

DEMOLITION WEST YORKSHIRE LTD

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Demolition Phase Plan

Strip Out and Demolition Operations, including Removal of Stair Tower, Masonry Walls and Existing Window

at

Chancery House, Liverpool

Revision History

| Revision | Date | Revision Details |
|----------|----------------|------------------|
| 01 | 20 August 2015 | Draft Copy |
| | | |

Circulation

| Recipient | Date | Date | Date |
|-------------------------|------|------|------|
| NU Construction Limited | | | |
| | | | |

Demolition Phase Plan Prepared By

C L Brown Associates Ltd 125A Fitzwilliam Street, Huddersfield HD1 5PS Telephone: 01484 606058

| Signature: (C L Brown Associates Ltd) Name: Mr A Brown | A W Brown |
|---|-----------|
| Signature: (Demolition West Yorkshire Ltd) Name: Mr M Robinson | |

C L Brown Associates Ltd has produced this document, and as part of our responsibilities along with HSE advice we recommend that this site be monitored on a regular basis. This will ensure that procedures within the method statements and risk assessments are being carried out in line with current legislation.

C L Brown Associates Ltd can be contacted on the above number to make arrangements for site monitoring to be carried out.

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SECTION I DESCRIPTION OF THE PROJECT

Introduction

This demolition phase plan / method and risks has been prepared under Regulation 20 of the CDM 2015 Regulations and in conjunction with BS 6187:2000 British Standard, code of practice for demolition.

This construction phase demolition plan describes specific arrangements and duties relating to health and safety for this project. It includes factors relevant under the Health & Safety at Work Act 1974, the Construction Design Management Regulations 2015 and the Management of Health and Safety at Work Regulations 1999.

Prior to any work commencing on this project a copy of this document must be forwarded to NU Construction Ltd for approval under Regulation 4(5a) (5b) of the CDM Regulations 2015.

Demolition West Yorkshire Limited has the right to amend the Demolition Phase Plan / Method Statements if necessary; in the event of amendments made, details will be forwarded to the Principal Contractor client for approval.

Description of the Project

The works comprise of some removal of non-licenced asbestos textured coatings, the soft strip of doors, frames, ceilings and floor coverings. The removal of stud partitions, existing M&E, isolated by others, kitchen and sanitary ware, the removal of a window as covered in the planning agreement, the removal of an external stair tower totally and a concrete slab from the ground floor.

Site Map



| Site Details | Works Programme |
|---------------------------------|--------------------------------------|
| Site Address Chancery House | Estimated Start Date: September 2015 |
| 96 Paradise Street Liverpool | Estimated Duration of Works: TBC |

 Hours of Work and Delivery of Materials:

 Delivery of materials to be arranged to ensure no disturbance to local residents. Weekend working to be arranged with the client.

 Monday - Friday
 8.00 hrs
 17.00 hrs

 Saturdays
 Image: Saturdays
 Image: Saturdays

Details of Project Team

| Client / Building Owner Chancery House, Liverpool LLP High Green Farm Troutbeck Windermere LA23 IPN | Principal Contractor NU Construction Old Power Way Low Fields Business park Elland HX5 9DE |
|---|--|
| Design Falconer Chester Hall 12 Temple Street Liverpool L2 5RH Tel: 0151 243 5800 | |
| CDM Co-ordinator Ridge & Partners LLP Horton House, Exchange Street East Exchange Flags Liverpool Merseyside L2 3YL Tel: 0151 236 0946 | |

Asbestos

There is a requirement to notify all non licensed asbestos removal works (exception being short duration works), Demolition West Yorkshire are aware that a full Asbestos Demolition and Refurbishment survey has been undertaken. NU Construction are arranging for the removal of all licensed asbestos containing materials which will be completed prior to Demolition West Yorkshire Limited commencing the strip out and demolition works.

| Refurbishment or Demolition Asbestos Survey | | |
|---|-----|--|
| Is an Asbestos survey required for this project | Yes | |
| Has the survey been undertaken | Yes | |

Results: Full asbestos survey results and location maps has been provided with the tender documentation.

All Demolition West Yorkshire operatives hold UKATA Parts A & B training and will stop work immediately and report to the NU Construction site management in the event of locating any suspect materials.

| Description of Site and Structure for Strip out | | | |
|---|------------------------------|-------------------------|--|
| Building identification | on No: 142331 Chancery House | Redevelopment, Chancery | v House, Liverpool |
| Former Use | Commercial | General Condition | Good |
| Wall Structure | Brick | Floor Structure | ТВС |
| Number Of Floors | Four floors | Highlighted Problems | Located in Liverpool centre, access arrangements limited - to be put in place |

SECTION 2 COMMUNICATION AND MANAGEMENT OF THE PROJECT

The responsibility of the Principal Contractor involves the day to day running of the site, site safety and the organisational aspects of the demolition phase plan. They will also communicate and liaise with the CDM Co-ordinator, Principal Designer / Client when necessary. All employees will be encouraged to take reasonable personal care and co-operate where necessary to prevent harm to themselves or others.

| Organisation And Arrangements For Liaison |
|--|
| Structure Mr Mark Robinson (Contract / Site Manager) |
| Site Operatives |
| Contractors |

Contracts Manager

| 5 | |
|----------------|---------------|
| Name | Mark Robinson |
| Contact Number | 07904 390098 |

Visiting Contracts Manager

Responsible for overseeing the strip out project to ensure work is carried out safely in the first instance and to schedule in accordance with the documentation and best practice.

| Site Supervisor | | |
|-----------------|---------------|--|
| Name | Mark Robinson | |
| Contact Number | | |
| | | |

Full Time Supervisor

Responsible for day to day running of the project and ensuring all work is completed in a safe manner. Responsibilities include maintaining and updating the H&S on site.

| First Aider(s) | |
|----------------|-----------------------------|
| Names | Provided by NU Construction |

First Aid Facilities

A qualified first aider / appointed person will be on site at all times. First aid boxes will be provided and checked regularly by the appointed first aiders. The first aiders will be identified during the site induction and information posters placed on the site notice board.

The Health And Safety Goals

The object is to complete the works within the contract timescale, having due regard to the welfare of all those employed on the project, without putting significant risk to their health and safety, and that of any others who may be affected by the project.

The management of Demolition West Yorkshire Limited recognises that, as employers, they and their employees have duties placed upon them by the Health and Safety at Work Act 1974.

The company will conduct its activities, such that they comply with all statutory legislation, approved codes of practice, general guidelines and site rules established by N U Construction.

It is the policy of the management to:

- Provide a place of work that is safe and without risk to health and welfare of all its employees, independent contractors, members of associated companies, customers and general public, so far as is reasonably practicable.
- Make safety an integral part of the management of the company.
- Prevent accidents incidents occurring on site from our acts or omissions.
- Monitor the performance of activities, against the demolition phase plan.
- Provide appropriate training for employees and others where necessary.
- Seek to continually improve safety, health and welfare performance.
- Regularly review the Demolition Phase Plan, introducing improvements where possible.
- Consult with employees to ascertain measures required to increase awareness of health and safety and to ensure that all necessary measures are taken to make this plan effective.

Monitoring And Review Of Health And Safety Issues

Health and safety will be an item on the agenda of all project meetings held with NU Construction. A report / minutes will be kept on any health and safety issues that have arisen since any previous meetings and subsequent actions, as a minimum, these will include:

- Time lost due to accidents
- Hazard spotting statistics
- Safety inspections and audits
- HSE Visits
- Implications of developing design issues and changes
- Safety goals for the project and arrangements for monitoring and review

Monitoring And Review Of Health Safety And Performance

At various times during the demolition, Demolition West Yorkshire Limited will carry out health and safety inspections of the work on site. The purpose of these inspections is to ensure that they are not in breach of their own statutory obligations. All employees, sub contractors and their employees will be expected to cooperate and assist with these inspections and to act on any reasonable suggestions that are offered. As requested by Demolition West Yorkshire Limited an independent safety officer can visit site to carry out inspections, with action being taken immediately on their recommendations followed by a detailed report.

Liaison Between Parties On Site

Demolition West Yorkshire Limited will ensure they attend meetings held on site to maintain up to date contact and exchange of any safety relevant information. Alterations to working methods or personnel involved in the project will be relayed to the operatives of Demolition West Yorkshire Limited and others who it may affect.

Any other information arising that may have an effect upon other personnel working on site will be notified by NU Construction at the earliest opportunity.

Consultation With The Workforce

Each morning before work commences Mr M Robinson the site manager or supervisor) will discuss the days' works programme with the operatives on site. All hazards associated with the work will be highlighted to the NU Construction site manager. In addition, periodic safety talks on subjects relevant to the works being carried out will be given by the site manager or supervisor or the visiting safety advisor. The operatives are encouraged to participate in these talks and bring to light any problems, hazards or safety issues encountered on the project. Attendance records of these talks will be held.

The Selection And Control Of Contractors

Demolition West Yorkshire Limited employs a system of assessing potential sub contractors' competency which includes a health and safety questionnaire. All accepted contractors are reviewed to determine continued suitability / competency. The assessment / review will consider all aspects of the contractor's management and all operatives' relevant technical capabilities. The contractor's policies, practices, risk assessments and safe working procedures and miscellaneous safety matters will be explored in depth along with relevant experience. The information collected during the assessment / review will be kept updated as necessary to aid future reviews. The information obtained during the review may include the following:

- Company safety policy statement
- Site safety responsibilities
- Risk and COSHH assessments
- Method statements
- Competency, training records and qualifications
- Provision of PPE
- Provision of welfare
- Monitoring of safe systems of work
- Safety performance and inspection reports
- Accident statistics
- HSE Actions

Site Security, Access And Egress Arrangements

Demolition West Yorkshire Limited will erect barriers internally within the building and use two metre high security fencing externally where necessary, in conjunction with any existing security fencing provided by NU Construction around the site. Warning signs will be placed along the fence at suitable locations to ensure persons approaching are aware of the demolition site, exclusion zones and the dangers therein.

Demolition West Yorkshire Limited must ensure that prior to any structural demolition works being undertaken, adequate precautions have been taken to prevent any pedestrian movements within locations where there is foreseeable risk to the general public during demolition operations.

Access to the site is possible through various locations but will be determined by the Principal Contractor, it should be possible to use the car park at the rear of the building to establish welfare provisions, vehicle parking and material storage.

All visitors to the site will enter through the identified entrance point where they will be instructed to report to the site manager / supervisor. They will be required to sign in and out to ensure the site management are aware of how many persons are on site in the event of an emergency situation occurring. All visitors will be required to undergo a site induction, wear safety equipment (PPE, safety footwear, hard hat, high visibility jacket) and be accompanied by a representative at all times.

Any perimeter fencing/ security fencing will be checked on a daily basis by NU Construction Limited to ensure that it is maintained, kept in good condition and is secure. Gates into site will be secure at all times.

If the exclusion zone (hazardous area) extends close to, or beyond the site boundary for any period of time, standby men will be deployed to ensure that unauthorised personnel, i.e. public, are directed away from the area.

All mobile plant left overnight will be parked safely and locked to prevent anyone tampering with them. The keys for the machines will be kept secured or removed from the site by the site supervisor or nominated person.

Site Induction

Before attending site everyone must attend a site induction given by NU Construction, the induction will identify information regarding to:

- Site specific instructions
- Site rules
- Welfare facilities
- Emergency procedures
- First aid facilities and provisions

Refer to the site induction which is to be completed by the site manager / supervisor.

Personnel And Training

The work will be carried out by experienced competent demolition operatives, supervised by an experienced site manager / supervisor.

Onsite training will take the form of initial inductions and periodic tool box talks given by the site manager / supervisor or safety advisor(s). Attendance records are kept of these safety talks and will be available for inspection on site.

Welfare Facilities And First Aid

NU Construction Limited the principal contractor will provide welfare facilities for all site personnel. They will be equipped with heating, tables and chairs, a means of heating food and boiling water, wash basins, drying and toilet facilities. These facilities will be conveniently located with good access, lighting and ventilation, properly maintained and kept clean.

A qualified first aider will be present on site for the duration of each working day. First aid boxes will be available on site and checked regularly by a nominated person.

Emergency Procedures

Local emergency services will be summoned in the event of an accident or incident. Nominated access routes will be kept clear of obstruction at all times to ensure safe access for emergency vehicles.

Operatives will be informed during their site induction and subsequent safety talks, that in the event of an emergency they must go directly to the nearest muster point and await further instruction.

A daily log will be kept to record the personnel on site at any one time and the area that each person is working in if appropriate, to provide essential information in the event of an emergency.

Accident Reporting And Investigation

An accident book will be kept on site to record all accidents. In accordance with Health & Safety Regulations incidents, diseases or injuries classified under the Reporting of Injuries, Diseases or Dangerous Occurrence Regulations (RIDDOR) will be notified to the HSE by the employees' employer within the specified timescale and copied to Demolition West Yorkshire Limited.

Accidents to non employees arising from activities on the site will be reported to and managed by NU Construction.

In the event of a near miss, accident or incident, the NU Construction site manager will be notified immediately who will in turn notify their safety advisor. The scene of the accident / incident will be visited and inspected by the site manager and safety advisor, the injured person and witnesses will be questioned. The site manager and safety advisor will report their findings of the investigation including the underlying cause(s) of the accident / incident and all actions to be implemented to prevent a reoccurrence.

