



# Risk Assessment

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| Risk Assessment Control |  |
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- RA41 - Piling Platforms
- RA42 - Pile Trimming
- RA43 - Use of Vibratory Hammer
- RA44 - Crane Impact Driving
- RA45 - Traffic Management
- RA46 - Adverse Weather
- RA47 - Separation Plant Ped
- RA48 - Underground Serv & Vib
- RA49 - Assembly of Augers
- RA50 - Hand Protection
- RA51 - Fatigue
- RA52 - Crane Op Training
- RA53 - Crane De-Rigging
- RA54 - Use Of Mag Drill
- RA55 - Crane Rigging
- RA56 - Rig Op Training
- RA57 - Leptospirosis
- RA58 - Engineers On Site
- RA59 - UXO
- RA60 - Conventional Piling
- RA61 - Lifting Operations
- RA62 - Lifting Ops (Bowser)
- RA63
- RA64

|              |                         |
|--------------|-------------------------|
| Project name | Vine Street, Manchester |
| Project code | E23181                  |
| Assessed by  | Richard Greenwood       |
| Date         | 10/12/2024              |

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If Listbox is empty click to another Tab and then click back to Control Tab.

## Risk Assessment

|                    |                         |                                                                      |              |       |
|--------------------|-------------------------|----------------------------------------------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Loading/Unloading of Plant/Equipment from Low Loaders |              |       |
| Project Code       | E23181                  |                                                                      |              |       |
| Assessed By        | Richard Greenwood       |                                                                      |              |       |
| Date of Assessment | 10/12/2024              |                                                                      | Document No. | RA001 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                 | RISKS                                                                                                  | PEOPLE/GROUPS AT RISK         | RISK RATING (L=Likelihood, S=Severity, R=Rating) |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RISK RATING (L=Likelihood, S=Severity, R=Rating) |   |   | Comments                                                                                                                                                               |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     |                                                                                                        |                               | L                                                | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L                                                | S | R |                                                                                                                                                                        |
|                                                     |                                                                                                        |                               | L                                                | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L                                                | S | R |                                                                                                                                                                        |
| Moving plant/vehicles onto and off low loaders      | Risk of plant/vehicles toppling off low loader through either, forward, rearward or sideward movements | Persons nearby                | 2                                                | 5 | 10 | Before an item of plant or vehicle is loaded, it should be checked to ensure that its load platform, bodywork and anchorage points (and twist locks where fitted), are appropriate for the load, and are in a sound and serviceable condition.<br>Use of vehicle marshal/banksman to coordinate plant/vehicle movements on and off low loader.<br>Ensure ramps are firmly in place and on solid ground.<br>Pedestrians must be clear of load and exclusion/no-go zones maintained.<br>Driver is to wait in waiting area clear of the loading process or wait in cab | 1                                                | 5 | 5 | Checks should be carried out by SP UK and low loader driver<br><br>It is a legal requirement that the maximum permitted axle and gross weight limits are not exceeded. |
| Access/egress on the low loader when securing loads | Falls from height                                                                                      | Persons working on low loader | 2                                                | 3 | 6  | Use of approved vehicle access steps<br>Edge protection to be fitted to vehicle by use of integral proprietary standards and straps to create handrails the length of the trailer bed.<br>3 points of contact at all times when accessing the truck bed and the plant when ramps are installed, access via ramp<br>Anti-slip safety footwear must be worn.                                                                                                                                                                                                          | 1                                                | 3 | 3 | Access/egress on loader when ramp not established should be by suitable access steps                                                                                   |

## Risk Assessment

|                                                                    |                                                        |                                              |   |   |    |                                                                                                   |   |   |   |  |
|--------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|---|---|----|---------------------------------------------------------------------------------------------------|---|---|---|--|
| Work on or adjacent to other contractors on site, other road users | Collision with other road users, other persons on site | Persons nearby or other road users           | 2 | 5 | 10 | Maintain exclusion zone around working area with use of chapter 8 compliant barriers with signage | 1 | 5 | 5 |  |
| Poor housekeeping on site                                          | Slips, trips, falls                                    | Persons involved in the loading or unloading | 2 | 3 | 6  | Maintain good housekeeping around working area                                                    | 1 | 3 | 3 |  |

## Risk Assessment

|                    |                         |                                                    |              |       |
|--------------------|-------------------------|----------------------------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Establishing Exclusion Zones Onsite |              |       |
| Project Code       | E23181                  |                                                    |              |       |
| Assessed By        | Richard Greenwood       |                                                    |              |       |
| Date of Assessment | 10/12/2024              |                                                    |              |       |
|                    |                         |                                                    | Document No. | RA002 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity            |
|-------|---------------------|
| 1     | Minor Injury (First |
| 2     | Minor Injury        |
| 3     | 7 Day Injury        |
| 4     | Specified Injury    |
| 5     | Death               |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                            | RISKS                                                                                        | PEOPLE/GROUPS AT RISK                                     | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                 | RISK RATING    |   |   | Comments                                                                                                                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                |                                                                                              |                                                           | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                      | L = LIKELIHOOD |   |   |                                                                                                                                                   |
|                                                |                                                                                              |                                                           | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                      | S = SEVERITY   |   |   |                                                                                                                                                   |
|                                                |                                                                                              |                                                           | R=RATING     |   |   |                                                                                                                                                                                                                                                                                                      | R = RATING     |   |   |                                                                                                                                                   |
|                                                |                                                                                              |                                                           | L            | S | R |                                                                                                                                                                                                                                                                                                      | L              | S | R |                                                                                                                                                   |
| Poor planning – inadequate exclusion zones     | Unauthorised access into the piling works either pedestrian or vehicular                     | Persons entering the working area                         | 2            | 4 | 8 | Use of physical barriers such as Heras Fencing or Crowd Barriers and signage to establish exclusion zones - Access into/through working area to be controlled by SP UK foreman                                                                                                                       | 1              | 4 | 4 | Agree with principal contractor designated working areas for exclusion zones to be established considering any existing traffic/pedestrian routes |
| Establishing materials/equipment storage areas | Materials/equipment causing obstructions on site leading to trips, falls, traffic disruption | Persons entering the working area<br>- Other site traffic | 2            | 3 | 6 | Materials/equipment to be stored in a designated area agreed with PC<br>All storage areas must be set out to allow safe access to all material and equipment and to mitigate the personell climbing/stepping on other items to get to what they require.<br>600mm space to be kept between all items | 1              | 3 | 3 |                                                                                                                                                   |

# Risk Assessment

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|--------------------|-------------------------|---------------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Establishing Welfare on Site |       |
| Project Code       | E23181                  |                                             |       |
| Assessed By        | Richard Greenwood       |                                             |       |
| Date of Assessment | 10/12/2024              | Document No.                                | RA003 |

| Risk Assessment Key                                                                           |                                                      |                                                |              |   |    | Severity Key                                                                                                                                                                                                                                                                                         |                                   |   | Likelihood Key |                                                                                                                         |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------|--------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------------|-------------------------------------------------------------------------------------------------------------------------|
| Severity Score                                                                                | Likelihood Score                                     |                                                |              |   |    | Score                                                                                                                                                                                                                                                                                                | Severity                          |   | Score          | Likelihood                                                                                                              |
|                                                                                               | 1                                                    | 2                                              | 3            | 4 | 5  | 1                                                                                                                                                                                                                                                                                                    | Minor Injury (First Aid)          |   | 1              | Unlikely                                                                                                                |
| 1                                                                                             | Low                                                  |                                                |              |   |    | 2                                                                                                                                                                                                                                                                                                    | Minor Injury (Hospital Treatment) |   | 2              | May Happen                                                                                                              |
| 2                                                                                             |                                                      |                                                |              |   |    | 3                                                                                                                                                                                                                                                                                                    | 7 Day Injury                      |   | 3              | Likely                                                                                                                  |
| 3                                                                                             |                                                      | Medium                                         |              |   |    | 4                                                                                                                                                                                                                                                                                                    | Specified Injury                  |   | 4              | Very Likely                                                                                                             |
| 4                                                                                             |                                                      |                                                | High         |   |    | 5                                                                                                                                                                                                                                                                                                    | Death                             |   | 5              | Certain                                                                                                                 |
| 5                                                                                             |                                                      |                                                |              |   |    |                                                                                                                                                                                                                                                                                                      |                                   |   |                |                                                                                                                         |
| SIGNIFICANT HAZARDS                                                                           | RISKS                                                | PEOPLE/GROUPS AT RISK                          | RISK RATING  |   |    | RISK RATING                                                                                                                                                                                                                                                                                          |                                   |   | Comments       |                                                                                                                         |
|                                                                                               |                                                      |                                                | L=LIKELIHOOD |   |    | L = LIKELIHOOD                                                                                                                                                                                                                                                                                       |                                   |   |                |                                                                                                                         |
|                                                                                               |                                                      |                                                | S=SEVERITY   |   |    | S = SEVERITY                                                                                                                                                                                                                                                                                         |                                   |   |                |                                                                                                                         |
|                                                                                               |                                                      |                                                | R=RATING     |   |    | R = RATING                                                                                                                                                                                                                                                                                           |                                   |   |                |                                                                                                                         |
|                                                                                               |                                                      |                                                | L            | S | R  | L                                                                                                                                                                                                                                                                                                    | S                                 | R |                |                                                                                                                         |
| Arrival to fixed construction sites without welfare provision (Principal Contractor projects) | No toilet, eating or changing facilities             | Persons working on site                        | 2            | 3 | 6  | Adequate welfare provision in accordance with Schedule 2 of the CDM Regulations 2015 must be provided by a principal contractor. On occasions where this doesn't happen consider provision of temporary welfare units such as a "welfare vans" counter charged to the principal contractor or client | 1                                 | 3 | 3              | Works should not commence without minimum adequate welfare provision in accordance with Schedule 2 CDM Regulations 2015 |
| Smoking on site                                                                               | Fire, Risks associated with smoking i.e. lung cancer | Smokers and others nearby i.e. passive smoking | 2            | 5 | 10 | Smoking is prohibited in all enclosed workplaces such as, site cabins, canteens, works vehicles and cranes/rigs. Designated smoking areas advised at Site Induction                                                                                                                                  | 1                                 | 5 | 5              |                                                                                                                         |
|                                                                                               |                                                      |                                                |              |   |    |                                                                                                                                                                                                                                                                                                      |                                   |   |                |                                                                                                                         |

# Risk Assessment

|                    |                         |                                              |       |  |
|--------------------|-------------------------|----------------------------------------------|-------|--|
| Project Name       | Vine Street, Manchester | Work activity: Access and Egress Around Site |       |  |
| Project Code       | E23181                  |                                              |       |  |
| Assessed By        | Richard Greenwood       |                                              |       |  |
| Date of Assessment | 10/12/2024              |                                              |       |  |
|                    |                         | Document No.                                 | RA004 |  |

| Risk Assessment Key                                          |                                               |                                                               |              |   |    | Severity Key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |   | Likelihood Key |                                                                                                                                                                                                                           |
|--------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|--------------|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Severity Score                                               | Likelihood Score                              |                                                               |              |   |    | Score                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Severity                 |   | Score          | Likelihood                                                                                                                                                                                                                |
| 1                                                            | 1                                             | 2                                                             | 3            | 4 | 5  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Minor Injury (First Aid) |   | 1              | Unlikely                                                                                                                                                                                                                  |
| 2                                                            | Low                                           |                                                               |              |   |    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Minor Injury (Hospital)  |   | 2              | May Happen                                                                                                                                                                                                                |
| 3                                                            |                                               | Medium                                                        |              |   |    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7 Day Injury             |   | 3              | Likely                                                                                                                                                                                                                    |
| 4                                                            |                                               |                                                               | High         |   |    | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Specified Injury         |   | 4              | Very Likely                                                                                                                                                                                                               |
| 5                                                            |                                               |                                                               |              |   |    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Death                    |   | 5              | Certain                                                                                                                                                                                                                   |
|                                                              |                                               |                                                               |              |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |   |                |                                                                                                                                                                                                                           |
| SIGNIFICANT HAZARDS                                          | RISKS                                         | PEOPLE/GROUPS AT RISK                                         | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RISK RATING              |   |                | Comments                                                                                                                                                                                                                  |
|                                                              |                                               |                                                               | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L = LIKELIHOOD           |   |                |                                                                                                                                                                                                                           |
|                                                              |                                               |                                                               | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S = SEVERITY             |   |                |                                                                                                                                                                                                                           |
|                                                              |                                               |                                                               | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R = RATING               |   |                |                                                                                                                                                                                                                           |
|                                                              |                                               |                                                               | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L                        | S | R              |                                                                                                                                                                                                                           |
| Lack of or inadequate of dedicated traffic/pedestrian routes | Risk of being struck by moving plant/vehicles | Operatives, Site Staff, Pedestrians and members of the public | 2            | 5 | 10 | Traffic and pedestrian management must be planned and managed by the principal contractor and covered in site inductions.<br>Ensure Plant and Pedestrians are segregated with safe walking routes to and from the compound or to any reasonably frequently used location.<br>Principal Contractor to ensure there is adequate backlighting of walkways.<br>Pedestrians to wear high visibility clothing at all times on site<br>Pedestrians are to ensure they are seen and both give and receive a “thumbs up” from the plant operator<br>Operators are to ensure they monitor outside areas at all times to ensure they see pedestrians (including trespassers) | 1                        | 5 | 5              | Ensure all work is planned and fully thought through, any changes to the method of work must be signed by the Contracts Manager or HSEQ Manager.<br>All H&S concerns must be brought to the attention of the Site Manager |

## Risk Assessment

|                    |                         |                                                          |              |       |
|--------------------|-------------------------|----------------------------------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Use of one-person low-level work platform | Document No. | RA005 |
| Project Code       | E23181                  |                                                          |              |       |
| Assessed By        | Richard Greenwood       |                                                          |              |       |
| Date of Assessment | 10/12/2024              |                                                          |              |       |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                        | RISKS                                                                                | PEOPLE/GROUPS AT RISK           | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                           | RISK RATING    |   |   | Comments                                                                                                              |
|------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------|--------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|-----------------------------------------------------------------------------------------------------------------------|
|                                                            |                                                                                      |                                 | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                | L = LIKELIHOOD |   |   |                                                                                                                       |
|                                                            |                                                                                      |                                 | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                | S = SEVERITY   |   |   |                                                                                                                       |
|                                                            |                                                                                      |                                 | R=RATING     |   |   |                                                                                                                                                                                                                                                                                | R = RATING     |   |   |                                                                                                                       |
|                                                            |                                                                                      |                                 | L            | S | R |                                                                                                                                                                                                                                                                                | L              | S | R |                                                                                                                       |
| Work at height from low level podium <1.5m                 | Risk of podium not erected or dismantled properly. Risk of a fall low level.         | Person using podium, site staff | 2            | 3 | 6 | Podiums to be erected and dismantled by PASMA trained competent persons in accordance with the manufacturer’s instructions.<br>Podium steps must comply with BS8620 or PAS250<br>Podium steps to be visually inspected before each use and thoroughly inspected every 3 months | 1              | 3 | 3 | Any work at height must be kept to a minimum, properly planned, carried out by people who are experienced, competent. |
| Moving of podium with a person on platform                 | Risk of podium toppling over                                                         | Person using podium, site staff | 2            | 3 | 6 | Podiums not to be moved when a person is on the platform                                                                                                                                                                                                                       | 1              | 3 | 3 | Anyone acting in an unsafe manner will be subject to SPUK disciplinary procedures                                     |
| Overreaching from working platform                         | Risk of fall from podium                                                             | Person using podium, site staff | 2            | 3 | 6 | No overreaching from the platform or climbing onto the intermediate/top rails of the podium                                                                                                                                                                                    | 1              | 3 | 3 | Anyone acting in an unsafe manner will be subject to SPUK disciplinary procedures                                     |
| Leaving locking gate open when on platform                 | Person may forget the gate is open and lean back resulting in a fall from the podium | Person using podium, site staff | 2            | 3 | 6 | Ensure locking gate is closed once on the podium                                                                                                                                                                                                                               | 1              | 3 | 3 | Anyone acting in an unsafe manner will be subject to SPUK disciplinary procedures                                     |
| Using a podium not fit for purpose, too small or defective | Risk of a fall                                                                       | Person using podium, site staff | 2            | 3 | 6 | Visual Pre-check of podium prior to each use                                                                                                                                                                                                                                   | 1              | 3 | 3 | Damaged/defective podiums should not be used. Inform Contracts Manager of concerns                                    |
| Erecting a podium on uneven ground                         | Risk of a fall                                                                       | Person using podium, site staff | 2            | 3 | 6 | Pre-check of ground conditions prior to erecting podium. Where required level off ground (where practicable)                                                                                                                                                                   | 1              | 3 | 3 | Use Base Boards if required to bear the pressure and stabilise the ground                                             |

## Risk Assessment

|                    |                         |                                                                                                  |  |  |                    |
|--------------------|-------------------------|--------------------------------------------------------------------------------------------------|--|--|--------------------|
| Project Name       | Vine Street, Manchester | <b>Work activity: Operating a Mobile Elevated Working Platform (MEWP) on Land And Over Water</b> |  |  |                    |
| Project Code       | E23181                  |                                                                                                  |  |  |                    |
| Assessed By        | Richard Greenwood       |                                                                                                  |  |  |                    |
| Date of Assessment | 10/12/2024              |                                                                                                  |  |  |                    |
|                    |                         |                                                                                                  |  |  | Document No. RA006 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                       | RISKS                                                                                                         | PEOPLE/GROUPS AT RISK      | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                              | RISK RATING    |   |   | Comments                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------|--------------|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           |                                                                                                               |                            | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L = LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                      |
|                                           |                                                                                                               |                            | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S = SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                      |
|                                           |                                                                                                               |                            | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R = RATING     |   |   |                                                                                                                                                                                                                                                                                                      |
|                                           |                                                                                                               |                            | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L              | S | R |                                                                                                                                                                                                                                                                                                      |
| Working from MEWP at height               | An operator may fall from the basket during work activities over land or adjacent to water (risk of drowning) | Operator                   | 2            | 5 | 10 | MEWP Operator must be trained and competent and hold valid licence for class of MEWP being used.<br>MEWP selected to be suitable for the task, particularly in terms of size<br>Safe working load must never be exceeded.<br>Outriggers or stabilisers, where fitted, must be in position before elevating the platform.<br>Harnesses must be worn with fixed length lanyards, 1 metre restraints, attached to approved anchor points within the platforms basket | 1              | 5 | 5 | NOTE: Harness/lanyards should not be worn when working over/adjacent to water<br><br>Lifejackets must be worn when working over water, lifejackets must conform ISO 12402 Or EN399:1993 and must be 275N of nominal bouyancy<br><br>Lifejackets must be inspected daily and serviced every 12months. |
| Training and competence of MEWP operators | Untrained operators, unfamiliar operators with machine leading to increased risks of accidents/incidents      | Operator and other workers |              |   |    | MEWP operators must attend a recognised MEWP operator training course and received a certificate, card or ‘licence’, listing the categories of MEWP the bearer is trained to operate<br>- The expiry date of the training licence or card should be checked in addition to formal training for the type of MEWP.<br>Operators should have familiarisation training on the controls and operation of the specific make and model of MEWP                           | 1              | 5 | 5 | Evidence of operator competence to be submitted to principal contractor prior to MEWP operation.<br><br>Operators should have familiarisation training on the controls and operation of the specific make and model of MEWP they are using                                                           |
| Equipment failure or malfunction          | Inability to bring basket down to ground level or back from over the reservoir                                | Operator                   | 2            | 5 | 10 | Arrangements for safe retrieval of the basket to be developed in the form a retrieval plan.<br>- Drill to be carried out of retrieval plan to ensure effectiveness<br>- Named individual to take control of manual retrieval of MEWP in                                                                                                                                                                                                                           | 1              | 5 | 5 | Drill to be carried out of retrieval plan to ensure effectiveness                                                                                                                                                                                                                                    |

