration of the works	Ifare facilities to be	
Noise / Occupational	Hearing protection to be worn when operating grinders, chainsaws, Stihl saws, strimmers, drills etc.	When using power tools	No

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	How will the risk be controlled
Working on/near Network Rail managed infrastructure	A safe system of work will be established and maintained by ES/COSS, i.e. worksite within a possession of the railway or blockage of the line with isolation where necessary. All operatives will be PTS minimum certified and wear full orange PPE.
Working in the vicinity of a public highway/public	Observe all highway rules (direction of traffic/bus lanes/etc.). Site vehicles to be parked responsibly without causing disruption to flow of traffic or blockage of accesses. Vehicle conspicuous Colour white/yellow. Beacons visible from 360 degrees. Beacons to be switched on at all times during manoeuvring from site to public roads.
3rd Party Interfaces	Be aware of pedestrians/vehicles that may be using the access point areas and the site. All members of the public are to be treated politely and courteously.
Weil's Disease	Identify locations and eliminate where possible. Carry Information card. Be aware

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	of symptoms. Protect cuts and damaged skin. Wear appropriate PPE. Do not ingest. Personal hygiene. Inform GP if reporting 'flu symptoms
Sharps	Identify possible locations. Remove into sharps box using appropriate PPE and equipment. Dispose of sharps box at agreed location. Instruction on procedure in event of cutting / puncture. Encourage the wound to bleed, prevent further contamination. Report to hospital, taking offending sharp with patient. Inform NR Sharps control on 01904 525 894.
Slips, trips or falls on same level	Identification and maintenance of dedicated access routes. Removal of tripping hazards. Safe storage of materials. Cleaning up spills. Removal of rubbish and debris to an approved location. Use of non-slip flooring. Repair worn or damaged walking surfaces.
Lack of site Knowledge	All operatives, NR Staff and visitors will receive a full site induction prior to being permitted on to the works areas. This will identify any hazards/risks associated with the works at site.
Vandalism	All sites are adequately signed and demarcated with suitable and sufficient barriers. Areas to be secured at all times outside normal working hours. Remove all valuables and potential hazards when out of use. No dangerous plant or materials to be left accessible when unattended.

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	√	*	✓
	✓	*	*

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3.4 High Risk Activities

3.4.1 The following table highlights the High Risk Activities applicable to this WPP

e following table highlights the High Risk Activities applicable to this WPP					
High Risk Activities associated with the works					
✓ or X					
Working at Height	Ė	√	Change Management	2 0	х
Breaking Ground		X	Lifting Activities	*	х
Confined spaces		X	People & Plant		х
Fire and Hot works	*	X	Electrical & Stored Energy	4	x
Work Related Road Risk	A	X	Railway Operations		х
Working in Water	(final	~	Works producing dust, noise and Vibration	Works producing dust, noise & vibration	~
Works in, over or near water	Works In, Over or Near Water	✓	Activities with potential to cause pollution	Activities with Potentia to Cause Pollution	✓
Works affecting protected or invasive species	Works Affecting Protec or Invasive Species				

4 Environmental and Waste Management Arrangements

4.1 Environmental management arrangements

4.1.1 The following environmental issues are applicable to this WPP

Environmental Project Control Measures Environmental Consents and	9	I I	
Permits	Environmental Issues	Project Control Measures	Consents and

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y			
	Management of oils and chemicals	 All tanks shall be bunded in accordance with the oil storage regulations. Storage facilities shall be positioned at least 10m away from a watercourse Drip trays shall be used whilst refuelling. Containers shall be fit for purpose, labelled and have proper fitting lids. Containers and tanks shall be made secure against vandalism or theft Refuelling shall take place in a dedicated area at least 10m away from a watercourse. 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 All plant and equipment to be fit for purpose and checked daily 	None required.
	Working within a watercourse	 Site to be signed up to Flood Warning / Alerts for area Local weather forecast to be reviewed If adverse weather forecast works to be reassessed All temporary works to be removed at the end of the shift Readily biodegradable oil to be used in plant and equipment Adequate and sufficient spill kits to be on site / within the working area Biosecurity measures to be adhered to on site Water quality monitoring to be completed during works and recorded on Permit to Work in a Watercourse If water quality changes works to stop and be assessed 	None required.
	Dust, Noise, Odour	Ear defenders and dust masks issued as required.Dust suppression kit to be used when cutting	None required.

