

# RISK ASSESSMENT



DESCRIPTION OF WORK: **MOBILE OPERATED PLANT & VEHICLES**

Page 1 of 2

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HAZARD                                                                                | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                              | RISK after controls |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Site use of mobile operated plant & vehicles, either wheel mounted or tracked crawler types including but not limited to: <ul style="list-style-type: none"> <li>• 180° or 360° Excavators</li> <li>• Excavators with specialist buckets and attachments (e.g. demo poles, shears, pulverisers, crushers, munchers, grabs, grapples, impact breakers)</li> <li>• Dumpers &amp; dump trucks</li> <li>• Tractors</li> <li>• Graders</li> <li>• Processing plant</li> <li>• Drill rigs</li> <li>• Front loaders &amp; shovels</li> <li>• Tipper wagons</li> <li>• Delivery vehicles</li> </ul> | All mobile plant & vehicle operations                                                 | H                    | Operators to hold a current training certificate and have relevant experience for the plant or vehicle they will be operating.                                                                                                                                                                                                                                                                                         | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hazards to other site personnel who may be in the vicinity of mobile plant activities | H                    | Set up exclusion zones or use a banksman if necessary, to keep people away from plant / vehicle operating & turning areas. Use the 'thumbs up' procedure to indicate safe movement of plant & vehicles, or before approaching. Good communication required between drivers and banksman using hand signals or 2-way radios. All personnel in the area of plant / vehicle movements must wear high visibility clothing. | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Overloading of mobile plant                                                           | H                    | Select plant that is suitable & capable for the intended purpose. Plant to be maintained in good condition, tested and inspected for compliance with statutory requirements. Know the safe limits and capabilities of the plant and do not exceed them. When other attachments are used, re-assess the weight/load. Refer to the operators' manual if you are unsure.                                                  | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Contact with live cables and other services - underground and overhead                | H                    | All known live services to be identified before any works take place. Obtain & refer to service plans. Scan the area. Where necessary use goal posts to protect overhead services with the SWH displayed on signs. Expose underground services where possible (vac ex or hand). Use permit to work system if required - refer to conditions for their use outlined on the permits.                                     | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Uncontrolled or inadvertent movement of mobile plant                                  | H                    | When unattended, mobile plant should have the parking brake applied, the ignition switched off or isolated and the key removed                                                                                                                                                                                                                                                                                         | L                   |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:

SITE MANAGER

DATE:

PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



### DESCRIPTION OF WORK: MOBILE OPERATED PLANT & VEHICLES

Page 2 of 2

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HAZARD                                                                                                    | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                      | RISK after controls |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p><i>Cont'd</i><br/>Site use of mobile operated plant &amp; vehicles, either wheel mounted or tracked crawler types including but not limited to:</p> <ul style="list-style-type: none"> <li>• 180° or 360° Excavators</li> <li>• Excavators with specialist buckets and attachments (e.g. demo poles, shears, pulverisers, crushers, munchers, grabs, grapples, impact breakers)</li> <li>• Dumpers &amp; dump trucks</li> <li>• Tractors</li> <li>• Graders</li> <li>• Processing plant</li> <li>• Drill rigs</li> <li>• Front loaders &amp; shovels</li> <li>• Tipper wagons</li> <li>• Delivery vehicles</li> </ul> | Overturning of mobile plant & vehicles                                                                    | H                    | Plant fitted with ROPS (Roll over protection structure) will be the preferred option. Identify steep gradients, unstable ground and leading edges on site and prevent encroachment.                                                                                                                                                            | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mobile plant & vehicles falling into holes, excavations, voids or cellars, or overturning on steep ground | H                    | Assess ground conditions for suitability for mobile plant operation. Identify voids, leading edges, steep gradients and unstable ground on site and prevent encroachment. Use physical barriers, edge protection or vehicle stops if necessary. Keep to designated haul routes. Mobile plant will not be allowed near to unsupported trenches. | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Persons falling from mobile plant                                                                         | H                    | The carrying of passengers will not be allowed unless designed specifically by the manufacturer. Seat belts must be worn by all users, with green beacons operational where fitted.                                                                                                                                                            | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Noise - Hazard to hearing                                                                                 | M                    | <i>Refer to separate risk assessment for 'General Noise'.</i>                                                                                                                                                                                                                                                                                  | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Flying fragments of debris affecting other persons                                                        | M                    | To safeguard against flying debris the site will be contained as far as is practicable, personnel will be kept away from plant operation by use of a banksman or exclusion fencing.                                                                                                                                                            | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Debris falling onto the machine and cab.                                                                  | M                    | Plant fitted with ROPS (Roll over protection structure) will be the preferred option where appropriate. Excavators will have grilles or similar fitted to protect the windscreen and roof lights. Tipper wagon and dump truck drivers to remain in protected cab when being loaded                                                             | L                   |

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DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:

SITE MANAGER

DATE:

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## RISK ASSESSMENT



### DESCRIPTION OF WORK: SITE SURVEYING (NON-REMOTE)

Page 1 of 2

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                    | HAZARD                                                                                    | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RISK after controls |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Survey personnel operating in shared construction space.<br><br><b>NOTE:</b> Surveyors focus will be on tasks and may be less aware of the surrounding environment | Hazards when performing site walkovers                                                    | H                    | Refer to task risk assessment ' <i>Site Visits and Site Walkovers</i> '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | L                   |
|                                                                                                                                                                    | Survey personnel being unaware or unfamiliar with the work activities and hazards on site | H                    | Survey personnel to report to site manager upon arrival to discuss areas to survey and receive briefing of current site hazards and activities before commencing survey.<br><br>Survey personnel to attend the daily morning briefings and toolbox talks if on site when these occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L                   |
|                                                                                                                                                                    | Survey personnel being struck by mobile plant or vehicles.                                | H                    | Set up exclusion zones or use a banksman if necessary, to ensure segregation of survey team / pedestrians and plant & vehicle operating & turning areas.<br><br>If you need to approach plant or vehicles, only do so when it is idle – engage visual or verbal communication with the operator and wait for them to give you a signal that it is safe to approach. Use the 'thumbs up' procedure to indicate a safe condition.<br><br>Good communication required between survey team and banksman / plant operators using hand signals or use of 2-way radios.<br><br>All pedestrian personnel on site must wear high visibility clothing at all times<br><br>In areas of high traffic movements survey team to be accompanied by banksman or non-working surveyor to ensure situational awareness is maintained. | L                   |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

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SITE MANAGER

DATE:

# RISK ASSESSMENT



## DESCRIPTION OF WORK: SITE SURVEYING (NON-REMOTE)

Page 2 of 2

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                             | HAZARD                                                                                                                             | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                  | RISK after controls |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p><i>Cont'd</i><br/>Survey personnel operating in shared construction space.</p> <p><b>NOTE:</b> Surveyors focus will be on tasks and may be less aware of the surrounding environment</p> | Slips, trips and falls                                                                                                             | H                    | <p>Survey personnel to exercise caution and monitor the ground conditions when transiting site.</p> <p>Take extra care when working on slopes, stockpiles or near excavations and leading edges - remain min. 2m from leading edges where possible. If this is not possible, additional fall prevention measures may be required – speak to your supervisor</p>                                                                                                            | L                   |
|                                                                                                                                                                                             | Walking into hazardous areas                                                                                                       | H                    | Survey personnel are not to 'walk and work' i.e. where the persons focus will be on the survey instruments and they may be less aware of the surrounding environment. Survey readings are only to be taken when stationary, including setting out.                                                                                                                                                                                                                         | L                   |
|                                                                                                                                                                                             | Service Strikes                                                                                                                    | H                    | <p>Refer also to task risk assessment '<b>Live Services on Site</b>'</p> <p>If breaking ground when marking out setting out points (i.e. installing pins or pegs) assess the condition of the ground and whether it has been disturbed recently to determine the potential for services being present. If this is uncertain in any way, service location procedures are to be followed. Avoid steel or metal pins where possible - wood pegs are preferred to be used.</p> | L                   |
|                                                                                                                                                                                             | Overhead services & cables – electrocution from electric cables; damage to services by collision or snagging with survey equipment | H                    | <b>LOOK OUT! LOOK UP!</b> Stop and assess before surveying beneath or within 6m of overhead services. Obtain safe stand-off distances and safe working heights. Do not allow yourself or the survey equipment to breach the safe zones                                                                                                                                                                                                                                     | L                   |