## Risk Assessment

|                                                                                                                                        |                                                                                                                                               |          |   |   |    |                                                                                                                                                                                                                                                                                            |   |   |   |                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--------------------------------------------------------------------------|
| Contact with overhead objects/services - craneage                                                                                      | - Entrapment, operators may become trapped against the boom of the crane and if this happens they may not be able to stop the machine running | Operator | 2 | 5 | 10 | Operator to assess overhead hazards prior to elevating platform<br>- Banksman to be used where transportation under overhead objects/services cannot be avoided                                                                                                                            | 1 | 5 | 5 |                                                                          |
| Poor/uneven ground conditions                                                                                                          | MEWP overturning - the machine may overturn throwing the operator from the basket                                                             | Operator | 2 | 5 | 10 | Identify and demarc areas of uneven ground and avoid where possible<br>Maintain ground conditions in state of good repair and ensure the ground is strong enough to withstand the applied weight of the MEWP                                                                               | 1 | 5 | 5 | PC to provide max ground bearing pressure of platform before work begins |
| Working under the influence of alcohol and or drugs (including prescribed medicines that may affect a person's ability to work safely) | Increased risk of accidents/incidents                                                                                                         | Operator | 2 | 5 | 10 | Operator made aware of dangers of working under the influence of drugs and or alcohol and potential disciplinary actions for disregarding the rules<br>Operators taking prescribed medicines which may affect their capabilities to work safely should inform their immediate supervisor.  | 1 | 5 | 5 |                                                                          |
| Adverse weather i.e. high winds                                                                                                        | Increased risk of accidents/incidents                                                                                                         | Operator | 2 | 5 | 10 | Operators to be familiar with Beaufort Scale and <b>must not</b> operate platform in wind speeds above those specified by the manufacturer (generally 12.5 m/s)                                                                                                                            | 2 | 4 | 8 |                                                                          |
| Other on-site vehicular traffic                                                                                                        | Collisions - other site-based vehicles may collide with the MEWP                                                                              | Operator | 2 | 5 | 10 | Segregate other site traffic (delivery vehicles, dumpers, from the work area<br>Banksman appointed to assist with particularly hazardous manoeuvres such as reversing or transporting loads that restrict the drivers vision<br>Any machine left unattended must have ignition key removed | 2 | 4 | 8 |                                                                          |

## Risk Assessment

|                                                 |                         |                       |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |  |
|-------------------------------------------------|-------------------------|-----------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Inspection, maintenance and examination of MEWP | serious injury or Death | Operator & site staff | 3 | 5 | 15 | <p>A programme of daily visual checks, regular inspections and servicing schedules should be established in accordance with the manufacturer's instructions and the risks associated with each MEWP.</p> <ul style="list-style-type: none"> <li>- The MEWP must be thoroughly examined at least every six months by a competent person or in accordance with an examination scheme drawn up by such a competent person</li> <li>- Evidence of six monthly examination to be available with the machine</li> </ul> <p>SPUK CheckProof check sheet to be completed by operator (in addition to any site-specific requirements) -</p> <p>Operators should be encouraged to report defects or problems. Reported problems should be put right quickly and the MEWP taken out of service if the item is safety critical.</p> | 1 | 5 | 8 |  |
|-------------------------------------------------|-------------------------|-----------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|

## Risk Assessment

|                    |                         |                                                                 |  |  |                    |
|--------------------|-------------------------|-----------------------------------------------------------------|--|--|--------------------|
| Project Name       | Vine Street, Manchester | Work activity: Access and Egress - Low Loaders (Work at Height) |  |  |                    |
| Project Code       | E23181                  |                                                                 |  |  |                    |
| Assessed By        | Richard Greenwood       |                                                                 |  |  |                    |
| Date of Assessment | 10/12/2024              |                                                                 |  |  |                    |
|                    |                         |                                                                 |  |  | Document No. RA008 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                    | RISKS                                                     | PEOPLE/GROUPS AT RISK                             | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                         | RISK RATING    |   |   | Comments                                                                                                                                    |
|------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|--------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|---------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        |                                                           |                                                   | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                              | L = LIKELIHOOD |   |   |                                                                                                                                             |
|                                                                        |                                                           |                                                   | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                              | S = SEVERITY   |   |   |                                                                                                                                             |
|                                                                        |                                                           |                                                   | R=RATING     |   |   |                                                                                                                                                                                                                                                                              | R = RATING     |   |   |                                                                                                                                             |
|                                                                        |                                                           |                                                   | L            | S | R |                                                                                                                                                                                                                                                                              | L              | S | R |                                                                                                                                             |
| Climbing on and off flatbed of vehicle (work at height)                | Risk of falls if suitable access equipment isn't provided | Persons accessing flatbeds                        | 2            | 4 | 8 | Access to trailer bed by use of aluminium access ladders with 3-point support.<br>Access ladders to be strapped to lowloader so they cannot slip away from the trailer.<br>Operatives must use steps and grab rails to access flatbed<br>Anti-slip safety boots must be worn | 1              | 4 | 4 | Examples of such equipment can be found at <a href="http://www.safesmartaccess.co.uk">www.safesmartaccess.co.uk</a>                         |
| Jumping down from back of flatbed (behaviour)                          | Risk of back/lower limb injuries                          | Persons jumping down from flatbed or access steps | 2            | 4 | 8 | Persons must be discouraged from jumping down<br>Raise awareness of associated risks involved if jumping down<br>Establish rule of “no jumping down”                                                                                                                         | 1              | 4 | 4 | Foreman to monitor compliance with use of access stairs.<br>Anyone acting in an unsafe manner will be subject to site disciplinary hearing. |
| Working on flatbed of vehicle with no edge protection (work at height) | Risk of falls if suitable access equipment isn't provided | Persons working on flatbeds                       | 2            | 4 | 8 | Edge protection must be fitted to prevent falls from the flatbed/trailer, Haulier to provide adequate handrailing to the trailer bed to avoid falls from height or man safe system                                                                                           | 1              | 4 | 4 | double ratchet straps through integral standards or similar provided by the haulier                                                         |

## Risk Assessment

|                    |                         |                                                                                           |                    |
|--------------------|-------------------------|-------------------------------------------------------------------------------------------|--------------------|
| Project Name       | Vine Street, Manchester | <b>Work activity: Manual Handling of Equipment/Materials Associated With Sheet Piling</b> |                    |
| Project Code       | E23181                  |                                                                                           |                    |
| Assessed By        | Richard Greenwood       |                                                                                           |                    |
| Date of Assessment | 10/12/2024              |                                                                                           |                    |
|                    |                         |                                                                                           | Document No. RA012 |

**Risk Assessment Key**

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

**Severity Key**

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

**Likelihood Key**

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                        | RISKS                                                                                                                                                                                                                                                                                                                                      | PEOPLE/GROUPS AT RISK                                                               | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RISK RATING    |   |   | Comments                         |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------------------------------|
|                                                            |                                                                                                                                                                                                                                                                                                                                            |                                                                                     | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L = LIKELIHOOD |   |   |                                  |
|                                                            |                                                                                                                                                                                                                                                                                                                                            |                                                                                     | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S = SEVERITY   |   |   |                                  |
|                                                            |                                                                                                                                                                                                                                                                                                                                            |                                                                                     | R=RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R = RATING     |   |   |                                  |
|                                                            |                                                                                                                                                                                                                                                                                                                                            |                                                                                     | L            | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L              | S | R |                                  |
| Handling of several types of fluid drums i.e. oil, ad-blue | Musculoskeletal injuries Short-term and/or superficial injuries - For example: cuts, bruises, sprains, tears, small fractures, muscle strain, etc. Usually caused by sudden and small unexpected accidents, e.g. losing grip and dropping a load, lifting an excessively heavy load at an awkward angle, or falling while carrying a load. | Persons carrying out manual handling activities where a significant risk is present | 3            | 3 | 9 | Eliminate or avoid so far as is reasonably practicable handling of items which pose a significant risk i.e. use of craneage<br>Where possible make use of lifting aids i.e. trolleys, fork trucks.<br>Where handling of equipment/materials is unavoidable, then adopt 2 persons lifting techniques.<br>Ensure a Manual Handling assessment has been made on the task in hand using the <b>T. I. L. E.</b> method:<br><b>Task,</b><br><b>Individual,</b><br><b>Load,</b><br><b>Environment</b><br>If unsure about weights and or individual physical capabilities individuals should seek advice from the SPUK Foreman/Manager | 1              | 3 | 3 | Suitable safety boots and gloves |

## Risk Assessment

|                                                                                           |                                                |                                                                                     |   |   |   |                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |  |
|-------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|---|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Handling assorted items of lifting accessories i.e. chains, shackles                      | Sprains, strains, crush injuries to feet/hands | Persons carrying out manual handling activities where                               | 3 | 3 | 9 |                                                                                                                                                                                                                                                                                                                                                                          | 1 | 3 | 3 |  |
| Handling of various lengths of bracket steel                                              | Sprains, strains, crush injuries to feet/hands | Persons carrying out manual handling activities where a significant risk is present | 3 | 3 | 9 |                                                                                                                                                                                                                                                                                                                                                                          | 1 | 3 | 3 |  |
| Handling of individual gas cylinders i.e. oxygen, propane – max 47kg                      | Sprains, strains, crush injuries to feet/hands | Persons carrying out manual handling activities where a significant risk is present | 3 | 3 | 9 |                                                                                                                                                                                                                                                                                                                                                                          | 1 | 3 | 3 |  |
| Individuals with pre-existing medical conditions associated with musculoskeletal injuries | Increased risks of injuries, ill-health        | Persons undertaking manual handling                                                 | 2 | 3 | 6 | Individuals with any pre-existing medical conditions which may affect their ability to carry out manual handling tasks in a safe and proper manner should in the first instance inform the SPUK Foreman/Manager.<br><br>TILE assessment must be completed before the individual undertakes any manual handling to ensure that it is within the individuals capabilities. | 1 | 3 | 3 |  |

# Risk Assessment

|                    |                         |                                              |                    |
|--------------------|-------------------------|----------------------------------------------|--------------------|
| Project Name       | Vine Street, Manchester | Work activity: Refuelling of Plant/Equipment |                    |
| Project Code       | E23181                  |                                              |                    |
| Assessed By        | Richard Greenwood       |                                              |                    |
| Date of Assessment | 10/12/2024              |                                              |                    |
|                    |                         |                                              | Document No. RA013 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                | RISKS                                                                   | PEOPLE/GROUPS AT RISK | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISK RATING    |   |   | Comments |
|--------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------|--------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                                                    |                                                                         |                       | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L = LIKELIHOOD |   |   |          |
|                                                                    |                                                                         |                       | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S = SEVERITY   |   |   |          |
|                                                                    |                                                                         |                       | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | R = RATING     |   |   |          |
|                                                                    |                                                                         |                       | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L              | S | R |          |
| Refuelling of plant / equipment Using Diesel/Petroleum or HVO Fuel | Fire/explosions<br>- Liquid spillages leading to ground/water pollution | Piling operatives     | 2            | 5 | 10 | Re- fuel in designated area well away watercourses and from work areas where hot works may take place.<br>- Spill kit must be available near bowser to soak up any spills from the nozzle when refuelling.<br>- Ensure that there is safe access & egress to the refuelling point on the machine; do not stand on the tracks of the machine, use a MEWP or podium steps<br>- Refuel away from watercourses<br>- Ensure the refuelling point is suitable and well-ventilated<br>- Ensure plant/equipment is shut off<br>- Allow time for machinery to cool down if possible<br>- No smoking/naked flames<br>- Confirm that all fittings, hoses, terminals and tanks are in good condition and free of leaks<br>- Avoid spilling or splashing fuel, for example, use fuel containers with a flexi pourer.<br>- Use of plant nappies and or drip trays, spill kits when refuelling.<br>- Marine based works use of adequate sized booms<br>- Spill response plan developed and briefed to workers<br>- Chemical resistant gloves to EN 374 to be worn<br>- Safety goggles to be worn to EN 166<br>Fire extinguishers to be present/close by i.e. Powder or CO2 Type | 1              | 5 | 5 |          |

## Risk Assessment

|                                 |                              |                   |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
|---------------------------------|------------------------------|-------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Use of unsuitable fuel bowser/s | Increased risks of spillages | Piling operatives | 2 | 5 | 10 | <p>Use approved double skinned /self-bunded bowzers with 110% of the tank capacity provided within the bund</p> <ul style="list-style-type: none"> <li>- Bowzers should be in good condition without leakage; hatch/fill point kept locked to prevent unauthorised use and where possible located in a position that is protected from vehicular/plant impact</li> <li>- Bowzers should be readily identifiable as SPUK hired/own plant i.e. labelled with company name and a contact number</li> <li>- The type of fuel and capacity of the tank/bowser</li> <li>-Hazard symbols displayed</li> <li>- Spill kit/plant nappy available when refuelling.</li> </ul> |  |  |  |  |
|---------------------------------|------------------------------|-------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

## Risk Assessment

|                    |                         |                                                                                 |       |
|--------------------|-------------------------|---------------------------------------------------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Use of Steel Skids When Pitching Sheet Piles (Singles and Pairs) |       |
| Project Code       | E23181                  |                                                                                 |       |
| Assessed By        | Richard Greenwood       |                                                                                 |       |
| Date of Assessment | 10/12/2024              |                                                                                 |       |
|                    |                         | Document No.                                                                    | RA017 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                                  | RISKS                                                                                                                                              | PEOPLE/GROUPS AT RISK                   | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                         | RISK RATING    |   |   | Comments                                                                               |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------------------------------------------------------------------------------------|
|                                                                                      |                                                                                                                                                    |                                         | L=LIKELIHOOD |   |   |                                                                                                                                                              | L = LIKELIHOOD |   |   |                                                                                        |
|                                                                                      |                                                                                                                                                    |                                         | S=SEVERITY   |   |   |                                                                                                                                                              | S = SEVERITY   |   |   |                                                                                        |
|                                                                                      |                                                                                                                                                    |                                         | R=RATING     |   |   |                                                                                                                                                              | R = RATING     |   |   |                                                                                        |
|                                                                                      |                                                                                                                                                    |                                         | L            | S | R |                                                                                                                                                              | L              | S | R |                                                                                        |
| Use of quick release shackles to lift pile up 500mm to allow skid to be placed under | Risk of sheet pile slipping from shackle, falling onto skid resulting in inadvertent movement of skid – risk of skid striking persons nearby       | Slinger/signaller                       | 2            | 3 | 6 | Steel handling shoes (slippers) should be used to raise sheet piles.                                                                                         | 1              | 3 | 3 | Use of quick release shackles is deemed an unsafe working practice and must be avoided |
| Use of unsuitable skids i.e. skids too long/short, timber skids                      | Risk of persons placing hands/arms under raised sheet pile - trap/crush injuries<br>- Oversized skids can result in overhangs causing obstructions | Slinger/signaller, other persons nearby | 2            | 2 | 4 | Use of suitable steel handling shoes i.e. single piles or pairs.<br><br>Ensure steel handling shoes have current LOLER certification and are fit for purpose | 1              | 2 | 2 | Works containers hold 4x handling shoes for use with (singles and pairs)               |
| Sheet piles stored on uneven ground                                                  | Risk of piles becoming unstable/toppling off stack                                                                                                 | Slinger/signaller, other persons nearby | 2            | 3 | 6 | Foreman to ensure ground conditions are fit for purpose – firm level ground so far as is reasonably practicable                                              | 1              | 3 | 3 | Principal Contractor to provide max ground bearing pressure details if required        |

## Risk Assessment

|                    |                         |                                                     |
|--------------------|-------------------------|-----------------------------------------------------|
| Project Name       | Vine Street, Manchester | Work activity: Pitching of Sheet Piles from Bundles |
| Project Code       | E23181                  |                                                     |
| Assessed By        | Richard Greenwood       |                                                     |
| Date of Assessment | 10/12/2024              |                                                     |
|                    |                         | Document No. RA018                                  |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                                                         | RISKS                                                                                      | PEOPLE/GROUPS AT RISK                    | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                         | RISK RATING    |   |   | Comments                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------|--------------|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                             |                                                                                            |                                          | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                              | L = LIKELIHOOD |   |   |                                                                                                                                                                            |
|                                                                                                             |                                                                                            |                                          | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                              | S = SEVERITY   |   |   |                                                                                                                                                                            |
|                                                                                                             |                                                                                            |                                          | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                              | R = RATING     |   |   |                                                                                                                                                                            |
|                                                                                                             |                                                                                            |                                          | L            | S | R  |                                                                                                                                                                                                                                                                                                                                              | L              | S | R |                                                                                                                                                                            |
| Use of the Dawson steel handling shoe for handling of steel sections, sheet piles and splitting from stacks | Risk of shoes not fitted properly leading to shoes slipping off end of pile during lifting | Slinger/Signaller , other persons nearby | 2            | 5 | 10 | Lifting chains must be of equal length<br>Shoes should be attached by a competent Slinger/Signaller<br>Do not exceed the critical minimum lift angle of 45°. Angles of less than 45° could result in overloading.<br>Ensure shoes and shackles are in good condition, certified and tagged as per SPUK colour chart for lifting accessories. | 1              | 5 | 5 | When lifting single sheet piles use 2x steel handling shoes.<br>When lifting Pairs of piles 4x steel handling shoes must be used                                           |
| Inserting skids under raised sheet piles (600mm)                                                            | Risk of inadequate skids being used (too long, insufficient load bearing capacity etc.     | Slinger/Signaller                        | 2            | 3 | 6  | Slinger/Signaller to coordinate the lifting of the sheet pile with the crane operator<br><br>Use of purpose made steel skids                                                                                                                                                                                                                 | 1              | 3 | 3 | Arms/hands not to be placed under the suspended sheet pile when inserting the timber skids<br>Skids designed to avoid the need for arms/hands to extend under raised piles |
| Attaching lifting shackle to end of sheet pile in raised position (raised by crane)                         | Trap, crush injuries to arms/hands                                                         | Slinger/Signaller                        | 2            | 3 | 6  | Slinger/Signaller to ensure sheet pile is fully supported by skids before attempting to attach lifting shackle.<br><br>Lifting shackle to display correct colour lifting inspection tag                                                                                                                                                      | 1              | 3 | 3 |                                                                                                                                                                            |
| Misuse of lifting shackle                                                                                   | Trap, crush injuries to arms/hands                                                         | Slinger/Signaller                        | 2            | 3 | 6  | Lifting shackle should not be used as a “quick fix” to raise the sheet pile                                                                                                                                                                                                                                                                  | 1              | 3 | 3 |                                                                                                                                                                            |

# Risk Assessment

|                    |                         |                                   |              |       |
|--------------------|-------------------------|-----------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Reversing Vehicles | Document No. | RA022 |
| Project Code       | E23181                  |                                   |              |       |
| Assessed By        | Richard Greenwood       |                                   |              |       |
| Date of Assessment | 10/12/2024              |                                   |              |       |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                          | RISKS                                                    | PEOPLE/GROUPS AT RISK           | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RISK RATING    |   |   | Comments                                                                                                                                                                                                                                                |
|--------------------------------------------------------------|----------------------------------------------------------|---------------------------------|--------------|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              |                                                          |                                 | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L = LIKELIHOOD |   |   |                                                                                                                                                                                                                                                         |
|                                                              |                                                          |                                 | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S = SEVERITY   |   |   |                                                                                                                                                                                                                                                         |
|                                                              |                                                          |                                 | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R = RATING     |   |   |                                                                                                                                                                                                                                                         |
|                                                              |                                                          |                                 | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L              | S | R |                                                                                                                                                                                                                                                         |
| Restricted/poor visibility – trailer blocking view of driver | Persons being struck/run over<br>- Plant/property damage | Persons near reversing vehicles | 2            | 5 | 10 | Client must provide Competent individuals to act as vehicle marshal and guide all reversing manoeuvres from public roads onto site.<br>A vehicle marshal:<br>- Must use a clear, agreed system of signalling.<br>- Must be visible to drivers at all times<br>- Must stand in a safe position, from which to guide the reversing vehicle without being in its way<br>- Must wear His visibility clothing, such as reflective vests, and ensure that any signals are clearly seen.<br><br>Once on site SPUK slinger/signallers will bank the deliveries using the same protocols as above. | 1              | 5 | 5 | People who do not need to be in reversing areas should be kept well clear<br><br>If drivers lose sight of the signallers, they must know to stop immediately. This is to made clear to all delivery drivers by the foreman/banksman on arrival to site. |