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.

concrete or brick

Waste type	How will it be stored?	Testing required prior to disposal	Waste classification	Reuse (R) onsite / Disposal off site (D)
General site waste	Depot skip	Yes / No	Non Haz	D

5 Emergency Arrangements

5.1 Site emergency arrangements

one onergoney arrangements				
Contact	Name or Location	Tel. Number		
Ambulance, Fire	Various	999 (112 from Mobile)		
BT Police	Control Centre	0800 405 040		
Incident Controller	NWR	0141 335 2020		
Gas	Nation Grid	0800 111 999		

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NR Sharps	NR	01904 525 894
Scottish water	Emergency	0845 600 8855
Nearest A & E Hospital	Perth Royal Infirmary	01738 623 311
SEPA	Control Centre	0800 807 060
		24/7/365
Flood line	National Flooding Helpline	0345 988 1188.
Spill response	Addler & Allan	0800 592 827

5.1.1 First aid arrangements

First Aid Kits to be checked prior starting the works

5.1.1.1 The first aid arrangements for this package of work are

First aiders	Name	Qualifications
	TBC	First Aid at Work
Likely injuries associated	Cuts, abrasions, eye injuries, broken bones, sprains	
with this work package	Outo, abradiono, eye mjaneo,	broken bones, sprains
	Equipment	Location

5.1.2 Evacuation arrangements

5.1.2.1 If required, Evacuation will be initiated by Site Supervisor Muster Point – Welfare van

5.1.3 Fire safety arrangements

5.1.3.1 Fire extinguishers to be stationed by Petrol/diesel plant.

5.1.4 Security arrangements

5.1.4.1 Ensure access gates are secured on access/egress.

5.1.5 Summoning emergency services

5.1.5.1 Emergency Services can be summoned by using the Site supervisors Mobile (Location to be agreed within Pre start Briefings on site)

5.1.6 Railway emergency (trains and electrical)

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 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
 - o who you are (Joe Bloggs),
 - o 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

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Ask the person to 'repeat back' the information

The Signaller or ECO shall end the conversation.

5.1.7 Asbestos

5.1.7.1 N/A

5.1.8 Utilities

5.1.8.1 N/A

Work Package Arrangements 6.1 **Site Location** Barnh Branklyn Garden

6.2 Access and Egress

On site vehicles to be parked in such a way that they do not cause obstruction to other road users or pedestrians. Ensure access to vehicles for plant, tools and materials can be undertaken safely if parked next to a live road.

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6.3 Welfare

6.3.1 Welfare Assessment Matrix

No. of		No. of work periods (consecutive shifts, days or nights)							
NO. OI							1	2	>2
Persons	1	2	3	4	5	6			
i ersons							Week	Weeks	Weeks
1	Α	Α	В	В	В	В	В	В	В
2	Α	Α	В	В	В	В	В	С	С
3	Α	Α	В	В	В	В	С	С	С
4	Α	В	В	С	C	С	С	С	С
5	Α	В	В	С	C	С	С	С	С
6	Α	В	В	С	C	С	С	С	С
7	Α	В	С	С	C	С	С	С	С
8	Α	В	С	С	C	С	С	С	С
9	В	В	С	С	C	С	С	С	С
10	В	С	С	С	С	С	С	С	С
11+	C	С	С	С	C	С	С	С	С

KEY

Category A: Transient site. Arrange for sufficient and suitable local facilities to be used. These may be public or private facilities, e.g. NR stations/depots/buildings/signal boxes, garages and shops.

Category B: Transient site. Arrange for suitable and sufficient temporary welfare facilities, e.g. welfare vehicles.

Category C: Non-Transient site. Establish a site cabin with fixed welfare facilities, car parking, traffic management, site access control, etc.

Note 1 The overall travel time to any toilet provision shall be not more than 20 min from the point of work, but ideally within 10 min

Note 2 In certain circumstances local facilities, if suitable, permanently available and by agreement, may be preferable to temporary site welfare facilities.

Welfare facilities to be provided in the form of a Welfare Van. 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.