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# RISK ASSESSMENT



## DESCRIPTION OF WORK: SITE VISITS AND SITE WALKOVERS

Page 1 of 2

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HAZARD                                                                                                                                                                                                              | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                   | RISK after controls |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p>Site visits and site walkovers for observational purposes:</p> <p><i>If the site is vacant, speak to the landowner or the agent for permission to enter site and ask them to provide you with any information you may need to visit site safely, e.g. any specific hazards or precautions to take? Where is the safe access point? Are there any no-go areas?</i></p> <p><i>If the site is occupied or operational, ensure you report to site management or security control, sign-in if required to do so, and you receive a safety briefing, such as a site induction, including site rules and emergency procedures. Observe and adhere to instructions given by the site management team.</i></p> | General                                                                                                                                                                                                             | H                    | Site visitors should have basic health & safety awareness training and hold current CSCS card. Wear appropriate clothing and footwear for the conditions on site and underfoot. PPE will be required if the site is operational – minimum required generally is hard hat, hi-vis vest and safety boots, but check with site management team.                                                | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unfamiliarity with ground conditions and features on site                                                                                                                                                           | H                    | If the site is vacant, derelict or unoccupied, assess access points and the route ahead as far as possible. Do not rush and do not run.                                                                                                                                                                                                                                                     | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Derelict structures                                                                                                                                                                                                 | H                    | Assess the condition of access, floors, steps / stairs, walls, ceilings, roofs and levels of available light before entering – <b>DO NOT ENTER</b> unless it is safe, and you can see sufficiently.<br>No entry into any structure whilst it is being demolished.                                                                                                                           | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Hazards when walking, potential for causing slips, trips or falls – covered voids, unstable walk areas (floors, covers, steps etc. that may be weak from damage or deterioration), standing water, dense vegetation | M                    | Avoid unstable, weak, soft, wet or uneven ground. Keep to 'beaten tracks' and formed paths where possible. Standing water may be deeper than it looks or hide a flooded void beneath the surface. Dense vegetation could hide voids, leading edges etc.<br>Test the condition of the 'path' with an object before bearing your own weight onto it. <b>DO NOT PROCEED</b> unless it is safe. | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Biological hazards (needles, faeces, bird droppings), contaminated soils, liquids and hazardous materials                                                                                                           | M                    | Such hazards may be present within containers, the fabric of structures, loose on the ground, buried in soils etc. Do not touch, disturb or damage such items or areas                                                                                                                                                                                                                      | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Attack from wildlife, insect bites & stings – allergic reaction                                                                                                                                                     | M                    | Maintain vigilance and be aware of potential to disturb habitats or insect nests, or startle wildlife                                                                                                                                                                                                                                                                                       | L                   |

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## DESCRIPTION OF WORK: SITE VISITS AND SITE WALKOVERS

Page 2 of 2

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | HAZARD                                                                                                                                                                                                                                | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                       | RISK after controls |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p><i>Cont'd</i><br/>Site visits and site walkovers for observational purposes:</p> <p><i>If the site is vacant, speak to the landowner or the agent for permission to enter site and ask them to provide you with any information you may need to visit site safely, e.g. any specific hazards or precautions to take? Where is the safe access point? Are there any no-go areas?</i></p> <p><i>If the site is occupied or operational, ensure you report to site management or security control, sign-in if required to do so, and you receive a safety briefing, such as a site induction, including site rules and emergency procedures. Observe and adhere to instructions given by the site management team.</i></p> | Lone visits or walks around site (applies to both occupied and unoccupied sites)                                                                                                                                                      | M                    | Prior to walking around a site on your own, let someone know of your movements and anticipated duration. Also arrange 'checking-in' calls with them in an agreed timeframe.                                                                                     | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Distractions causing you to be unaware of hazards on site                                                                                                                                                                             | M                    | Stay alert and vigilant. Avoid using mobile phones and other personal electronic devices whilst walking around site – tablets, headphones etc. If these are to be used (e.g. for lone site visits) find a safe place away from any activity.                    | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Activities occurring on site, such as mobile plant and vehicle operations:<br>Pedestrians in close proximity can be severely or fatally injured due to collision, impact or being in the line of fire of the fallout of the operation | VH                   | Observe the site traffic management plan and plan your route across site - know where the pedestrian routes are, likewise, know where plant & vehicle working areas and traffic routes are.                                                                     | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |                      | Keep to designated pedestrian routes, respect exclusion zones and keep away from plant / vehicle operating & turning areas.                                                                                                                                     |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |                      | If you need to approach plant or vehicles, only do so when it is idle – engage visual or verbal communication with the operator and wait for them to give you a signal that it is safe to approach. Use the 'thumbs up' procedure to indicate a safe condition. |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |                      | All personnel on active sites must wear high visibility clothing.                                                                                                                                                                                               |                     |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:  
SITE MANAGER

DATE:

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



| DESCRIPTION OF WORK: <b>LIVE SERVICES ON SITE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
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| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HAZARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RISK after controls |
| <p><b>All site works including but not limited to:</b></p> <p>Excavations<br/>Breaking ground<br/>Soft strip<br/>Structural demolition<br/>Working at height<br/>Plant movements<br/>Vehicle movements<br/>Investigations / inspections, both intrusive and non-intrusive</p> <p><b>Use of vehicles, plant and equipment capable of extending, reaching or imposing a force further, higher or deeper, including but not limited to:</b></p> <p>Excavators, dozers, dumpers<br/>Cranes (including Hiab's)<br/>Vehicles, wagons &amp; tippers<br/>MEWP's, scaffold, towers<br/>Drilling, probing &amp; piling rigs<br/>Surveying equipment</p> | <p><b>MAIN SERVICES WHICH COULD EXIST ON SITE:</b></p> <ul style="list-style-type: none"> <li>ELECTRIC</li> <li>GAS</li> <li>WATER</li> <li>TELECOMS</li> <li>PUBLIC SEWERS</li> </ul> <p><b>The presence of LIVE services</b>, whether below or above ground, or overhead, may affect or be affected by site works.</p> <p>Contact with or close proximity to <b>live</b> services by personnel, portable tools, mobile plant, vehicles etc. can cause death, severe harm and damage, as a result of the following, although this is not exhaustive:</p> <ul style="list-style-type: none"> <li>Electrocution</li> <li>Electric shock</li> <li>Asphyxiation</li> <li>Gassing</li> <li>Explosion</li> <li>Fire</li> <li>Burns</li> <li>Flooding</li> <li>Drowning</li> <li>Disease</li> <li>Chemical burns</li> </ul> | VH                   | <p><b>THE PRESENCE AND STATUS OF EXISTING SERVICES SHOULD BE KNOWN PRIOR TO WORKS COMMENCING. CLIENT TO PROVIDE UP TO DATE SERVICES INFORMATION e.g. UTILITY PROVIDERS PLANS</b></p> <p>Services info to be reviewed and on-site inspection of affected areas to identify the presence of any potential services. On-site inspection to include a CAT &amp; Genny survey carried out by a trained operator.</p> <p>Evidence of potential services can be indicated by features on site being present e.g. marker posts, valve boxes, stop taps, inspection chambers, meter houses, distribution poles, feeder pillars, surface scars, pipe entry points, conduits etc.</p> <p>Subject to the findings, utility authorities may be contacted together with the PC or Client, to determine any specific requirements according to the type of services involved.</p> <p>Expose services to identify their precise location if required – use vac ex or hand dig with insulated tools. Whenever practicable, physical isolation of services should be carried out by a qualified person.</p> <p>For overhead services, safe clearance margins and working heights are to be obtained and implemented on site.</p> <p>Any services retained and remaining live will be clearly identified on site with signs, cones, barriers etc. Works and access will be excluded from live service areas unless safe methods, controls and procedures have been written and are implemented</p> <p>If there is <b>ANY DOUBT</b> on safety near services, <b>DO NOT PROCEED.</b></p> | L                   |
| COMPILED BY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PAUL CHALLINOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DATE:                | 8 <sup>TH</sup> JAN 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | REVIEWED BY:        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SITE MANAGER        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DATE:               |

PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



| DESCRIPTION OF WORK: EXCAVATIONS & OTHER SUB-SURFACE VOIDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |
| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | HAZARD                                                                                                  | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                        | RISK after controls |
| Excavations and other sub-surface voids present on site including but not limited to: <ul style="list-style-type: none"> <li>Earthworks</li> <li>Sub-surface structures such as tanks, basements, mineshafts, manholes etc. being present</li> <li>Construction of new sub-surface structures such as tanks, foundations, basements, manholes etc.</li> <li>Site investigations e.g. trial pitting</li> <li>Exposure or removal of sub-surface or partially buried items e.g. contaminated soils, invasive plants, tanks, foundations, basements, manholes etc.</li> </ul> | Contact with underground services or nearby structures, causing damage or instability                   | H                    | Refer also to separate risk assessment ' <i>Live Services on Site</i> '.<br>Obtain and review plans and records to identify and determine the presence of existing structures. An on-site inspection should also be carried out to identify evidence of existing structures, both known and unknown.<br><br>Use <b>PERMIT TO DIG</b> for excavations close to known existing structures or services                              | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Falls from height – persons, plant & equipment falling into the void                                    | H                    | Ensure leading edges are suitably protected with a physical and visible barrier – set barriers back from leading edge to prevent imposed loads causing collapse to the sides of the void. Use stop blocks or bunds to provide a physical drive barrier for mobile plant working near excavations & voids.                                                                                                                        | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Persons within the void – being struck by falling objects, entrapment, crushing, asphyxiation, drowning | VH                   | Persons <b>SHOULD NOT</b> enter excavations & voids unless it is safe to do so and there are safe means of access and egress. Certain voids may be classified as a <b>CONFINED SPACE</b> which is forbidden for entry on McAuliffe sites.                                                                                                                                                                                        | L                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Collapse of excavations                                                                                 | H                    | Excavations should be adequately supported using proprietary support systems (trench boxes, sheet piles etc.) or the sides battered back / benched at a safe angle of repose for the classification of material.<br><br>Avoid imposed loads being applied to excavation sides by keeping plant and materials away from the edge.<br>Prevent erosion of the excavation sides by directing surface water away from the excavation. | L                   |

|              |                |       |                          |              |  |       |  |
|--------------|----------------|-------|--------------------------|--------------|--|-------|--|
| COMPILED BY: | PAUL CHALLINOR | DATE: | 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: |  | DATE: |  |
|              |                |       |                          | SITE MANAGER |  |       |  |

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



| DESCRIPTION OF WORK: MATERIAL STOCKPILES                                  |                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH                    |                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |
| TASK / JOB COMPONENT / ACTIVITY                                           | HAZARD                                                                                | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RISK after controls |
| Mobile plant overturning when forming, accessing or working on stockpiles | Loose material presenting unstable surfaces                                           | H                    | Once tipped, place loose materials into position with tracked earthmoving plant. Use buckets and blades to form and shape the material. Track-in to compact materials evenly, removing isolated and occasional 'soft' spots                                                                                                                                                                                                                                                                                                                                                              | L                   |
|                                                                           | Steep gradients                                                                       | H                    | As the stockpile grows, form an access ramp at one end - ramp to have shallow gradient based on a safe gradient for the type of plant that is accessing the stockpile. Typical safe gradients for travelling directly up or down are as follows: <ul style="list-style-type: none"> <li>- 5t – 9t forward tipping dumper: max 1 in 5</li> <li>- ADT dump truck: max 1 in 5</li> <li>- 360° tracked excavator: max 1 in 3</li> <li>- Tracked dozer – D6 type: max 1 in 3</li> </ul> Refer also to manufacturers operator's manual if required<br>Do not travel across gradients (slopes). | L                   |
|                                                                           | Leading edges – safeguards required if wheeled plant access the stockpile             | H                    | As the stockpile is formed, some tipped material will be used to form stop bunds along the sides of the access ramp and at the tip point. Dumpers to approach the tip point by leading with the discharge end of the skip / body.                                                                                                                                                                                                                                                                                                                                                        | L                   |
| Working on existing stockpiles                                            | Uncertainty of stockpile construction – possible issues of unstable or loose material | M                    | 360° tracked excavator to be used to 'test' stockpile areas for stability using bucket to apply load prior to bearing weight.<br>Form access ramp at one end to access stockpile – see above<br>Form sides battered at safe angle – 1 in 3 and seal up if required<br>Form working face slope battered at safe angle and seal up as works progress                                                                                                                                                                                                                                       | L                   |

|              |                |       |                          |              |  |       |  |
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| COMPILED BY: | PAUL CHALLINOR | DATE: | 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: |  | DATE: |  |
|              |                |       |                          | SITE MANAGER |  |       |  |

PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



| DESCRIPTION OF WORK: <b>SAMPLING MATERIALS</b>               |                                                                                                         |                      |                                                                                                                                                                                                                                                                                                                |                     |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH       |                                                                                                         |                      |                                                                                                                                                                                                                                                                                                                |                     |
| TASK / JOB COMPONENT / ACTIVITY                              | HAZARD                                                                                                  | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                      | RISK after controls |
| Sampling soils and other materials during site investigation | Contact with contaminated soils                                                                         | M                    | Use stainless steel sampling trowel where possible to minimise the potential for contact<br><br>Use nitrile gloves at all times when working with or sampling stockpiled soils from trial pit                                                                                                                  | L                   |
|                                                              | Falls from height – persons, plant & equipment falling into the void                                    | H                    | Ensure leading edges are suitably protected with a physical and visible barrier – set barriers back from leading edge to prevent imposed loads causing collapse to the sides of the void<br><br>Use stop blocks or bunds to provide a physical drive barrier for mobile plant working near excavations & voids | L                   |
|                                                              | Persons within the void – being struck by falling objects, entrapment, crushing, asphyxiation, drowning | VH                   | Persons <b><i>SHOULD NOT</i></b> need to enter excavations & voids as sampling should be conducted from stockpiled materials at ground level only                                                                                                                                                              | L                   |
|                                                              | Collapse of excavations                                                                                 | H                    | Avoid imposed loads being applied to excavation sides by keeping plant and materials away from the edge.<br><br>Prevent erosion of the excavation sides by directing surface water away from the excavation.                                                                                                   | L                   |

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PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



### DESCRIPTION OF WORK: SLIPS, TRIPS & FALLS

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                     | HAZARD                                                            | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                   | RISK after controls |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p>Walking around the work area</p> <p>Most accidents in the workplace occur when operatives are walking around the work area or carrying loads</p> | Spillages, wet floor conditions – slip hazards                    | M                    | Clean up any spills immediately. Prevent water or liquid leaks onto the floor and walk routes - mop these up immediately if they do occur, or cordon them off as a slip hazard - always use the correct warning signage whenever there has been any floor cleaning undertaken                                                                               | L                   |
|                                                                                                                                                     | Trailing leads – trip hazard                                      | M                    | Keep trailing leads tidy and routed away from walkways. If this cannot be avoided, use visible protection mats / ramps. In all cases trailing leads should be secured to prevent accidental movement                                                                                                                                                        | L                   |
|                                                                                                                                                     | Poor lighting, uneven floors and obstructions – trip hazards      | M                    | Ensure walk routes are adequately lit and clear of tools, equipment, materials and other obstructions.<br><br>Walk routes should be maintained with even surfaces and kept clean to remove mud & debris, including access ramps or steps into cabins – implement a good housekeeping policy on site                                                         | L                   |
|                                                                                                                                                     | Leading edges, access ramps, steps, stairways – falls from height | H                    | All walkways need to be of a suitable width to allow easy access and egress, especially near to leading edges<br><br>Provide sturdy handrails on access ramps, steps, stairways and adjacent to leading edges<br><br><b>UNDER NO CIRCUMSTANCES</b> are items (such as tools, equipment, materials or debris) to be stored or left on any stairways or steps | L                   |