# Risk Assessment

|                    |                         |                                   |  |                    |
|--------------------|-------------------------|-----------------------------------|--|--------------------|
| Project Name       | Vine Street, Manchester | Work activity: Safe Use of Cranes |  |                    |
| Project Code       | E23181                  |                                   |  |                    |
| Assessed By        | Richard Greenwood       |                                   |  |                    |
| Date of Assessment | 10/12/2024              |                                   |  |                    |
|                    |                         |                                   |  | Document No. RA023 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                     | RISKS            | PEOPLE/GROUPS AT RISK                                                      | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RISK RATING    |   |   | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|------------------|----------------------------------------------------------------------------|--------------|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         |                  |                                                                            | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L = LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                         |                  |                                                                            | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | S = SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                         |                  |                                                                            | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | R = RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                         |                  |                                                                            | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L              | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Poor ground bearing capacity            | Failure of crane | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2            | 5 | 10 | Crane erection area prepared before crane build operations commence.<br>Work should not commence until SPUK are in receipt of a working platform certificate confirming that the working platform has been properly designed, constructed in accordance with the design, and that it will be regularly inspected and adequately maintained to ensure the integrity of the ground.<br>- SPUK Temporary works procedure to be followed.<br><br>- Ensure working platform is maintained correctly as per the TWD<br><br>- If the crawler crane is not offloaded onto the platform the haul road that it is travelling on must be constructed to BR470 | 1              | 5 | 5 | The principal contractor has a responsibility under CDM 2015 Regulations to ensure that all piling activities are carried out by suitably qualified persons, this includes the platform design. The working platform certificate is to be signed by the principal contractor to confirm that the design, construction and maintenance has been / will be carried out by competent persons.<br><br>SP UK Crane Supervisor on site to liaise with Client Representative to ensure that crane paths and roadways have been prepared to an acceptable standard and that the lifting operations area has been suitably cordoned off. |
| Collapse of underground buried services | Crane failure    | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2            | 5 | 10 | Check location of underground services before work commences.<br><br>Cat & Genny scan is the clients responsibility.<br><br>Client to confirm location and depth of services, expose services where required and create exclusion zones accordingly.<br><br>Permit to Dig/Break Ground must be issued by the client                                                                                                                                                                                                                                                                                                                                | 1              | 5 | 5 | SP UK Crane Supervisor on site to liaise with Client Representative to ensure that any underground services likely to affect the safe use of cranes on site have been clearly identified and cordoned off accordingly.                                                                                                                                                                                                                                                                                                                                                                                                          |

## Risk Assessment

|                                                         |                              |                                                                            |   |   |    |                                                                                                                                                                                                                                                           |   |   |   |                                                                                                                                                                                                          |
|---------------------------------------------------------|------------------------------|----------------------------------------------------------------------------|---|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crane failure due to overloading                        | Crane failure                | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Competent operatives complying with the Method Statement & Lift Plan.<br><br>Crane operator to be trained and hold CPCS card for the type of crane being used.                                                                                            | 1 | 5 | 5 | SP UK Crane Supervisor on site to ensure that Method Statement and Risk Assessment are complied with.                                                                                                    |
| Overloading due to RCI error                            | Crane failure                | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Regularly calibrated RCI function checked daily                                                                                                                                                                                                           | 1 | 5 | 5 | SP UK Planned Preventative Maintenance of equipment will ensure that RCI equipment is calibrated annually.<br>SP UK Crane Operators to carry out daily RCI function checks and record on Check Proof App |
| Electrocution from overhead or underground power cables | Electric shocks / fatalities | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Check area before work begins and identify demarcation zones.                                                                                                                                                                                             | 1 | 5 | 5 | SP UK Crane Supervisor to liaise with Client Representative and review area of lifting operations to ensure that cranes are not being worked near power lines.<br>Refer to HSE GS6 for guidance          |
| Clashes with other cranes or plant on site              | Damage to plant/property     | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Adequate warning signs in place that cranes are in use and ensure that signalling is agreed before work commences, either hand held two radios or hand signals used to communicate.<br><br>Ensure lift plans include slew restriction details if required | 1 | 5 | 5 | Client Representative to ensure that signage is posted and obeyed.                                                                                                                                       |
| Loads falling due to equipment failure.                 | Fatalities, damaged loads    | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Only certified lifting equipment which has been thoroughly examined is to be used.<br><br>Equipment attachment points must be confirmed as designed and fit for purposes                                                                                  | 1 | 5 | 5 | SP UK Crane Supervisor on site to maintain rigging certification and to confirm that lifting attachment points are designed and fit for the intended purpose.                                            |
| Loads falling due to rigging failure                    | Fatalities, damaged loads    | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Competent riggers complying with the Method Statement.<br>Loads to be slung as per the requirements of the Method Statement.<br><br>Ensure lifting accessories are detailed in the lift with plan with serial numbers and valid LOLER certification       | 1 | 5 | 5 | SP UK Crane Supervisor on site to ensure operatives comply with the requirements of the Method Statement and Risk Assessment.                                                                            |

## Risk Assessment

|                                                                                          |                              |                                                                            |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------|---|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personnel in way of moving loads or crane during crane erection or de rigging operations | Fatalities                   | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | <p>Restricted area for lifting operations with no unauthorised access.</p> <p>Create exclusion zones where required to stop unauthorised access to the work area using physical barriers (Heras Fencing/Crowd Barriers).</p> <p>High visibility clothing to be worn by all personnel involved in the lifting operations.</p> <p>Competent Banksman employed to ensure safe movement of lorries and trailer units.</p> | 1 | 5 | 5 | Client Representative to ensure that warning signs are posted and obeyed.                                                                                                                                                        |
| Attachment and detachment of rigging on the crane sections                               | Falls from height            | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | <p>Use of assist crane where access ladder not available.</p> <p>Full body harness with valid certification (BS EN 363: 2002) to be worn and used when working at height.</p> <p>Competent operatives trained in the use of fall arrest equipment permitted to use the MEWP for access</p>                                                                                                                            | 1 | 4 | 4 | SP UK Crane Supervisor to ensure that only trained and authorised operatives are permitted to use fall arrest equipment                                                                                                          |
| Wind loading during crane erection or de rigging operations                              | Crane failure                | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | SP UK Crane Erection Supervisor to comply with Method Statement guidance on maximum permissible wind speeds and Lift Plan                                                                                                                                                                                                                                                                                             | 1 | 3 | 3 | <p>SP UK Crane Supervisor on site to ensure operatives comply with the requirements of the Method Statement and Risk Assessment.</p> <p>Lift Plan Completed by Appointed Person for Lifting Operations A61 CPCS card holder.</p> |
| Lifting attachment failures                                                              | Increased risks of incidents | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | <p>Weight of loads are included in Appendix 2 of this document</p> <p>Total weight to be lifted known to within plus/minus 2%.</p> <p>Crane Operator monitoring crane loadings during lifting operation</p>                                                                                                                                                                                                           | 1 | 5 | 5 | SP UK Crane Supervisor on site to ensure operatives comply with the requirements of the Method Statement and Risk Assessment.                                                                                                    |
| Access and egress to crane by Operators and Crane Erection Supervision                   | Falls from height            | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Clear access to be maintained around crane at all times.                                                                                                                                                                                                                                                                                                                                                              | 1 | 4 | 4 | SP UK Crane Supervisor and Banksman to monitor crane access and egress                                                                                                                                                           |
| Entrapment from moving parts                                                             | Crush/trap injuries          | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | <p>Clear gap of a minimum 600 mm between the crane and any point of contact to be maintained at all times during the lifting operation.</p> <p>If 600mm gap cannot be maintained this area must be made into an exclusion zone to avoid crush injuries.</p>                                                                                                                                                           | 1 | 4 | 4 | SP UK Crane Supervisor and Banksman to monitor crane proximity to structures during lifting operations                                                                                                                           |
| Poor housekeeping                                                                        | Slips trips and falls        | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | Good Housekeeping in the erection area                                                                                                                                                                                                                                                                                                                                                                                | 1 | 3 | 3 | <p>SP UK personnel</p> <p>Client Representative personnel</p>                                                                                                                                                                    |

## Risk Assessment

|                                                      |                                                                                    |                                                                            |   |   |    |                                                                                                                                                                                                                                                                                         |   |   |   |                                                                       |
|------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-----------------------------------------------------------------------|
| Handling loads and ropes                             | Musculoskeletal injuries                                                           | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | All operatives engaged in materials handling are trained in kinetic handling                                                                                                                                                                                                            | 1 | 3 | 3 | SP UK Crane Supervisor on site                                        |
| Bruises and strains                                  |                                                                                    | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | Suitable Rigger gloves, hard hats, overalls and safety boots to be worn at all times.                                                                                                                                                                                                   | 1 | 3 | 3 | SP UK Crane Supervisor on site                                        |
| Communication failure during the lifting operation   | Poor communication leading to increased risk of incidents/injuries                 | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Hand signals to BS7121 will be used wherever deemed practical. Where deemed necessary by the Crane Erection Supervisor lifting operations may be carried out using hand held radios. When no radio command is heard all lifting operations must cease until communications are restored | 1 | 5 | 5 | SP UK Crane Supervisor on site and SP UK Crane Operators and Riggers. |
| Crane clash with site buildings/ structures          | Damage to plant/property                                                           | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Ensure that hand held two-way radios are available and in use on all crane where there is no clear line of sight from the Slinger Signaller to the Crane Operator. Crane Erection Supervisor to give toolbox talk on working with cranes in confined spaces prior to works commencing.  | 1 | 5 | 5 | SP UK Crane Supervisor on site and Crane Operators and Riggers.       |
| HAV's – use of hammers whilst rigging crane sections | Occupational health risks associated with vibratory tools – vibration white finger | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Use of Ready Reckoner for calculating trigger time on the vibratory equipment being used.<br><br>Rotation of user, wearing correct rigging gloves.<br>Wooden shaft handles                                                                                                              | 1 | 4 | 4 | SP UK Crane Supervisor on site                                        |
| Environmental Spillage                               | Pollution impacts                                                                  | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Adequate spill kits provided.<br>Appropriate containers provided to contain spillage.<br>Suitable waste segregation available on site.                                                                                                                                                  | 1 | 4 | 4 | SP UK Crane Supervisor on site                                        |
| Noise effects on personnel                           | Noise induced hearing loss                                                         | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Appropriate PPE provided to rigging personnel                                                                                                                                                                                                                                           | 1 | 4 | 4 | SP UK Crane Supervisor on site                                        |
| Spills of fluids and greases                         | Pollution impacts                                                                  | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | Ensure that all leaks are reported, and an adequate amount of spill kits are available to use should a spillage occur.<br>Store all oils and greases in a suitable container within a bunded area.<br>All SPUK operatives briefed on COSHH assessments.                                 | 1 | 3 | 3 | SP UK Crane Supervisor on site                                        |

# Risk Assessment

|                    |                         |                                            |       |
|--------------------|-------------------------|--------------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Working in a Confined Space |       |
| Project Code       | E23181                  |                                            |       |
| Assessed By        | Richard Greenwood       |                                            |       |
| Date of Assessment | 10/12/2024              |                                            |       |
|                    |                         | Document No.                               | RA024 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS      | RISKS                                            | PEOPLE/GROUPS AT RISK           | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RISK RATING    |   |   | Comments                                                            |
|--------------------------|--------------------------------------------------|---------------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|---------------------------------------------------------------------|
|                          |                                                  |                                 | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | L = LIKELIHOOD |   |   |                                                                     |
|                          |                                                  |                                 | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S = SEVERITY   |   |   |                                                                     |
|                          |                                                  |                                 | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R = RATING     |   |   |                                                                     |
|                          |                                                  |                                 | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | L              | S | R |                                                                     |
| Poisonous gases, vapours | Persons being exposed/overcome by gases, vapours | Persons entering confined space | 2            | 5 | 10 | All Persons Entering a Confined Space Must Have Received Appropriate Training.<br>All Operatives to Be Inducted and Made Fully Aware of the Procedure for Entry into Confined Spaces.<br>Testing of Confined Space Atmosphere Before Entry.<br>Entry Permit System Must Be in Place<br>Constant Monitoring of Atmosphere for Duration of Work.<br>Wearing of Suitable PPE.<br>Suitable and Sufficient Equipment and Procedures to Carry Out Any Necessary Rescue Safely.<br>Effective Means of Communication.<br>There Must Be at Least 2 Persons Present Whilst Working in Confined Spaces (NEVER WORK ALONE). | 1              | 5 | 5 | Rescue plan must be trialled before work can fully commence         |
| Flammable gases          | Fire and or explosions                           | Persons entering confined space | 2            | 5 | 10 | No Smoking or Hot Works.<br>Constant Monitoring of Atmosphere for Presence and Levels of Gases.<br>No Nylon Materials to Be Worn or Any Equipment to Be Used Which May Cause Static Electricity.                                                                                                                                                                                                                                                                                                                                                                                                                | 1              | 5 | 5 | Trial rescue plan before undertaking to work to ensure its validity |

## Risk Assessment

|                   |                                          |                                 |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |  |
|-------------------|------------------------------------------|---------------------------------|---|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Oxygen enrichment | Fire and or explosions                   | Persons entering confined space | 2 | 5 | 10 | <p>Before Entering a Confined Space a Permit to Work System Must Be in Place.</p> <p>The Confined Space Must Be Checked for Oxygen Enrichment - Using A Gas Monitor.</p> <p>This Procedure Must Be Repeated Prior to Each Entry and Recorded.</p> <p>Under No Circumstances Must Anyone Enter a Confined Space If the Audible Alarm Is Set Off. (Oxygen Should Read = 21.), (Explosive Gas = 0.0), (Poison Gas = 0.0).</p> <p>There Must Be at Least 2 Persons Present Whilst Working in Confined Spaces (NEVER WORK ALONE).</p> <p>One Man to Remain on Top (Top Man) Outside the Confined Space, To Communicate with The Inside Man.</p> <p>The Top Man Must Never Leave His Position at The Top of the Confined Space.</p> <p>A Full Safety Harness Must Be Worn with A Life Line Attached to The Harness.</p> <p>The Life Line Must Either Be Held by The Top Man or Attached to A Tripod with Pulley Block at The Access Point.</p> <p>There Must Be No Smoking in The Confined Space or by The Top Man. Equipment Which May Release Oxygen Not to Be Used</p> | 1 | 5 | 5 |  |
| Lack of oxygen    | Persons being affected by lack of oxygen | Persons entering confined space | 2 | 5 | 10 | There Must Be Constant Monitoring of The Atmosphere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | 5 | 5 |  |
| Hot temperatures  | Dehydration                              | Persons entering confined space | 2 | 5 | 10 | <p>Temperatures to be monitored</p> <p>Provision of fresh air supply where required</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 | 5 | 5 |  |
| Dusts             | Lung/eye irritations                     | Persons entering confined space | 2 | 5 | 10 | <p>Eliminate, Reduce Dust Creating Processes.</p> <p>Control Dust Using Extractors or Mist Sprays.</p> <p>Suitable Respiratory Protection Relevant to The Likely Conditions to Be Encountered Will Be Identified in The Method Statement</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 | 5 | 5 |  |
| Access/egress     | Risk of falls                            | Persons entering confined space | 2 | 5 | 10 | Adequate access/egress provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 5 | 5 |  |
| Poor illumination |                                          | Persons entering confined space | 2 | 5 | 10 | <p>Good Housekeeping.</p> <p>Provision of Adequate Intrinsically Safe Low Voltage Lighting</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | 5 | 5 |  |

## Risk Assessment

|                                      |  |                                 |   |   |    |                                                                                                                                                                                                                                                                |   |   |   |  |
|--------------------------------------|--|---------------------------------|---|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Residual hazards from gases, vapours |  | Persons entering confined space | 2 | 5 | 10 | Constant Monitoring of Atmosphere for Presence and Levels of Gases.                                                                                                                                                                                            | 1 | 5 | 5 |  |
| Sewage hazards                       |  | Persons entering confined space | 2 | 5 | 10 | Inoculations Against Any Serious Diseases.<br>Waterproof Coverings for Any Skin Cuts or Abrasions.<br>Provision of Suitable Washing Facilities (Must Be Readily Available), Wash Hands Always Before Eating or Drinking.<br>Wear Suitable P.P.E. When Working. | 1 | 5 | 5 |  |
| Noise                                |  | Persons entering confined space | 2 | 5 | 10 | Eliminate as Far as Reasonably Practicable Any Processes Likely to Exceed 80dba.<br>Wear Suitable Ear Protection to EN 352 1.                                                                                                                                  | 1 | 5 | 5 |  |

# Risk Assessment

|                    |                         |                                    |       |
|--------------------|-------------------------|------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Contaminated Ground |       |
| Project Code       | E23181                  |                                    |       |
| Assessed By        | Richard Greenwood       |                                    |       |
| Date of Assessment | 10/12/2024              | Document No.                       | RA022 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS | RISKS                                                                                                                                               | PEOPLE/GROUPS AT RISK                        | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RISK RATING    |   |   | Comments                                                                                                                                        |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                                                                                                                     |                                              | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L = LIKELIHOOD |   |   |                                                                                                                                                 |
|                     |                                                                                                                                                     |                                              | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S = SEVERITY   |   |   |                                                                                                                                                 |
|                     |                                                                                                                                                     |                                              | R=RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R = RATING     |   |   |                                                                                                                                                 |
|                     |                                                                                                                                                     |                                              | L            | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L              | S | R |                                                                                                                                                 |
|                     |                                                                                                                                                     |                                              |              |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |   |   |                                                                                                                                                 |
| Contaminated Ground | Inhalation, Ingestion, Skin Contact of Contaminants<br>Respiratory Illness, Nausea<br>Headaches, Dermatitis, Burns, Chemical Burns<br>Toxic Effects | All Operatives Working in Contaminated Areas | 2            | 4 | 8 | The principal contractor must give specific inductions regarding working in contaminated areas to all SPUK operatives.<br>- if unknown contaminated earth is uncovered or detected, then stop works immediately, move to a position of safety and contact the client/pc representative for investigation<br>- dependant on the actual contaminant risks and exposure risks as identified by the pc, SPUK will ensure that suitable and sufficient control measures are adhered to, including ppe requirements and external monitoring (provided by 3rd party competent organisation).<br>- no smoking, eating or drinking on site.<br>- wear appropriate protective clothing always whilst working by contaminated ground.<br>- all cuts or grazes to be thoroughly washed and covered with a waterproof dressing.<br>- prior to break times or finishing time, remove all protective clothing in the dirty conditions changing room prior to washing and changing into clean clothing. (Principal contractor will provide if required).<br>- where provided, always use the decontamination facility to ensure good personal hygiene.<br>- no unauthorised persons to enter contaminated work area.<br>- report any health disorders to your supervisor.<br>- specific induction in working in contaminated areas to be given to operatives.<br>- record all health disorders in accident book.<br>- barriers and warning signs to be erected and maintained. | 1              | 4 | 4 | All H&S concerns must be reported to Site Managmeent and SPUK Contracts Mnaager and/or SPUK HSEQ Manager<br><br>Refer to COSHH regulations 2002 |

## Risk Assessment

|                                          |                                                                                                                                                     |                                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |  |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Vapour Release and Monitoring Activities | Inhalation, Ingestion, Skin Contact of Contaminants<br>Respiratory Illness, Nausea<br>Headaches, Dermatitis, Burns, Chemical Burns<br>Toxic Effects | All Operatives Working in Contaminated Areas | 2 | 4 | 8 | Utilisation of Vapour Monitoring Competent Person / Company and include SSOW for all monitoring activities and vapour release.<br>- Follow the EH40 Workplace Exposure Limit for exposure limits.<br>- Limit the Numbers of Workers in the direct vicinity.<br>- Use of RPE and additional PPE if required.<br>- 100% Supervision of Monitoring Competent Person at all times to ensure safe movement and separation from Moving Plant, equipment and rotating parts.<br>- Ensure First Aid Facilities / Emergency Procedures are in place as per RAMS<br>- Utilise the Dirty Conditions/Clean Conditions Changing Room<br>- Forced air movers / Ventilation Systems if needed.<br>- Toolbox talks and briefings given as required. | 1 | 4 | 4 |  |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|