Production And Approval Of Risk Assessments And Written Systems Of Work

Demolition West Yorkshire Limited will ensure that the risk assessments are carried out for all demolition activities and the findings incorporated into the safe system of work. The risk assessments must be reviewed regularly and revised as necessary. Demolition West Yorkshire Limited's site manager will approve all risk assessments and safe methods of work before the work is carried out.

When agreed methods / procedures have been produced these will be adhered to by all employees. Any deviation or alteration will only be allowed on receipt of appropriate authorisation from senior management and followed up with immediate written changes to the method statement. The only possible exception to this rule will be where an emergency situation arises which requires immediate action.

Site Rules

All operatives on site will undergo induction training by the site manager / supervisor before commencing work covering all aspects of safety and hazards associated with the site, including an explanation of Demolition West Yorkshire Limited's method statement and emergency procedures.

The Site Rules

- The site access points will be secured from unauthorised entry by perimeter fencing / fencing to entry points, with appropriate warning signs, any access or created openings must be secured immediately.
- At the end of the working day all means of access e.g. steps, ladders left in position must be secured to prevent unauthorised persons especially children accessing the site and hazardous areas.
- All personnel on site must be inducted as to the site nature and specific hazards.
- All plant, equipment used on site must be compliant with the Provision and Use of Work Equipment Regulations 1998 (PUWER), maintenance and relevant certificates must be kept on site.
- All substances to be used or handled on site must have COSHH assessments available on site for operatives to consult.
- Smoking on site will only be allowed in specified smoking areas, these will be relayed during the site induction. The possession or use of drugs or alcohol on site is strictly prohibited.
- Operatives must maintain the site welfare facilities in a tidy safe condition for the duration of the works.
- Operatives must wear the standard PPE required on site at all times, additional PPE will be worn as required and as specific COSHH and risk assessments dictate.
- Operatives are not allowed to use audio equipment on site.
- Operatives must comply with the demolition phase plan, work to their method statements and abide by all safety signs at all times.
- All operatives and contractors on site must co-operate in the interest of health and safety.
- All operatives on site must conduct themselves and perform their duties of work on site in a safe manner.
- Operatives must check their plant and equipment prior to use, reporting defects or problems to their supervisor, removing the plant or equipment from use where necessary.
- All work areas must have clear, well maintained signage as to the works being carried out.
- Operatives must have designated fire fighting equipment on hand to cover hot works carried out on site: hot works permits should also be used.
- Protection or guarding that is removed to allow work to be carried out must be immediately replaced once the work is complete. Protection and guarding must not be removed if it creates an unsafe working environment.
- All waste materials must be collected and removed from site at regular intervals.
- No burning of rubbish is allowed on site.
- Acts of threat or violence will not be tolerated and any offender will be removed and permanently excluded from the site.

These rules may be updated as the nature of the work proceeds

Site Specific Emergencies And Procedures

Emergency procedures are the responsibility of NU Construction's' site manager, who will ensure that all personnel under their control will attend site inductions where they will be informed of the emergency procedures.

Fire Prevention On Demolition Sites

All Demolition West Yorkshire Limited's employees are aware of the hazards of fire on demolition sites and thus are trained and vigilant in ensuring sites are kept clear of unnecessary flammable materials, and fire fighting equipment is readily available. Supervisors who control demolition sites will ensure that all sources of ignition are controlled such as burning activities, electrical equipment, smoking and fires. They will ensure that:

- Where applicable a hot works permit will be issued.
- That all burning equipment is in working order, and that operatives are suitably trained.
- Water hosed or extinguishers or both are available during hot work procedures.
- Before any burning activities commence, all combustible materials will be removed and kept safe.
- Burning activities will cease at least one hour before the end of the working day and followed by an inspection to ensure that all flames have been extinguished and that no hot spots are evident.
- Flammable waste materials will not be allowed to build up and controlled by continual movement.
- That all electrical equipment is suitable for the task and suitably maintained.
- There will be no fires allowed on site.
- Smoking will be prohibited to only designate smoking areas.
- All fuels must be stored safely in accordance with the fire procedures document.
- The site will be secured at the end of each shift to help eliminate the possibility of arson.

SECTION 3 ARRANGEMENTS FOR CONTROLLING SIGNIFICANT RISKS

- Fire and emergency access routes will be kept free from obstruction at all times.
- Agreed access and egress routes on site will be observed at all times.
- All adjacent roads will always be kept clear of obstructions, including contractor and employee vehicles.
- Footpaths and roads will be protected and maintained in a condition suitable for pedestrian traffic. Where the footpath closure is in place frequent checks will be undertaken to ensure that the Chapter 8 procedures are in place and they are not breeched by the general public.
- Materials will not be stored on or near roadways or footpaths or other areas where they may constitute a hazard.
- Banksmen will be employed to assist in traffic movements on and off site with consideration for other road users and pedestrians.
- In the event of an emergency a nominated person will meet the emergency services at the entrance of the site and guide them to the area of the emergency.
- Upon arrival to site a banksman will take control of plant.
- Where necessary a turning area will be established, excluding all pedestrians.
- Vehicles not fitted with an audible reversing warning alarm and flashing beacon when undertaking reversing or any difficult manoeuvres on site will be controlled by a banksman at all times.
- Banksmen will always wear high visibility clothing.
- Safety signage will be erected on site to ensure operatives are aware of any hazards.
- Operatives must not interfere or operate any plant unless they are authorised and trained to do so.
- The use of mobile phones while operating plant/ equipment is strictly forbidden.
- Acts of threat or violence will not be tolerated; any offenders will be removed from site immediately and permanently excluded.
- All operations will be planned and assessed prior to commencing.
- All systems of work will be monitored.
- All plant and equipment will be subjected to thorough inspections and pre use inspections.
- Only competent persons will be permitted to operate plant and equipment.

Services

| Location Of Existing Ser | vices- See Utility Prints | Isolated \checkmark |
|--------------------------|------------------------------|-----------------------|
| Electricity | Client / CDMC /PD to confirm | |
| Gas | Client / CDMC /PD to confirm | |
| Telephone | Client / CDMC /PD to confirm | |
| Water | Client / CDMC /PD to confirm | |
| Public Sewers | Client / CDMC /PD to confirm | |
| Drainage | Client / CDMC /PD to confirm | |
| Others | Client / CDMC /PD to confirm | |
| | | |

Demolition West Yorkshire Limited's' site manager will require assurances that all above services are isolated, a letter of confirmation will be required prior to works commencing.

The isolation tick box is to be completed by the site manager / supervisor prior to any work commencing.

| Services On Site NOT | solated (Full Section To Be Completed By The Site Supervisor) | | | |
|--------------------------|---|--|--|--|
| Electricity | | | | |
| Gas | | | | |
| Telephone | | | | |
| water | | | | |
| Public Sewers | | | | |
| Drainage | | | | |
| Others | | | | |
| Item and reason why it | has not been isolated: | | | |
| Precautions taken to er | isure safe working if any services are left live: | | | |
| Are all supervisors, ope | ratives and any sub contractors aware of any live services: | | | |

| Demolition West Yorkshire Limited Chancery House, Liverpool | | | |
|--|---|----------|-------|
| Provision of Information Regarding Live Services On Site By signing this sheet you have been made aware of the type and location of live service present on this site | | | |
| Print Name Clearly | | Sign | ature |
| | | | |
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| Supervisor | 5 | Ignature | Date |
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Activities On Site During The Works

NU Construction will be present on site for the duration of the works, no other contractors are expected on site during the strip out / demolition works

| Activities On Or Adjacent To The Site-Surrounding Land Uses Which May Affect Health And Safety | | | | |
|--|------|--------|-----|--|
| | High | Medium | Low | |
| Residential | | | ~ | |
| Schools / Colleges | | | ~ | |
| Industrial / Commercial | ~ | | | |
| Major Roads | ~ | | | |
| Hospitals | | | ~ | |
| Railway Lines | | | ~ | |
| Water Ways | | | ~ | |
| Overhead Lines | | | ~ | |

Comments

Located within central Liverpool , all works undertaken by DWY are both external and internal works

Preventing Falls

Where possible the need for working at height will be avoided, if unavoidable an assessment will be carried out to identify the safest overall means of completing the work. Safe working platforms and collective safety measures will take priority over personal protective equipment (individual). Anyone working at height will be given the appropriate training, information and instruction in the precautions to be taken to prevent falls of persons and objects. Anyone operating safe working platform equipment will be fully trained and competent in its use. If employees are exposed to the risk of falling due to open edges, guard rails and toe boards will be erected.

If a collective safeguard measure (i.e. net) is used, it will be of adequate strength and design to arrest the fall of personnel safely and installed by qualified persons. Any safe working platform / equipment will be chosen with full regard to working conditions, nature of the work to be completed, and the safety of the persons using the equipment. Adequate means of safe access and egress for the work platform will be provided. The safe working platform will be of sufficient size and safe working load to allow safe passage of personnel and use of equipment/materials as required. All safe working platforms, equipment and fall arrest systems will be inspected regularly and removed from service if any defect is located.

Harnesses and appropriate lanyards will be worn by all personnel where the possibility of falling remains. Where the use of harnesses is involved, rescue procedures will be established prior to commencement, including training the workers.

| Access To Work Above Ground Level Will Be Attained By | | |
|---|--------------|--|
| Existing ladders, walkways, landing and stairs | \checkmark | |
| Scaffolding | | |
| Tower scaffolds | ~ | |
| MEWP's | \checkmark | |
| Other means | | |
| | | |

Comments:

Where possible the need for working at heights will be avoided, if unavoidable an assessment will be carried out to identify the safest overall means of completing the work.

All personnel will be fully trained in the safety and safe working procedures when working at height, this training will be carried out through external H&S training along with site inductions and tool box talks.

It is foreseeable that there may be some requirement for low level work at height activites during the soft strip operations.

Controlling Lifting Operations

All lifting operations will be undertaken by competent personnel working to agreed procedures and regulations, and utilising properly designed, manufactured, tested and maintained equipment. All A frames/ Lifting tackle will have been tested and examined before being put to use on site. Copies of test certification, examinations and inspections will be available for inspection when required.

All ropes, chains, slings and other lifting gear will be clearly marked with their SWL (safe working load) and an identification mark. They will be examined every six months and a record of the examination maintained.

In the event of a crane lift being undertaken Demolition West Yorkshire Limited must ensure that an appointed person is established and a lift supervisor is available on site to supervise the lift. There is a clear system of communication established and agreed between the person in charge, the crane driver, the banksman and the riggers handling the load. The crane must be set up in the agreed location as per the design drawing.

The Maintenance Of Plant And Equipment

Demolition West Yorkshire Limited will ensure that all plant and equipment brought onto site for use by employees will be maintained, tested and certified to the appropriate standards.

Documentation of the above will be requested from any sub-contractor or Hire Company and filed on site prior to the use of plant and equipment.

Upon arrival on site the equipment/ plant will be inspected ensure it is in good condition and that adequate operating instructions are available where appropriate, including any safe working load (SWL) or safety critical operating conditions. Regular servicing and maintenance will be carried out; any defects arising will be rectified immediately. Only employees authorised and designated by Demolition West Yorkshire Limited and holding the appropriate plant training certification of training CPCS (construction plant competency scheme or similar qualification) will be allowed to operate plant and machinery on site.

Hot Work

No hot work will be carried out unless the necessary permit to work has been completed and the controls detailed and observed.

Operatives will be fully trained and conversant with the techniques of Oxy Propane cutting of metals and will be provided with suitable clothing, protective equipment and appropriate safety equipment, where required medical checks will be carried out at requisite intervals and the results recorded.

All personnel engaged in flame cutting operations which are contaminated with lead will wear respiratory equipment of a type approved by the HSE, usually a North N7700 twin filter respirator. All such work will comply with the approved code of practice for the control of lead regulations.

Whenever hot work is carried out on site, the operatives will have a fire extinguisher and / or charged up hose at hand and be trained in their use. At the end of each shift and before meal breaks, an inspection of the area will take place to ensure there is no risk of fire. Following hot work, the area will be wetted down before the end of each day if necessary.

All hot works will cease an hour before the end of a shift and a check of all hot work areas will be made prior to operatives leaving site.

Asbestos

In the event of further suspect asbestos being encountered during the demolition work, all work will cease and the site manager for NU Construction will be informed.

Once the nature of the asbestos contaminated materials (ACM) has been verified an additional or replacement plan of work will be issued by an asbestos removal company covering all aspects of the asbestos removal works, to conform to the necessary Asbestos Regulations and current codes of practice.

All reportable asbestos materials on site will be removed by a licensed contractor. Notification (ASB5) of the removal of Asbestos Plans of Work will be required before any work commences and approved by the Client / Principal Designer/ CDM Co-ordinator.

The cost of any additional work due to the discovery of Non Licensed Asbestos will be agreed between Demolition West Yorkshire Limited and NU Construction.

Manual Handling

Demolition West Yorkshire Limited will so far as is reasonably practicable, avoid the need for their employees to undertake any manual handling operations at work which involve a risk of them being injured. Demolition West Yorkshire Limited will provide any equipment that is required as identified by the site specific risk assessment, assess any hazardous manual handling operations that cannot be avoided and put in place control measures to reduce or eliminate the risk of injury. Demolition West Yorkshire Limited will have equipment available for manual handling purposes such as wheel barrows, sack carts, bottle trolleys and bogies.