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DATE: 8<sup>TH</sup> JAN 2021

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## RISK ASSESSMENT



### DESCRIPTION OF WORK: **MANUAL HANDLING**

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY | HAZARD                                                                                              | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISK after controls |
|---------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Manual handling                 | Manual handling of objects can involve difficult and heavy lifts which may lead to personal injury. | H                    | <p>Avoid manual handling if possible – use mechanical means whenever you can.</p> <p>If manual handling is necessary always assess the situation before you attempt to lift or carry any object:</p> <ul style="list-style-type: none"><li>Do not exceed your strength capabilities or over-exert yourself – if the object is too heavy to lift or carry comfortably use another person to assist you</li><li>Consider the shape of the object – can it be handled securely without being dropped?</li><li>Consider the size of the object – can it be handled without causing you to lose balance?</li><li>If carrying, clear the walk route before you lift. Also, ensure you can see beyond the object where you are walking to, if not use another person to assist with the lift or to guide you</li><li>Always ask yourself the question – can the object be handled in a safer way?</li></ul> <p>Using correct techniques is essential to avoiding injury:</p> <ul style="list-style-type: none"><li>Keep your back straight at all times. If lifting from a lower level use your legs to raise up</li><li>Do not twist or over-reach</li><li>When carrying keep the object close to your body if safe to do so and preferably at torso level</li></ul> <p>Remember - <b><u>STOP- THINK - CONSIDER</u></b></p> | L                   |

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DATE: 8<sup>TH</sup> JAN 2021

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## RISK ASSESSMENT



### DESCRIPTION OF WORK: TEMPORARY FENCING

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                   | HAZARD                                                                                                                            | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                          | RISK after controls |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Erecting temporary modular panel type fencing & barriers, such as Heras fencing, Blok n' Mesh, temporary pedestrian barriers etc. | Manual handling injuries from lifting bulky fencing or heavy fence supports (see also ' <i>Manual Handling</i> ' risk assessment) | M                    | Lifting of heavy fence sections should not be undertaken by one person. Manual handling training should be carried out for all the work force, and all dangers identified.                                                                                                         | L                   |
|                                                                                                                                   | Fencing panels falling                                                                                                            | M                    | During storage, panels to be secured to prevent from falling. Operatives should work in teams when erecting fencing to ensure that fence panels are supported until fixed. Use bracing to strengthen the erected fence and prevent from falling over, especially in exposed areas. | L                   |
|                                                                                                                                   | Operatives trapping hands or arms between fence sections while erecting                                                           | M                    | Know what your teammate is doing when manoeuvring panels – work together and communicate. All operatives undertaking this type of work should be experienced in Heras fence erection.                                                                                              | L                   |
|                                                                                                                                   | Slips trips and falls                                                                                                             | M                    | Fencing components should be stored such that they will not cause a tripping hazard to others. Ensure feet and bracing legs are visible – use red & white marker tape or cones if required                                                                                         | L                   |
|                                                                                                                                   | Using incorrect or damaged tools to erect fencing                                                                                 | M                    | Always ensure that tools and equipment used are in good condition and suitable for the work to be carried out. Damaged tools should be removed and either disposed of or quarantined for repair by a qualified person. Hand tools should be inspected before use.                  | L                   |
|                                                                                                                                   | Breaches to fence integrity and security                                                                                          | M                    | Repair any damaged panels or replace them if necessary. Erect warning signs to warn people of the hazard within the fenced area. Secure fencing with clips tightened from site side.                                                                                               | L                   |

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# RISK ASSESSMENT



## DESCRIPTION OF WORK: ASBESTOS REMOVAL

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | HAZARD                                                                                           | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RISK after controls |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p>General work with asbestos</p> <p><b>NOTE</b> – this section generally refers to asbestos that is part of the fabric of structures.</p> <p>However, certain controls may also be applicable for asbestos in soils identified in the ground investigation or for hand picking asbestos fragments.</p> <p>For asbestos in soils, refer also to the method statement / consultant's report and recommendations applicable and following the ground investigation.</p> <p>For hand picking asbestos fragments refer also to separate risk assessment</p> | Inhalation of asbestos dust / fibres can cause asbestosis, cancer or other respiratory diseases. | VH                   | <p>Establish the level of risk by identifying the location, type and extent of asbestos present. An adequate asbestos survey is required for buildings before work commences.</p> <p>Areas to be designated as hazardous areas, excluded with barriers and clearly signed as such. Encapsulation of areas should be considered. Access to the hazardous areas to be restricted.</p> <p>Removal and disposal of notifiable asbestos must be carried out by a licensed contractor. Work to be carried out in accordance with a specific Plan of Work (POW) &amp; Method Statement – provided separately.</p> <p>Appropriate PPE &amp; RPE will be provided and must be worn in accordance with the POW / RAMS.</p> <p>Air monitoring to be undertaken if required. Medical surveillance to be undertaken if the 'action level' will be exceeded</p> <p>Dust suppression by damping down should be used.</p> <p>Washing / changing facilities to be provided. Workers must not eat, drink or smoke in the hazardous areas (including changing areas)</p> <p>Waste asbestos must be disposed of correctly by a registered carrier.</p> <p>Workers <b>MUST</b> be trained in the removal of asbestos:<br/><b>CAT B</b> minimum for non-licensed work (including&gt;NNLW)<br/><b>CAT C</b> minimum for licensed work</p> | L                   |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:  
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PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



## DESCRIPTION OF WORK: ASBESTOS DEBRIS – HAND PICKING

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HAZARD                                                                                           | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RISK after controls |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <p>Hand picking asbestos debris or fragments from material stockpiles, processes or discovered during site inspections, clearance or excavations</p> <p><b>Note: Only for works identified as Non-Licensed.</b><br/><b>This document IS NOT TO BE used for any LICENSED asbestos works.</b></p> <p><i>This section <b>does not</b> refer to the following:</i></p> <ul style="list-style-type: none"> <li>Asbestos that is part of the fabric of structures and / or has been identified during an asbestos survey. Refer to separate plan of work and risk assessment compiled following an asbestos survey</li> <li>Asbestos in soils identified in the ground investigation. Refer to the method statement / consultant's report and recommendations.</li> </ul> | Inhalation of asbestos dust / fibres can cause asbestosis, cancer or other respiratory diseases. | H                    | <p>Areas to be designated as hazardous areas, excluded with barriers and clearly signed as such. Access to the hazardous areas to be restricted. Minimise the number of people and equipment required to enter the area. Workers <b>MUST</b> be trained to the minimum standard required by <b>CAR 2012</b> for working with non-licensed asbestos.</p> <p>If mobile plant / equipment is required transit routes should avoid the impacted areas. Consider using equipment from outside the exclusion zone (e.g. a power wash with long hose and lance to reach into the area).</p> <p>Asbestos fragments to be handled carefully – avoid damage or breakage caused by walking on or dropping them. Place in asbestos waste bags as soon as possible, double bag and in sealed skip ready for collection. Waste asbestos must be disposed of correctly by a registered carrier.</p> <p>Appropriate PPE &amp; RPE will be provided and must be worn. Washing / changing facilities to be provided. Workers must not eat, drink or smoke in the hazardous areas (including changing areas)</p> <p>Dust suppression by damping down with fine clean water spray to be used. Damping down to be done in moderation to prevent flooding or excessive run-off.</p> <p>When placing materials through screener or picking station, the loading / process rates should be reduced to a slow speed and hoppers loaded carefully, not allowing material to drop from height. Discharge belts to be lowered to minimise height drop.</p> | L                   |