# Risk Assessment

|                    |                         |                                                       |       |
|--------------------|-------------------------|-------------------------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Working Alongside Operational Railways |       |
| Project Code       | E23181                  |                                                       |       |
| Assessed By        | Richard Greenwood       |                                                       |       |
| Date of Assessment | 10/12/2024              |                                                       |       |
|                    |                         | Document No.                                          | RA027 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital   |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS              | RISKS                                         | PEOPLE/GROUPS AT RISK                          | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RISK RATING    |   |   | Comments                                                                                                                                               |
|----------------------------------|-----------------------------------------------|------------------------------------------------|--------------|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                               |                                                | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | L = LIKELIHOOD |   |   |                                                                                                                                                        |
|                                  |                                               |                                                | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S = SEVERITY   |   |   |                                                                                                                                                        |
|                                  |                                               |                                                | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R = RATING     |   |   |                                                                                                                                                        |
|                                  |                                               |                                                | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | L              | S | R |                                                                                                                                                        |
| Working Adjacent to Live Railway | Overturning/Collapse onto Operational Railway | Rig/CraneOperator<br>Site Ops<br>Third Parties | 2            | 5 | 10 | Ensure Method Statement is approved and client has issued Work Package Plan & Task Briefings.<br>If necessary, Ensure that the Network Rail Asset Protection Team has been informed of the work.<br>Method statement giving full details of operations.<br>Crane to be rigged and de rigged as per the CPA-CIG-Mobile-Cranes-Alongside-Railways-181201<br>Collapse Zones MUST be established and adhered to.<br>Crane to always slew away from operational railway during lifting and handling operations.<br>Slew restrictors to be fitted and reset daily.<br>Crane to operate with jib as near to parallel as possible to operational railway<br>Slinger/signaller to be fully briefed on slewing operations.<br>Engineered piling platform to be installed and maintained by Principal Contractor<br>Ensure all employees involved in the job are suitably and sufficiently trained (PTS) and the required passes / cards are in place. | 1              | 5 | 5 | Ensure the client is aware of their duties i.e., informing the asset protection of team of any work that is within 4m of a Network Rail Asset Boundry. |
| Lifting Operations               | Load Falling onto Operational Railway         | Third Parties                                  | 2            | 5 | 10 | Crane to always slew away from operational railway during lifting and handling operations<br>Slew restrictors to be fitted and reset on a minimum of daily basis.<br>Crane to operate with jib as near parallel as practicable to operational railway.<br>Lifting Plan to Detail Safe System of Work<br>Slinger/Signaller to fully brief on slewing operations.<br>Tag Lines Should Be Attached to All Lifts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1              | 5 | 5 | Ensure the client is aware of their duties i.e., informing the asset protection of team of any work that is within 4m of a Network Rail Asset Boundry. |

# Risk Assessment

|                    |                         |                                      |
|--------------------|-------------------------|--------------------------------------|
| Project Name       | Vine Street, Manchester | Work activity: Overhead Obstructions |
| Project Code       | E23181                  |                                      |
| Assessed By        | Richard Greenwood       |                                      |
| Date of Assessment | 10/12/2024              |                                      |
|                    |                         | Document No. RA029                   |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                          |
|-------|-----------------------------------|
| 1     | Minor Injury (First Aid)          |
| 2     | Minor Injury (Hospital Treatment) |
| 3     | 7 Day Injury                      |
| 4     | Specified Injury                  |
| 5     | Death                             |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS    | RISKS                             | PEOPLE/GROUPS AT RISK | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RISK RATING    |   |   | Comments                                                                     |
|------------------------|-----------------------------------|-----------------------|--------------|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|------------------------------------------------------------------------------|
|                        |                                   |                       | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | L = LIKELIHOOD |   |   |                                                                              |
|                        |                                   |                       | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S = SEVERITY   |   |   |                                                                              |
|                        |                                   |                       | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | R = RATING     |   |   |                                                                              |
|                        |                                   |                       | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | L              | S | R |                                                                              |
| Electrical Power Lines | Machinery contact with live lines | Plant operator        | 2            | 5 | 10 | Work in accordance with <b>Avoiding Danger from Overhead Powerlines HSE Guidance Note GS6</b><br>All Electrical Power Lines Must be noted on the Services Drawings<br>Principal Contractor to consult the Local Power/Utility provider to determine Voltage Range and Safe Working Distances.<br>The Principal Contract MUST issue a Permit to Work if an isolation is required.<br>Safe Working Distances Must be adhered to and Slew Restrictors installed.<br>Collapse Zones MUST be established and adhered to.<br>use of Guide Ropes if required<br>Lifting Plans must identify all obstructions prior to commencing works.<br>All Jibs and booms MUST be stowed or placed in Travel position prior to moving.<br>Do NOT unload or Load under any Overhead Lines.<br>Do Not access Cab roofs or any position of Height under any Overhead Lines including Back of Low loaders<br>NO Working at height in or around Electrical Overhead Lines.<br>All Jibs and booms MUST be stowed or placed in Travel position prior to moving. | 1              | 5 | 5 | Eliminate the need to work near the overhead lines and obstacles if possible |

## Risk Assessment

|                                                  |                                                 |                |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |  |
|--------------------------------------------------|-------------------------------------------------|----------------|---|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Gantries, Bridges, Pipe Racks<br>Trees and Fauna | Contact with<br>gantries, bridges,<br>trees etc | Plant operator | 2 | 5 | 10 | <p>Safe Working Distances Must be adhered to and Slew Restrictors installed.</p> <p>Collapse Zones MUST be established and adhered to.</p> <p>Care must be taken on MEWPS to prevent Trapping and crushing. Use of Anti-entrapment” devices (ONLY as a secondary Measure).</p> <p>Safe Working Distances Must be adhered to and Slew Restrictors installed.</p> <p>Collapse Zones MUST be established and adhered to.</p> <p>Correct use of Guide Ropes if required</p> <p>Lifting Plans must identify all obstructions prior to commencing works.</p> <p>Report any Collisions immediately to the Piling Foreman and Principal Contractor.</p> <p>All Jibs and booms MUST be stowed or placed in Travel position prior to moving.</p> <p>Principal Contractor Must ensure that where required Trees and Fauna can be trimmed back to allow safe access to perform the works.</p> | 1 | 5 | 5 |  |
|--------------------------------------------------|-------------------------------------------------|----------------|---|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|

# Risk Assessment

|                    |                         |                                       |       |
|--------------------|-------------------------|---------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Slips, Trips and Falls |       |
| Project Code       | E23181                  |                                       |       |
| Assessed By        | Richard Greenwood       |                                       |       |
| Date of Assessment | 10/12/2024              |                                       |       |
|                    |                         | Document No.                          | RA030 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                             | RISKS                       | PEOPLE/GROUPS AT RISK                          | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RISK RATING    |   |   | Comments |
|---------------------------------------------------------------------------------|-----------------------------|------------------------------------------------|--------------|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                                                                 |                             |                                                | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L = LIKELIHOOD |   |   |          |
|                                                                                 |                             |                                                | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S = SEVERITY   |   |   |          |
|                                                                                 |                             |                                                | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | R = RATING     |   |   |          |
|                                                                                 |                             |                                                | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L              | S | R |          |
| Slipping on wet/Icy surfaces and improper footwear for the working environment. | Sprains, strains, fractures | All accessing site                             | 2            | 5 | 10 | Footways/paths in good condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1              | 5 | 5 |          |
| Unsafe ladders, steps                                                           | Falls from height           | Persons using ladders, step ladders, scaffolds | 2            | 5 | 10 | Ladders are only to be used for access and inspection and duration of less than 30 mins.<br>Ensure all work at height is properly planned.<br>Permit required for any work taking place of ladders/stepladders.<br>Any ladder must be inspected every months and the inspection must be recorded, a visual inspection must be undertaken before each use to ensure there is no damage to the ladder.<br>Ensure scaffold has been erected by a competent person and signed off, checks must take place every 7 days or if adverse weateher conditions could have affected the scaffold stability.<br>Suitable safety boots with ankle support to be worn. | 1              | 5 | 5 |          |
| Obstruictions in and on floors and walkways. Uneven Ground                      | Trips, falls                | All accessing site                             | 2            | 5 | 10 | Good housekeeping practices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1              | 5 | 5 |          |

## Risk Assessment

|                           |                                                                   |                    |   |   |    |                                                                                                                                            |   |   |   |  |
|---------------------------|-------------------------------------------------------------------|--------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Poor lighting             | Slips, trips, falls                                               | All accessing site | 2 | 5 | 10 | Background lighting provided by the principal contractor to all areas of work and walkways on site..<br><br>Task lighting provided by SPUK | 1 | 5 | 5 |  |
| Access to / from vehicles | Falls, jumping down from vehicle cab, sprains, strains, fractures | Vehicle drivers    | 2 | 5 | 10 | Use vehicles steps provided                                                                                                                | 1 | 5 | 5 |  |

# Risk Assessment

|                    |                         |                                    |       |
|--------------------|-------------------------|------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Hot Works / Welding |       |
| Project Code       | E23181                  |                                    |       |
| Assessed By        | Richard Greenwood       |                                    |       |
| Date of Assessment | 10/12/2024              |                                    |       |
|                    |                         | Document No.                       | RA031 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                               | RISKS                                                                                                                                       | PEOPLE/GROUPS AT RISK                        | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RISK RATING    |   |   | Comments                                                                                                                                                                                                                                                            |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   |                                                                                                                                             |                                              | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | L = LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                     |
|                                                   |                                                                                                                                             |                                              | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | S = SEVERITY   |   |   |                                                                                                                                                                                                                                                                     |
|                                                   |                                                                                                                                             |                                              | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R = RATING     |   |   |                                                                                                                                                                                                                                                                     |
|                                                   |                                                                                                                                             |                                              | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | L              | S | R |                                                                                                                                                                                                                                                                     |
| Welding                                           | Fumes create varying mixtures of airborne gases and very fine particles that can cause a range of respiratory ill health effects if inhaled | Welder/Site Staff/third parties              | 2            | 5 | 10 | <b>Welding</b><br><b>Tack Welding</b> – FFP3 (En 149) disposable mask or half mask - Under 1 hour duration consistent welding.<br><b>Full Welding Runs</b> – Air Fed Welding Helmet &/or LEV - Over 1 hour duration of welding in a shift<br><b>Welding In confined areas</b> -<br>Airfed welding helmet and Extraction Unit<br>Use an FFP3 disposable mask or half-mask with P3 filter (PDF) , for work of up to an hour<br>Use battery-powered air-fed protective equipment for longer duration work, with a minimum assigned protection factor of 20 (APF20)<br>ensure RPE wearers are clean shaven and provide face-fit testing for them<br>For welding outdoors, local exhaust ventilation will not work, so workers should use suitable RPE to control exposure. | 1              | 5 | 5 | Persons wearing FFP3 masks for welding should have attended face fit training and be clean shaven or wear an airflow device                                                                                                                                         |
| Storage of diesel on site and refuelling of plant | Fire                                                                                                                                        | Persons refuelling plant<br>Persons close by | 2            | 5 | 10 | Diesel bowsters, double skinned and approved EN types<br>- Bowsters stored away from buildings and gas storage facilities where practicable<br>- Fuel Bowsters to remain locked when not in Use<br>- Emergency procedures in place along with trained personnel.<br>- Adequate fire extinguishers available.<br>- Site Fire Plan in place<br>- No smoking/naked flames near bowser                                                                                                                                                                                                                                                                                                                                                                                     | 1              | 5 | 5 | All spills must be cleaned and correctly disposed of in accordance with Spill Response Plan<br>- Safety warning signage should be in place at all times<br>- Maintain minimum amounts of diesel on site<br>- Plant nappies under bowsters<br>- Spill kits available |

## Risk Assessment

|                                                         |                                                                                                                                             |                                                                             |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |                                                                                                                                                                                                                                              |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hot works – welding/burning using oxy/propane equipment | Fire / explosions Flashbacks                                                                                                                | Welder/burners<br>Persons close by                                          | 2 | 5 | 10 | Competent and trained Persons carrying out hot works i.e. welding/burning<br>- hot works Permit issued prior to work commencing. No works to begin without a Permit<br>- Oxy/propane pre-start checklist to be completed by welders/burners<br>- Plant and equipment well maintained and always follow manufacturer's instructions where applicable- Adequate fire extinguishers available and close by during hot works<br>burners/cutters to purge both purge Oxy/propane hoses prior to igniting burning torch                                                                                                                                                                                                | 1 | 5 | 5 | All work areas should be provided with an adequate means of escape.<br>- Always use Flash Back arrestors.<br>- Ensure all gas cylinders that are portable are carried in a secure trolley or frame.<br>- Fire extinguishers - Powder or foam |
| Hot works – Welding                                     | Fumes create varying mixtures of airborne gases and very fine particles that can cause a range of respiratory ill health effects if inhaled | Welder/burners doing the welding/brazing/cutting, but also by others nearby | 2 | 5 | 10 | Minimum requirements for PPE are:<br>- Fire retardant coveralls (full length) EN 471<br>- Welders gauntlets EN 12477<br>- Welders visor EN 175<br>- use an FFP3 disposable mask or half-mask with P3 filter (PDF) , for work of up to an hour<br>- use battery-powered air-fed protective equipment for longer duration work, with a minimum assigned protection factor of 20 (APF20)<br>- ensure RPE wearers are clean shaven and provide face-fit testing for them<br>For welding outdoors, local exhaust ventilation will not work, so workers should use suitable RPE to control exposure<br>- FFP3 disposable mask when thermal cutting<br>- Safety boots EN 20345 (Non-Rigger)<br>- Head protection EN 397 | 1 | 5 | 5 | Persons wearing FFP3 masks should have attended face fit training for welding purposes.                                                                                                                                                      |
| Hot works – Burning/Cutting using oxy/propane equipment | Burns, eye damage                                                                                                                           | Operatives, Site Staff, Third parties                                       | 2 | 5 | 10 | Minimum requirements for PPE are:<br>- Fire retardant coveralls (full length) EN 471<br>- Welders gauntlets EN 12477<br>- Welders visor Shade 4 - EN 175<br>- Safety boots EN 20345 (Non-Rigger)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 | 5 | 5 | Steel Grade Standard EN10248 does not contain cadmium.<br><br>Note - Piles must be clean and uncoated, free from contamination - if any of these are present then suitable RPE should be worn.                                               |

## Risk Assessment

|                                                                            |                                                                                                                                                                                                                                                |                                    |   |   |    |                                                                                                                                                                                                                                                                                                                                                   |   |   |   |                                                                                                              |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--------------------------------------------------------------------------------------------------------------|
| Gas cylinder design                                                        | Injury to persons or damage to property if cylinders are accessed / handled incorrectly by unauthorised persons - External fire or heat impacting on cylinders in storage could cause catastrophic failure of the cylinders due to overheating | Welder/burners<br>Persons close by | 2 | 5 | 10 | Cylinders will be stored in a secure lockable enclosure that prevents access to unauthorised persons- Enclosure should be designed and constructed from appropriate, robust, materials suitable for the location and possible risks e.g. to prevent theft or access by unauthorised persons (such as children)                                    | 1 | 5 | 5 | Cages to display safety warning signs                                                                        |
| Manual Handling of gas cylinders                                           | Manual handling injury or damage to property if cylinders are handled incorrectly                                                                                                                                                              | Welder/burners                     | 2 | 5 | 10 | All persons required to handle gas cylinders or packages are to have had adequate training in manual handling- Use of trolley aids should be secured in a suitable - Cylinders should be secured in a suitable cylinder trolley and not be left freestanding                                                                                      | 1 | 5 | 5 | Maintain PUWER Register of gas cylinders on site, including Safety Data Sheets                               |
| Incorrect use of and oxygen and fuel-gas                                   | Fire resulting from the incorrect use of the package e.g. regulator pressures set wrongly                                                                                                                                                      | Welder/burners                     | 2 | 5 | 10 | Trained and competent persons using oxy/propane gas- Persons to understand the hazards and safety precautions required for each gas. - Briefed on COSHH assessment- Carry out pre-use equipment checks on the oxygen and fuel-gas                                                                                                                 | 1 | 5 | 5 | Ensure components with an expiry life are in-date for use in accordance with manufacturers inspection regime |
| Accidental ignition of flammable materials during metal cutting or welding | If the package is used close to flammable liquids or solids these can be ignited by sparks from the gas cutting or welding activity. The package could also be impacted by the resulting fire                                                  | Welder/burners                     | 2 | 5 | 10 | Clear the immediate work area of any flammable materials and or put in place suitable fire screens or blankets to prevent contact between sparks and flammables                                                                                                                                                                                   | 1 | 5 | 5 |                                                                                                              |
| Hose damage during metal cutting / welding or hose leaking due to aging    | Fuel gas release could cause a fire if ignited and the fire could impact on the gas cylinders or the gas cylinders are depressurised                                                                                                           | Welder/burners                     | 2 | 5 | 10 | Position gas hoses out of the line of fire from the flame or metal spatter<br>Where hoses are attached together use proprietary clips.<br>Do not tape hoses together (this can impair visual inspection)<br>Only use hoses of an appropriate length.<br>Keep as short as practical.<br>As necessary keep the gas cylinders close to the work area | 1 | 5 | 5 |                                                                                                              |

## Risk Assessment

|                                                                                         |                                                                                 |                |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |  |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------|---|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Residual hot spot or smouldering fire after metal cutting or welding.                   | Localised fire escalating to a major fire                                       | Welder/burners | 2 | 5 | 10 | Carry out Fire Watch of working area after completion of hot work for a minimum of 60mins to ensure there are no residual hot spots or smouldering fires that could escalate to a large fire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | 5 | 5 |  |
| The use of Flash Back Arrestors. NOTE: Mandatory under the Acetylene Safety Regulations | Fire caused using a gas cylinder which has not had flash back arrestors fitted. | Welder/burners | 2 | 5 | 10 | Flash Back Arrestors shall be fitted to the outlet of both the oxygen and the fuel-gas pressure regulators<br>Flash Back Arrestors shall comply with BS EN 730<br>- With extended hoses, a Flash Back Arrestor should be fitted at the torch end<br>- Replace disposable Flash Back Arrestors after a flashback or backfire<br>- Flash Back Arrestor's of the resettable type should be reset as per the manufacturer's instructions<br>- Resettable Flash Back Arrestors shall be replaced after 5 years or at the manufacturers recommended intervals<br>- The causes for a flashback or backfire shall be investigated to identify any damaged or faults to the equipment (particularly the nozzle) before trying to reuse the oxygen and fuel-gas package                                                                                                                                                                    | 1 | 5 | 5 |  |
| Pressure Regulators                                                                     | Fire, burst hoses                                                               | Welder/burners | 2 | 5 | 10 | Ensure regulators are matched with their gas service;<br>An oxygen regulator only used in oxygen service;<br>A propane regulator used only in propane service. -<br>All regulators to be labelled accordingly.<br>Regulators with damaged gauges or connectors shall not be used-<br>Use clean hands or gloves when assembling oxygen equipment e.g. attaching a regulator to a new cylinder or attaching the hoses to the blowpipe or torch.<br>DO NOT USE OIL OR GREASE during assembly<br>Ensure daily pre use checks are undertaken on regulators to ensure safety blow off device is clean and free from debris.<br>Regulator creep to be checked on ad-hoc basis by H&S advisor/Manager; any regulators found to be creeping or in poor condition to be taken out of service.<br>All regulators to receive functional check annually<br>Regulators should be replaced every 5 years or at the manufacturers recommendation | 1 | 5 | 5 |  |
| Oxygen and hydrocarbon reaction                                                         | Fire affecting the package and the surrounding area                             | Welder/burners | 2 | 5 | 10 | Never attempt to lubricate or use thread sealing tape on gas sealing surfaces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 5 | 5 |  |