The company will assess and monitor manual handling operations and where necessary reassess the tasks and put into place additional control measures.

Health Hazards

Safety equipment that may be needed on site includes face masks and filters that conform to HSE approval lists, respiratory equipment, protective clothing /overalls, gloves, footwear and full body safety harnesses. First aid and safety equipment will be available for use in an emergency.

All Demolition West Yorkshire Limited's staff and contractors shall wear the appropriate protective clothing identified in the risk and COSHH assessments, at all times. In the event of failure by a contractor to provide or use the necessary protective clothing or equipment, the site manager will stop work until the problem has been remedied satisfactorily and safely.

Operatives coming across any unknown substance will report the substance and its location to his supervisor/ site manager immediately who will inform Demolition West Yorkshire Limited, who will then arrange for the substance to be dealt with accordingly.

Storage Of Materials

Diesel or oil stored on site will be stored within a bund or specific bunded container to prevent spillages from entering into any water courses.

Oxygen and Propane gas cylinders or packs will be stored safely within a secure, well ventilated area fitted with a lock. Propane will be stored separate from oxygen with a distance of at least three metres between them. Empty gas bottles will be stored separately.

All flammable materials / substances held on site will be kept to minimum quantities and stored at least five meters from any buildings; the location will be designated and clearly identified as a no smoking area.

Hazardous Materials

All known hazardous materials will be covered by a current material safety data sheet (MSDS) and COSHH assessment which will be made available for all personnel to read. In addition personnel will be instructed in the safe working procedures necessary before they come into contact with such materials.

These procedures will be highlighted in the induction course or subsequent tool box talks. Any health monitoring required will be arranged in line with the requirements of the legislation concerned.

Any hazardous waste will be stored in appropriate lockable containers, separate from other waste materials to prevent cross contamination.

Noise

Under the Control of Pollution Act 1974, part 3, Environmental Protection Act 1990 and the Control of Noise At Work Regulations 2005, noise is a recognised form of pollution and as such can be classified as a nuisance. The control of noise (codes of practice for construction and open site) order 1984 gives legal approval for BS5228 parts I & 2, 1997. This provides information on noise and noise control on construction and demolition sites. Every attempt shall be made to control / minimise noise at source.

Demolition West Yorkshire Limited's' operatives working on site (particularly those working outside the building) will take all reasonably practicable steps to minimise the noise generated on the site and thereby avoid a local authority notice (under section 60 of the Control of Pollution Act 1974) being served.

On site where construction or demolition works are in progress, contractors have a responsibility to see that activities are carried out in the quietest practicable manner. Where noisy activities are unavoidable the disturbance will be minimised / attenuated by choice of technique, timing, shielding or protection as appropriate.

On moving plant, noise levels will be minimised by being vigilant on points such as:

- stopping rattles (e.g. tightening covers, etc)
- throttling down engine when idling
- keeping tools sharp to reduce friction noise
- not dropping items (e.g. into skips from height unnecessarily).

If noise levels are still unacceptably high and no reasonably practicable alternative is available, Demolition West Yorkshire Limited's' operatives and contactors will use such methods as:

- Screening, e.g. by noise screens
- Silencing, e.g. by fitting silencers, mufflers, shield enclosures or barriers
- Distance the activity from occupied premises.

Where any person is liable to be exposed to noise levels greater than 80-85 dB(A), they will be informed and provided with suitable hearing protection. The most likely protection in ascending order of attenuation is, ear plugs, ear muffs and noise attenuation helmets.

Noise will be kept to a minimum at all times and any further restrictions imposed under the terms of the contract will be strictly adhered to.

Vibration

When the work involves the use of vibratory equipment Demolition West Yorkshire Limited will monitor their workforce, to ensure the maximum exposure levels are not exceeded by any of their employees.

Records of the expected levels of equipment will be kept along with times and durations of individual employees exposures.

Equipment and tools will be selected, maintained, used and rotated to ensure each employee's exposure levels are kept within the legal requirements.

Exposure To Ultra Violet Radiation From The Sun

Demolition West Yorkshire Limited are aware of the dangers from UV rays from the sun which can lead to the following:

- Skin damage
- Sunburn
- Blistering
- Skin cancer

Demolition West Yorkshire Limited takes the damage from the sun's rays seriously and will endeavour to provide information to site operatives which include sun protection advice through toolbox talks, communication, posters, encourage workers to cover up during the summer months, encourage workers to use sun screen on parts of the body they cannot cover up.

Lead

Where the presence of lead has been identified, either in paint or in other materials, the Control of Lead at Work Regulations 2002 and the associated Approved Code of Practice will apply. The principle risk is likely to arise from the burning and cutting of steel work coated with lead based paints. Other areas of risk are the demolition of buildings or plant which have been used for processing lead or lead compounds and the removal and dismantling of vessels which have been used for the storage of lead alkyls and leaded petrol.

An assessment will be made to determine the nature and degree of exposure of the workforce to lead, and the appropriate precautions required. The standards to be achieved are set out in the Approved Codes of Practice.

The precautions taken may include:

- Prohibition of eating, drinking and smoking in contaminated areas.
- Provision of information and adequate washing facilities.
- Provision of protective clothing.
- Provision of local ventilation.
- Respiratory protective equipment.
- Medical surveillance where necessary.

Dust

Demolition work, particularly the demolition of old buildings will generate dust, especially during periods of dry weather. This dust generation can be controlled by wetting the surfaces being demolished. Demolition West Yorkshire Limited's operatives will use hoses to spray water onto brickwork and debris during the demolition operations when conditions demand.

Siliceous dust occurs as a building material in natural stone, bricks or aggregates for concrete. Demolition processes involving breaking, crushing or grinding siliceous material will create dusts containing crystalline silica. Suitable respiratory protective equipment will be provided for and worn by employees at risk. All personnel working in dusty areas shall, when necessary, where a dust mask. All operatives concerned will be instructed in the correct use of all RPE / PPE.

Dry areas of the works will be dampened to prevent the spread of airborne dust. In addition to suppression extraction systems must also be used.

| POSSIBLE HEALTH HAZARDS PRESENT | | |
|---|--------------|--|
| Check List | Yes / No | Comments |
| Asbestos | \checkmark | See Survey |
| Leptospirosis | \checkmark | Ensure Good Hygiene |
| Contaminated Water | | |
| Needle Stick Injury | \checkmark | Pre Start Inspection |
| Aspergillus Infection | | |
| Micro Organisms (Sewerage) | | |
| Allergic Rhinitis | | |
| Extrinsic Allergic Alveolitis (Birds/Dusts) | ~ | Routine checks to be made for signs of nesting birds and droppings in roof areas and underdrawings |
| Vibration | \checkmark | Assessments To Be Recorded |
| Construction dust | √ | PPE, Suppression and extraction |

SECTION 4 SITE SPECIFIC ARRANGEMENTS

Location Of Site Office And Welfare Facilities

NU Constructions' site amenities are available within the confines of the site boundary.

Welfare facilities will be available for breaks, welfare will be provided in accordance with schedule 2 of the CDM 2015 Regulations.

| Checklist | ✓ |
|---|---|
| Toilets separate male and female where applicable | |
| Wash basins with warm water, soap and towels | |
| Changing area-work clothes should be kept separate from workers own clothes | |
| Rest and eating facilities with a means to heat food and water | |
| Drinking water | |
| Copy of F10 Notification on site | |
| Copy of Asbestos, Refurbishment or Demolition survey on site | |
| Copy of Health and Safety at Work Act poster on site | |
| Copy of Employers Liability insurance certificate on site | |
| Copy of all termination of services certificate on site | |
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SITE WASTE MANAGEMENT PLANS

Introduction

A site waste management plan (SWMP) is a report of the plans to reduce and manage the waste from a construction demolition project. It provides a framework for waste minimisation as well as the actual management of all waste types and quantities arising from the project.

The SWMP Regulations 2008 apply to all construction, demolition and maintenance or refurbishment projects costing more than £300,000 (excluding VAT).

A basic SWMP must be produced for projects costing above £300,000 up to 500,000 and a detailed SWMP is required for projects in excess of £500,000.

(This includes the cost of the whole project and not just the individual phases – e.g. the cost of demolishing and clearing the area for redevelopment may be $\pm 100,000$; so long as the subsequent redevelopment exceeds $\pm 200,000$, the project requires a SWMP.)

Although the Project Client has overall responsibility for ensuring a SWMP is produced, they can delegate the development and management of the SWMP to the principal contractor or other third party.

| Project subject to the should criteria | Yes | ✓ |
|--|-----|---|
| Project subject to the above chiena | No | |

If the responsibility for the SWMP is delegated to a principal contractor, they have a legal duty to ensure that:

- All site waste is managed according to the environmental protection (duty of care) regulations 1991
- Sufficient site security to prevent illegal waste disposal
- The SWMP is updated whenever waste is removed from site
- Details are recorded on all SWMP's of the types of waste produced on site and how they are managed, as well as the quantities for detailed SWMP's
- Waste is recycled, reused or recovered so far as is reasonably practicable
- Every site worker is inducted about the SWMP together with any further information and training to ensure waste is managed according to the plan this can be via toolbox talks, structured training courses etc. There must also be arrangements to monitor personnel and ensure compliance with the SWMP
- Maintain arrangements for effective co-operation among workers in relation to SWMP and the effectiveness of such arrangements
- An up to date copy of the SWMP is kept on site and all contractors have access to it
- The SWMP is reviewed regularly to check its accuracy
- There is a facility to store a copy of the SWMP for 2 years after project completion.

Waste Estimation Details

When preparing a SWMP, principal contactors will need to estimate the quantities of waste they are likely to generate. Best estimations of quantities will be adequate to help identify the key waste streams and these may be obtained from several sources: an experienced demolition contractor will find that previous experience should give a reliable indication.

The key waste streams identified need to be classified into one of three categories (inert, non hazardous and hazardous) as a minimum, to enable suitable waste management planning and to determine whether notification needs to be made to the Environmental Agency of Hazardous Waste Producers on the site.

Information will include:

- An estimate of waste types and quantities likely to be produced during the project
- The intended waste management actions for each waste type covering reuse, recycling, recovery, disposal to landfill and other forms of disposal whether these are on or off site

• Subcontractors intending to take their own waste off site must be suitably registered and must also provide details of intended waste types, quantities and management actions together with any reasons for disposal to landfill or other form of disposal.

Any waste management company sub-contracted to take waste off site must provide the following information as a minimum:

- Certified copies of waste carrier licence and waste permit / exemption for anyone transporting, treating and disposing of waste taken off site through to the final treatment or disposal.
- Quantities of any waste taken off site.
- The waste management actions applied to each waste type taken off site and quantities / proportions of waste for each action according to reused, recycled, recovered, landfill or other disposal (detailed plans only).
- An explanation for any waste land filled or otherwise disposed of.

How To Classify Waste

Waste arisings will need to be classified as one of three categories which will contain different waste types depending on the project:

Inert Waste

These wastes will not harm the environment when disposed of, and do not decompose when buried. They have no potentially hazardous content once placed in landfill.

Examples include:

• Rocks, concrete, mortar, bricks, blocks and tiles, plaster (not boards), uncontaminated soils and aggregates, glass and non biodegradable plastics.

Non Hazardous Waste

These are wastes that will break down or decompose when buried in landfill. This results in the production of landfill gases such as methane and carbon dioxide.

Examples include:

• Timber, paper, cardboard, green wastes, food, metal and biodegradable plastics.

Hazardous Wastes

These are wastes that are harmful to human health or the environment. They may be liable to cause death, injury or impairment to living beings, pollution of waters or unacceptable environmental impact if improperly contained, handled, treated or disposed of.

Examples will include:

- Asbestos containing waste
- Contaminated soils
- Paints, solvents and adhesives
- Oily wastes
- Refrigerators and foams
- Wastes contaminated with various paints, solvent and oils
- Treated timber
- Waste electrical equipment with hazardous components
- Fluorescent tubes
- Batteries
- Concrete wash out water

Clean Materials Of Commercial Value

Demolition West Yorkshire Limited aim to maintain a maximum demolition recovery index of 95% (weight) where possible by managing and sorting uncontaminated, clean materials into types for reuse / reprocessing (recovered aggregates on site), metals for re-use smelting, timber for re-use or chipping. These categories of materials will be transported to the nearest available recycling establishment.

Clean Materials Of No Commercial Value

Uncontaminated clean materials, i.e. non-asbestos insulation will be placed in suitable containers which, when full, will be transported to and disposed of at a nominated licensed waste disposal site.

Hazardous Waste

Each demolition site where the hazardous waste is produced in excess of 200kg in total will be registered, prior to the commencement of the demolition work. Due to the nature of the demolition industry it may be necessary to register the contractors' main office as the "service premises" under the mobile service criteria especially where quantities produced from the site / premises are minimal / less than 200kg. Records of transfer notes will be kept for a minimum of three years, and the resulting waste will be transported to and disposed of at a nominated licensed waste disposal site.

Debris – Handling

The handling of debris will be kept to a minimum. Operatives will not handle debris that can be moved with a machine. When debris must be handled, the operative will be issued with the appropriate type of safety gloves and will be reminded of the hazards associated with handling broken glass, nails, etc.