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# RISK ASSESSMENT



DESCRIPTION OF WORK: **MATERIAL PROCESSING PLANT (CRUSHERS, SCREENERS, PICKING STATIONS)**

Page 1 of 2

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                     | HAZARD                                                                              | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RISK after controls |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Operation of material processing plant – crushers, screeners, picking stations etc. | Overturning, overloading, hazards to other persons, noise, flying debris            | H                    | <i>Refer also to risk assessment for 'Mobile Operated Plant &amp; Vehicles'.</i><br>Ensure plant is positioned and set up on firm, level ground in agreed locations away from sensitive receptors to noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L                   |
|                                                                                     | Dust generation<br><i>Refer also to separate risk assessment for 'General Dust'</i> | M                    | Connect water supply to dust suppression system on plant; ensure spray bars and nozzles are clean, working and effective.<br><br>Stockpiles should be slightly dampened with water to suppress dust at source if possible, but not fully wetted such that it may compromise the process (e.g. screening).<br><br>Damp down in moderation to prevent flooding and surface run off.                                                                                                                                                                                                                                                                                                                                                                                                                                        | L                   |
|                                                                                     | Injury to operatives whilst plant is running / contact with moving components       | H                    | Only authorised and trained operatives to operate plant. Exclude non-essential persons from the area.<br><br>Ensure emergency stops are in working order – test these prior to use. Manufacturers guards in key areas e.g. belts, rollers, nip points etc. must be in place during operation - check for damage prior to start up<br><br>Use remote control systems to allow operator to be positioned at a safe distance from the machine whilst it is running.<br><br>Avoid accessing or standing on plant whilst it is running – shut down prior to access if possible. If access onto running plant is required (e.g. to monitor production and its safe operation) minimise the time spent on board and use <b>ONLY</b> dedicated platforms designed and built into the plant by the manufacturer for this purpose. | L                   |

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# RISK ASSESSMENT



DESCRIPTION OF WORK: **MATERIAL PROCESSING PLANT (CRUSHERS, SCREENERS, PICKING STATIONS)**

Page 2 of 2

**RISK CODES:** L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                                                              | HAZARD                                                                                                        | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RISK after controls |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Picking operations from discharge                                                                            | Falling debris, moving components, interface between mobile plant managing stockpiles and ground operatives   | H                    | <p>Production rate to be reduced accordingly.</p> <p>If an operative is on a specific platform ensure guards are securely in place and effective around belts and rollers.</p> <p>If operatives are picking from discharge stockpiles, ensure close liaison between plant operators managing stockpiles and ground level operatives – stockpiles must be clear of pedestrians prior to being moved by mobile plant</p> <p>Operatives must keep away from loading areas – hi-visibility clothing must be worn and kept clean so that it is effective. Prominent warning barriers (e.g. red &amp; white pedestrian barriers) should be used to define picking areas and provide segregation from mobile plant operations</p> | L                   |
| Clearing blockages and maintenance of material processing plant – crushers, screeners, picking stations etc. | Injury to operatives whilst plant is running / contact with moving components                                 | H                    | <p>Plant to be stopped when blockages are to be cleared or maintenance required (refer to the <b>LOCK OUT</b> procedure in the method statement). Isolation of plant using the <b>LOCK OUT</b> procedure to be under the control of the maintenance operative</p> <p>Operatives to be trained and competent on the plant being worked on. Procedures and guidance in manufacturers manuals and information to be read, understood and followed</p>                                                                                                                                                                                                                                                                         | L                   |
|                                                                                                              | Entrapment / crushing injury to operatives due to unexpected or unplanned movement of plant or its components | H                    | <p>Ensure plant is positioned and set up on firm, level ground. Where equipment can move or collapse it must be made secure:</p> <ul style="list-style-type: none"> <li>prevent unexpected movement e.g. using chocks</li> <li>avoid working under suspended loads e.g. conveyors, unless these are properly supported</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          | L                   |

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# RISK ASSESSMENT



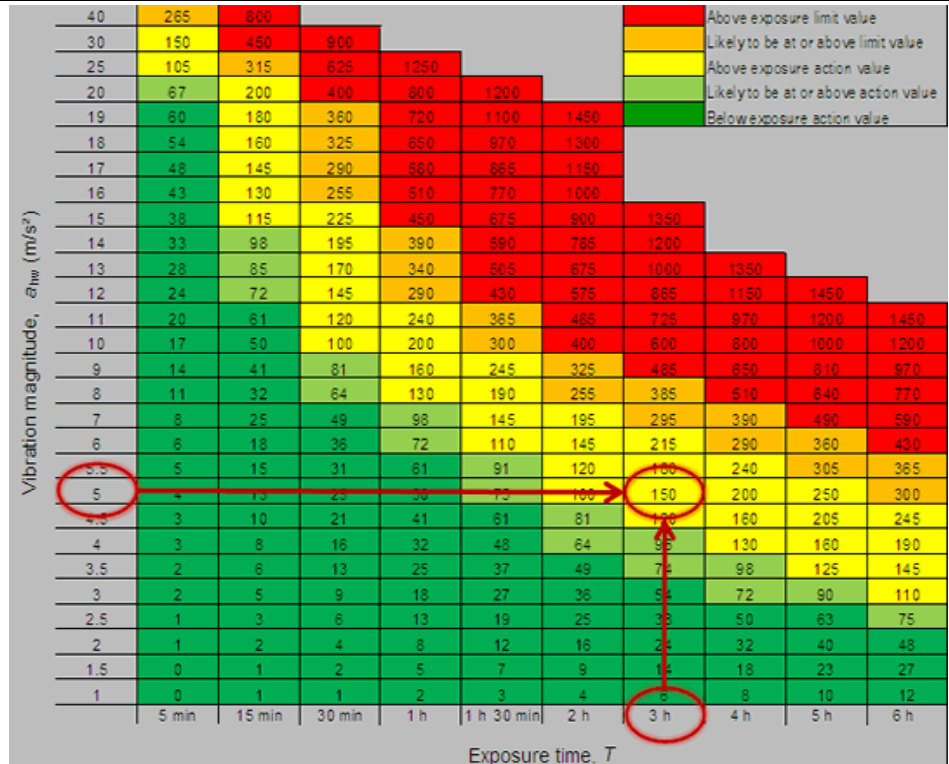
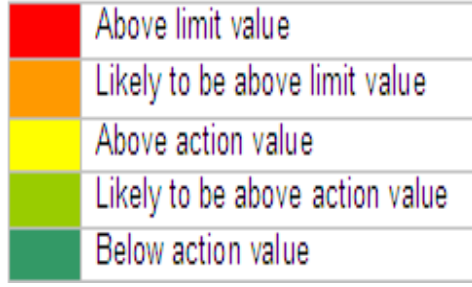
| DESCRIPTION OF WORK: <b>HAND TOOLS</b>                 |                                                                                                                                                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |
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| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH |                                                                                                                                                                                                                       |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |
| TASK / JOB COMPONENT / ACTIVITY                        | HAZARD                                                                                                                                                                                                                | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                     | RISK after controls |
| Use of hand tools                                      | Contact with live services e.g. electric shock                                                                                                                                                                        | VH                   | Arrange isolation or disconnection or exclude area from works. <b>NO WORK TO BE CARRIED OUT ON LIVE SERVICES.</b> If working near electrical apparatus (e.g. hand digging trial holes to locate underground services), use properly insulated and non-conductive tools.                                                                                                                                                                                                       | L                   |
|                                                        | Using damaged, poorly maintained or incorrect tools may cause hand, arm and musculoskeletal injuries due to over-exertion or disproportionate force                                                                   | M                    | Always select the correct type of tool for the task e.g. screw drivers and chisels should never be used as pry bars. Damaged tools should be removed from the work area and either disposed of or quarantined for repair by a qualified person. Hand tools should be inspected before use. Mushroom heads should be removed from chisels by regular grindings. Blades, chisels & points should be kept sharp to minimise labouring                                            | L                   |
|                                                        | Fragments or objects flying off and hitting persons, especially the eyes, causing injury: <ul style="list-style-type: none"> <li>Material fragments</li> <li>Tool fragments</li> <li>Tools &amp; equipment</li> </ul> | M                    | Assess surroundings - exclude others with barriers or erect screens or guards to protect passers-by. Keep tools clean and in good condition – excess grease or oil used for tool maintenance should be cleaned. Operatives must always use the correct PPE i.e. safety glasses / goggles when there is any risk of eye injury.                                                                                                                                                | L                   |
|                                                        | Bruises, cuts, gashes or impalement can occur to parts of the body if they collide with or snag other items or objects whilst using a tool.                                                                           | M                    | Assess the work area – check if there will be anything that will obstruct or hinder your body to move freely. Clear / remove protrusions and obstructions if possible, or cover / pad them – nails, screws and other fixings are commonly snagged on. Likewise, pieces of timber, metal, plastic, strips, pipes, other fixtures etc. Wear PPE to protect vulnerable parts of the body – cut / impact resistant gloves, pads for elbows & knees, eye / face / head protection. | L                   |