# Risk Assessment

|                    |                         |                                                |       |
|--------------------|-------------------------|------------------------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Maintenance and Repair of Plant |       |
| Project Code       | E23181                  |                                                |       |
| Assessed By        | Richard Greenwood       |                                                |       |
| Date of Assessment | 10/12/2024              |                                                |       |
|                    |                         | Document No.                                   | RA032 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity            |
|-------|---------------------|
| 1     | Minor Injury (First |
| 2     | Minor Injury        |
| 3     | 7 Day Injury        |
| 4     | Specified Injury    |
| 5     | Death               |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS      | RISKS                                                                                                                      | PEOPLE/GROUPS AT RISK | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RISK RATING    |   |   | Comments |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                          |                                                                                                                            |                       | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L = LIKELIHOOD |   |   |          |
|                          |                                                                                                                            |                       | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S = SEVERITY   |   |   |          |
|                          |                                                                                                                            |                       | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | R = RATING     |   |   |          |
|                          |                                                                                                                            |                       | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L              | S | R |          |
| Moving Vehicles          | Struck by Moving Vehicle                                                                                                   | Fitter                | 2            | 5 | 10 | Always Follow the Site Rules When Moving Around a Site.<br>-Wear Hi Visibility Clothing <u>at All Times</u> to EN 20471 or where further Risk Assessment dictates (eg Rail or Highway)<br>- Do Not Work in an Area Where Vehicles or Plant Are Moving.<br>- A Site Induction Must Be Received Before Commencing Work On a New Site.<br>- Ensure You Are Familiar with The Sites Safe Working Procedures                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1              | 5 | 5 |          |
| Lone Working             | Any Hazards Becoming Realised May Be of Increased Severity.                                                                | Fitter                | 2            | 5 | 10 | No Lone working to take place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1              | 5 | 5 |          |
| Unfamiliar Working Areas | Struck by Moving Vehicle.<br>Work in Restricted Area Resulting in Exposure to Electricity, Substances Hazardous to Health. | Fitter                | 2            | 5 | 10 | Never Work in an Area That You Consider to Be Dangerous.<br>- Ensure Your Work Area Is barriered Off<br>- Ensure Your Work Area has been inspected to identify and control any further potential hazards and changes to Risk Control Measures.<br>- Wear High-Viz Clothing at All Times.<br>- Remain in Communication with Base Workshop at Regular Intervals<br>- Park Service Van in Such as Position That It Will Offer You Some Protection by Acting -as A Barrier Between You and Traffic or Other Vehicles.<br>- When You Park the Service Van, Turn The Steering Wheel So That the Wheels Are Facing Away from Your Work Area and Any Live Traffic Then Engage the Steering Lock.<br>- Ensure Your Warning Beacon Lights Are On to Alert Others of Your Presence.<br>- Ensure Full Compliance with the requirements of the Highway Code where applicable. | 1              | 5 | 5 |          |

## Risk Assessment

|                                                       |                                                  |                                    |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |  |
|-------------------------------------------------------|--------------------------------------------------|------------------------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Low Lighting Levels                                   | Slip, Trip, Fall Inadequate Light for Task       | Fitter Or Site Staff Site Visitors | 2 | 5 | 10 | Where Possible Complete Tasks During Daylight Hours,<br>If This Is Not Possible You Must;<br>Carry A Light of Sufficient Strength to Allow You to Complete the Task Safely and Ensure That the Equipment Is in Good Working Order When Your Shift Commences Or; Have The Vehicle Moved to A Well Lit Area So That Your Visibility Is Improved Maintain Good Housekeeping at all times                                                                                                                                                                                                                                                                                                                                          | 1 | 5 | 5 |  |
| No or limited Access to Specialist Tools or Equipment | Incorrect Use of Tools                           | Fitter Or Site Staff               | 2 | 3 | 6  | If A Job Requires a Specialist Tool or Piece of Equipment, The Job Must Not Be Carried Out Until You Have It. Under No Circumstances Should a Make Shift Be Used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 | 3 | 3 |  |
| Adverse Weather                                       | Slips, Trips, Falls<br>Hypothermia, Heat Stroke. | Fitter                             | 2 | 3 | 6  | Take Extra Care When Moving Around a Site in Wet Weather.<br>Keep A Secondary Set of Clothing to Change Out of Wet Clothing<br>Ensure Surface Underfoot Is as Level and Hard as Possible.<br>Always Wear High-Viz clothing on site.<br>Never Work at Height During and Electrical Storm or High Winds.<br>Use A High Factor Sun Screen Before Prolonged Periods in The Sun and Renew Often.<br>In Hot Weather, Always Have Sufficient Drinking Water with You to Avoid Dehydration<br>Do Not Jack or Block a Vehicle On Icy Ground or When There Is a Blanket of Snow<br>Take Extra Time to Check Your Work to Ensure Everything Has Been Done Correctly.<br>Consult Risk Assessment for Working in Adverse Weather Conditions | 1 | 3 | 3 |  |
| Distraction by Other Site Users                       | Lost Concentration                               | Fitter or Site Staff               | 2 | 5 | 10 | Always Try to Work Away from Others<br>No Unauthorised persons to enter the Work Area.<br>Exclusion zone to be established around SPUK's working area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 | 5 | 5 |  |
| Long Working Hours                                    | Fatigue                                          | Fitter                             | 2 | 5 | 10 | Driving hours will be monitored as per the working time directive.<br>If Night Work Has Been Carried Out Due to Being On Call, a 'Down-Shift' Will Be Taken the Next Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | 5 | 5 |  |
| Long Driving hours                                    | Fall Asleep Whilst Driving RTA                   | Fitter Third Parties               | 2 | 5 | 10 | A 15 Minute Break Should Be Taken Every 2 Hours of Driving.<br>If Safe to Do So, Get Out of Vehicle and Walk Around<br>If Travelling in A Day Is Likely to Exceed 6 Hours, Hotel Accommodation Will Be Provided.<br>If You Feel Tired, Stop and Take a Break, Do Not Continue Driving Until You Feel Fit to Do So                                                                                                                                                                                                                                                                                                                                                                                                              | 1 | 5 | 5 |  |

## Risk Assessment

|                    |                         |                                             |              |       |
|--------------------|-------------------------|---------------------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Use of Telescopic Leader Rig | Document No. | RA033 |
| Project Code       | E23181                  |                                             |              |       |
| Assessed By        | Richard Greenwood       |                                             |              |       |
| Date of Assessment | 10/12/2024              |                                             |              |       |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                          |
|-------|-----------------------------------|
| 1     | Minor Injury (First Aid)          |
| 2     | Minor Injury (Hospital Treatment) |
| 3     | 7 Day Injury                      |
| 4     | Specified Injury                  |
| 5     | Death                             |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                   | RISKS             | PEOPLE/GROUPS AT RISK                                                      | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RISK RATING    |   |   | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------|-------------------|----------------------------------------------------------------------------|--------------|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       |                   |                                                                            | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L = LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                       |                   |                                                                            | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S = SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                       |                   |                                                                            | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R = RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                       |                   |                                                                            | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L              | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poor ground bearing capacity                          | Failure of crane  | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2            | 5 | 10 | Work should not commence until SPUK are in receipt of a working platform certificate confirming that the working platform has been properly designed, constructed in accordance with the design, and that it will be regularly inspected and adequately maintained to ensure the integrity of the ground.<br>- Temporary works procedure HSF17 to be followed.<br><br>- Ensure working platform is maintained correctly as per the TWD<br><br>- If the Telescopic Leader Rig is not offloaded onto the platform the haul road that it is travelling on must be constructed to BR470 | 1              | 5 | 5 | The principal contractor has a responsibility under CDM 2015 Regulations to ensure that all piling activities are carried out by suitably qualified persons, this includes the platform design. The working platform certificate is to be signed by the principal contractor to confirm that the design, construction and maintenance has been / will be carried out by competent persons.<br><br>SP UK Supervisor on site to liaise with Client Representative to ensure that paths and roadways have been prepared to an acceptable standard and that the working area has been suitably cordoned off. |
| Access and egress to Leader Rig by Operators, Fitters | Falls from height | Operators, Fitters, Banksmen.                                              | 2            | 4 | 8  | Cab steps and handles painted high Visibility yellow ensuring 3 points of contact is achievable at all times when accessing or egressing the cab.<br>- Ensure safe access for refuelling, maintenance and to any place where accessories are stored<br><br>- Where access is required at height; suitable handrails must be fitted to canopies.<br><br>- Any access for routine maintenance, re-fuelling and potential repairs are all accessed using the manufactured access points, podium steps or a MEWP.                                                                       | 1              | 4 | 4 | SP UK Banksman to monitor rig access and egress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Risk Assessment

|                                                   |                                                                                                                            |                                             |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |                                                                                     |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------------------------------------------------------------------------------------|
| Loading/Unloading of machine involving low loader | Risk of machine toppling off low loader                                                                                    | Machine operator and others nearby          | 2 | 5 | 10 | <ul style="list-style-type: none"> <li>Establish exclusion: zone - People should be kept away from areas of Rig unloading by the provision of suitable barriers</li> </ul>                                                                                                                                                                                                                                                                                                                                          | 1 | 5 | 5 | Pedestrian barriers can be used to create and maintain a pedestrian exclusion area. |
|                                                   |                                                                                                                            |                                             |   |   |    | <ul style="list-style-type: none"> <li>Rig to be supervised/banked on and off low loader by an experienced, competent person</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |                                                                                     |
| Erecting and dismantling of attachments           | Crush injuries, components not fitted properly                                                                             | Rig operator, others nearby                 | 2 | 4 | 8  | Rig operator ONLY to erect/dismantle attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 4 | 4 |                                                                                     |
| Tracking and slewing of rig                       | Risk of persons being struck by machine                                                                                    | Persons working nearby                      | 2 | 5 | 10 | <p>Clearance - When slewing in a confined area clearance of over 0.6m needs to be maintained between any part of the rig, particularly the ballast weight, and the nearest obstruction. If this cannot be achieved then an exclusion zone must be created to isolate the pinch point and stop all access.</p> <p>Signaller: A signaller should be provided in a safe position to direct the rig operation and any pedestrian movements. If there is not a clear line of sight then two way radios must be used.</p> | 1 | 5 | 5 | Never track or slew the rig with Hammer above the cab level                         |
| Operator Competence                               | Increased risks of injury or incidents if untrained operators are used                                                     | Machine operator, others nearby             | 2 | 5 | 10 | Operator to hold valid CPC card for the plant they are operating                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 5 | 5 |                                                                                     |
| Pile driving                                      | <ul style="list-style-type: none"> <li>High noise levels exceeding 85db(A) – risk of noise induced hearing loss</li> </ul> | Machine operator and persons working nearby | 2 | 4 | 8  | <ul style="list-style-type: none"> <li>Typical noise level reaches 103dB during pile driving at 2m distance. Persons to wear approved ear defenders that afford adequate protection (Peltor Optime 3 Ear Defenders)</li> </ul>                                                                                                                                                                                                                                                                                      | 1 | 4 | 4 | Peltor Optime iii provided affording attenuation of 35dB                            |
|                                                   | <ul style="list-style-type: none"> <li>Risk of trap/crush injuries to hands</li> </ul>                                     |                                             |   |   |    | <ul style="list-style-type: none"> <li>20m exclusion zone to be installed for persons not wearing ear protection.</li> <li>Exclusion zone must have adequate signage to warn other site staff about the noise levels within the exclusion zone.</li> </ul>                                                                                                                                                                                                                                                          |   |   |   |                                                                                     |
|                                                   |                                                                                                                            |                                             |   |   |    | <ul style="list-style-type: none"> <li>Piling operative to keep away from installed sheet pile during clutch alignment</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |                                                                                     |

# Risk Assessment

|                    |                         |                                                      |              |       |
|--------------------|-------------------------|------------------------------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Security (Theft, Arson and Vandalism) |              |       |
| Project Code       | E23181                  |                                                      |              |       |
| Assessed By        | Richard Greenwood       |                                                      |              |       |
| Date of Assessment | 10/12/2024              |                                                      |              |       |
|                    |                         |                                                      | Document No. | RA035 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS | RISKS                                                      | PEOPLE/GROUPS AT RISK              | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                            | RISK RATING    |   |   | Comments |
|---------------------|------------------------------------------------------------|------------------------------------|--------------|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                     |                                                            |                                    | L=LIKELIHOOD |   |    |                                                                                                                                                                                 | L = LIKELIHOOD |   |   |          |
|                     |                                                            |                                    | S=SEVERITY   |   |    |                                                                                                                                                                                 | S = SEVERITY   |   |   |          |
|                     |                                                            |                                    | R=RATING     |   |    |                                                                                                                                                                                 | R = RATING     |   |   |          |
|                     |                                                            |                                    | L            | S | R  |                                                                                                                                                                                 | L              | S | R |          |
| Arson               | Intentional Fire Damage to Plant and Equipment Loss        | Operators 3 <sup>rd</sup> Parties, | 2            | 5 | 10 | PC/Client to ensure suitable Hoarding/Fencing is erected and maintained Site Security supplied by PC/Client Secure all Flammable Liquids and gases in a locked container        | 1              | 5 | 5 |          |
| Vandalism           | Wilful damage to Plant and equipment                       | Operators 3 <sup>rd</sup> Parties, | 2            | 4 | 8  | Ensure all Plant and Equipment is secured, keys removed and all doors and windows to machines must be locked and secured. All containers and cabins must be secured and locked. | 1              | 4 | 4 |          |
| Theft               | Loss of Equipment Loss of Materials Loss of Personal Items | Operators 3 <sup>rd</sup> Parties, | 2            | 4 | 8  | All equipment and tools must be secured in locked containers at the end of shift.                                                                                               | 1              | 4 | 4 |          |

# Risk Assessment

|                    |                         |                     |              |       |
|--------------------|-------------------------|---------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Fire |              |       |
| Project Code       | E23181                  |                     |              |       |
| Assessed By        | Richard Greenwood       |                     |              |       |
| Date of Assessment | 10/12/2024              |                     | Document No. | RA036 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS            | RISKS                                    | PEOPLE/GROUPS AT RISK            | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RISK RATING    |   |   | Comments                                                                                                         |
|--------------------------------|------------------------------------------|----------------------------------|--------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|------------------------------------------------------------------------------------------------------------------|
|                                |                                          |                                  | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L = LIKELIHOOD |   |   |                                                                                                                  |
|                                |                                          |                                  | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S = SEVERITY   |   |   |                                                                                                                  |
|                                |                                          |                                  | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R = RATING     |   |   |                                                                                                                  |
|                                |                                          |                                  | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L              | S | R |                                                                                                                  |
| Fuel Storage                   | Fire, Explosion                          | Site Staff Plant Yard Operatives | 2            | 5 | 10 | Store Fuels Away from Buildings and Store Gas Canisters Secured and Protected from Unauthorised Interference.<br>Always Keep Fuel Bowsers Locked When Not in Use.<br>Ensure That Personnel Are Available Who Are Conversant with Fire Procedures and in The Use of Fire Fighting Equipment.<br>All Work Areas Must Be Provided with an Adequate Means of Escape and Should Be Identified On the Site Fire Plan.<br>Fire Fighting Equipment Must Be Provided.<br>All spills must be cleaned and correctly disposed of.<br>Correct signage should be in place at all times.<br>Quantities of Fuel must be kept to a minimum to comply with COMAH Regulations 2015 requirements | 1              | 5 | 5 |                                                                                                                  |
| Smoking                        | Fire, Explosion                          | Site Staff Plant Yard Operatives | 2            | 5 | 10 | Only smoke in designated areas as defined in site induction.<br>Smoking in Enclosed Spaces Is Prohibited.<br>Smoking is prohibited unless in the designated smoking area.<br>All Work Areas Must Be Provided with an Adequate Means of Escape and Fire Fighting Equipment Must Be Provided.                                                                                                                                                                                                                                                                                                                                                                                  | 1              | 5 | 5 |                                                                                                                  |
| Welding and Cutting Activities | Fire, Explosion                          | Welder Third Parties             | 2            | 5 | 10 | Hot Works Permit Issued Prior to Work Commencing..<br>Only Trained and Certified Personnel Should Use Cutting or Welding Equipment.<br>Keep All Plant and Equipment Well Maintained and Always Follow Manufacturer’s Instructions.<br>All Work Areas Must Be Provided with an Adequate Means of Escape and Fire Fighting Equipment Must Be Provided.<br>Ensure all Gas Cylinders, Hoses and Torches are in good condition and regularly inspected.<br>Always Use Flash Back arrestors.<br>Ensure all Gas cylinders that are portable are carried in a secure trolley or frame. Keep Combustible Materials I.E Rags, Paper, Wood, Cardboard, Foam Etc, Away from Work Areas.  | 1              | 5 | 5 |                                                                                                                  |
| Noxious Gases and Fumes        | Respiratory Problems.<br>Nausea. Cancer. | Plant Operator Third Parties     | 2            | 5 | 10 | Re-Fuel in Well Ventilated Designated Area.<br>Wear Impervious Gloves.<br>Ensure Washing Facilities Are Available.<br>Refer to COSHH Assessments for Relevant Details.<br>Over Exposure to Fuel or Gasses Must Be Reported to Site Supervision.                                                                                                                                                                                                                                                                                                                                                                                                                              | 1              | 5 | 5 | Ensure all p[er]sonnel involved in re-fueling are traioned on the COSHH assessments for the products being used. |

## Risk Assessment

|                                         |                 |                    |   |   |    |                                                                                                                                                                                                                                                                                            |   |   |   |  |
|-----------------------------------------|-----------------|--------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Electrical Appliances and Installations | Fire, Explosion | Fitters Site Staff | 2 | 5 | 10 | Ensure all electrical installation are carried out by a qualified electrical engineer and in accordance with IET Wiring Regulations 18 <sup>th</sup> Edition (BS7671)<br>All portable electrical equipment i.e. Drills, Grinders, Jig Saws, Kettles etc to have Portable Appliance Testing | 1 | 5 | 5 |  |
|-----------------------------------------|-----------------|--------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|

# Risk Assessment

|                    |                         |                           |              |       |
|--------------------|-------------------------|---------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Excavation |              |       |
| Project Code       | E23181                  |                           |              |       |
| Assessed By        | Richard Greenwood       |                           |              |       |
| Date of Assessment | 10/12/2024              |                           |              |       |
|                    |                         |                           | Document No. | RA037 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS   | RISKS                                                             | PEOPLE/GROUPS AT RISK                                          | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RISK RATING    |   |   | FURTHER ACTIONS REQUIRED TO REDUCE RISK          |
|-----------------------|-------------------------------------------------------------------|----------------------------------------------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|--------------------------------------------------|
|                       |                                                                   |                                                                | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L = LIKELIHOOD |   |   |                                                  |
|                       |                                                                   |                                                                | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S = SEVERITY   |   |   |                                                  |
|                       |                                                                   |                                                                | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R = RATING     |   |   |                                                  |
|                       |                                                                   |                                                                | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L              | S | R |                                                  |
| Contaminated Ground.  | Health Problems – Respiratory Organs, Skin, Eyes, Internal Organs | Operatives Undertaking Excavation and Operatives in Excavation | 2            | 5 | 10 | Site Investigation to Establish Nature and Extent of Ground Conditions. Contaminants Should Be Removed by the principal contractor Following a Suitable Risk Assessment and Method Statement.<br>Refer to RAC3 Contaminated Land High Standards of Personal Hygiene Should Be Followed                                                                                                                                                                                                                                                                                                                                            | 1              | 5 | 5 |                                                  |
| Excavation            | Excavation Collapse/Water Influx of Free Flowing Liquid or Solid  | Operatives in Excavation                                       | 2            | 5 | 10 | Prior to Commencement of Excavation the principal contractor Must Identify the Need for and Method of Support Should Be Used.<br>Support Materials Should Be On Site Before Excavation Starts.<br>The principal contractor Must Carry Out Inspections of Excavations Prior to Each Shift and After Any Event Likely to Affect Strength or Stability, And After Any Accidental Fall of Material.<br>The Principal Contractor Must Provide Edge Protection.<br>If There Is a Risk of Water Ingress, Suitable Methods and/or Equipment Should Be Provided, to Either Prevent the Entry of Water or to Remove Water, e.g. Water Pumps | 1              | 5 | 5 |                                                  |
| Underground Services  | Electrocution Explosion Fire                                      | Operatives Undertaking Excavation                              | 2            | 5 | 10 | If There Is a Possibility of Underground Services Being Present, The Area Should Be Surveyed by The principal contractor Using a Suitable Detection Instrument.<br>Plans and physical ground markings shall be provided prior to commencement of works<br>Divert/Protect Any Services in The Vicinity.                                                                                                                                                                                                                                                                                                                            | 1              | 5 | 5 | See Also Risk Assessment On Underground Services |
| Confined Space        | Oxygen Deficiency, Toxic or Flammable Gas.                        | Operatives in Excavation                                       | 2            | 5 | 10 | Where A Risk Assessment Establishes Possible Ventilation Problems, A Gas Monitor Should Be Utilised to Monitor Atmosphere Before Entry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1              | 5 | 5 | See Risk Assessment C2- Confined Spaces          |
| Work Above Excavation | Falling Plant or Materials                                        | Plant Operator Operatives in Excavation                        | 2            | 5 | 10 | Keep Plant and Materials Away from The Side of Excavations to Prevent Undue Pressure or Ingress of Exhaust Fumes.<br>If Plant Could Fall into The Excavation, Timber Baulks Should Be Provided by The Principal Contractor.                                                                                                                                                                                                                                                                                                                                                                                                       | 1              | 5 | 5 |                                                  |