Broken glass will be swept up immediately and placed in a suitable container.

Wood containing nails will be immediately loaded into wagons and removed from site; or stacked away from personnel with protruding nails pointing down.

Debris – Wind Blown

Debris will be cleared up as soon as possible. At no time will a vast amount be stockpiled awaiting removal, it will always be kept in a damp state and any materials that could easily blow away will be bagged up or loaded onto wagons for removal from site before it causes problems.

Wagons and skips will be sheeted when containing materials which could be windblown.

Debris – Falling

Operatives will not be allowed to work underneath or close to overhead work. At all times the area directly below any overhead work will be cordoned off with the necessary signage to warn and prevent entry.

SECTION 5 THE HEALTH AND SAFETY FILE

NU Construction's site manager will gather and compile any relevant information required for inclusion in the health and safety file, on an ongoing basis. The information will be compiled in an agreed format between the Client, CDM Co-ordinator / Principal Designer at the start of the project, as stated in the pre-tender plan for the demolition and final build of the project.

All contractors involved in the project will be advised by NU Construction as to the information required, and to supply the required information promptly.

The information will be made available in the form of a final condition statement detailing how the site was left and the locations of any remaining services locations /terminations. At the completion of the project the file will be handed over to the client at the appropriate time.

The contents of the H&S file may include some of the following:

- A brief description of the work
- Any residual hazards which remain and how they have been dealt with (for example, surveys or other information concerning asbestos, contaminated land, buried services, etc.)
- Key structural principles (for example bracing, sources of substantial stored energy, etc)
- The nature location and markings of any live services
- Any remaining voids, cellars, etc.

SECTION 6 SEQUENCE OF EVENTS

| To be checked off by supervisor / manager on site - order of operation to be agreed | | |
|---|---|--|
| | Ensure the site is secure | |
| | All relevant demolition signs are in place | |
| | Disconnect or identify existing services | |
| | Establish that adequate welfare facilities are provided | |
| | Soft strip operations including M&E, doors ,frames , ceilings and floor coverings | |
| | Removal of masonry walls | |
| | Removal of slab ground floor | |
| | Removal of existing staircases | |
| | Removal of stud partition walls | |
| | Removal of kitchens and sanitary ware | |
| | Removal of existing window | |
| | Ensure area is left in a safe state and addresses any housekeeping issues | |
| | | |
| | | |

SECTION 7 | METHOD STATEMENTS

Preliminary Works

NU Construction will carry out this work:

- Before any work commences all services must be physically isolated and written confirmation of the isolations received from the relevant authorities.
- Any remaining services in the works area to be clearly identified and protected before work commences
- Safe means of emergency access and egress for work areas provided and clearly identified
- Any underground and overhead services identified and protected before work starts
- Any asbestos containing materials to have been identified (refurbishment and demolition survey). All
 asbestos materials removed and a clearance certificate obtained.
- Copy of the refurbishment and demolition survey to be on site and available for the full extent of the demolition works.
- Locations of any underground voids or unstable ground identified and adequately protected.
- All appropriate information regarding the stability of the structure to be made available prior to work commencing.

| Step | Task, order to be agreed at the pre-stat meeting with NU | Procedure No |
|------|--|--------------|
| I | Soft strip/ removal of glazing / asbestos containing materials | I |
| 2 | Removal of stair tower | 2 |
| 3 | Removal of concrete slab | 3 |
| | | |

Standard PPE worn on this site:

Safety helmets Safety footwear High visibility vest / jacket Overalls or suitable clothing

Task specific PPE to be worn as necessary (dictated in both method procedures and risk assessments)

This method statement is a live document and may be subject to change during the course of the project, where unforeseen circumstances dictate and should be read as such. Any changes to this method statement will be addressed and the client informed.

| Procedure Number I Soft Strip Operations | | | | | |
|---|---|--|---|------|--|
| Personal Protective Equipment | | | | | |
| Gloves | Gloves Eye protection | | | | |
| Respira | atory Equipment | | | | |
| | | Access to V | Vork at Height | | |
| Steps | | | Tower Scaffold | | |
| | | Tools and | l Equipment | | |
| Iron Ba | ars | | Wheel Barrows / Bins / Trolleys | | |
| Hand t | ools- screw drivers, hammers, retractable | e knifes | Shovels | | |
| Descri A full s licence | ption of Work oft strip of fixtures and fittings will be carr ad asbestos containing materials.) | ried out within th | ne building. (As part of these works operatives will remove the | non- | |
| Step | Preparatory Work | Key Points | | ✓ | |
| 1.1 | No soft strip procedure will commence until the textured coatings, pipework flanges and the boiler heat exchanger gas kit is removed, a cut and wrap method will be adopted for the gas kit and flanges. | Working to the the correct dis textured coatin | e company procedure wearing the correct PPE and following posal measures for the removal and disposal of asbestos ngs. | | |
| 1.2 | Transit routes will be set up using the main access points to the holding area inside the building | Access to the b Transit routes | ouilding will be secured to prevent unauthorised access will be well lit and kept clear throughout the procedure | | |
| 1.3 | Materials will be stored and segregated into types where possible | Plasterboard will be kept separate from normal soft strip materials and disposed of at an appropriate licensed waste disposal site or sent to an appropriate recycling station | | | |
| 1.4 | Certain materials may require damping down to prevent excessive dust becoming airborne | Care must be taken not to leave work surfaces slippery through too much wetting | | | |
| 1.5 | Materials will be removed from the building using a chute system set up to over a skip on the existing carpark through which debris will be dropped off each floor. | Skips / holding areas will be made available and all debris and rubbish loaded into them immediately. Dust control in the form of a cover over the skip will be in place and wrapped round the delivery end of the chute. Removal of the textured coating when bagged up will be transported down the internal access routes to a 16 yard skip. After the cut and wrap operations the heat exchanger and pipe flanges will also be placed in the asbestos waste skip for disposal under special waste regulations. | | | |
| 1.6 | Removal of textured coatings / gas kit pipe flanges | Protect surfac 500-gauge poly All activity car tower scaffoldi Apply Xtex dii artex. Scrape artex. Clean the skir with wet rags. the waste cont Visually inspec Clearance air s Always follow manual handin; Use only suita licensed tip. E PPE. Do not si All waste inclu artex waste, Contractor on Gas Kit, Heat I Working unde procedure will contaminated transfer to the | es in the restricted area from contamination. Cover with /thene sheeting and fix with duct tape. h be undertaken from existing floors working off a mobile ing. rectly onto the artex. Allow substance time to work on the off coating. Periodically stop to clean up and bag up the tings with wet rags, clean all used equipment and the area Put debris, used rags, polythene sheeting and other waste in tainer. Tape the container closed. It the area to make sure that it has been cleaned properly. sampling is not required. all legal requirements, make sure other risks (work at height, g) are assessed and controlled. ble waste containers. Double-wrap waste. Take waste to a loo not take used overalls home. Do not re-use disposable moke. Do not eat or drink in the workplace. Iding rags and overalls will need to be disposed of with the consignment notes will be supplied to the Principal completion of works. Exchanger er a hot work permit supplied by NU a cut and wrap be adopted, the cuts to be made either side of the asbestos areas, manually lifted out and then wrapped ready for skin and away for disposal | | |

| | Soft Strip Procedure | Key Points | ✓ |
|-----|--|--|---|
| 2.1 | Miscellaneous easily removable items will be picked up and removed from the buildings. Where possible materials will always be dismantled in a reverse of their erection by removing fixings in a top down procedure | Care must be taken regarding any sharps left within the building. Access to height must be gained by designed equipment such as tower scaffolds erected by PASMA trained personnel | |
| 2.2 | There may be Guano present within the building or on the roof top areas | Bird waste (guano) will be cleaned up with Orni-kill and scraped up and placed into 100 gauge polythene bags and removed from site as specialist waste. PPE must be worn as the COSHH assessments and MSDS sheets state. Roof top plant will be dismantled by hand, reducing the equipment using hand tools and if necessary cold cutting methods. N U Construction will provide edge protection to roof areas where a 950mm is not already installed. Removed items will be stripped down and passed through the hatch to the floar below. | |
| 2.3 | Heavy objects will be removed in a controlled manner using a suitable number of operatives | Handling aids will be available for use A manual handling assessment will be made on any heavy or unwieldy objects or where access prevents the use of correct manual handling techniques. When removing large items of plant and genie lifts will be located below the item being removed to support and lower equipment to ground level where further reduction can be undertaken Ducting and high level M&E will be removed tower scaffolding. Ducting will be stripped of all lagging. Reduction of plant will be undertaken using reciprocating saws, cutting down the plant into manageable sections. Removed parts will be dropped into a designated drop zone from the tower. During regular breaks materials will be removed from the drop zone and sent down the chute to the site waste skips | |
| 2.4 | Timber materials such as doors, frames, skirting boards, will be released using iron bars | All materials must be removed and placed into skips as soon as possible- large quantities of waste must not be allowed to be stockpiled which could present a fire or access hazard | |
| 2.5 | Partition walls and other structures will be dismantled and removed from the structure | Ensure no other persons are working on the other side of partition walls during removal works. Partitions will be broken out using breakers hammers and nail bars. Operatives will use a mixture of podium steps and tower scaffolds to gain the required height. | |
| 2.6 | Removal of glazing | Whenever possible glass will be left intact - if the glass has been removed, operatives must take care to ensure no glass splinters remain. Any broken glass must be immediately cleaned up. Operatives involved in the removal of glazing will wear glass handling gloves with forearm protection. Where windows are being removed the full height of the wall (floor to ceiling) and there is the potential of a fall, once the window has been removed a rigid barrier will be installed across the opening to provide a rigid barrier during the removal. External access will be provided using a MEWP scissor lift. | |
| 2.7 | Electrical items will be removed using hand tools | Electrical supply will have been isolated back to the meter and certified as being dead by a competent person. Cabling will be cut in sections back to the metre, cabling will be wound up and tied as the removal progresses | |
| 2.8 | Sanitary fittings, boilers, water storage tanks etc, must all be drained prior to removal | Operatives to take additional care if fixings contain foul or stagnant water or sewerage | |
| 2.9 | Any known hazardous substances will be handled correctly | Any unknown substances will be reported to the supervisor immediately for further investigation. | |
| | Disposal of Waste | Key Points | 1 |
| 3.1 | All waste materials will be separated into types for recycling where possible | No burning of waste on site will be allowed. Clean timbers will be kept for recycling. | |
| 3.2 | Debris will be placed into wagons or skips for removal to an appropriate waste disposal site, or to an appropriate waste recycling centre | Wagons entering and leaving site will be assisted by a banksman to prevent any inconvenience to road users or pedestrians Skips and wagons will be sheeted prior to removal from site. | |

| Hazard | Controls | Controls In Place / Checked |
|-------------------|--|--------------------------------|
| Manual Handling | Operatives must not lift above 20kg | |
| Hand Tools | All hand tools must be in good condition and checked on a regular basis and recorded | |
| Live Services | All services must be terminated before work commences, certification must be provided by the client prior to commencing, and any live service must be clearly identified to all working on site. | |
| Slip Trip Falls | Operatives carrying out soft strip work must take care in respect of slip, trips and falls, work from a safe suitable platform and wear appropriate footwear with a good tread. Ensure a high level of housekeeping is maintained at all times | |
| Hygiene | No eating or drinking to take place within the office. Operatives will remove overalls after leaving the office and dispose of them properly. Operatives will make use of the washing facilities before eating, drinking, smoking or going to the toilet | |
| Working At Height | Tower scaffolds (if required) to be erected, dismantled and inspected by trained and competent PASMA operatives only, MEWP's will be operated by IPAF trained operators | |

| RAMS ACCEPTANCE SHEET Soft Strip Operations All operatives to sign this form after reading and understanding the method of works for this operation | | |
|--|-----------|--|
| Print name | Signature | |
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| Procedure Number 2 Stair Tower | | | | | | |
|-----------------------------------|---|---|--|---|--|--|
| | Tools and Equipment | | | | | |
| Oxy propane cutting equipment | | | Abrasive saw / hand tools | | | |
| Mobile elevated working platform | | | Barriers | | | |
| Descr | iption of Work | | | | | |
| Step | Preparatory Works Sequence | Key Points | | ✓ | | |
| 1.1 | Set up and removal | Prior to the demolition of the stair tower taking place, barriers preventing unauthorised access will need to be established on all floors at points of entry and at ground level creating a dropping zone. The barriers should be erected in accordance with the specifications set out in the work at height regulations with warning signage stating demolition works in progress. Due to the use of oxy-propane cutting techniques, areas for safe storage of oxygen and propane will need to be established. Prior to commencing all flammable materials within the close vicinity of the works will be removed, and a fire point will be established at the works location. All operatives undertaking the cutting will be trained in the operations they are to undertake and will ensure that the equipment and PPE being used is thoroughly examined prior to commencing. Initially the timber roof will be removed and dropped internally, operatives will work from inside the MEWP using a reciprocating saw to gain entry into the roof then the structure will be dropped internally, <u>at no point must any person stand on the roof</u>. Using hammers and bolsters operatives will then commence to knock down the brickwork internally course by course | | | | |
| | | | | | | |
| | | The internal now be suspe stair tower. reduce and st will be cut up and lowered masonry until stair flight. When reduce level, at this t machine to lo | stair structure will be exposed and accessible, operations will ended while all flammable materials are removed from inside the Oxy-Propane cutting techniques will be then undertaken to rrip out the metal frame supports, treads and riser - the sections o into small manageable sections then lifted out onto the MEWP to ground. The sequence will then revert to the removal of sufficient steel work is exposed to continue the removal of the ed to 2m height the operation will be undertaken at ground ime consideration will be given to introducing a small skid steer ad the arising into the skip and bring down the final section | | | |
| | Disposal of Waste | Key Points | o | ✓ | | |
| 2.1 | All waste materials will be separated into types for recycling where possible | No bonf Metal w Limited | ires are permitted on site. aste will be removed from site by Demolition West Yorkshire and recycled. | | | |
| 2.2 | Debris will be placed into wagons or skips for removal to an appropriate waste disposal site, or to an appropriate waste recycling centre | Wagons prevent Skips and | entering and leaving site will be assisted by a banksman to any inconvenience to road users or pedestrians. d wagons will be sheeted prior to removal from site. | | | |