|                             |                                |                           |       |
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| COMPILED BY: PAUL CHALLINOR | DATE: 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: SITE MANAGER | DATE: |
|-----------------------------|--------------------------------|---------------------------|-------|



## DESCRIPTION OF WORK: POWERED HAND TOOLS

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                                          | HAZARD                                                                                                                | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RISK after controls |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Use of powered hand tools for breaking, cutting, drilling, grinding etc. | Noise resulting in noise induced hearing loss.<br>(See also 'Noise' risk assessment)                                  | M                    | Action should be taken to reduce noise at source. Assess noise levels and provide operatives with information, instruction and PPE accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L                   |
|                                                                          | Excessive exposure to vibration resulting in Hand Arm Vibration Syndrome (HAVS), also known as vibration white finger | M                    | <p>Select tools designed for the task and only use them if they are in good condition. The same applies to components such as blades, chisels etc.</p> <p>Reduce trigger times and exposure levels by rotating shifts. Keep hands warm and exercise them regularly to promote good circulation.</p> <p>Plan the works effectively before commencing - know the vibration rating of the tool (check manufacturer's instructions) and undertake HAV assessment (table shown) so that you know the maximum trigger times permitted before action is required.</p> <p>The '<b>Ready Reckoner</b>' tool on the HSE website can be used to assess exposure limits. Keep duration exposure <b>below 100 points where possible</b>. If not, further action <b>WILL BE</b> required.</p> <p><b>UNDER NO CIRCUMSTANCES SHOULD EXPOSURE EXCEED 400 POINTS</b></p>   | L                   |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

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PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



### DESCRIPTION OF WORK: WORKING WITH ABRASIVE WHEELS

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY | HAZARD                                                                                                      | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                            | RISK after controls |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Working with abrasive wheels    | Abuse and misuse of abrasive wheels machines by incompetent persons                                         | VH                   | Abrasive wheel machines only to be used by persons who are competent and authorised by the Site Manager. Only trained and competent persons can change abrasive wheels and discs.                                                                                                                                                                                                                                    | L                   |
|                                 | Wheel / disc may burst or fracture and cause particles to fly off at high speed.<br>Eye injuries            | H                    | The correct type of abrasive wheel for the job must be used. Ensure the wheel is correctly mounted on a compatible machine and run at the correct speed – the speed rating of the wheel should be higher than the speed of the machine.<br><br>Guards must be fitted to the machine and used. High impact eye protection to be worn. An exclusion zone with screens set up may be required to protect persons nearby | L                   |
|                                 | Dust generated during the task may be hazardous to health, especially if inhaled                            | H                    | Reduce airborne dust – use on-tool dust extraction, or suppress dust at source with either water bottles (if fitted) or water spray. PPE / face fitted RPE to be worn if residual dust still emitted                                                                                                                                                                                                                 | L                   |
|                                 | Noise of the machine and the cutting / grinding operation (see also ' <b>Noise</b> ' risk assessment)       | M                    | Ear protection to be worn according to level of noise. Hearing protection zones may need to be set up to ensure persons nearby are not affected                                                                                                                                                                                                                                                                      | L                   |
|                                 | Hand Arm Vibration Syndrome                                                                                 | M                    | See ' <b>Powered Hand Tools</b> ' risk assessment                                                                                                                                                                                                                                                                                                                                                                    | L                   |
|                                 | Cutting or grinding likely to produce a stream of hot, abrasive particles or sparks, creating a fire hazard | M                    | Hot works permit required. Work areas should be kept free of debris and combustibles, or screens erected if this is not possible. Sparks should be contained as far as is practicable.                                                                                                                                                                                                                               | L                   |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:

SITE MANAGER

DATE:

# RISK ASSESSMENT



| DESCRIPTION OF WORK: <b>NUISANCE DUST</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
| TASK / JOB COMPONENT / ACTIVITY                        | HAZARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RISK before controls          | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RISK after controls |
| Dust arising from site activities                      | <p>As well as being a general nuisance, dust can be harmful to the health of operatives and other persons nearby due to contact, which could be in a number of ways:</p> <ul style="list-style-type: none"> <li>Inhalation</li> <li>Irritation to the skin</li> <li>Irritation and injury to the eyes</li> </ul> <p>COSHH assessments will be required for the type of dust generated.</p> <p><b>Note:</b><br/>The degree of risk varies from low to high depending on the specific site situation:</p> <p>The type of dust will affect the degree of risk e.g. cement or silica dust will have chemical properties with increased harmful effects than, say, a general inert, aggregate dust.</p> <p>Weather conditions will also affect dust levels - dry and / or windy conditions will have an adverse impact on dust levels, whereas damp or wet conditions will help control levels.</p> | L to H<br>( <i>See Note</i> ) | <p>Due note should be taken of the overall occupational exposure standard for dust:</p> <ul style="list-style-type: none"> <li>10mg/m3 total inhalable dust</li> <li>5mg/m3 for respirable dust (includes cement), and the more stringent maximum exposure level for silica should this be involved.</li> </ul> <p>Dust should be contained at its source. In any event, dust should not be allowed to migrate beyond the site boundary.</p> <p>Dust generating activities should be regularly dampened to suppress dust. Dampen areas with water spray and managing surface run off as required. Areas that could become dusty should also be kept damp:</p> <ul style="list-style-type: none"> <li>Regularly turn over stockpiled materials</li> <li>Dampen haul routes on a regular basis</li> </ul> <p>Adhere to site speed limit (10mph), or reduce speed, particularly during dry spells.</p> <p>Monitor dust levels visually – if dust cannot be controlled, cease works and review the methods.</p> <p>Operatives should be provided with RPE if required for a particular dust-generating activity. These are to be face fitted to the operative who will need to be clean shaven</p> <p>Eye protection should be worn when conditions dictate.</p> <p>Operatives must maintain good standards of hygiene.</p> | L                   |

|                             |                                |                           |       |
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| COMPILED BY: PAUL CHALLINOR | DATE: 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: SITE MANAGER | DATE: |
|-----------------------------|--------------------------------|---------------------------|-------|