# Risk Assessment

|                    |                         |                                |              |       |
|--------------------|-------------------------|--------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Abrasive Wheels |              |       |
| Project Code       | E23181                  |                                |              |       |
| Assessed By        | Richard Greenwood       |                                |              |       |
| Date of Assessment | 10/12/2024              |                                |              |       |
|                    |                         |                                | Document No. | RA039 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS          | RISKS                         | PEOPLE/GROUPS AT RISK        | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RISK RATING    |   |   | Comments |
|------------------------------|-------------------------------|------------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                              |                               |                              | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L = LIKELIHOOD |   |   |          |
|                              |                               |                              | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S = SEVERITY   |   |   |          |
|                              |                               |                              | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R = RATING     |   |   |          |
|                              |                               |                              | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L              | S | R |          |
| Abrasive Wheels              | Wheel Burst                   | Operator Persons in Vicinity | 2            | 5 | 10 | Anyone utilising a power tool that requires abrasive wheels, must be competent top change the cutting wheel.<br>All cutters and grinders should be correctly maintained.<br>Operators must wear Impact Eye Protection to EN 166 1 B 4,9<br>The correct type of Wheel/Disc must be used to suit the type of work.<br>All new discs should be inspected for damage before being fitted.<br>All Abrasive Wheels must be checked Prior to use and stored in dry conditions as per manufacturers instructions. | 1              | 5 | 5 |          |
| Contact with Wheel/Disc.     | Entanglement in Moving Parts  | Operator                     | 2            | 5 | 10 | Abrasive Wheels should be fitted with working guards designed to contain every part of the wheel if it fractures.<br>No Loose Clothing Should Be Worn.<br>Wear Suitable Hand Protection BS EN 388.                                                                                                                                                                                                                                                                                                        | 1              | 5 | 5 |          |
| Flying Particles and Sparks. | Fire Eye Damage Body Injuries | Operator, Third Parties      | 2            | 5 | 10 | Operators to Wear Impact Eye Protection to EN 166 1 B.<br>Grinders/Cut Off Saws Must Be Fitted with Working Guards.<br>Create Exclusion Zones to stop unauthorised access.<br>Ensure all Flammable Materials are removed from work area.<br>If using Fuel Powered Tools, then ensure there are no leaks<br>Ensure all refuelling and fuel storage is in a designated area away from potential fire hazards.<br>Hot Works Permits must be used where applicable.                                           | 1              | 5 | 5 |          |
| Dust.                        | Respiratory Problems          | Operator Persons in Vicinity | 2            | 5 | 10 | Good Ventilation Should Be in Place If Dust Is a Hazard.<br>Operatives to Wear Appropriate Dust Masks to EN 149:2001 FFP3<br>Operative wearing RPE face masks, must be face-fit-tested.                                                                                                                                                                                                                                                                                                                   | 1              | 5 | 5 |          |
| Noise                        | Noise Induced Hearing Loss    | Operator Persons in Vicinity | 2            | 5 | 10 | Wear Appropriate Ear Protection to EN 352 1.<br>Create Exclusion Zone to stop unauthorised access.                                                                                                                                                                                                                                                                                                                                                                                                        | 1              | 5 | 5 |          |

## Risk Assessment

|                    |                         |                                 |              |       |
|--------------------|-------------------------|---------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Piling Platforms |              |       |
| Project Code       | E23181                  |                                 |              |       |
| Assessed By        | Richard Greenwood       |                                 |              |       |
| Date of Assessment | 10/12/2024              |                                 |              |       |
|                    |                         |                                 | Document No. | RA041 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                    | RISKS                                                                                         | PEOPLE/GROUPS AT RISK              | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RISK RATING    |   |   | Comments |
|----------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------|--------------|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                        |                                                                                               |                                    | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L = LIKELIHOOD |   |   |          |
|                                        |                                                                                               |                                    | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S = SEVERITY   |   |   |          |
|                                        |                                                                                               |                                    | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R = RATING     |   |   |          |
|                                        |                                                                                               |                                    | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L              | S | R |          |
| Inadequately Designed Piling Platform  | Failure of Platform Causing Rig/Cranes to overturn                                            | Operators                          | 2            | 5 | 10 | PC/Client to ensure suitable Design & Design Check has been Completed for Piling Platform.<br><br>- All Ground Bearing information of Machines and dimensions to be supplied to Client.<br><br>- Work should not commence until SPUK are in receipt of a working platform certificate confirming that the working platform has been properly designed, constructed in accordance with the design, and that it will be regularly inspected and adequately maintained to ensure the integrity of the ground. | 1              | 5 | 5 |          |
| Inadequate Constructed Piling Platform | Failure of Platform Causing Rig/Cranes to overturn<br>Unsafe Working Conditions for Operators | Operators 3 <sup>rd</sup> Parties, | 2            | 5 | 10 | - Temporary works procedure HSF17 to be followed.<br><br>- Ensure working platform is maintained correctly by the client as per the TWD                                                                                                                                                                                                                                                                                                                                                                    | 1              | 5 | 5 |          |
| Inadequate Maintained Piling Platform  | Failure of Platform Causing Rig/Cranes to overturn<br>Unsafe Working Conditions for Operators | Operators 3 <sup>rd</sup> Parties, | 2            | 5 | 10 | - If the item of plant is not offloaded onto the platform, the haul road that it is travelling on must be constructed to BR470                                                                                                                                                                                                                                                                                                                                                                             | 1              | 5 | 5 |          |

# Risk Assessment

|                    |                         |                              |              |       |
|--------------------|-------------------------|------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Pile Trimming |              |       |
| Project Code       | E23181                  |                              |              |       |
| Assessed By        | Richard Greenwood       |                              |              |       |
| Date of Assessment | 10/12/2024              |                              | Document No. | RA042 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS      | RISKS                                             | PEOPLE/GROUPS AT RISK               | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RISK RATING    |   |   | Comments |
|--------------------------|---------------------------------------------------|-------------------------------------|--------------|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                          |                                                   |                                     | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L = LIKELIHOOD |   |   |          |
|                          |                                                   |                                     | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | S = SEVERITY   |   |   |          |
|                          |                                                   |                                     | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | R = RATING     |   |   |          |
|                          |                                                   |                                     | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L              | S | R |          |
| Use of Burning Gear      | Fire, Burns, Explosion,                           | Operators                           | 2            | 5 | 10 | Hot Works Permit In Place From Client,<br>Personal Protective Equipment Available & Worn Correctly,<br>Gauntlets Must Be Worn,<br>Welders Mask/Burning Goggles,<br>Correct Storage of Cylinders,<br>Regular Checks of Burning Equipment (Hoses, Gauges, Torch), Flash Back Arrestor installed,<br>Trained and Competent Operatives<br>2 x Powder or CO2 Fire Extinguisher and planned Fire Watch Recorded for 60 mins after the last hot works process has been completed.<br>FFP3 Mask Must be worn when flame cutting                                                                                                                                                              | 1              | 5 | 5 |          |
| Manual Handling off cuts | Musculoskeletal disorders,<br>Cuts, and abrasions | Operators                           | 2            | 4 | 8  | T.I.L.E assessment to be completed for manual handling tasks<br>Manual Handling Training<br>Correct use of PPE.<br>Use of alternate mechanical means to move off cuts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1              | 4 | 4 |          |
| Working at Height        | Falling Person, Falling<br>Materials              | Operators & 3 <sup>rd</sup> Parties | 2            | 5 | 10 | All Operatives received training for Working at Heights.<br>Mobile tower Scaffolds will be erected by competent PASMA Trained operatives.<br>Correct use of Hop Up steps – NO ladders<br>Restricted access zones MUST be in place around the Scaffolds and below the trimming works<br>MUST be cordoned off with physical barriers to prevent unauthorised access.                                                                                                                                                                                                                                                                                                                   | 1              | 5 | 5 |          |
| Trimming Sheet Pile      | Falling Material, Injury to<br>Operator           | Operators                           | 2            | 5 | 10 | Operator to cut Sheet Pile leaving a minimum of 60mm of the pile attached to the “fixed Pile” to maintain security of the pile.<br>Where Practicable a machine capable of lifting, the offcut will be connected to the sheet pile by approved Lifting accessories.<br>When Machine is connected the sheet piles (section of 3 piles maximum) can be cut and removed.<br>Any off cut over 500mm MUST be connected to a Machine capable of lifting the weight of the off-cut pile.<br>If the off cut is smaller than 500mm, the Operator will cut ONLY INDIVIDUAL Piles. Each off-cut will be pushed away from the operator and removed by either hand or machine depending on weight. | 1              | 5 | 5 |          |

## Risk Assessment

|                    |                         |                                                                      |  |  |                    |
|--------------------|-------------------------|----------------------------------------------------------------------|--|--|--------------------|
| Project Name       | Vine Street, Manchester | Work activity: Use of Vibratory Hammer (Installation and Extraction) |  |  |                    |
| Project Code       | E23181                  |                                                                      |  |  |                    |
| Assessed By        | Richard Greenwood       |                                                                      |  |  |                    |
| Date of Assessment | 10/12/2024              |                                                                      |  |  |                    |
|                    |                         |                                                                      |  |  | Document No. RA043 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                    | RISKS                                  | PEOPLE/GROUPS AT RISK     | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                            | RISK RATING    |   |   | Comments                                       |
|------------------------------------------------------------------------|----------------------------------------|---------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|------------------------------------------------|
|                                                                        |                                        |                           | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                 | L = LIKELIHOOD |   |   |                                                |
|                                                                        |                                        |                           | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                 | S = SEVERITY   |   |   |                                                |
|                                                                        |                                        |                           | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                 | R = RATING     |   |   |                                                |
|                                                                        |                                        |                           | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                 | L              | S | R |                                                |
| Use of crane (mobile & crawler)                                        | Refer to RA23                          |                           | 2            | 5 | 10 |                                                                                                                                                                                                                                                                                                                                                                 | 1              | 5 | 5 |                                                |
| Noise                                                                  | Noise induced hearing loss             | Operatives, people nearby | 2            | 4 | 8  | Adequate ear defenders to be worn (Peltor Optime 3 Ear Defenders)<br><br>Exclusion/Restricted access zones must be established with adequate signage to warn people of high noise levels.<br><br>Safety Critical Medicals undertaken for all site staff every 3 years, any operative reporting hearing loss will be directed to their GP in the first instance. | 1              | 4 | 4 |                                                |
| Pile ends failing during extraction                                    | Falling section/s of steel sheet piles | Operatives, people nearby | 2            | 5 | 10 | Secondary (safety) stop to be attached to pile                                                                                                                                                                                                                                                                                                                  | 1              | 5 | 5 |                                                |
| Pile falling out of hammer jaws during lifting/installation            | Falling piles                          | Operatives, people nearby | 2            | 5 | 10 | Non-return valves fitted to jaws which prevent any release of a pile when held in jaws                                                                                                                                                                                                                                                                          | 1              | 5 | 5 | Secondary (safety) stop to be attached to pile |
| Use of poorly maintained hammer accessory                              | Failure of hammer                      | Operatives, people nearby | 2            | 5 | 10 | Inspection and maintenance regime in place<br><br>Daily operator checks completed & recorded                                                                                                                                                                                                                                                                    | 1              | 5 | 5 |                                                |
| Burning hole (hot works) into sheet pile for secondary stop attachment | Refer to RA31                          |                           |              |   |    |                                                                                                                                                                                                                                                                                                                                                                 |                |   |   |                                                |

# Risk Assessment

|                    |                         |                                   |              |       |
|--------------------|-------------------------|-----------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Traffic Management |              |       |
| Project Code       | E23181                  |                                   |              |       |
| Assessed By        | Richard Greenwood       |                                   |              |       |
| Date of Assessment | 10/12/2024              |                                   | Document No. | RA045 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity               |
|-------|------------------------|
| 1     | Minor Injury (First    |
| 2     | Minor Injury (Hospital |
| 3     | 7 Day Injury           |
| 4     | Specified Injury       |
| 5     | Death                  |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS  | RISKS                                                            | PEOPLE/GROUPS AT RISK                     | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RISK RATING    |   |   | Comments |
|----------------------|------------------------------------------------------------------|-------------------------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                      |                                                                  |                                           | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L = LIKELIHOOD |   |   |          |
|                      |                                                                  |                                           | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S = SEVERITY   |   |   |          |
|                      |                                                                  |                                           | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R = RATING     |   |   |          |
|                      |                                                                  |                                           | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L              | S | R |          |
| Third party vehicles | Collisions with other vehicles, plant, buildings                 | Site Operatives / 3 <sup>rd</sup> Parties | 2            | 5 | 10 | Site traffic management plan developed by Principal Contractor and briefed to all SPUK staff at site specific induction.<br>Adhere to site speed limits.<br>Only licensed and authorised drivers/operators.<br>Pedestrian/Plant segregation including crossing points in place.<br>Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant<br>Site specific PPE must be worn (including high visibility jackets, safety boots and hard hat)<br>Warning beacons on mobile plant.<br>Slew & movement audible warning signals on all plant.<br>All haul roads and traffic routes must be suitable for the vehicles using them.<br>Vehicle routes kept free of obstructions.<br>Any reversing that is necessary should be overseen by a trained banksman | 1              | 5 | 5 |          |
| Visitors to site     | Collisions with other vehicles, plant, buildings                 | Site Operatives / 3 <sup>rd</sup> Parties | 2            | 5 | 10 | Designated parking area and walkways for visitors<br>All SPUK employees must attend site specific induction<br>Adhere to site speed limit.<br>Directional signage in place.<br>Pedestrian/Plant segregation including crossing points in place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1              | 5 | 5 |          |
| Vehicle stability    | Collisions with other vehicles, plant, buildings and overturning | Site Operatives                           | 2            | 5 | 10 | Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant<br>Maintenance plan & statutory checks on lifting equipment & accessories (LOLER & PUWER)<br>Working platform must be certified by the client and meet BR470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1              | 5 | 5 |          |

## Risk Assessment

|                                                                   |                                                     |                                                  |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |  |
|-------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Plant movement on site and near buildings/3 <sup>rd</sup> Parties | Collisions with other plant, vehicles, or buildings | Plant operator and other drivers, all on site    | 2 | 5 | 10 | Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant.<br>Maintenance of plant, daily checks.<br>Traffic management plan.<br>Established Speed limits.<br>Good lighting maintenance plan & statutory checks on lifting equipment<br>All haul roads and traffic routes must be suitable for the vehicles using them.<br>Vehicle routes kept free of obstructions.<br>Any reversing that is necessary should be overseen by a trained banksman                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 | 5 | 5 |  |
| Plant movement – collision with pedestrians                       | Crush/impact injury                                 | All persons on site                              | 2 | 5 | 10 | Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant.<br>Exclusions Zones set up and maintained<br>Physical barriers to segregate pedestrians, plant & machinery<br>Only Competent and authorised personel allowed within any exclusion zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 | 5 | 5 |  |
| Plant movement – collision with static plant or containers        | Damage to plant/containers                          | Plant operator and other drivers, all on site    | 2 | 5 | 10 | Site traffic management plan developed by Principal Contractor and briefed to all SPUK staff at site specific induction.<br>Adhere to site speed limits.<br>Only licensed and authorised drivers/operators.<br>Pedestrian/Plant segregation including crossing points in place.<br>Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant<br>Site specific PPE must be worn (including high visibility jackets, safety boots and hard hat)<br>Warning beacons on mobile plant.<br>Seat belts must be worn.<br>Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant.<br>Maintenance of plant, daily checks.<br>All haul roads and traffic routes must be suitable for the vehicles using them.<br>Vehicle routes kept free of obstructions.<br>Any reversing that is necessary should be overseen by a trained banksman | 1 | 5 | 5 |  |
| Movement of Vehicles/Plant on Public Highways                     | Collisions with other plant, vehicles, or buildings | Plant operator and other drivers, General Public | 2 | 5 | 10 | SPUK will only undertake vehicle banksman duties from the access gates on site.<br>The Principal Contractor is to ensure that all vehicles that are required to be marshalled on a highway are undertaken by a competent vehicle marshaller.<br>SPUK will not undertake any traffic control on the public highways.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 | 5 | 5 |  |
| Unloading & loading area                                          | Crush/impact injury                                 | All persons on site                              | 2 | 5 | 10 | Site traffic management plan developed by Principal Contractor and briefed to all SPUK staff at site specific induction.<br>Only fully trained & competent (CPCS or equivalent) authorised employees to operate mobile plant<br>Adhere to site speed limits.<br>Good lighting<br>Only licensed and authorised drivers/operators.<br>Pedestrian/Plant segregation including crossing points in place.<br>Maintenance of plant including recorded daily checks (LOLER/PUWER)<br>Site specific PPE must be worn (including high visibility jackets, safety boots and hard hat)<br>Warning beacons on mobile plant.<br>Movement & Slew alarms fitted to all plant                                                                                                                                                                                                                                                | 1 | 5 | 5 |  |

## Risk Assessment

|                     |                                                       |                     |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |  |
|---------------------|-------------------------------------------------------|---------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Pedestrians on site | Crush injuries caused by collision from site vehicles | All persons on site | 2 | 5 | 10 | <p>Site traffic management plan developed by Principal Contractor and briefed to all SPUK staff at site specific induction.</p> <p>Only fully trained &amp; competent (CPCS or equivalent) authorised employees to operate mobile plant</p> <p>Adhere to site speed limits.</p> <p>Good lighting</p> <p>Only licensed and authorised drivers/operators.</p> <p>Pedestrian/Plant segregation including crossing points in place.</p> <p>Maintenance of plant including recorded daily checks (LOLER/PUWER)</p> <p>Site specific PPE must be worn (including high visibility jackets, safety boots and hard hat)</p> <p>Warning beacons on mobile plant.</p> <p>Movement &amp; Slew alarms fitted to all plantreversing assistant (banksman).</p> | 1 | 5 | 5 |  |
|---------------------|-------------------------------------------------------|---------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|

# Risk Assessment

|                    |                         |                                                      |              |       |
|--------------------|-------------------------|------------------------------------------------------|--------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Working in Adverse Weather Conditions |              |       |
| Project Code       | E23181                  |                                                      |              |       |
| Assessed By        | Richard Greenwood       |                                                      |              |       |
| Date of Assessment | 10/12/2024              |                                                      | Document No. | RA046 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                        | RISKS                                                                                                                                    | PEOPLE/GROUPS AT RISK                       | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RISK RATING    |   |   | Comments |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                            |                                                                                                                                          |                                             | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | L = LIKELIHOOD |   |   |          |
|                                            |                                                                                                                                          |                                             | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S = SEVERITY   |   |   |          |
|                                            |                                                                                                                                          |                                             | R=RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | R = RATING     |   |   |          |
|                                            |                                                                                                                                          |                                             | L            | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | L              | S | R |          |
| Freezing Weather                           | Slipping on icy walkways.<br>Slipping when accessing plant or equipment. Poor circulation. Frost bite.                                   | Site Operative                              | 2            | 4 | 8 | Ensure access & egress to workplace is kept clear of ice.<br>Principal contractor should maintain walkways and haul roads & keep free of hazards.<br>Advise use of rock-salt or similar medium to prevent ice forming.<br>Check any access ladders & platforms are free of ice before attempting any ascent.<br>Use de-icer where practicable in conjunction with COSHH assessment.<br>Wear appropriate PPE for the conditions i.e. warm hi viz coat, lots of layers of clothing, gloves, and lined boots.<br>Allow frequent rest periods to warm up. | 1              | 4 | 4 |          |
| Hail, Snow & Snow Storms                   | Poor visibility. Slips trips & falls.                                                                                                    | Site Operative                              | 2            | 4 | 8 | Falling snow may cause poor visibility, assess the situation and do not operate plant if visibility is low.<br>Snow may cover up potential hazards i.e. holes, trips fall - do not walk across snow covered site away from dedicated walkways and work area.                                                                                                                                                                                                                                                                                          | 1              | 4 | 4 |          |
| Icy Roads                                  | Vehicles skidding on ice. RTA                                                                                                            | Plant/Vehicle Drivers Third Parties         | 2            | 4 | 8 | Keep haul roads clear of snow & ice.<br>Do not attempt to drive site vehicles unless the way is clear and is completely necessary.<br>Avoid parking where other road users may skid and collide with site vehicle. i.e. on bends and at junctions                                                                                                                                                                                                                                                                                                     | 1              | 4 | 4 |          |
| Excessive Strong and Gusty Wind Conditions | Swinging Loads, Unsafe Operational Wind Speeds for Cranes and Rigs Potential Side Loading), Blown from Working at Heights, Flying Debris | Plant/Site Operatives 3 <sup>rd</sup> Party | 2            | 4 | 8 | Follow Manufacturers guidance lower all Jibs or masts, retract any booms, lower powered platforms (MEWPS).<br>Suspend all lifting operations if the wind is in excess of the lift plan and manufacturers instructions.<br>Do NOT work at heights & Secure any loose materials.<br>Refer to approved lift plan for the specific guidelines relating to the lifting equipment being used.                                                                                                                                                               | 1              | 4 | 4 |          |
| Lightning Storms                           | Electrocution, Fire, Damage to Equipment and Plant                                                                                       | Plant and Equipment Site Operatives         | 2            | 4 | 8 | Follow Manufacturers guidance lower all Jibs or masts, retract any booms, lower powered platforms (MEWPS).<br>Suspend all lifting operations if the wind is in excess of the lift plan and manufacturers instructions.<br>Do NOT work at heights & Secure any loose materials.<br>Return to the ground and go to shelter(welfare facilities if possible).<br>If Fire Breaks out follow Site Emergency Plans and call emergency services and or PC Emergency Team.                                                                                     | 1              | 4 | 4 |          |