| RAMS ACCEPTANCE SHEET Stair Tower All operatives to sign this form after reading and understanding the method of works for this operation | | | |
|--|-----------|--|--|
| Print name | Signature | | |
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| Procedure Number 3 Concrete Slab | | | | | | |
|-------------------------------------|---|--|---|--|--|--|
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| | 1 | | 1 | | | |
| Step | Preparatory Works Sequence | Key Points | ✓ | | | |
| 1. | | Method subject to a site meeting before method and risk can be created | | | | |
| | Disposal of Waste | Key Points | | | | |
| 2.1 | All waste materials will be separated into types for recycling where possible | Metal waste will be removed from site by Demolition West Yorkshire Limited and recycled. | | | | |
| 2.2 | Debris will be placed into wagons or skips for removal to an appropriate waste disposal site, or to an appropriate waste recycling centre | Wagons entering and leaving site will be assisted by a banksman to prevent any inconvenience to road users or pedestrians. Skips and wagons will be sheeted prior to removal from site. | | | | |
| | | • | | | | |
| | | • | | | | |
| 2.5 | | • | | | | |

| RAMS ACCEPTANCE SHEET Concrete Slab All operatives to sign this form after reading and understanding the method of works for this operation | | | |
|--|-----------|--|--|
| Print name | Signature | | |
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SECTION 8 SITE RISK ASSESSMENTS

| SITE RISK ASSESSMENT | |
|-------------------------|--|
| Workplace Location | Chancery House, Liverpool |
| Description Of Activity | Soft Strip, Demolition |
| Plant Equipment Used | Scaffolding, Hand Tools, Towers, Podiums |
| Personnel | Supervisor, Operatives (Plant, Demolition) |
| Subcontractors | |

| Identified Hazards | Yes | Pre Controls Risk | | rols | Risk Evaluation | With Controls | | rols |
|----------------------------|-----|-------------------|---|------|--------------------------------|---------------|---|------|
| | | Н | Μ | L | | Н | Μ | L |
| Access and Egress | ✓ | | ✓ | | Within Commercial Area | | | ✓ |
| Adverse Weather | ✓ | | ✓ | | Plant On Roof | | | ✓ |
| Dust Vapours and Fumes | ~ | ~ | | | Dust During Strip Out | | | ~ |
| Electricity | ✓ | ✓ | | | Multiple Supply Lines Possible | | ✓ | |
| Falling Objects | ✓ | ✓ | | | Site Operatives | | | ✓ |
| Fire | ✓ | | ✓ | | General Demolition Risk | | | ✓ |
| Gas | ✓ | | | | Present On Site | | | ✓ |
| Hazardous Substances | ✓ | | | ✓ | Petrol's, Oils | | | ✓ |
| Heights | ✓ | ✓ | | | Assessment Based Equipment | | | ✓ |
| Housekeeping | ✓ | | ✓ | | General Risk | | | ✓ |
| Hot Work | ✓ | | | | Cutting Operations | | | ✓ |
| Noise | ✓ | ✓ | | | Public / Site Operatives | | ✓ | |
| Neighbouring Properties | ~ | ~ | | | Neighbours In Close Proximity | | | ~ |
| Pedestrians | ✓ | | ✓ | | City Centre | | | ✓ |
| Site Traffic | ✓ | | ✓ | | Banksman On Site | | | ✓ |
| Trapping Injuries | ✓ | | ✓ | | General Demolition Risk | | | ✓ |
| Trespassers | ✓ | | ✓ | | Possible In This Location | | | ✓ |
| Services (Underground) | ~ | | | | Multiple Supply Lines Possible | | ~ | |
| Slips / Trips | ✓ | | | ✓ | General Demolition Risk | | | ✓ |
| Stored Energy | | | | | Non Known | | | |
| Vibration | ✓ | | | | Percussive Hand Tools | | | ✓ |

| Persons at Risk | | | |
|--------------------------------------|-----|--|--|
| Employees | Yes | | |
| Contractors | Yes | | |
| Authorised And Unauthorised Visitors | Yes | | |
| Neighbours | Yes | | |
| Members Of The Public | Yes | | |

Existing Control Measures

Trained competent personnel, H&S Policy / Safety Management System

Additional Control Measures

Heras Fencing And Signage

Emergency Plan

Method Statements

Risk Assessments

COSHH Assessments

Authorised Isolations

Banksmen

Demolition Method

Hand Demolition

Safe Working Platforms

Information Provided to Employees

Emergency Plan

Induction Training

Method Statement

Risk Assessment

COSHH Assessments

Assessed By Signed Date

The site risk assessment must be completed by the site supervisor, before any work commences.

SECTION 9 FIRE RISK ASSESSMENTS

Fire Risk Assessment

| Site Address | Chancery House, Liverpool | |
|--------------------|---------------------------|-----------------|
| Date | | |
| Assessor | | Site Supervisor |
| Assessor Signature | | |

| Significant Hazards | Control Actions Required | ✓ | | | |
|--|--|---|--|--|--|
| Flammable Materials | All flammable materials removed from site as soon as possible | | | | |
| Mains Gas Supply | N/A | | | | |
| Combustible Materials Left On Site | All combustible materials removed as soon as possible All materials stored in metal skips Materials or skips removed from site as soon as possible | | | | |
| Electrical Ignition Source | Electrical source disconnected and certified as dead Overhead cables identified and protected from contact CAT scanning to be undertaken | | | | |
| Plant & Equipment | Plant regularly maintained and inspected Dailey operator checks Plant immobilised at end of each shift | | | | |
| Hot Works | Hot works applicable to this site permit required | | | | |
| Arson | Secure perimeter fencing around the site to keep out unauthorised persons. Site security on site for normal working hours. | | | | |
| Overall risk, following implementation of controls - LOW | | | | | |

SECTION 10 WORKING AT HEIGHT ASSESSMENT

| Site Address | Chancery House, Liverpool | |
|---------------------|---------------------------|------------------|
| Date | | |
| Assessed by | | Site Supervisor* |
| Assessors Signature | | |

| Activities Involving Work At Height | Site Supervisor* |
|---|------------------|
| Fragile Surfaces | |
| Heights Involved | |
| Duration | |
| Persons At Risk | |
| Risk Level | |
| Is There An Existing Safe Platform | |
| Can An Existing Platform Be Made Safe | |
| Can Work Be Accessed From Scaffolding | |
| Can Work Be Accessed From Tower Scaffolding | |
| Can Work Be Accessed From A MEWP Or Machine | |
| Harness And Restraint Lanyard | |
| Edge Protection Put In Place | |
| Specialist Skills And Training Required | |
| Revised Risk Level | |

Comments

SECTION II TASK BASED RISK ASSESSMENT INDEX

| Reference No: | Title |
|---------------|------------------------------------|
| 026 | Non-Licensed Asbestos Removal |
| 01 | Asbestos – Contact With |
| 02 | СОЅНН |
| 03 | Environmental Impact |
| 04 | Dust |
| 05 | Brokk 160 Machine |
| 06 | Fire Hazards (Demolition) |
| 07 | Hand Demolition |
| 08 | Hand Tools |
| 09 | Live Services on Site |
| 10 | Oxy-Propane Cutting Equipment |
| 11 | Manual Handling |
| 12 | Needle Stick Injuries |
| 13 | General Noise |
| 14 | Slips, Trips and Falls |
| 15 | Soft Strip Activities of Buildings |
| 16 | Third Parties and General Public |
| 17 | Loading Wagons |
| 18 | PPE |
| 19 | Demolition Falling Materials |
| 20 | Mobile Tower Scaffolds |
| 21 | MEWPS (Cherry Pickers) |

SECTION 12 COSHH ASSESSMENT INDEX

The COSHH assessments listed below are for substances most likely to be found on demolition sites.

These assessments do not take into account any remaining substances used during the buildings previous activities.

Where there is a possibility of hazardous substances other than those listed below remaining, then where practicable prior to the commencement of the demolition activities, additional COSHH assessments must be carried out, these must be carried out with co-operation from the Client, the owner or those responsible for the previous activities of the premises to provide the details of any suspected hazardous substances.

| Deferrer | Suggested COSHH For This Project |
|-----------|---|
| Reference | (Site Supervisor To Review On Site And Amend) |
| A01 | Aggregates |
| SD01 | Silica Dust |
| DO01 | Diesel Oil |
| HO01 | Hydraulic Oil |
| TSO01 | Two Stroke Oil |
| PO08 | Propane |
| O02 | Oxygen |
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SECTION 13 SITE LOG SHEET

Site Log Sheet

Demolition West Yorkshire Limited

Site Location: Chancery House Liverpool

| Date | Company | Print Name | Signature | Time In | Time Out |
|------|---------|------------|-----------|---------|----------|
| | | | | | |
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SECTION 14 VIBRATION LOG SHEET

Vibration Log Sheet

Demolition West Yorkshire Limited

Site Location: Chancery House Liverpool

| Type Of Plant | Vibration Level Of Plant |
|---------------|--------------------------|
| | |
| | |
| | |

| Date | Name of Operator | Start Time | Finish Time |
|------|------------------|------------|-------------|
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SECTION 15 COMPANY SITE INDUCTION FORM

Demolition West Yorkshire Limited

Site Location: Chancery House Liverpool

Health & Safety at Work Act 1974 - General Duties of Employees

Under Section 7 - Employees must take reasonable care of their own health and safety and that of others who may be affected by their acts or omissions. They must also co-operate with their employer so far as is necessary to enable the employer to comply with his duties under the Act.

Under Section 8 - It is an offence for anyone to intentionally or recklessly interfere with or misuse anything provided in the interests of health safety or welfare.

These duties and responsibilities are outlined within the Health & Safety Law Poster located within the site office.

The following are a list of site rules which must be adhered to at all times. Please confirm your understanding by signing and dating the induction compliance sheet.

| SIT | E RULES |
|-----|---|
| ١. | NU Construction site rules must be adhered to at all times - a copy is available on site. |
| 2. | NU Construction Limited require all contractors working on their site to have undertaken their induction |
| 3. | Smoking is not permitted on this site in any location. |
| 4. | Spitting is not permitted anywhere on site. |
| 5. | Use of radios or ipods is not permitted on site. |
| 6. | Foul language will not be tolerated on site |
| 7. | Noise – any activity generating noise levels above 85dB (A) will be required to undertake noise assessments and suitable control measures, these may include such equipment as acoustic screens, a re-evaluation of the task being undertaken or working at specified periods during the normal shift patterns. |
| 8. | Security checks on site can be undertaken at any time – the client reserves the right to undertake a check of a vehicle when entering, present or leaving site. As part of the terms and conditions of this contract you must co-operate with this rule. |
| 9. | In the event of fire or explosion you must stop what you are doing, isolate any plant in use and go to the assembly area which will be pointed out to you at the time of this induction. If you are required to use the pedestrian accesses you must follow the designated routes. |
| 10. | The use of mobile phones is strictly controlled, you must not use a mobile phone whilst operating plant or undertaking any activity where you are likely to loose concentration. |
| 11. | Whilst on site make yourself aware of whom the supervisors are. There is a poster on the site notice board which displays this information and also a list useful and emergency contact numbers. |
| 12. | You must not operate any plant or equipment unless you have been trained to do so. Equipment provided must be in good mechanical order, guards must be fitted and in position, tools must be sharp and where applicable maintenance schedules and reports will be requested by the site manager. |
| 13. | If you are using ladders then ensure that they are tied to the structure wherever possible, it is best to tie ladders with a length of rope such as draw cord and not lengths of brick banding. The ropes should be tied around the styles and not the rung. If it is not possible to tie the ladder then you must ensure that there is a second person available to hold and foot the ladder. If a ladder is to be used then a work at height checklist must be completed |
| 14. | You must wear the appropriate protective equipment as dictated within your company's method statements and risk assessments |
| 15. | Never indulge in horseplay (messing around) or create or start any aggravated behaviour. If you have any problems with any work colleagues then discuss them with the site manager. If you are caught acting in a disorderly manner or in any way, which may cause harm to others, then you will be asked to leave the site or dismissed from the company. |
| 16. | All operatives working on site must ensure safety footwear is worn |
| 17. | The consumption of any alcohol or drugs is forbidden on site, if you are taking prescribed drugs for a medical condition you must advise the site manager. |
| 18. | A copy of the company safety policy will be available on site and you should take the time to read it. It is there for everyone and should you require reference then please use it. There are also both COSHH and Risk Assessments available for your reference. These have been produced for specific site activities and should be referred to. |
| 19. | All accidents must however minor be reported to the site manager and entered in to the accident book. |
| 20. | All subcontractors power tools and electrically driven equipment must have been tested within a period not exceeding 3 months before being brought on to site. |
| 21. | If you are a subcontractor then you should have provided Demolition West Yorkshire Limited with a method statement incorporating both COSHH and Risk Assessments under the Management of Health and Safety at Work Regulations and the CDM (Construction Design & Management) Regulations 2015, a copy of which will be passed on to NU Construction Ltd for their approval. If so there should be copies on site, please read through and sign the acknowledgement and receipt form. |
| 22. | All employees and subcontractors must ensure that any work or activity under their control must not affect the health, safety and welfare of others on or off the site. Subcontractors are responsible for the disposal of their own waste. Where required, copies of any Section 62 Waste Transfer Notes must be provided to the site manager. |
| 23. | The welfare facilities on site are provided by NU Construction Limited for your use; ensure that you keep them clean and tidy. It is essential that you adhered to NU Constructions Limited's' high standards of hygiene when using these facilities, (i.e. dirty clothing and footwear must not been worn when make use of these facilities). |
| 24. | If you have any problems relating to your work activity or you are unsure of any issues regarding health and safety, then ask the site manager or contact the safety officer. |