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



| DESCRIPTION OF WORK: GENERAL NOISE                     |                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH |                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |
| TASK / JOB COMPONENT / ACTIVITY                        | HAZARD                                                                                                                          | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RISK after controls |
| General works - Noise generation                       | Operatives are liable to be exposed to high levels of noise causing hearing damage both short and long term.                    | H                    | <p>If possible identify the noisy activity and substitute with a quieter alternative.</p> <p>Minimise noise levels by :</p> <ul style="list-style-type: none"> <li>Stopping rattles</li> <li>Throttling down engine while idling</li> <li>Fitting isolated engine covers</li> <li>Keep tools sharp to lessen frictional noise</li> <li>Do not drop items unnecessarily</li> <li>Silencing the noise source by the use of mufflers, shields, enclosures and barriers</li> <li>Distance the noisy activity from occupied premises</li> </ul>                                      | L                   |
|                                                        | Other persons working in close proximity or the general public can also be affected by the noise pollution created by the works | M                    | <p>Monitor noise levels regularly, in areas where workers will be and at the site boundary.</p> <p>Exclusion zones (hearing protection zones) as appropriate should be set up near activities where thresholds are exceeded:</p> <ul style="list-style-type: none"> <li>Hearing protection will be provided if levels are between 80 and 85 dB (A)</li> <li>The wearing of hearing protection will be mandatory if levels are in excess of 85 dB (A).</li> </ul> <p>The most likely protection in ascending order of attenuation is earmuffs and noise attenuation helmets.</p> | L                   |

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| COMPILED BY: | PAUL CHALLINOR | DATE: | 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: |  | DATE: |  |
|              |                |       |                          | SITE MANAGER |  |       |  |

PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



DESCRIPTION OF WORK: COSHH

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY                   | HAZARD                                                                                  | RISK<br>before<br>controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RISK<br>after<br>controls |
|---------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Exposure to hazardous substances in the workplace | Any liquids, gasses, dusts or solids have the potential to be hazardous to health.      | H                          | <p>All substances must have an assessment carried out on them before they are used in the workplace. This assessment will establish the possible harmful effects, how it is handled, how it is to be stored and what appropriate control measures should be taken.</p> <p>If substances unknown to the personnel on the site are discovered, they must be brought to the attention of the site manager and a suitable assessment must be carried out before the substances are handled.</p> <p>The risk to personnel must be considered and the exposure to harmful substances must be reduced to safe level wherever possible.</p> <p>Where use of hazardous substances cannot be avoided all possible precautions must be taken to minimise exposure.</p> <p>All appropriate personal protective equipment must be used as required by the assessment.</p> | L                         |
|                                                   | Inadvertent disturbance of unknown ACM's during soft stripping - exposure to operatives | H                          | Disposable coveralls and FFP3 masks to be worn during soft stripping activities unless otherwise instructed by the Site Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L                         |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:

SITE MANAGER

DATE:

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



| DESCRIPTION OF WORK: <b>WORKING AT HEIGHT</b>          |                                                                                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH |                                                                                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |
| TASK / JOB COMPONENT / ACTIVITY                        | HAZARD                                                                                     | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RISK after controls |
| Working at height                                      | Falling whilst working at height. Falls from height can result in serious injury or death. | VH                   | <p>Safe means of access to the work area must be provided, suitable and appropriate to the work to be carried out and the height of access required e.g. podium steps and scaffold towers will be suitable for low level work with easy access from level ground, but high level work will require MEWP's or scaffolding</p> <p>Mobile towers to be assembled by PASMA trained operatives only. MEWPs will only be used by trained operatives with the relevant CPCS card for the category of plant. Scaffold only to be erected or adjusted by relevantly trained operatives.</p> <p>Edge protection should be installed at all openings or leading edges. Operatives should wear full body harness attached to a suitable anchor point when working near an unprotected edge.</p> <p>Certain types of access equipment may not be suitable as a fall arrest anchor due to risk of toppling – e.g. mobile scaffold towers</p> | L                   |
|                                                        | Falling materials injuring persons below the working area                                  | H                    | <p>Minimise the amount of tools and materials stored or taken to high access work areas. Use tool belts, bags, boxes etc. so that they are not loosely stored.</p> <p>Ensure edge protection, boards, sheets etc. are intact, use debris netting, brick guards, crash decks etc. as required.</p> <p>Set up an exclusion zone below the work area to prevent persons entering the danger area. Erect barriers &amp; warning signs</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L                   |

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|-----------------------------|--------------------------------|---------------------------|-------|

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



| DESCRIPTION OF WORK: SITE OPERATIVES, THIRD PARTIES & GENERAL PUBLIC                                                                                                                                                                                                          |                                                                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH                                                                                                                                                                                                                        |                                                                                     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |
| TASK / JOB COMPONENT / ACTIVITY                                                                                                                                                                                                                                               | HAZARD                                                                              | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RISK after controls |
| <p>The site can pose a variety of potential hazards and injury situations to operatives, third parties and the general public</p> <p>The degree and type of risks will vary from low to very high dependant on specific site circumstances and prevailing site conditions</p> | Hazards from all site activities to operatives, visitors and third parties on site. | H                    | <p>All operatives will be provided with a site-specific safety induction before entering site.</p> <p>Any person undertaking work on site will receive a full induction and must be briefed on H&amp;S documents specific to the task they are undertaking, such as RAMS. Likewise, they will be encouraged to raise any concerns or issues they have.</p> <p>Visitors will receive a visitor's induction by the Site Manager. Any visitor wishing to walk round the site will be at the Site Manager's discretion, provided the Site Manager is satisfied that a walk round is safe, the visitor has the correct PPE and has received an induction, during which the visitor will be assessed on their general demeanour and attitude before being allowed on site.</p> <p>Visitors will be escorted around site by the Site Manager, or a nominated individual who is fully inducted and familiar with site.</p> | L                   |
|                                                                                                                                                                                                                                                                               | Hazards from all site activities to third parties and the general public.           | H                    | <p>Precautions and safeguards will be implemented to protect any persons within or near the site, or prevent unauthorised entry into work areas, such as segregation fencing, demarcation, barriers, security, fencing, fan / scaffold protection, debris netting etc. with warning or information signs prominently displayed.</p> <p>Containment of the site activities will be ensured and include precautions to confine falls of debris, collapse of structures, edge protection, dust suppression etc.</p>                                                                                                                                                                                                                                                                                                                                                                                                   | L                   |

|                             |                                |                           |       |
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| COMPILED BY: PAUL CHALLINOR | DATE: 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: SITE MANAGER | DATE: |
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PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



| DESCRIPTION OF WORK: <b>WORKING ADJACENT TO ROADS &amp; FOOTPATHS</b> |                                                                                                                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH                |                                                                                                                               |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |
| TASK / JOB COMPONENT / ACTIVITY                                       | HAZARD                                                                                                                        | RISK before controls           | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RISK after controls |
| Site work being carried out adjacent to roads and footpaths           | Site activities in close proximity to public areas (roads, footpaths etc.) - risk of the public entering hazardous work areas | M                              | Public areas to be separated from work areas using barriers, cones, warning signs etc. This may also include a safety buffer zone depending on the activity and proximity of public areas.<br><br>Banksmen may be stationed to monitor and control movements to safeguard persons nearby<br><br>In certain situations, the location of barriers may encroach public access routes - safe routes for pedestrians will be maintained<br><br>Warning signs will be placed on the barriers, warning the general public of the hazards on site and prohibiting entry | L                   |
|                                                                       | Site traffic entering and leaving the site.                                                                                   | M                              | Plant and other site vehicles will not cross any footpaths or roads if this will cause them damage - adequate protection will be placed over any vulnerable surfaces                                                                                                                                                                                                                                                                                                                                                                                            | L                   |
|                                                                       | Debris / mud on roads and footpaths                                                                                           | M                              | Keep haul roads and loading areas clean, inspect / clean wheels of vehicles before they leave site. Roads and footpaths to be checked periodically and cleaned if required.                                                                                                                                                                                                                                                                                                                                                                                     | L                   |
| COMPILED BY: PAUL CHALLINOR                                           |                                                                                                                               | DATE: 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: SITE MANAGER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DATE:               |