# Risk Assessment

|                    |                         |                                                    |  |  |                    |
|--------------------|-------------------------|----------------------------------------------------|--|--|--------------------|
| Project Name       | Vine Street, Manchester | Work activity: Separation of Plant and Pedestrians |  |  |                    |
| Project Code       | E23181                  |                                                    |  |  |                    |
| Assessed By        | Richard Greenwood       |                                                    |  |  |                    |
| Date of Assessment | 10/12/2024              |                                                    |  |  |                    |
|                    |                         |                                                    |  |  | Document No. RA047 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital   |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                 | RISKS                                               | PEOPLE/GROUPS AT RISK                                               | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RISK RATING    |   |   | Comments |
|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|--------------|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                                                     |                                                     |                                                                     | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L = LIKELIHOOD |   |   |          |
|                                                                     |                                                     |                                                                     | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S = SEVERITY   |   |   |          |
|                                                                     |                                                     |                                                                     | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R = RATING     |   |   |          |
|                                                                     |                                                     |                                                                     | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | L              | S | R |          |
| Operating Vehicles/Plant General                                    | Collision with Other Vehicles/Plant                 | Operating Vehicles/Plant General                                    | 2            | 5 | 10 | Method statement giving full details of operations.<br>All SPUK operatives to be briefed by the site foreman.<br>Plant & pedestrian segregation must in place and developed by the client.<br>All operators must be competent to operate plant and equipment.<br>All operators must be aware of pedestrian movements, pedestrian walkways in and around the site.<br>All vehicle movements when reversing must be under the control of a banksman. Operators must adhere to the signed speed limits.<br>Any obstructions caused by vehicles/equipment must be reported to the site management.<br>Daily checks of vehicles to ensure all safety aspects are workin.<br>Suitable lighting is provided at all times by the client,<br>Where required additional task lighting will be provided by SPUK.<br>All plant MUST have audible movement & slew alarms. | 1              | 5 | 5 |          |
| Swing/Slewing Radius Uncontrolled Vehicle Movement Restricted areas | Pinch Points, Injury to persons, Damage to vehicles | Swing/Slewing Radius Uncontrolled Vehicle Movement Restricted areas |              |   |    | All Movements of Plant and Equipment Must be under the Control of a Competent Banksman.<br>Exclusion zones must be established to prevent unauthorised persons entering the SPUK working area (10m where practicable).<br>SPUK Piling Foreman to ensure the areas surrounding the Machines are kept clear and no one enters areas between the machine and a position of no escape.<br>Operators to ensure no loose clothing can interfere with the controls<br>No Operators to enter areas where there is a risk of pinching or trapping h.azard<br>Ensure no mobile plant is positioned where slewing operations impinge upon areas where members of the public are unprotected, e.g. permanent or temporary footpaths, or roads used by the public.                                                                                                        |                |   |   |          |

## Risk Assessment

|                             |                                                                       |                             |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |  |
|-----------------------------|-----------------------------------------------------------------------|-----------------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Walking and working in Site | Struck by Vehicles, Plant and Equipment SPUK and also Public Vehicles | Walking and working in Site | 2 | 5 | 10 | When Walking on Sites, all SPUK staff must use the designated pedestrian walkways and only cross at the appropriate crossing points.<br>All SPUK staff when walking Must be aware of Vehicle Movements and be vigilant.<br>SPUK Site Supervisor to ensure that all Site Operatives are working in a safe area and where practicable erect suitable physical barriers, Berms or wheel stops in place.<br>All persons working or walking in the site MUST be wearing Full Hi Vis and PPE as required.<br>All SPUK staff Must only walk in the areas designated for Pedestrians. | 1 | 5 | 5 |  |
| Delivery Drivers            | Struck by SPUK Plant or Vehicles Collision with SPUK Vehicles, Plant  | Delivery Drivers            | 2 | 5 | 10 | SPUK Site Supervisor to ensure all delivery drivers, where practicable are informed to brief drivers to report to site offices before entering sites.<br>All Deliveries must report to Site Offices/Security to ensure they can safely proceed onto site and additionally to allow SPUK staff to brief them on any potential hazards whilst delivering/Loading/Unloading.<br>Vehicle drivers must follow dedicated haul roads.                                                                                                                                                | 1 | 5 | 5 |  |

## Risk Assessment

|                    |                         |                                                 |  |                    |
|--------------------|-------------------------|-------------------------------------------------|--|--------------------|
| Project Name       | Vine Street, Manchester | Work activity: Underground Services / Vibration |  |                    |
| Project Code       | E23181                  |                                                 |  |                    |
| Assessed By        | Richard Greenwood       |                                                 |  |                    |
| Date of Assessment | 10/12/2024              |                                                 |  |                    |
|                    |                         |                                                 |  | Document No. RA048 |

### Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

### Severity Key

| Score | Severity            |
|-------|---------------------|
| 1     | Minor Injury (First |
| 2     | Minor Injury        |
| 3     | 7 Day Injury        |
| 4     | Specified Injury    |
| 5     | Death               |

### Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS       | RISKS                                               | PEOPLE/GROUPS AT RISK                           | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RISK RATING    |   |   | Comments |
|---------------------------|-----------------------------------------------------|-------------------------------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                           |                                                     |                                                 | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L = LIKELIHOOD |   |   |          |
|                           |                                                     |                                                 | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S = SEVERITY   |   |   |          |
|                           |                                                     |                                                 | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R = RATING     |   |   |          |
|                           |                                                     |                                                 | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L              | S | R |          |
| Buried Electrical Service | Striking Live Cable Explosion<br>Fire Electrocution | Piling Ops Third Parties & Third-Party Premises | 2            | 5 | 10 | All Work as Detailed in HSG 47 Avoiding Danger from Underground Services<br>SPUK must Obtain Service Plans from Service Owner, PC or Client (3 <sup>rd</sup> Party).<br>Service Owners to Identify Cables.<br><br>A pre-use survey in conjunction with HSG 47 – CAT and Genny.by 3 <sup>rd</sup> Party as detailed above<br>All Identified Services must be marked On the Ground When Found.<br>Assume All Services Are Live Until Proven Otherwise.<br>Ensure A Permit to Dig/Break Ground Has Been Issued Before Starting Work.                                                                                                                                                                                                                                                             | 1              | 5 | 5 |          |
| Buried Gas Service        | Fracture of Gas Main<br>Explosion Fire              | Piling Ops Third Parties & Third-Party Premises | 2            | 5 | 10 | All Work as Detailed in HSG 47 Avoiding Danger from Underground Services<br>Piling must not be undertaken within 15m of ANY gas pipe live or dead without the permission of the asset owner and control measures in place.<br>SPUK must Obtain Service Plans from Service Owner, PC or Client (3rd Party).<br>Service Owners to Identify Cables.<br>A pre-use survey in conjunction with HSG 47 – CAT and Genny.by 3rd Party as detailed above<br>All Identified Services must be marked On the Ground When Found.<br>Assume All Services Are Live Until Proven Otherwise.<br>Ensure A Permit to Dig/Break Ground Has Been Issued Before Starting Work. .<br>Ensure A Hot Works Permit Is In Place And Followed Stating Location & Control Measures<br>Implement No Smoking/Naked Flame Zone. | 1              | 5 | 5 |          |
| Buried Water Service      | Fracture of Water Main                              | Piling Ops Third Parties & Third-Party Premises | 2            | 4 | 8  | All Work as Detailed in HSG 47 Avoiding Danger from Underground Services<br>SPUK must Obtain Service Plans from Service Owner, PC or Client (3rd Party).<br>Service Owners to Identify Cables.<br>A pre-use survey in conjunction with HSG 47 – CAT and Genny.by 3rd Party as detailed above<br>All Identified Services must be marked On the Ground When Found.<br>Assume All Services Are Live Until Proven Otherwise.<br>Ensure A Permit to Dig/Break Ground Has Been Issued Before Starting Work.                                                                                                                                                                                                                                                                                         | 1              | 4 | 4 |          |

## Risk Assessment

|                                                |                                                 |                                                  |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |  |
|------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Ground Bourne Vibration from Piling Activities | Damage to services, infrastructure & structures | Piling Ops, Third Parties & Third-Party Premises | 2 | 4 | 8 | <p>Client must Identify assets that are sensitive to vibration and require vibration monitoring; this can be infrastructure, services, structures or landscape features.</p> <p>Piling must not be undertaken within 15m of <b>ANY</b> gas pipe live or dead without the permission of the asset owner and control measures in place.</p> <p>Due to the variability of ground conditions, structures, services, sources and activities, each application should be assessed on a case-by-case basis.</p> <p>When setting targets for maximum vibration levels, reference might need to be made to the existing baseline vibration levels, which should be measured prior to commencement of pile driving. This is particularly applicable on sites adjacent to roads carrying heavy commercial traffic, railway tracks and large industrial machinery.</p> <p>It is not uncommon for vibrations from such sources to mask vibrations from pile driving.</p> <p>It is desirable that the planning process does not prohibit the use of any piling methods on the basis of vibration.</p> <p>Designers can undertake a desktop vibration assessment based on ground condition, pile length &amp; section and installation methodology including pre-augering.</p> | 1 | 4 | 4 |  |
|------------------------------------------------|-------------------------------------------------|--------------------------------------------------|---|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|

# Risk Assessment

|                    |                         |                                |
|--------------------|-------------------------|--------------------------------|
| Project Name       | Vine Street, Manchester | Work activity: Hand Protection |
| Project Code       | E23181                  |                                |
| Assessed By        | Richard Greenwood       |                                |
| Date of Assessment | 10/12/2024              |                                |
|                    |                         | Document No. RA050             |

| Risk Assessment Key |                  |        |      |   |   |
|---------------------|------------------|--------|------|---|---|
| Severity Score      | Likelihood Score |        |      |   |   |
|                     | 1                | 2      | 3    | 4 | 5 |
| 1                   |                  |        |      |   |   |
| 2                   | Low              |        |      |   |   |
| 3                   |                  | Medium |      |   |   |
| 4                   |                  |        | High |   |   |
| 5                   |                  |        |      |   |   |

| Severity Key |                                   |
|--------------|-----------------------------------|
| Score        | Severity                          |
| 1            | Minor Injury (First Aid)          |
| 2            | Minor Injury (Hospital Treatment) |
| 3            | 7 Day Injury                      |
| 4            | Specified Injury                  |
| 5            | Death                             |

| Likelihood Key |             |
|----------------|-------------|
| Score          | Likelihood  |
| 1              | Unlikely    |
| 2              | May Happen  |
| 3              | Likely      |
| 4              | Very Likely |
| 5              | Certain     |

| SIGNIFICANT HAZARDS                            | RISKS                                                           | PEOPLE/GROUPS AT RISK          | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RISK RATING    |   |   | Comments |
|------------------------------------------------|-----------------------------------------------------------------|--------------------------------|--------------|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                                |                                                                 |                                | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L = LIKELIHOOD |   |   |          |
|                                                |                                                                 |                                | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S = SEVERITY   |   |   |          |
|                                                |                                                                 |                                | R=RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R = RATING     |   |   |          |
|                                                |                                                                 |                                | L            | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | L              | S | R |          |
| All Handling of Tools, Equipment and Materials | Cuts, Abrasions, Contusions, Skin Disorders,                    | All Operatives                 |              |   |   | Keep all cutting tools and equipment well maintained and all cutting edges in a sharp condition.<br>Ensure all blades are safely locked away and or shielded when not in use.<br>Only use the correct tools and equipment for the task in hand.<br>Ensure guards are correctly utilised where required.<br>Use push stick or alternate measures to keep hands and fingers away from cutting or sharp surfaces.<br>Ensure all guarding of equipment is fit for purpose and is working correctly (PUWER 98).<br>Ensure residual risk can be lowered after administrative or engineering control measures, Introduce PPE as last form of protection. |                |   |   |          |
| Handling Equipment and Materials               | Trapped Fingers, Slips & Trips, Cuts, Abrasions and Contusions. | Slinger Piling Operatives      |              |   |   | Cowhide gloves with elasticised wrist band. Compliant with CE/UKCA CAT1 Simple Design - 2.1.3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |   |   |          |
|                                                |                                                                 |                                |              |   |   | For areas of 'minimal risk' where the effects of not wearing a glove are easily reversible or superficial such products are self-certified.<br><br>Steel handling shoes to be used and pry bars where required.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |   |   |          |
| Operation of Machinery I.e. Giken Silent Piler | Trapped Fingers, Cuts, Damaged Hands                            | Giken Operator Plant Operators |              |   |   | Kevlar knitted polka dot grip fingerless glove may be required where extra dexterity is needed i.e. such as pressing small control buttons on machinery.<br><br>Approved to BS EN 388 <b>EN 388</b> - This standard applies to all kinds of protective gloves giving protection from mechanical risks, in respect of physical problems caused by abrasion, blade cut, puncture, tearing or impact cut.<br><br>This standard also covers risk of electrostatic discharge.                                                                                                                                                                          |                |   |   |          |

Risk Assessment

|                    |                         |                        |       |
|--------------------|-------------------------|------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Fatigue |       |
| Project Code       | E23181                  |                        |       |
| Assessed By        | Richard Greenwood       |                        |       |
| Date of Assessment | 10/12/2024              | Document No.           | RA051 |

| Risk Assessment Key                                                              |                                                                                                       |                                   |              |   |   | Severity Key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | Likelihood Key |          |             |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------|----------|-------------|
| Severity Score                                                                   | Likelihood Score                                                                                      |                                   |              |   |   | Score                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Severity                          |                | Score    | Likelihood  |
|                                                                                  | 1                                                                                                     | 2                                 | 3            | 4 | 5 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Minor Injury (First Aid)          |                | 1        | Unlikely    |
| 1                                                                                |                                                                                                       |                                   |              |   |   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Minor Injury (Hospital Treatment) |                | 2        | May Happen  |
| 2                                                                                | Low                                                                                                   |                                   |              |   |   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7 Day Injury                      |                | 3        | Likely      |
| 3                                                                                |                                                                                                       | Medium                            |              |   |   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specified Injury                  |                | 4        | Very Likely |
| 4                                                                                |                                                                                                       |                                   | High         |   |   | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Death                             |                | 5        | Certain     |
| 5                                                                                |                                                                                                       |                                   |              |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                |          |             |
|                                                                                  |                                                                                                       |                                   |              |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                |          |             |
| SIGNIFICANT HAZARDS                                                              | RISKS                                                                                                 | PEOPLE/GROUPS AT RISK             | RISK RATING  |   |   | RISK RATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                | Comments |             |
|                                                                                  |                                                                                                       |                                   | L=LIKELIHOOD |   |   | L = LIKELIHOOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                |          |             |
|                                                                                  |                                                                                                       |                                   | S=SEVERITY   |   |   | S = SEVERITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                |          |             |
|                                                                                  |                                                                                                       |                                   | R=RATING     |   |   | R = RATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                |          |             |
|                                                                                  |                                                                                                       |                                   | L            | S | R | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S                                 | R              |          |             |
| Tiredness from travelling                                                        | lack of attention to the task in hand resulting in failures which could cause serious injury or death | Operatives, Third Parties, Public | 3            | 3 | 9 | Operatives travel to hotel on a Sunday to start work on the Monday to limit working & travelling hours, On Fridays if the project has run well and targets have been achieved operatives can leave site earlier to avoid traffic and limit working hours.<br>When working night shift it is a procedure that the operatives must travel back to the hotel and rest for a minimum of 6 hours before driving home.<br>SPUK allow operatives to use late check out at the hotels to allow them to rest if required before travelling.<br>Have a good night's sleep before driving for long journey and start fresh.<br>Where possible, start your trip early in the day and avoid driving straight after lunch.<br>It is particularly important to avoid driving during times you would usually be asleep.<br>Plan a 15-minute break or rest stop every two hours.<br>Take advantage of designated rest areas to get out of the vehicle and stretch.<br>As a rule, staff should avoid driving more than 5 hours in a single day.<br>Driving should not exceed eight hours in a single day. | 2                                 | 3              | 6        |             |
| Working In wet/cold environments                                                 | lack of attention to the task in hand resulting in failures which could cause serious injury or death | Operatives, Third Parties, Public | 3            | 3 | 9 | Ensure adequate welfare facilities are available including drying room to allow operatives to take regular breaks and dry any wet clothing and/or PPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                 | 3              | 3        |             |
| Operation of Machinery when tired or fatigued i.e. Pile Press, Crane, Piling Rig | lack of attention to the task in hand resulting in failures which could cause serious injury or death | Operatives, Third Parties, Public | 3            | 3 | 9 | Ensure workplaces are well-lit and ventilated<br>SPUK to provide information and training on fatigue management<br>Encourage employees to report any concerns they may have about work-related fatigue.<br>Avoid work arrangements that provide incentives to work excessive hours<br>Ensure clear work processes and effective planning e.g. plans to deal with workload changes due to absenteeism, staff on leave or seasonal work pressures<br>Ensure employees take adequate breaks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2                                 | 3              | 6        |             |
|                                                                                  |                                                                                                       |                                   |              |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                |          |             |