Induction Statement of Compliance

| Date | Company | Print Name | Signature |
|------|---------|------------|-----------|
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SECTION 16 RISK SHEETS

| NON LICENSED ASBESTOS REMOVAL | | | | | | | | |
|-------------------------------|--|-----------------|--|-----------------------|-------|------------------------|--|--|
| HAZARD CLASSIF | FICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors Reference Number: | | 01 | | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Bro | own | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | Augu | ust 2015 | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | Augu | ust 2016 | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | F | REVISED RISK RATING | | |
| GENERAL | Inhalation of Asbestos Dust / Fibres can cause respiratory illness such as Mesothelioma, Asbestosis and lung cancer. Most cement Asbestos sheets contain Chrysotile Asbestos, but some older sheets have been known to contain Amosite or Crocidoilite Asbestos. | н | Asbestos survey carried out by competent person and written copy. Removal and disposal carried out by UKATA category and NNLW Works to be carried out in accordance with method statement HSG 210- Asbestos essentials work sheet to be work to Restricted area where removal is taking place-signed and manned. Appropriate PPE/ RPE provided worn during the removal of cemer Operatives must have had a half mask face fit test prior to being a cement sheet Asbestos cement sheets to be kept wet during the removal to supp. Washing changing facilities provided Operatives to remove overalls and dust masks on completion of w Cement sheet waste to be disposed of using a registered carrier Waste containers must be sheeted Workers not to eat, drink or smoke in the working areas | 5 | L | | | |
| WORK WITH | Manual Handling/ MSD/ Strains | м | Organised team lifting where appropriate Mechanical lifting devices provided for use when necessary Access equipment not to be overloaded-SWL not exceeded | | | L | | |
| ASDESTUS | Working at Height, during removal of materials at height | н | Safe working platform provided for use when required Operatives to wear appropriate PPE for height work when necessary No personnel to work in area below the removal works Access equipment to be erected by trained competent personnel | | | L | | |
| | Dusts/ substances | м | Appropriate PPE and RPE provided/ worn during the removal of A Water suppression to be used Ensure high hygiene standards maintained Disposal of PPE after completion | sbestos cement sheets | | L | | |
| | Cuts/ Abrasions | м | Trained and competent persons aware of hazards Appropriate PPE to be worn during operations | | | L | | |

| CONTACT WITH ASBESTOS | | | | | | | | |
|---|---|--|--|--|------------|------------------------|--|--|
| HAZARD CLASS | IFICATION (Risk Rating) | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 02 | | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Br | own | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | Aug | ust 2015 | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | Aug | ust 2016 | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL TH | E RISK | | REVISED RISK RATING | | |
| | Inhalation of Asbestos Dust / Fibres | Where asbestos is known to exist a survey must take place before work commences to establish the type of asbestos and the nature, condition and extent of any potential exposure. If exposure is likely to exceed the "action level", access to the hazardous areas should be restricted. | | | L | | | |
| WORKwhich can cause asbestosis, lur cancer, Mesothelioma or other respiratory diseases.WHEREThis may occur carrying out wor on buildings built prior to 2000.IS OR MAYThis may occur carrying out wor on buildings built prior to 2000. | This may occur carrying out work on buildings built prior to 2000. | н | Removal and disposal of licensed asbestos materials must b contractor using trained and competent operatives trained to Asbestos Awareness. Removal and disposal of non licensed asbestos materials must be contractor whose operatives have been trained to UKATA Ca Awareness. Work must be carried out in accordance with a method stated | e carried out by a license UKATA Category C in ust be carried out by a ategory B in Asbestos ment in the "Plan of Work | ed | L | | |
| DE FRESENT | | | Workers who do not work primarily with asbestos but who ma contact with asbestos during their normal work activities mus Category A Asbestos Awareness. | ay occasionally come into t be trained to UKATA |) | L | | |
| | | | Areas should be designated as "asbestos areas" or "respirate clearly marked as such. Encapsulation of areas should be considered. | or zones" as appropriate | and | L | | |
| | | | If materials are discovered which may be suspicious of asbes The suspicious materials must be reported to the site manag investigations are carried out. | stos then work must ceas er who must ensure furth | se. Ier | L | | |

| СОЅНН | | | | | | | |
|---|---|-----------------|--|---|------------------------|--|--|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 03 | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL THE RISK | | REVISED RISK RATING | | |
| EXPOSURE TO HAZARDOUS SUBSTANCES IN THE WORKPLACE | Any liquid, gas, dust or solid that has the potential to be hazardous to health | Н | All substances must have an assessment carried out on them and communicated to those likely to be affected before they are used in This assessment will establish the potential harmful effects, how it may be affected, how it should be stored and what appropriate contaken. If an unknown substance is discovered, it must be brought to the a charge and a suitable assessment must be carried out before the sused or disposed of. The risk to personnel must be considered and exposure to any har be either eliminated or reduced to a safe level by introducing approx Where use of hazardous substances cannot be avoided, all possib taken to minimise exposure. All appropriate PPE must be used as required by the assessment. | must have an assessment carried out on them and the findings I to those likely to be affected before they are used in the workplace. ent will establish the potential harmful effects, how it should be handled, who ad, how it should be stored and what appropriate control measures are to be substance is discovered, it must be brought to the attention of the person in suitable assessment must be carried out before the substance is handled, sed of. sonnel must be considered and exposure to any harmful substances must nated or reduced to a safe level by introducing appropriate control measures. hazardous substances cannot be avoided, all possible precautions must be nise exposure. | | | |

| ENVIRONMENTAL IMPACT | | | | | | | | |
|----------------------------|--|--------------------|--|------------------------------|----|------------------------|--|--|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 04 | | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | AI | Brown | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | Au | gust 2015 | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | Au | gust 2016 | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | | REVISED RISK RATING | | |
| WORK | Air Dusts arising from activities affecting neighbours or public. Fumes created by plant and equipment affecting neighbours or public. Noise emitted during operations affecting neighbours or the public. Over pressure released during work activities causing adverse effects on neighbours or the public. | н | Damp suppression techniques employed to reduce levels of dust. Operations to cease when high winds prevail. All plant / equipment maintained and regularly inspected to ensure optimum performance. Fire prevention controls to be in place. Hot work activities to be kept to a minimum and carried out in well ventilated areas where possible. Plant and equipment to be selected with low noise emissions, well maintained and work restricted to normal day time hours. Where a likelihood of over pressure release exists, embankments shall be constructed to contain within site and protect neighbouring properties. Nets, hoardings and segregation controls to be in place for protection of the public. | | | L | | |
| ACTIVITIES IMPACTING | Land Solids spilled accidentally during operations. Liquids spilt accidentally during operations. | н | All substances on site to have a formal written COSHH assessme Substances handled and stored in line with specified controls and to prevent/minimise release. Existing plant, equipment and services to be isolated, disconnecte to any work commencing. | e | L | | | |
| SURROUNDING ENVIRONMENT | Water Solids spilled accidentally during operations. Liquids spilt accidentally during operations. | н | All substances on site to have a formal written COSHH assessment. Substances handled and stored in line with specified controls and spillage equipment available to prevent/minimise release. Existing plant, equipment and services to be isolated, disconnected and purged / cleaned prior to any work commencing. | | | L | | |
| | Waste Management and disposal of hazardous wastes. Recovery/recycling of redundant materials. | н | Hazardous waste will be removed from site and tracked to the waste management facility, in line with the relevant legislation / guidance. Where practical, materials will be sorted for re-use, recovery and recycling. | | | L | | |
| | Flora and Fauna Damage to trees, shrubbery during operations. | н | Identified areas of conservation and sensitivity will be afforded pro and plant operatives instructed to avoid these areas. | tection by fencing off areas | | L | | |

| DUST | | | | | | | |
|---|---|---|---|------------------|------|------------------------|--|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 05 | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Bi | own | |
| M - Medium | Action Required | Duration | Short | Assessment Date | Aug | ust 2015 | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | Aug | ust 2016 | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTRO | DL THE RISK | | REVISED RISK RATING | |
| | The principle hazards are adverse health effects to operatives and persons within the vicinity by inhalation, skin and eye irritation or as a general nuisance. | н | A task specific risk assessment including COSHH assessment shall be carried out prior to work commencing. Due note should be taken of the overall workplace exposure limits (WELs) for total dust which can be inhaled (10mg/m³); for respirable dust which includes cement (4mg/m³); and a more stringent maximum exposure level for respirable crystalline silica (0.1mg/m³) should this be involved. | | | L | |
| DUST ARISING FROM WORK ACTIVITIES | Note! The degree of risk varies from low to high dependent on the specific site situation and also the type of dust which may be generated, e.g. silica, cement, etc | ow • Every effort should be made to contain the dust within the immediate work area. • When practical, dust arising should be dampened down with water to suppress the dust to an acceptable level. • Operatives should be provided with adequate RPE (usually of the disposable type). Where tight fitting RPE is selected operatives must undergo a face fit test. • Eye protection should be worn when the conditions require it. • Operatives must be instructed to maintain good standards of hygiene. | | L | | | |

| BROKK 160 MACHINE | | | | | | | |
|-----------------------|---|-----------------|---|---|----|------------------------|--|
| HAZARD C | LASSIFICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 06 | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A | Brown | |
| M - Medium | Action Required | Duration | Short | Assessment Date | Au | gust 2014 | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | Au | gust 2015 | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CO | NTROL THE RISK | | REVISED RISK RATING | |
| | Collapse of Structure and Falling Objects Uncontrolled and/or unexpected collapse due to weakening. Material debris falling from the structure. | н | Exclusion zone / area with banksmen. Trained and competent operator with suitable qualification for the machine Site specific method statement to be followed. Structured method of work minimising risk. | | | L | |
| | Overturning Overturning of the machine due to holes, voids or unsuitable ground conditions. | н | Training and competent operating using safe working procedures. Machine maintained and regularly inspected. Identification of voids and unsafe ground conditions conspicuously marked and protected where necessary. Debris cleared on regular basis, voids or holes backfilled/protected. | | | L | |
| DEMOLITION USING A | Mechanical Failure Structural failure of plant or ancillary equipment | Μ | Machine maintained and regularly inspec Machine and ancillary equipment to comply with PUW | ted ER regulations. | | L | |
| BROKK 160 MACHINE | Electricity / Gas Contact with unidentified live unprotected services. | Μ | Services isolated and certified – suitable protection put in place if this is not possible. | | | L | |
| | Noise and Vibration Noise and vibration levels due to plant use. | М | PPE, ear defenders and eye protection Noise protection zone to be in place. | | | L | |
| | Impact Impact with property or personnel in the area of the work. | н | Exclusion zone /area with banksmen. Trained and competent operator using safe working procedure. | | | L | |
| | Hazardous Substance Contact with grease, fuel, oil, dust fumes and vapours associated with heavy plant. | м | Spill kits to be available on site if hydraulic leak Machine maintained and regularly inspect Dust suppression to be used at all times during dry weather or a SILICA DUST IS CARCINOGENIC. | develops. ed. as circumstances dictate. | | | |

| FIRE HAZARD (DEMOLITION AND DISMANTLING) | | | | | | | |
|--|---|-----------------|---|--|------------------------|--|--|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 07 | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL THE RISK | | REVISED RISK RATING | | |
| | | н | The company will ensure that each contract is specifically and potential fire hazards prior to any work commencing. | e that each contract is specifically and separately assessed for or to any work commencing. | | | |
| DEMOLITION | | н | Whenever possible, all flammable items will be removed at the any hot work commences. | e start of the job and before | È L | | |
| | | н | Employees will be informed of any areas or items posing a por on the precautions and control measures required. | tential hazard and instructe | ed L | | |
| OF | Fire can arise from numerous situations whilst carrying out demolition and dismantling work | м | Suitable and sufficient firefighting equipment, relative to the ty provided by the company and employees instructed in its use. | pe of hazard, will be | L | | |
| AND BUILDINGS | | м | Work methods will be adopted to prevent or reduce the risk of | fire. | L | | |
| | | М | When applicable, fire checks of the site will be carried out at th on completion of the task. | ne end of the working day o | or L | | |