6.6 First Aid Risk Assessment

THOUTHER TROUTHOUSE						
NR/L2/OHS/00110/F01 - FIRST AID RISK ASSESSMENT						
To be used in conjunction with First Aid at Work business process NR/L2/OHS/00110						
Date:	29/04/20					
Location:	Perth					
Name:	M Cheyne					
Workplace/Activity being assessed:	irs					
1. Injury and Ill Health		POTENTIAL SEVERITY				
Using your knowledge and experience of the	general	1 Minor injury, but no time off work	1			
level of accidents and illnesses suffered by yo	2 Injury causing up to 3 days' absence 1					
undertaking this type of activity, in the asset	3 Injury causing more than 3 days'	1				
environment allocate a value from 1 to 6 fro	m the	absence				

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table on the right:	4 Long-term absence	1
(If necessary, consult accident records and/or staff	5 Single Fatality	1
representatives)	6 Multiple Fatality	1
Potential severity of accident or illness		
,	Insert figure here	6
2. Work Activity Using your knowledge and experience	of the type of activity to be undertaken, all	ocate
an appropriate score from 0 to 5: 0 = no risk, 5= high ris		
NOTE: control measures shall affect your scoring		
On or near the line		0
Working at height		3
Hazardous chemicals		3
Manual handling		3
Electrical		0
Cutting equipment		3
Plant machinery		0
Working at night		0
Any additional hazardous work activity e.g. dealing with		
(please score as instructions above and name activity be	 	
	Insert TOTAL figure here	
	insert romaging here	12
3. Number of people working at workplace or site of	Lone worker (5)	
work	2 to 50 (3)	
(pick most typical figure)	51 and above (5)	
	Insert figure here	
	V (5)	3
4. Vulnerable Individuals Are there inexperienced	Yes (5)	_
workers or people with disabilities or health problems? (assume yes if you do not know the group e.g.	No (1)	_
Contractors, public)	Land Company	
contractors, publicy	Insert figure here	1
5. Remoteness	8 minutes (1)	
5.1 Likely response time for emergency services to	30 minutes (3)	
arrive on scene of incident?	Over 30 minutes (5)	
(pick most typical figure)		
	Insert figure here	3
5.2 Has a suitable road vehicle access point for	Yes (1)	
evacuation been identified at the planning stage?	Moving worksite (3)	1
(pick most typical figure)	No (5)	
	Insert figure here	

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available at the workplace or site of work, with coverage? (pick most typical figure) Add the numbers you have inserted in the summary boxes for sections 1 – 5 to determine risk level from the Table below. Then use the table on Page 2 of this form for the suggested minimum level of provision for the severity level identified. Table: Low Severity 1 - 1.8 Medium Severity 1 - 1.8 Minimum number of first aid personnel on duty at all times Table: Number of miployees Minimum number of first aid personnel on duty at all times The following factors may affect provision At least 1 Emergency First Aid at Work first aider for every 50 employees More than 50 At least 1 First Aid at Work first aider for every 50 employees More than 25 At least 1 Emergency First Aid at Work first aider for every 25 employees. More than 25 At least 1 Emergency First Aid at Work first aider for every 25 employees. More than 25 At least 1 Emergency First Aid at Work first aider for every 25 employees. More than 25 At least 1 Emergency First Aid at Work first aider for every 25 employees. More than 25 At least 1 Emergency First Aid at Work first aider for every 25 employees. At least 1 Emergency First Aid at Work first aider for every 25 employees, depending on the type of injuries that might occur High Severity 2 - 24 At least 1 Emergency First Aid at Work first aider for every 25 employees, depending on the type of injuries that might occur High Severity 2 - 24 At least 1 Emergency First Aid at Work first aider for every 25 employees, depending on the type of injuries that might occur Workplace or service of work shifts or out of hours working for needs of contractors working for work shifts or out of hours emergency		- ·	ile telephone comm			n		Yes (1)			
Add the numbers you have inserted in the summary boxes for sections 1 – 5 to determine risk level from the Table below. Then use the table on Page 2 of this form for the suggested minimum level of provision for the severity level identified. Table:		·	lace or site of work,	with				Usually (3)			
Add the numbers you have inserted in the summary boxes for sections 1 – 5 to determine risk level from the Table below. Then use the table on Page 2 of this form for the suggested minimum level of provision for the severity level identified. Table:		•									
Add the numbers you have inserted in the summary boxes for sections 1 – 5 to determine risk level from the Table below. Then use the table on Page 2 of this form for the suggested minimum level of provision for the severity level identified. Table:	(pic	rk most typicai jigui	re)								1
level from the Table below. Then use the table on Page 2 of this form for the suggested minimum level of provision for the severity level identified. Table:								Insert figure here	+		
Insert OVERALL score here 27	Add	the numbers you	have inserted in the	sum	mai	ry b	ОХ	\cos for sections 1 – 5 to determine r	isk		
Table: Low Severity 1 - 18						Pag	e 2	2 of this form for the suggested mir	nimu	m	
Low Severity	leve	el of provision for t	he severity level ide	ntifie	d.						
Medium Severity 19 - 30		<u>Table:</u>									
High Severity At least 1 Emergency First Aid at Work first aider for every 50 employees More than 25		Low Severity	1 - 18								
Insert OVERALL score here 27		Medium Severity	19 - 30								
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At least 1 First Aid at Work first aider for every 25 employees, depending on the type of injuries that might occur At least 1 Emergency First Aid at Work first aider or out of hours • The needs of contractors working for Network Rail • Workplace or site of work remote from				_		r					
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depending on the type of injuries that might occur High Severity 2 - 24 At least 1 Emergency First Aid at Work first aider working for Network Rail • Workplace or site of work remote from											
High Severity 2 - 24 At least 1 Emergency First Aid at Work first aider Network Rail Workplace or site of work remote from							-				
High Severity 2 - 24 At least 1 Emergency First Aid at Work first aider • Workplace or site of work remote from										_	
first aider remote from	Hig	h Severity	2 - 24		_						
		- ,						• •			
											-