PROJECT: MANOX  
REF: MC2906

## RISK ASSESSMENT



| DESCRIPTION OF WORK: <b>WORKING NEXT TO OR OVER WATER</b>             |                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH                |                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |
| TASK / JOB COMPONENT / ACTIVITY                                       | HAZARD                                                                                                                                                                                          | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RISK after controls |
| Site work being carried out adjacent to water bodies and watercourses | Personnel / plant falling into the water - drowning                                                                                                                                             | H                    | <p>Set up edge protection and form safety stand-off if required with barriers and signage to warn personnel / plant from approaching the water's edge. Safety stand-off to be at least 2m from the water's edge - to be assessed on site and increased if required</p> <p>Place life buoys at prominent locations for use in the event of a rescue being required</p> <p>If personnel need to be adjacent to the water's edge (i.e. within 2m measured horizontally) flotation jackets must be worn. <b>Note: plant operators SHOULD NOT wear flotation jackets when within an enclosed cab</b></p> <p>Plant must avoid working adjacent to the water's edge. If this is required, assessment to be made to avoid excessive loads imposed on the bank. Excavators may be better to use adjacent to water as they can keep away from the water's edge and reach in with the arm to work</p> | L                   |
|                                                                       | Contamination of watercourses from spillages, surface run off etc.                                                                                                                              | M                    | Clean up any spillages – spill kits to be available on site; use bunded bowsters and drip trays; prevent surface run off into drains and over watercourse edges with containment bunds; place floating booms into the water if required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L                   |
|                                                                       | Protection of public and 3 <sup>rd</sup> parties – users of the watercourse, boats etc. ( <i>refer also to separate 'Site Operatives, Third Parties &amp; General Public' risk assessment</i> ) | M                    | Consult with and seek permission from Canals & Rivers Trust if required; Set up exclusion zones or width restrictions for boats to navigate around, possibly using floating booms. If this is not practical, or for short duration tasks, station a banksman to monitor for boats and control site activities accordingly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L                   |

|              |                |       |                          |              |  |       |  |
|--------------|----------------|-------|--------------------------|--------------|--|-------|--|
| COMPILED BY: | PAUL CHALLINOR | DATE: | 8 <sup>TH</sup> JAN 2021 | REVIEWED BY: |  | DATE: |  |
|              |                |       |                          | SITE MANAGER |  |       |  |

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



## DESCRIPTION OF WORK: FIRE ON SITE

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT / ACTIVITY | HAZARD                                                                                                                                                                                                                                                                                                                                             | RISK before controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RISK after controls |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| All work activities             | <p>Debris and waste containing wood, paper and various other combustible materials being allowed to accumulate</p> <p>Piles of debris and waste present no real threat to safety when people are on site working in the daytime. They become a hazard at night when large piles of rubbish are left unattended for trespassers to set fire to.</p> | H                    | <p>Whenever practicable, all flammable and combustible items will be removed at the start of the job, and before any hot works.</p> <p>Work methods will be adopted whenever possible to prevent or reduce the risk of fire e.g. if hot works are undertaken near to combustible items and neither can be removed, screens will be erected to prevent sparks or heat causing items to ignite</p> <p>Place rubbish in skips as soon as possible. If this is not possible, separate rubbish into small piles rather than one large pile (less likely to be set fire to).</p> <p>Ensure as much rubbish as possible is removed off site daily in 40yd skips</p> <p>In high risk areas, arrange for a night patrol or security watch.</p> <p>Have an adequate number of fire extinguishers and firefighting equipment on site, to suit the fire potential.</p> <p>Operatives will be informed of any areas or items posing a potential hazard and instructed in the precautions to be taken.</p> <p>When applicable, fire checks of the site will be carried out at the end of the working day.</p> | L                   |
| Preparation of food & drink     | Fires resulting from canteen activities                                                                                                                                                                                                                                                                                                            | M                    | <p>Only cooking equipment provided in the canteen is to be used. Naked flames, open fires, burning or barbecues will <b>NOT BE PERMITTED</b> in the compound or on site</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L                   |

COMPILED BY: PAUL CHALLINOR

DATE: 8<sup>TH</sup> JAN 2021

REVIEWED BY:

SITE MANAGER

DATE:

PROJECT: MANOX  
REF: MC2906

# RISK ASSESSMENT



## SITE SPECIFIC ACTIVITIES NOT IDENTIFIED ABOVE

(TO BE COMPLETED BY THE SITE MANAGER OR SUPERVISOR AS REQUIRED)

RISK CODES: L = LOW M = MEDIUM H = HIGH VH = VERY HIGH

| TASK / JOB COMPONENT /<br>ACTIVITY | HAZARD | RISK<br>before<br>controls | CONTROL MEASURES TO ELIMINATE, REDUCE OR CONTROL THE RISK | RISK<br>after<br>controls |
|------------------------------------|--------|----------------------------|-----------------------------------------------------------|---------------------------|
|                                    |        |                            |                                                           |                           |

|              |              |
|--------------|--------------|
| COMPILED BY: | REVIEWED BY: |
| DATE:        | DATE:        |

| RISK MATRIX           |          | POTENTIAL SEVERITY OF HARM |          |               |
|-----------------------|----------|----------------------------|----------|---------------|
|                       |          | MINOR                      | MODERATE | MAJOR / FATAL |
| LIKELIHOOD OF<br>HARM | REMOTE   | LOW                        | LOW      | MEDIUM        |
|                       | UNLIKELY | LOW                        | MEDIUM   | MEDIUM        |
|                       | POSSIBLE | MEDIUM                     | MEDIUM   | HIGH          |
|                       | LIKELY   | MEDIUM                     | HIGH     | HIGH          |
|                       | CERTAIN  | MEDIUM                     | HIGH     | HIGH          |



## BRIEFING CONFIRMATION

### To be read by all personnel receiving instruction and briefing

In signing below, I acknowledge that I have received instruction of the works to be carried out on this site and the hazards and risks associated with this work activity and described above. I understand the hazards and control measures to be applied and I have had the opportunity to have any questions answered on any related matters in respect of this element of work.

| No. | Name (print) | Signature | Date | No. | Name (print) | Signature | Date |
|-----|--------------|-----------|------|-----|--------------|-----------|------|
| 1   |              |           |      | 16  |              |           |      |
| 2   |              |           |      | 17  |              |           |      |
| 3   |              |           |      | 18  |              |           |      |
| 4   |              |           |      | 19  |              |           |      |
| 5   |              |           |      | 20  |              |           |      |
| 6   |              |           |      | 21  |              |           |      |
| 7   |              |           |      | 22  |              |           |      |
| 8   |              |           |      | 23  |              |           |      |
| 9   |              |           |      | 24  |              |           |      |
| 10  |              |           |      | 25  |              |           |      |
| 11  |              |           |      | 26  |              |           |      |
| 12  |              |           |      | 27  |              |           |      |
| 13  |              |           |      | 28  |              |           |      |
| 14  |              |           |      | 29  |              |           |      |
| 15  |              |           |      | 30  |              |           |      |



## BRIEFING CONFIRMATION

### To be read by all personnel receiving instruction and briefing

In signing below, I acknowledge that I have received instruction of the works to be carried out on this site and the hazards and risks associated with this work activity and described above. I understand the hazards and control measures to be applied and I have had the opportunity to have any questions answered on any related matters in respect of this element of work.

| No. | Name (print) | Signature | Date | No. | Name (print) | Signature | Date |
|-----|--------------|-----------|------|-----|--------------|-----------|------|
| 31  |              |           |      | 46  |              |           |      |
| 32  |              |           |      | 47  |              |           |      |
| 33  |              |           |      | 48  |              |           |      |
| 34  |              |           |      | 49  |              |           |      |
| 35  |              |           |      | 50  |              |           |      |
| 36  |              |           |      | 51  |              |           |      |
| 37  |              |           |      | 52  |              |           |      |
| 38  |              |           |      | 53  |              |           |      |
| 39  |              |           |      | 54  |              |           |      |
| 40  |              |           |      | 55  |              |           |      |
| 41  |              |           |      | 56  |              |           |      |
| 42  |              |           |      | 57  |              |           |      |
| 43  |              |           |      | 58  |              |           |      |
| 44  |              |           |      | 59  |              |           |      |
| 45  |              |           |      | 60  |              |           |      |