| | | | HAND DEMOLITION | | |
|--------------------------|--|-----------------|---|----------------------|------------------------|
| HAZARD CLASSIFI | CATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 08 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL THE | RISK | REVISED RISK RATING |
| | Falls From working platforms or fragile surfaces. | н | Work at height risk assessment to be carried out. Safe working platform to be provided and fragile surfaces protected. Fall restraint/arrest equipment provided as last option. Rescue facilities and trained persons on site where necessary. | | L |
| | Falling Objects Fall of materials. | н | Where necessary debris netting to be erected to protect others and puror materials. Debris chutes used wherever possible. Fenced exclusion zone beneath the work area – standby man on duty | is L | |
| HAND DEMOLITION OF | Trapping / Impact / Puncture Hazards from hand operated tools and materials. | н | A competent demolition supervisor will oversee the work at all times. Only trained demolition operatives will undertake hand demolition. All tools and equipment will be kept in good order, any damaged or da will be repaired or replaced immediately. Operatives to wear all relevant PPE for the work to be carried out. Good housekeeping standards to be maintained. Access routes to be kept clear of debris. | L | |
| STRUCTURES AND | Cuts and Abrasions From handling sharp or abrasive materials. | М | Appropriate PPE (heavy duty gloves) to be provided and worn. | | L |
| BUILDINGS | Manual Handling Muscular / skeletal disorders from excessive lifting. | М | Operatives to bre suitably trained and competent. Manual handling assessments to be carried out for tasks. Mechanical handling aids to be made available where required. Organised team lifting to be adopted. | | L |
| | Noise and Vibration From use of hand tools. | М | Assessments carried out where necessary. Operatives to wear appropriate PPE Records of individual vibration exposure to be kept and ensure daily line Rotation of work where vibration levels dictate. Equipment to be regularly inspected and maintained. | nit is not exceeded. | L |
| | Dusts / Fumes / Vapours Generated during work activities and processes. | М | Operatives to wear appropriate RPE for specific task. Ensure adequate ventilation and LEV provided where natural ventilation Refer to appropriate COSHH assessments. | n is inadequate. | L |

| HAND TOOLS | | | | | | | |
|-----------------------|---|-----------------|--|---|------------------------|--|--|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 09 | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING | | |
| | Incorrect / Damaged Tools Using incorrect tools or damaged tools may cause injury to the operatives. | н | Management must make available the appropriate tools. Tools must be fit for purpose, in good condition and well maint Always select the correct type of tool for the job in hand. Screwnever be used as pry bars. Safe storage must be provided and used to prevent tools from | i L | | | |
| THE USE OF | Unsafe Use General cuts and bruises can occur when tools are not used for their correct purpose. | н | The correct type of tool for the job should be selected. Operative must check tools before and after use. Any tools not fit for purpose must be replaced. When using sharp knife, ensure blade retracts or fits into sheat | L | | | |
| HAND TOOLS FOR | Flying Debris Eye injuries can be caused by flying pieces of tool or materials. | н | Operatives must wear suitable and sufficient eye protection. Note! Light eye protection is not sufficient for many hand tools tasks. Tools should be inspected before use. Damaged tools should be removed from service and replaced or repaired, e.g. mushroomed heads on chisels should be removed by regular grinding. Knives and chisels must be kept sharp, blunt saw blades must be replaced or sharpened. | | L | | |
| WORK | Damaged Tools Hand and arm injuries. | м | | | . | | |
| | Poor Posture Musculoskeletal injuries may result from jarring caused by sudden failure of damaged or incorrect tools. | М | Use good manual handling techniques when using tools, never the torso which may result in musculoskeletal injuries. Always adopt a good posture when using tools. If kneeling use Ensure there is adequate lighting to carry out the tasks. | er twist or put pressure on e knee pads. | L | | |

| OXY-PROPANE CUTTING EQUIPMENT | | | | | | | | | |
|-------------------------------|---|-----------------|---|---|--|--|--|--|--|
| HAZARD CLASSIFICA | TION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 10 | | | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown | | | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 | | | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | | | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL THE RISK | | REVISED RISK RATING | | | | |
| | Careless handling of lighted blow pipe resulting in burns to user or others. | н | No one should use the equipment who has not been given adequate training in the safe use of taken, the use of fire extinguishers, the means of escape, the use of the fire alarm and calling the Wear protective clothing, gauntlets and eye protection. Ventilate spaces where vapours could accumulate, never undertake work in confined spaces. Turn off the blowpipe when not in use, never leave a lit blow pipe on, or on the floor – the force Keep hoses clear of sharp edges and abrasive surfaces or where vehicles can run over them. If they do not come into contact with the flame or exposed to splatter, heat or sparks. Work in a safe location away from others. Do not allow hot metal or spatter to fall on hoses. Handle cylinders carefully. Keep them in an upright position and fasten them to prevent them fr to a solid structure or if used inside a MEWP secured to the platform. Always turn the gas supply off at the cylinder when not in use. Maintain all equipment and keep in good condition. Regularly check all connections and equipment for faults and leaks. Store gas cylinders outside whenever possible or in a well-ventilated place. | the equipment, the precautions the fire brigade. of the flame may cause it to move Geep hoses clear when cutting to om falling or being knocked over | o be e. ensure L either | | | | |
| | Using blow pipe too close to combustible materials | н | Protect any combustible materials that cannot be moved from close contact with flame, heat, sparks or hot slag. Use suitable guards or covers such as metal sheeting, mineral fibre boards or fire retardant blanket. Remove all combustible materials to at least 10m away from the work. Ensure hot works cease at least 1 hour before the site shuts down, checks must be made prior to leaving site to ensure no smouldering materials are present. | | | | | | |
| USE OF | Cutting up equipment or plant which contains or may have contained flammable materials | н | Check for combustible materials hidden behind walls or partitions which could be ignited if prolonged cutting is to be undertaken, check that walls and partitions do not contain combustible materials. Use guards or covers to prevent hot particles passing through openings in floors and walls (doorways, windows). Maintain a continuous fire watch during the period of the work and for at least an hour after the work has ceased. Keep fire extinguishers nearby. | | | | | | |
| GAS CUTTING | Gas leaks from hoses, valves or other equipment | н | Never allow oil or grease to come into contact with oxygen valves or cylinder fittings. Check for leaks using leak testing equipment, such as washing up liquid. Inspect all gauges, isolation valves and hose connections before use, never undertake a tempo connections, always use the appropriate clamps. Never rub the cutting nozzle over a hard surface to clear blockages use tip cleaning tool. | orary repair, for example: wire on | hose L | | | | |
| | Fire – caused by creation of heat | н | Maintain a continuous fire watch during the period of the work and for at least an hour after the Lone working is not permitted when undertaking hot works of this nature. | work has ceased. | L | | | | |
| | Back fires and flashbacks | н | If a backfire does occur: a) Shut off the blowpipe valves, oxygen first and then the fuel gas; b) Shut off the oxygen and fuel gas cylinder valves; c) Cool the blowpipe with water, if necessary; d) Check the equipment for damage or faults, particularly the nozzle. The following precautions will help to prevent flashbacks: a) Use the correct lighting up procedure. Purge the hoses before lighting the blowpipe to remove any potentially explosive gas mixtures. Use a spark igniter and ignite the gas quickly after turn it on; b) Ensure the blowpipe is fitted with spring-loaded non-return valves to prevent a backflow of gas into the hoses; c) Use the correct gas pressures and nozzle size for the job. In particular, the propane pressure must not exceed 0.62 bar (9 psi); d) Maintain the equipment in good condition. e) These measures will reduce the risk of a flashback but will not completely eliminate it. Non-return valves will not stop a flashback once it has occurred. As the consequences of a flashback are potentially very serious, cylinders should be protected. If a flashback does occur: a) Immediately close the cylinder valves, both fuel gas and oxygen, if it is safe to do so. The flame should go out when the fuel gas is shut off. If the fire cannot be put out at once, evacuate the area and call the emergency fire services. b) The blowpipe, hoses, regulators, flashback arresters and other components may have been damaged. Check carefully and replace necessary before re-use. If in doubt, consult the supplier. | | si); L back gas is replace if | | | | |

| | | | LIVE SERVICES ON SITE | | |
|--|--|-----------------|---|--|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 11 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTRO | OL THE RISK | REVISED RISK RATING |
| PRESENCE OF LIVE SERVICES ON SITE WHICH AFFECT WORK COMPROMISING | Contact with live services, situated below the ground, above the ground or overhead by personnel, portable tools, mobile plant or vehicles. Hazards can comprise electric shock / electrocution, gassing, fire explosion, those associated with chemicals and results of damage. | н | When necessary, an in-depth survey will be carried out. Contact with service provider for advice, information and author. The relevant authorities will be involved, when applicable, toge client/occupier, in order to determine the precise location and the whenever practicable, physical isolation of services will be carried for the provision of on-site services will be clearly identified. | prisation. other with the type of service involved. ried out and those tified. | L |
| ELECTRICITY, GAS, WATER, | Contact with live underground electric cables and other services. | н | In all cases, those at risk will be informed and instructed accordingly when necessary. Excavation work local to services will be by hand digging. | | L |
| DRAINAGE, STEAM AND TELEPHONE SERVICES | Contact with live overhead electric cables and other services. | н | In relation to overhead services, the company will ensure all reclearance margins are observed and any statutory requirement appropriate authorities or service provider are complied with. All relevant aspects will be incorporated into the method stater contract. | equirements for ts stipulated by the nent prepared for the | L |

| MANUAL HANDLING | | | | | |
|---|---|-----------------|---|---|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 12 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING |
| MANUAL HANDLING CARRYING OUT WORKPLACE ACTIVITIES | Manual handling injuries can occur wherever people are at work. Lifting of objects that can involve difficult and heavy lifts which may well lead to a back injury. | М | Wherever possible avoid the need for manual handling. When manual handling cannot be avoided, ensure an adequa out and control measures introduced to reduce the risk to an a Always consider use of mechanical lifting equipment and appli manual handling for heavy, bulky and awkward loads. Reduce the risk of injury by ensuring all identified control measiminimise the likelihood of back injury or other strain injuries. Operatives must be trained in good manual handling technique. Do not reach with your back bent – if possible. Great care should be taken when lifting any object. If the lift is too heavy for one person – get assistance, e.g. teat Do not lift with your back bent or over reach, the correct postu essential. Remember – STOP – THINK – CONSIDER. | te risk assessment is carri acceptable level. iances in preference to sures are applied, in order es. m lift, two-man lift. re and technique is | ed to L |

| NEEDLESTICK INJURIES | | | | | | |
|---|--|-----------------|--|--|------------------------|--|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 13 | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown | |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING | |
| REMOVAL OF HYPODERMIC NEEDLES FROM SITE | Puncture Wounds Operatives skin being punctured by hypodermic needles that are present on site – possible infection (Hepatitis B & C, HIV, Tetanus) | H | Operatives must not handle needles – a grabber, tongs or shor remove contaminated materials, together with the wearing of oprotection. Where a high risk or incidence rate exists, awareness training provided prior to work commencing, to ensure operatives underessential safe working procedures required to prevent exposu Were needles are found in public areas (roads, footpaths, parl must be notified – they will make arrangements for safe remove container) – sharps bins to be disposed of properly as contamedebris. In the event of a needlestick injury: Encourage the puncture to bleed (do not suck the wound) Wash well under cold running water with soap and water a dressing Seek medical advice as soon as possible. | evel must always be used t disposable gloves and eye / toolbox talk must be erstand the dangers and re. ks, etc), the local authoritie val and proper disposal. osal (puncture proof inated waste. clearing any contaminated and cover with a dry ations. | s L | |

| | | | NOISE - GENERAL | | |
|---|---|-----------------|--|---|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 14 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING |
| NOISE | Noise Induced Hearing Loss Operatives are liable to be exposed to high levels of noise causing hearing damage both short and long term, e.g. working with or in proximity of vibrating equipment, generators, compressors, plant, machine or drilling operations. | н | Noise assessment of work carried out. Reduce noise at source – consider equipment noise levels as process. Where possible substitute noisy activity with a quieter alternat Ensure hearing protection provided and worn correctly when I Operatives trained and aware of the dangers. Rotation of work amongst operatives where practicable. | part of the procurement ive. evels dictate. | L |
| CREATED IN THE WORKPLACE Environmental Impact On Others Other persons in close proximity to the noise source. General public and residents affected by noise pollution created by the noise source. | | Н | Noise levels minimised by: Stopping rattles. Throttling down the engine while idling. Fitting isolated engine covers. Keep tools sharp to lessen any frictional noises. Do not drop items unnecessarily. The use of mufflers, shields, enclosures and barriers. Distance the noise activity from occupied premises. Where any person is liable to be exposed to noise levels great employer shall provide him with suitable ear protection. If the level is 85dB(A) or over it is mandatory for hearing prote Hearing protection must conform to BS EN 352. Operatives must receive training and instruction on wearing hearing protection. | ter than 80dB(A) his ction to be worn. earing protection. | L |