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More than 25	At least 1 First Aid at Work first aider for every 25 employees, depending on the type of injuries that might occur	services • Types of injuries that can occur with activity
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PLEASE NOTE – First aiders working in high severity environments may require additional training or first aid equipment. More information can be found in the First Aid at Work business process NR/L2/OHS/00110

FIRST AID CHECKLIST (To be documented and used locally)

The minimum first aid provision for each workplace or worksite is;

- a) a person appointed to take charge of first aid arrangements;
- b) a suitably stocked first aid kit; and
- c) Information for all employees on what to do in an emergency situation.

LOCATION				
DATE				
INSPECTED BY				
Items to consider		Ti	ck	Notes and remedial action
		YES	NO	
First aid personnel				
	irst aiders for the workplace/worksite? First Aid Risk Assessment)			
	d person or designated first aider arge of first aid arrangements and the gency services?			
Are refresher trainin	g and recertification records up to date?			
First aid information	on			
Has the first aid arra	ingement notice been reviewed and tyear?			
Is it clearly displayed Board?	d on the Health and Safety Notice			
Is the information co	ntained in it correct and up to date?			
First aid equipmen	t			
	cessible and prominently displayed?			
	et the minimum suggested requirements NR/L2/OHS/00110?			
Are the first aid kit c	ontents in date and in good condition?			

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If appropriate, is the Automated External Defibrillator (AED) accessible and prominently displayed?	
Is the AED in good working order, including within expiry dates and with sufficient battery charge? (refer to manufacturer's guidance for further information)	
Have any faults or concerns been reported for action?	
Accident reporting	
Are accidents being correctly reported on and reviewed with regards to first aid information? (NR/2072P form via intranet)	



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Control of activity risks

The table identifies particular hazards and risks that may be present during the works. Toolbox talks will be given where on these risks are deemed necessary but at a rate of not less than one per week. Weekly site audits will be undertaken by the Site Supervisor / Site Manager.

PREPARED BY: M Cheyne		DATE PREPARED: 29/04/20			LL RISK	
SEVERITY			PROBABILITY	RISK		
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			

	Applicable Tasks
1.	Scour repairs
2.	
3.	
4.	

Hazard	Hazard outcome	s	Р	Initial	Risk control measures	Residual	Applicable Tasks			6
				risk		risk	1	2	3	4
Starting Works	Reportable or minor Incident	3	3	9	 The site supervisor is to undertake a hazard review on site prior to works commencing to ensure that the WPP and SWP are reflective of the conditions and hazards at site. This is to include walking routes to/from the site and at place of works. All information to be recorded on POWRA. Site Supervisor to brief any extra control measures and how they will be implemented and maintained. 	3	✓			
Workings	Reportable or minor Incident	3	3	9	 5day SMSTS/SSSTS supervisor on site at all times All activities recorded in daily diary All workings supervised at all times Weekly Site Managers inspection carried out 	3	✓			
Slips trips and falls	Reportable or minor Injury	3	3	9	 Care to be taken when walking on site, Steel toe cap boots must be worn at all times Site Supervisor to ensure site is cleared on a regular basis and the end of each shift. 	3	√			
Slips trips while wearing wellington boots	Reportable or minor Injury	3	4	12	 Wear correct size of boots. Ensure treads are not worn. Steel toe capped and steel shanked mid-sole. 	2	✓			