# Risk Assessment

|                    |                         |                                 |       |
|--------------------|-------------------------|---------------------------------|-------|
| Project Name       | Vine Street, Manchester | Work activity: Use Of Mag Drill |       |
| Project Code       | E23181                  |                                 |       |
| Assessed By        | Richard Greenwood       |                                 |       |
| Date of Assessment | 10/12/2024              |                                 |       |
|                    |                         | Document No.                    | RA054 |

| Risk Assessment Key      |                                                                                             |                                |              |   |    | Severity Key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   | Likelihood Key |             |  |  |  |  |  |
|--------------------------|---------------------------------------------------------------------------------------------|--------------------------------|--------------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------------|-------------|--|--|--|--|--|
| Severity Score           | Likelihood Score                                                                            |                                |              |   |    | Score                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Severity                          |   | Score          | Likelihood  |  |  |  |  |  |
|                          | 1                                                                                           | 2                              | 3            | 4 | 5  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Minor Injury (First Aid)          |   | 1              | Unlikely    |  |  |  |  |  |
| 1                        | Low                                                                                         |                                |              |   |    | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Minor Injury (Hospital Treatment) |   | 2              | May Happen  |  |  |  |  |  |
| 2                        |                                                                                             |                                |              |   |    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7 Day Injury                      |   | 3              | Likely      |  |  |  |  |  |
| 3                        |                                                                                             | Medium                         |              |   |    | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Specified Injury                  |   | 4              | Very Likely |  |  |  |  |  |
| 4                        |                                                                                             |                                | High         |   |    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Death                             |   | 5              | Certain     |  |  |  |  |  |
| 5                        |                                                                                             |                                |              |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |                |             |  |  |  |  |  |
|                          |                                                                                             |                                |              |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |                |             |  |  |  |  |  |
| SIGNIFICANT HAZARDS      | RISKS                                                                                       | PEOPLE/GROUPS AT RISK          | RISK RATING  |   |    | RISK RATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |   | Comments       |             |  |  |  |  |  |
|                          |                                                                                             |                                | L=LIKELIHOOD |   |    | L = LIKELIHOOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |   |                |             |  |  |  |  |  |
|                          |                                                                                             |                                | S=SEVERITY   |   |    | S = SEVERITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |                |             |  |  |  |  |  |
|                          |                                                                                             |                                | R=RATING     |   |    | R = RATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |                |             |  |  |  |  |  |
|                          |                                                                                             |                                | L            | S | R  | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S                                 | R |                |             |  |  |  |  |  |
| Drilling using Mag Drill | Injury to head, face and limbs , eye injury<br>fatality<br>Cuts and grazes<br>Limb injuries | operator, near by site staff   | 3            | 3 | 9  | Create exclusion zone around the work area<br>Ensure Mag drill and cables are PAT tested and ELCB is used. Use only 110v tools.<br>Ensure competent person has recieved SOP for using the mag drill<br>Ensure safety chain is fitted where there is a risk of magnet failing i.e. when hooked up to a generator & generator runs out of fuel.<br>Maximum length of 110v cable to be used is 3.5m.<br>Wear appropriate PPE, Hard Hat, Hi Viz vests, safety boots ear defenders and impact rated goggles<br>Ensure power cables are routed safely around work area<br>Provide ventilation<br>Operatives to drill as per the drawing | 2                                 | 3 | 6              |             |  |  |  |  |  |
| Use of Cutting Fluid     | Inhalation of fumes, environmental pollution                                                | operatives, nearby environment | 3            | 4 | 12 | Rags provided to wipe the oil off the pile once hole has been drilled.<br>Absorbent mat placed at the bottom of the pile which is being drilled to soak up any cutting fluid running down the pile.<br>protective gloves to be worn when using cutting fluid<br>COSHH bucket available to store contaminated rags, rags to be disposed of correctly.                                                                                                                                                                                                                                                                              | 2                                 | 2 | 4              |             |  |  |  |  |  |
| Use of Power Tools       | Electrocution, Entanglement                                                                 | Operatives/Site Staff          | 3            | 4 | 9  | Work as trained.<br>Ensure All Power Tools and cables are PAT Tested<br>Use tools in accordance with manufacturer's instructions<br>Do not use defective tools. Report/quarantine and replace damaged tools<br>Ensure that tools are fit for purpose and are regularly checked and inspected for faults, damage or excessive wear.<br>Always ensure that the correct tools are used for the appropriate activity<br>Never make do.<br>Ensure that tools used are suitable for the environment in which they will be used.<br>Provide toolbox talks.<br>Wear suitable PPE                                                          | 2                                 | 3 | 6              |             |  |  |  |  |  |
| Manual Handling          | Trapping, Crushing,Strains                                                                  | Operator                       | 2            | 4 | 8  | Safe Kinetic Lifting Techniques to be used at all times.<br>Manual lifting aids to be used at all times where possible<br>Competent staff trained in task and the safe use of tools.<br>Mandatory PPE to be worn at all times.<br>T.I.L.E assessment to be conducted.<br>Monotonous tasks must be shared out                                                                                                                                                                                                                                                                                                                      | 1                                 | 4 | 4              |             |  |  |  |  |  |
| Lone Working             | Physical Injury                                                                             | Person Lone Working            | 2            | 4 | 10 | Eliminate the need to work alone wherever possible.<br>Assign a buddy or ensure task is in an occupied area.<br>Where loan working is unavoidable, ensure adequate arrangements are in place                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                 | 3 | 3              |             |  |  |  |  |  |

## Risk Assessment

|                                                |                                                                   |                                        |   |   |    |                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |  |
|------------------------------------------------|-------------------------------------------------------------------|----------------------------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|
| Dangerous Diseases Weils<br>Disease/Dermatitis | Physical injury and/or<br>poisoning                               | Operator, Site Staff, Third<br>Parties | 3 | 3 | 9  | Wear suitable PPE including correct gloves for the task<br>Always wash hands with soap and running water after task<br>Maintain good personal hygiene<br>Do not smoke/drink or eat during task<br>Use barrier creams on exposed skin such as hands/arms<br>Cover all cuts/grazes and broken skin with waterproof plasters before and during work                               | 1 | 3 | 3 |  |
| Work At Height                                 | Physical Injury                                                   | Operator, Site Staff, Third<br>Parties | 4 | 3 | 10 | Work as trained<br>Ensure all work positioning equipment is in good serviceable condition and inspected<br>Ensure permits are submitted where required<br>Use of safety harnesses where necessary during task<br>Work at Height Risk Assessment                                                                                                                                | 2 | 4 | 8 |  |
| Slips, Trips & Falls                           | Physical Injury                                                   | Operator, Site Staff, Third<br>Parties | 3 | 4 | 12 | Keep work area tidy<br>Ensure good housekeeping policy is implemented<br>Always use designated walkways<br>Ensure correct PPE is worn at all times<br>Always use correct access/egress routes<br>Clear up spillages immediately and dispose of correctly<br>Observe changes in weather conditions and adjust working practices appropriately<br>Report any hazards immediately | 2 | 4 | 8 |  |
| Environmental Noise Pollution                  | Nuisance, disturbance to<br>animals, complaint and<br>prosecution | Operator, Site Staff, Third<br>Parties | 3 | 3 | 9  | Ensure mag drill is switched off when not in use<br>Consider position of equipment<br>Ensure provision of suitable PPE including ear defenders when working in areas between lower and upper exposure action values                                                                                                                                                            | 2 | 3 | 6 |  |

# Risk Assessment

|                    |                         |                              |            |
|--------------------|-------------------------|------------------------------|------------|
| Project Name       | Vine Street, Manchester | Work activity: Leptospirosis |            |
| Date of Assessment | E23181                  |                              |            |
| Assessed By        | Richard Greenwood       |                              |            |
| Review             | 10/12/2024              |                              |            |
|                    |                         | Document No.                 | SHE.RA.057 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                               | RISKS                                                                                | PEOPLE/GROUPS AT RISK | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                   | RISK RATING    |   |    | Comments |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------|--------------|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|----|----------|
|                                                                   |                                                                                      |                       | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                        | L = LIKELIHOOD |   |    |          |
|                                                                   |                                                                                      |                       | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                        | S = SEVERITY   |   |    |          |
|                                                                   |                                                                                      |                       | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                        | R = RATING     |   |    |          |
|                                                                   |                                                                                      |                       | L            | S | R  |                                                                                                                                                                                                                                                                                                                                        | L              | S | R  |          |
| Contact with vermin: Leptospirosis, lymes disease.                | Contact with unclean water- adsorption through cuts/ scrapes/ ingestion/ dust/ fumes | All site workers      | 3            | 5 | 15 | Staff to receive adequate information, instruction and supervision regarding leptospirosis, e.g. leaflet INDG84.<br><br>Any dead vermin to be left in situ.<br><br>No eating, drinking or smoking until hands have been thoroughly washed.                                                                                             | 2              | 5 | 10 |          |
| Tetanus/ hepatitis/ other sewage related diseases                 | Contact with unclean water- adsorption through cuts/ scrapes/ ingestion/ dust/ fumes | All site workers      | 3            | 4 | 12 | Site workers not directly working near the water but close by should cover all cuts and grazes with waterproof plasters.<br><br>Any operatives with cuts/ grazes should not work in direct contact with the water.<br><br>All staff are advised to keep their tetanus/ hepatitis immunisation up to date. If in doubt consult your G.P | 1              | 4 | 4  |          |
| General contaminated material to include sharp debris and needles | Contact with unclean water- adsorption through cuts/ scrapes/ ingestion/ dust/ fumes | All site workers      | 2            | 5 | 15 |                                                                                                                                                                                                                                                                                                                                        | 1              | 5 | 5  |          |

# Risk Assessment

|                    |                         |                                            |                         |
|--------------------|-------------------------|--------------------------------------------|-------------------------|
| Project Name       | Vine Street, Manchester | Work activity: Engineers Surveying On Site |                         |
| Date of Assessment | E23181                  |                                            |                         |
| Assessed By        | Richard Greenwood       |                                            |                         |
| Review             | 10/12/2024              |                                            |                         |
|                    |                         |                                            | Document No. SHE.RA.058 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                                      | RISKS                       | PEOPLE/GROUPS AT RISK         | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                               | RISK RATING    |   |   | Comments |
|--------------------------------------------------------------------------|-----------------------------|-------------------------------|--------------|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                                                                          |                             |                               | L=LIKELIHOOD |   |    |                                                                                                                                                                                                                                                                                                                                                                                                    | L = LIKELIHOOD |   |   |          |
|                                                                          |                             |                               | S=SEVERITY   |   |    |                                                                                                                                                                                                                                                                                                                                                                                                    | S = SEVERITY   |   |   |          |
|                                                                          |                             |                               | R=RATING     |   |    |                                                                                                                                                                                                                                                                                                                                                                                                    | R = RATING     |   |   |          |
|                                                                          |                             |                               | L            | S | R  |                                                                                                                                                                                                                                                                                                                                                                                                    | L              | S | R |          |
| Poor access to work area, Improper footwear for the working environment. | Sprains, strains, fractures | Engineers, All accessing site | 2            | 5 | 10 | Designated Footways/paths in good condition. S3 safety workboots to be worn at all times when on site                                                                                                                                                                                                                                                                                              | 1              | 5 | 5 |          |
| Obstructions in and on floors and walkways. Uneven Ground                | Trips, falls                | Engineers, All accessing site | 2            | 5 | 10 | Good housekeeping practices, ensure that correct footwear is worn at all times on site                                                                                                                                                                                                                                                                                                             | 1              | 5 | 5 |          |
| Engineer not instructed on method of surveying                           | Slips, trips, falls         | Engineers                     | 3            | 4 | 12 | Engineer instructed on safe method of surveying                                                                                                                                                                                                                                                                                                                                                    | 1              | 4 | 4 |          |
| Working Near Pile Line after pre-augering                                | Falls, ground collapse      | Engineers, All accessing site | 3            | 4 | 12 | Auger holes to be backfilled with suitable material by the client<br>Create exclusion zone around auger holes until the auger hole backfill is checked for stability.<br>Ensure that when 10 piles are installed after preaugering that the ground around the pile is checked for voids to avoid collapse.<br>Any areas that are unstable must be barriered off until backfill can be made stable. | 2              | 3 | 6 |          |
| Poor lighting                                                            | Slips, trips, falls         | All accessing site            | 2            | 5 | 10 | Background lighting provided by the principal contractor. Task lighting provided by SPUK                                                                                                                                                                                                                                                                                                           | 1              | 5 | 5 |          |

# Risk Assessment

|                    |                         |                                    |            |
|--------------------|-------------------------|------------------------------------|------------|
| Project Name       | Vine Street, Manchester | Work activity: Unexploded Ordnance |            |
| Date of Assessment | E23181                  |                                    |            |
| Assessed By        | Richard Greenwood       |                                    |            |
| Review             | 10/12/2024              |                                    |            |
|                    |                         | Document No.                       | SHE.RA.058 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital)  |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS | RISKS                               | PEOPLE/GROUPS AT RISK              | RISK RATING  |   |   | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RISK RATING    |   |   | Comments |
|---------------------|-------------------------------------|------------------------------------|--------------|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|----------|
|                     |                                     |                                    | L=LIKELIHOOD |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L = LIKELIHOOD |   |   |          |
|                     |                                     |                                    | S=SEVERITY   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S = SEVERITY   |   |   |          |
|                     |                                     |                                    | R=RATING     |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R = RATING     |   |   |          |
|                     |                                     |                                    | L            | S | R |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L              | S | R |          |
| Unexploded Ordnance | Setting off the unexploded ordnance | plant operator, site staff, public | 2            | 4 | 8 | <p>The Client will undertake a UXO Risk Assessment first to determine whether a UXO Survey is required (based on the history of the site), and what type of survey is appropriate – based on factors such as the nature of the risk, the proposed scope of works and ground conditions</p> <p>The procedure for a UXO Survey involves scanning and probing the terrain to assess if there are unexploded items of ordnance embedded in the ground, this is to make sure any planned ground works can be completed safely and with the minimum amount of risk to those involved.</p> | 1              | 4 | 4 |          |
| Breaking Ground     | Setting off the unexploded ordnance | plant operator, site staff, public | 2            | 4 | 8 | <p>If SPUK Operatives do come across a UXB work will stop immediatley and the findings reported to the site manager.</p> <p>SPUK will not return to the area without authorisation that th area is clear and safe to work.</p>                                                                                                                                                                                                                                                                                                                                                      |                |   |   |          |

# Risk Assessment

|                    |                         |                                   |            |
|--------------------|-------------------------|-----------------------------------|------------|
| Project Name       | Vine Street, Manchester | Work activity: Lifting Operations |            |
| Date of Assessment | E23181                  |                                   |            |
| Assessed By        | Richard Greenwood       |                                   |            |
| Date of Review     | 10/12/2024              |                                   |            |
|                    |                         | Document No.                      | SHE.RA.061 |

## Risk Assessment Key

| Severity Score | Likelihood Score |        |      |   |   |
|----------------|------------------|--------|------|---|---|
|                | 1                | 2      | 3    | 4 | 5 |
| 1              |                  |        |      |   |   |
| 2              | Low              |        |      |   |   |
| 3              |                  | Medium |      |   |   |
| 4              |                  |        | High |   |   |
| 5              |                  |        |      |   |   |

## Severity Key

| Score | Severity                 |
|-------|--------------------------|
| 1     | Minor Injury (First Aid) |
| 2     | Minor Injury (Hospital   |
| 3     | 7 Day Injury             |
| 4     | Specified Injury         |
| 5     | Death                    |

## Likelihood Key

| Score | Likelihood  |
|-------|-------------|
| 1     | Unlikely    |
| 2     | May Happen  |
| 3     | Likely      |
| 4     | Very Likely |
| 5     | Certain     |

| SIGNIFICANT HAZARDS                                     | RISKS                        | PEOPLE/GROUPS AT RISK                                               | RISK RATING  |   |    | CONTROL MEASURES IN PLACE TO REDUCE / MITIGATE RISKS                                                                                                               | RISK RATING    |   |   | Comments                                                                                                                                                                                        |
|---------------------------------------------------------|------------------------------|---------------------------------------------------------------------|--------------|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                              |                                                                     | L=LIKELIHOOD |   |    |                                                                                                                                                                    | L = LIKELIHOOD |   |   |                                                                                                                                                                                                 |
|                                                         |                              |                                                                     | S=SEVERITY   |   |    |                                                                                                                                                                    | S = SEVERITY   |   |   |                                                                                                                                                                                                 |
|                                                         |                              |                                                                     | R=RATING     |   |    |                                                                                                                                                                    | R = RATING     |   |   |                                                                                                                                                                                                 |
|                                                         |                              |                                                                     | L            | S | R  |                                                                                                                                                                    | L              | S | R |                                                                                                                                                                                                 |
| Crane failure due to overloading                        | Crane failure                | Crane Operators, , Banksmen, Supervision and others in the vicinity | 2            | 5 | 10 | Competent operatives complying with the Method Statement & Lift Plan                                                                                               | 1              | 5 | 5 | SP UK Crane Supervisor on site to ensure that Method Statement and Risk Assessment are complied with.                                                                                           |
| Overloading due to RCI error                            | Crane failure                | Crane Operators, Banksmen, Supervision and others in the vicinity   | 2            | 5 | 10 | Regularly calibrated RCI function checked daily                                                                                                                    | 1              | 5 | 5 | SP UK Planned Preventative Maintenance of equipment will ensure that RCI equipment is calibrated annually.<br>SP UK Crane Operators to carry out daily RCI function checks.                     |
| Electrocution from overhead or underground power cables | Electric shocks / fatalities | Crane Operators, Banksmen, Supervision and others in the vicinity   | 2            | 5 | 10 | Check area before work begins and identify demarcation zones.<br><br>Ensure that any services that can be removed or made dead are managed as per GS6 HSE Guidance | 1              | 5 | 5 | SP UK Crane Supervisor to liaise with Client Representative and review area of lifting operations to ensure that cranes are not being worked near power lines.<br>Refer to HSE GS6 for guidance |

## Risk Assessment

|                                                    |                                                                    |                                                                            |   |   |    |                                                                                                                                                                                                                                                                                                                                    |   |   |   |                                                                                                                                                       |
|----------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|---|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lloads falling due to equipment failure.           | Fatalities, damaged loads                                          | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Only certified lifting equipment which has been thoroughly examined is to be used.<br><br>Certification is on QR Codes<br><br>Equipment attachment points must be confirmed as designed and fit for purposes                                                                                                                       | 1 | 5 | 5 | SP UK Crane Supervisor on site to maintain certification and to confirm that lifting attachment points are designed and fit for the intended purpose. |
| Lifting attachment failures                        | Increased risks of incidents                                       | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Weight of loads are included in lift plan<br>Total weight to be lifted known to within plus/minus 2%.<br><br>Crane Operator monitoring crane loadings during lifting operation<br><br>Slinger Signaller to ensure that all lifting accessories used have a valid LOLER certificate and have had a pre use check prior to each use. | 1 | 5 | 5 | SP UK Crane Supervisor on site to ensure operatives comply with the requirements of the Method Statement and Risk Assessment.                         |
| Entrapment from moving parts                       | Crush/trap injuries                                                | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Clear gap of a minimum 600 mm between the crane and any point of contact to be maintained at all times during the lifting operation.<br><br>If 600mm gap cannot be maintained this area must be made into an exclusion zone to avoid crush injuries.                                                                               | 1 | 4 | 4 | SP UK Crane Supervisor and Banksman to monitor crane proximity to structures during lifting operations                                                |
| Poor housekeeping                                  | Slips trips and falls                                              | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | Ensure that working area is clear from tools & equipment<br><br>Ensure that the site is layed out to ensure efficiency                                                                                                                                                                                                             | 1 | 3 | 3 | SP UK personnel<br>Client Representative personnel                                                                                                    |
| Handling loads and ropes                           | Musculoskeletal injuries                                           | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | See manual Handling RA<br><br>Ensure that "Hand Off-Look-Step Away protocol is enforced by supervisors and management.                                                                                                                                                                                                             | 1 | 3 | 3 | SP UK Crane Supervisor on site                                                                                                                        |
| Bruises and strains                                |                                                                    | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 3 | 6  | Suitable Rigger gloves, hard hats, overalls and safety boots to be worn at all times.                                                                                                                                                                                                                                              | 1 | 3 | 3 | SP UK Crane Supervisor on site                                                                                                                        |
| Communication failure during the lifting operation | Poor communication leading to increased risk of incidents/injuries | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Hand signals to BS7121 will be used wherever deemed practical.<br>Where deemed necessary by the Crane Erection Supervisor lifting operations may be carried out using hand held radios.<br>When no radio command is heard all lifting operations must cease until communications are restored                                      | 1 | 5 | 5 | SP UK Crane Supervisor on site and SP UK Crane Operators and Riggers.                                                                                 |

## Risk Assessment

|                                                                 |                                 |                                                                            |   |   |    |                                                                                                                                                                                                                                                                                                                                          |   |   |   |                                                                 |
|-----------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------|---|---|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-----------------------------------------------------------------|
| Crane clash with site buildings/ structures / Proximity Hazards | Damage to plant/property/People | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 5 | 10 | Ensure that if there is no line of sight from the slinger to the crane operator that hand held two-way radios are available and in use.<br><br>AP to ensure that proximity hazards are shown and managed in the lift plan<br><br>LS to ensure compliance with the lift plan and to ensure that all proximity hazards are managed safely. | 1 | 5 | 5 | SP UK Crane Supervisor on site and Crane Operators and Riggers. |
| Environmental Spillage                                          | Pollution impacts               | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Adequate spill kits provided.<br>Appropriate containers provided to contain spillage.<br>Suitable waste segregation available on site.                                                                                                                                                                                                   | 1 | 4 | 4 | SP UK Crane Supervisor on site                                  |
| Noise effects on personnel                                      | Noise induced hearing loss      | Crane Operators, Riggers, Banksmen, Supervision and others in the vicinity | 2 | 4 | 8  | Appropriate PPE provided to rigging personnel                                                                                                                                                                                                                                                                                            | 1 | 4 | 4 | SP UK Crane Supervisor on site                                  |
|                                                                 |                                 |                                                                            |   |   |    |                                                                                                                                                                                                                                                                                                                                          |   |   |   |                                                                 |