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Hazard	Hazard outcome	s	Р	Initial	Risk control measures	Residual	A	pplicab	le Task	s
				risk	 Don't drive with them on. Not perished. Stored in the proper manner ie standing up away from oil, grease and fuel. Make sure worn on correct feet. 	risk	1	2	3	4
High street environment works	Major or minor injury	5	4	20	 Depending on the location of the works, segregation by either traffic cones with hazard warning tape or pedestrian barriers and Heras panels may be required. Supervisor to check measures are adequate for the works to be carried out safely. Men at work signs to be placed either side of the works. Man to be positioned to escort pedestrians passed the works to ensure their safety. Stop works if required. 	4	√			
Working in/adjacent to or over water	Reportable or major Injury	5	4	20	 Awareness of hazardous flora and fauna. Correct PPE. Use of insect repellents. Adherence to Weill's Disease procedures. Secure working platform. Emergency preparedness and fall recovery procedure. Trained first aiders. SEPA informed if required. Permit to work in watercourse. If working in water, a means of rescue to be determined and briefed to the workforce. 	4	✓			
COSHH <mark>(HRA –</mark> HS39)	Reportable or minor Injury	3	4	12	COSHH data on site for COSHH items Task Specific PPE worn at all times when handing COSHH Items	3	✓			

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Hazard	Hazard outcome	s	Р	Initial	Risk control measures	Residual	Ą	plicabl	e Task	s
				risk		risk	1	2	3	4
					 Harmful substances to be used as per Manufacturers recommendations COSHH items stored off site when not in use Operatives to be equipped with task specific PPE at all times whilst using COSHH items 					
Falls from height	Reportable or Major Injury	5	4	20	 The Site Supervisor will produce a Permit to Work at Height. Work at height permit to be granted before any works at height commence. Equipment certification to be with equipment and checked prior to use. Condition of equipment to be assessed prior to use. Alloy towers to be set up by PASMA trained competent operatives. Keep working platform clear of trip hazards. 	5	√			
Falling debris	Reportable or Major Injury	4	4	16	 Exclusion zone to be established around work area where works at height are being undertaken. Work at height operative to be aware of where material is being deposited. No plant, vehicle or operative access into exclusion when overhead works are being undertaken. When working off scaffold keep working platform clear of debris and tools 	4	√			
Use of Small tools	Reportable or minor Injury	3	4	12	 Operators must be trained and competent. Impact goggles/face shield to be worn at all times. Inspect plant and equipment before use and take damaged sections out of use and seek replacements. 	3	√			

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Hazard	Hazard outcome	s	Р	Initial	Risk control measures	Residual	Αp	plicable	e Task	s
				risk		risk	1	2	3	4
Operating Small Plant and tools Angle grinders (HRA – HS40)	Reportable or major Injury	4	3	12	 Operators must be trained and competent. Impact goggles/Face shield to be worn at all times. When using angle grinder Kevlar armlets and mesh protective gloves to be worn. Inspect plant and equipment before use. Report faults to Site supervisor. Take damaged plant out of use. Guards to remain in place where fitted to tools. Use HAVS register to record time on equipment. Wearing of gloves and correct PPE for the task. Maintenance of tools. Rotation of workforce to reduce exposure times. 	4	*			
PPE	Reportable or minor Injury	3	3	12	 Correct PPE to be worn at all times. Protective glasses to be worn at all times. Task specific PPE will be used as required. PPE should be clean and fit for use 	3	~			
HAVs	Reportable or minor Injury	3	4	12	 Site Supervisor to record Trigger times. Take regular breaks, rotate the task. Inspect plant and equipment before use and take damaged sections out of use and seek replacements. 	3	~			
Manual Handling	Reportable or minor Injury	4	3	12	 Check access route before works commence for uneven ground or obstructions. Assess the load before lifting. Seek help for awkward shaped items of for carrying over long distances. 	4	~			
Access and egress (HS66)	Reportable or minor Injury	3	3	9	 Note of tide time to be maintained as tide comes in very quick at this location. Temporary access stairs to be installed to get down river bank safely. 	3	✓			

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Hazard	Hazard outcome	s	Р	Initial	Risk control measures	Residual	Ap	plicabl	e Task	s
				risk		risk	1	2	3	4
					 Supervisor to assess access for suitability. Remove trip hazards to ensure safety of workforce If working during hours of darkness ensure access is adequately illuminated. Access track via approved access points. 					
Working or accessing worksite on slippy ground	Reportable or minor injury	3	4	12	 Eliminate condition where possible. (Dry sand, salt, grade out uneven land, drain off standing water.) Extra care particularly on slopes. Adequate Safety Footwear to be worn at all times. Remove trip obstructions. 	3	√			
Working or accessing worksite on inclined ground	Reportable or minor injury	3	4	12	 Identify alternative access. Identify safe working locations. Consider installing steps, safety barriers or fall protection. Secure plant and equipment from slipping. Additional care on grassed areas which can be slippery and loose ground. Adequate Safety Footwear to be worn at all times. 	3	√			
Leptospirosis	Reportable or Major injury	3	3	9	 Gloves to be worn at all times. Wash hands before eating, drinking and or smoking. Report to Doctor if flu like symptoms persists. 	3	✓			

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Hazard	Hazard outcome S	S P	Initial	Risk control measures	Residual	Applicable Tasks				
		risk		risk	1	2	3	4		
Sharps/Hypodermic needles	Reportable or Major injury	3	2	6	 Keep clear until such times as area is cleaned of all sharps/needles. Encourage the wound to bleed, prevent further contamination. Report to hospital, taking offending sharp with patient. Contact the Local Authority Environmental Health Department to get them removed. Report to NWR via Route Control – 0141 335 2775. Highlight area with spray paint. 	3	~			
Hygiene (HS55)	Illness, weils disease	3	2	6	 Welfare van available for shelter, place to rest and eat during breaks Welfare van to be kept clean and tidy at all times All site personnel to use site facilities and under no circumstances will food or drink be consumed on site. Rubbish disposal points and regular removal from site. 	3	✓			
Injury	Illness, cuts, falls	3	2	6	 Appointed Person on site (3day First Aid) First aid kit located within welfare van List of First Aiders in Job Pack A&E Hospital route and location map in Job Packs. All details included in site inductions. 	3	√			

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Works Delivery Scotland - Slip Trip & Fall Map **Good Practice Guide**

General Guidance

- Workplace conditions change frequently and this leads to unidentified hazards appearing
- Regular and repeated identification of hazards specific to a site and the subsequent briefing of these issues is advantageous to site safety and will reduce the impact of such

Pre - Site Inspections

- Pre-site inspections present an ideal opportunity for the identification of hazards and provide the potential for the removal of anything that presents a STF hazard.
- Hazards identified should be listed above, so that an appropriate control measure is undertaken and briefed to the workforce on site.

Access Points

- Are they fit for purpose, look for
- Damaged / Missing steps & handrails
- Are they free from vegetation
- What lighting is required to illuminate them

Scrap Management at Depots / Access pts / On site

Is there a need to

- Demarcate the area by fencing
- Highlight the area e.g. additional lighting / painting
- Remove excess or discarded materials
- Remove fly tipped materials

Walking routes

- Are they free from vegetation?
- What lighting is required to illuminate them

Work Impact on walking / working surfaces

- What waste will be produced where will this be stored workforce been briefed
- Tools and equipment to be used returned to bogey (storage area)
- Work area illuminated prior to work commencing
- Trailing cables from lighting generators etc.
 Lineside furniture S & T/OHL bonds/cables AWS Magnets
- Catch pit lids are they marked lid secure not damaged require to be fenced off. Troughing lids secure not left as a hazard on site
- UTX chambers secured marked
- Test holes on site to be filled marked
- Rails left on site can they be moved relocated
- High ballast shoulders
- Wildlife rabbit holes
- Open drains marked on site
- Lifting / moving equipment team lifting 1 x person to control the lift check area and route moving equipment is to take to ensure it is free from hazards that could be moved, workforce briefed on others

Weather

- How the weather may affect the conditions at the access and worksite.
- Snow & Ice removal from access points grit and shovels available
- PPE required wellingtons ice grips use

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Works Delivery Scotland - Slip Trip & Fall Map

Name		Date	
Risk Mapping Diag	gram	_	
Workplace / Locati		-	
Key 1	Hazard	Controls	
2			
3			
4			
5			
7		1	
8			
9			
10			
11			

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