| SLIPS, TRIPS AND FALLS | | | | | | |
|-------------------------------|---|-----------------|---|---|-------------|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 15 | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | AE | Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | Au | gust 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL THE | RISK | | REVISED RISK RATING |
| ACCESSING THE WORK AREA | Slips, Trips and Falls Slippery floor conditions, uneven ground, tripping hazards and untidy work areas. | М | Ensure that all trailing electrical leads are kept tidy and routed awa All walkways shall be kept clear and be of suitable width to allow e Ensure safety footwear is in good condition with adequate tread, to Avoid walking on uneven ground or surfaces. Take extra care if the Be aware of weather, particularly winter conditions when working e Do not leave tools and equipment where they may create a trippine equipment and materials away when not in use. To prevent falls, ensure excessive amounts of debris or waste are areas where personnel may require access. Clear up any spillages immediately as these will become slippery and the correct signage whenever there is any floor cleaning. | ay from walkways. easy access and egress. o prevent slipping. is is necessary. outside. g hazard; store all tools, not allowed to build up in and dangerous. ng being undertaken. | | L |
| | Poor Lighting and Untidiness Leads to personnel slipping, tripping or falling. | м | Ensure all areas are adequately lit.Ensure that a good housekeeping policy is implemented and main | tained at all times. | | L |
| | Carrying Loads Most accidents in the workplace occur when staff are moving or carrying loads. | М | Always use handrails on stairways. Keep all stairways clear of tools, equipment, materials. Personnel must ensure they have a clear view of where they are v carrying loads. | valking at all times when | | L |

| SOFT STRIP OF BUILDINGS | | | | | |
|-----------------------------|--|-----------------|---|----------------------|------------------------|
| HAZARD CLASSIFI | CATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 16 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL THE | RISK | REVISED RISK RATING |
| | Impact / Abrasions - From or with objects / structures during removal. | м | Trained and competent demolition operatives. Appropriate PPE for task being carried out. Walk ways will be kept clear of debris and materials. Establish a designated route for movement of materials. | | L |
| | Puncture / Cuts / Projectiles - Operative being injured by items, i.e. glass, nails, sharp or protruding edges. | н | Trained and competent demolition operatives. Operatives will wear rigger gloves or Kevlar, where a risk of sharp edges is preser Operatives will wear safety footwear (steel toecaps / reinforced soles). Any protruding nails or other objects will hammered flat or removed. Safety goggles worn when using tools that could cause materials to fly off. All glass will be broken up and removed from the area as soon as practicable. | ıt. | L |
| | Hazardous Substances - Contact with substances during removal of internal fittings. | м | Trained and competent demolition operatives. Appropriate PPE for task being carried out. Specialist contractors employed where necessary. Operatives trained in dangers of hazardous wastes, Leptospirosis, needles, etc. | | L |
| GENERAL SOFT STRIP OF | Dusts / Fumes - Created during the removal of materials or fittings. | м | Appropriate PPE for task being carried out. Areas will be opened to natural ventilation. Dust suppression carried out when necessary. Mechanical LEV will be established where required. | | L |
| BUILDINGS | Noise Created during all procedures. | М | Noise minimisation to be considered when selecting tools. Appropriate PPE worn for task being carried out. | | L |
| | Vibration - Caused from vibratory machinery and equipment. | м | Low level vibration equipment to be used where possible. Personal records of exposure to HAVS maintained and daily limits not exceeded. Work rotation and regular rest breaks to be taken. Operatives to keep hands warm and dry. | | L |
| | MSD/Strains – Caused during Manual Handling tasks. | м | Trained and competent demolition operatives. Controlled team lifting where required and mechanical means of lifting made available. | able where required. | L |
| | Slips, Trips and Falls – Due to poor floor surfaces or housekeeping. | М | Materials will be removed from the work area/site as soon as is practical. Access routes will be clear and materials will be stored in designated area. | | L |
| | Falling Objects / Falls from Height – During removal of internal structures fittings and linings. | н | Trained and competent demolition operatives (work at height) Appropriate PPE for task being carried out. Materials will always be removed from the building into a controlled dropping zone Safe working platforms used for working at height, ladders for short duration work | only. | L |

| | | THIRD | PARTIES AND GENERAL PUBLIC | | |
|--|--|--|---|---|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 17 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING |
| HAZARDS TO THIRD PARTIES AND THE GENERAL PUBLIC FROM THE COMPANYS ACTIVITIES | Work activities can pose a variety of potential hazards and injury situations to third parties, including the general public. | H The degree and types of risks will vary from very low to high, dependent upon specific site circumstances | The Company will ensure that all their activities are assessed any hazards and the degree of risk to personnel, including the the company. Adequate information will be given to any third party that may company's activities. Ensure demarcation of work area, including prominent display company name and the work being carried out. Precautions and safeguards will be implemented for all forese third parties, including employees of the client / occupier, othe general public. When practical, physical measures will be taken to prevent un applicable hoarding fencing, barriers, bunting, fan / scaffold pr will be erected. Ensure containment of the site activities and include precaution falling debris and any dust arising. Visitors will be accompanied at all times. Drivers of company's vehicles will obey the Highway Code and attention to the general public, when operating outside the correct | to determine the nature of se not in the employment of be affected by the of suitable signs, stting the eable risks, to protect all r contractors and the authorised entry. Where otection, debris netting, etc ons to eliminate or confine d give due care and npany premises. | of E C |

| PERSONAL PROTECTIVE EQUIPMENT (PPE) | | | | | |
|-------------------------------------|--|--------------------|---|---|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 18 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING |
| WEARING CORRECT PERSONAL | Selection of incorrect or unsuitable PPE, e.g. too low attenuation hearing protection for the noise level exposed to not providing optimum protection e.g. for a stihl saw (110dB) the hearing protection required to be effective must have an SNR rating of at least 30. | Н | All personal protective equipment must conform to the CE standar PPE regulations. PPE shall be provided free of charge. The selection of PPE shall be risk based. PPE to be selected by a competent person. All operatives must be given appropriate instruction, information as protective equipment they are to wear or use. REMEMBER – Personal protective equipment is the last resort; all used to control risks at source if possible. | ds as laid down within the nd training in the personal other measures must be | L |
| | Wearing incompatible personal protective equipment. | н | The personal protective equipment must be compatible with other equipment worn by the employee, e.g. hearing protection should n helmets. | forms of personal protective ot interfere with safety | L |
| FOR THE TASK | Wearing personal protective equipment incorrectly thereby exposing the wearer to a hazard. | н | Personal protective equipment must be worn correctly at all times, manufacturer's instructions or as required by the site rules or as id assessment process. Example of non-compliance – not inserting examples of the site rules or as inserting examples of the site rules of the site rules | in accordance with entified through the risk ear plugs correctly. | L |
| | The wearing of damaged or incorrectly fitting personal protective equipment. | м | Employers must ensure that the appropriate personal protective enspecific risk assessment is made available for the workforce. Employees must wear and look after PPE issued to them. | quipment as required by task | L |

| | | DEM | OLITION – FALLING MATERIALS | | |
|--|---|-----------------|---|--|------------------------|
| HAZARD CLASSIF | ICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 19 |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONTROL | THE RISK | REVISED RISK RATING |
| MATERIALS FALLING FROM ABOVE DURING DEMOLITION OF | Falls of materials | н | A fully trained demolition supervisor will oversee the work at a Operatives will wear all relevant personal protective equipmen out. Good housekeeping. Work tidily at all times. All created debris will be removed from height as soon as is prof materials falling. Where necessary debris netting will be erected to protect othe public from flying debris or falls of materials. Regular inspections particularly scaffold and rigging. | II times. It for the work to be carried racticable to reduce the ris | k L |
| | Flying particles and debris | н | Operatives will wear all relevant personal protective equipmen out. Work should be organised to eliminate the need for operatives demolition activities. | t for the work to be carried | - L |

| | | N | OBILE TOWER SCAFFOLDS | MOBILE TOWER SCAFFOLDS | | | | |
|-------------------------------------|---|-----------------|---|---|------------------------|--|--|--|
| HAZARD C | LASSIFICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number | 20 | | | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | C Brown | | | |
| M - Medium | Action Required | Duration | Short | Assessment Date | August 2015 | | | |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | August 2016 | | | |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CONT | ROL THE RISK | REVISED RISK RATING | | | |
| | Falls of persons | м | Operatives must be trained in the erection and use of MTS, (Prefabricated acces association Ltd) PASMA certification Guard rails and toes board must be provided and must be in place befe Operatives must use the correct means of access on and off the MTS, the interna of the MTS. Never carry equipment when climbing the access ladders, if tools are not containe of raising tools to the working platform must be foun Inspect MTS daily and make a written record at least every s Consider MTS specification with regard to ground conditions, height restrictions, present. | es suppliers & manufacturer's ore the MST is used. I ladder fixed to the narrow sid ad in a tool belt alternate mear d. even days. and overhead hazards where | le Is L | | | |
| Erection and Use of Mobile Tower | Fall of materials | н | Guard rails and toes board must be provided and in the corree Edge protection must consist of a double guard rails system and a toe board No materials or persons can be left on the working platform when the MST is be pushed No materials, tools or persons should stay on the intermediate platforms when t protection must also be in position on the intermediate plat Where a part strip has to be undertaken before moving the tower the stripped equation the MTS, it should be lowered to ground. | L | | | | |
| Scaffolding | Overhead hazards. | м | Prior to erection of the MTS a visual inspection of the location must be undertaken, any hazards present must be recorded and a suitable risk assessment must be undertaken to ensure the work can continue in a safe manner. Where additional action is taken i.e. a new risk assessment has been undertaken all operations involved in the operation must be given a tool box talk with regard to the new risk assessment and what control measures are to be undertaken. | | e o L | | | |
| | Overturning. | М | MTS must be erected in accordance with the manufactures instructs for height to base ratio. MTS when used externally will have a different base height to maximum height ratio Where the MTS is supplied with outriggers these must be used, set in the correct position and locked down before use. The outriggers may be repositioned while the tower is been moved they must be repositioned again correctly before the MTS is used as a means of access. Where the MTS is secured with rigid ites, these must only be altered by a completed scaffolder. Wheel locks must be locked off at all times when the MTS is in use. Leg adjustment screws are only to be used to level up the MTS not to gain more height. | | L | | | |

| | | MOBILE EL | EVATING WORK PLATFORMS (MEWPS) | | | |
|--------------------------------|--|--------------------|--|--|----------|------------------------|
| HAZARD C | LASSIFICATION (Risk Rating | Persons at Risk | Demolition West Yorkshire Limited - Operatives, Visitors, Contractors | Reference Number: | 21 | |
| L - Low | Care / Vigilance Required | Frequency | Dependant on the tasks | Assessed By | A | Brown |
| M - Medium | Action Required | Duration | Short | Assessment Date | Au | gust 2015 |
| H - High | Immediate Action & Stringent Controls Required | Location | Chancery House, Liverpool | Review Date | Au | gust 2016 |
| TASK/JOB COMPONENT | HAZARD | RISK RATING | CONTROLS / PRECAUTIONS TO ELIMINATE OR CO | ONTROL THE RISK | | REVISED RISK RATING |
| | Collision with Other Plant, Vehicles, and Overhead Structures Uncontrolled and/or unexpected collapse due to weakening. Material debris falling from the structure. Contact with overhead cables | н | Exclusion zone barriered off and banksman in Trained and competent operator with suitable qualification for the Site specific method statement to be folk Structured method of work minimising Locate all overhead hazards in and around the working area, pro- and markers as necessary. | attendance. type of machine in use (IPA wed. risk. ovide barriers at ground leve | .F) ⊎ | L |
| USE OF MOBILE | Overturning Overturning of the plant due to an adverse loading or unsuitable ground conditions. | н | Training and competent operating, using safe working procedures. Ensure correct equipment is selected after consideration of working space (including slewing area for cherry pickers). Ensure ground conditions are suitable, ground consolidation needs to be considered. Machinery must be a safe distance away from excavations, inspection chambers and voids. | | | L |
| ELEVATING WORK PLATFORMS | MOBILE Mechanical or Hydraulic Failure ELEVATING Structural failure of a plant component due to an adverse loading. PLATFORMS Image: Component due to an adverse loading. | н | Machine to maintained and regularly inspected of LOLER conformity certificate to be available (thoroughly ins SWL not exceeded. Tools, materials and equipment should never be loaded a Distribute loads evenly. | every 7 days. pected every 6 months). bove toe board height. | | L |
| | Falls From Platform | м | Safety harnesses to worn when working at height in a cherry picker secured to anchor point. The safety harness must be on a restraint and fall arrest mode. Always enter and leave MEWP using steps and handholds. Operatives must lower the platform to ground before exiting the platform. The drive must be isolated and keys removed. | | | L |
| | Hazardous Substance Contact with grease, fuel, oil, dust fumes and vapours associated with heavy plant. | м | COSHH assessments available when hazardous products Dust suppression to be used at all times during dry weather o SILICA DUST IS CARCINOGENIC | are known to be used. r as circumstances dictate. | | L |

SECTION 17 COSHH SHEETS



Ref: A001

Natural Aggregates

| Supplier: | Various suppliers |
|----------------|---|
| Composition: | Crushed rock, sand and gravel aggregates. |
| Specification: | Aggregates are taken from site or stockpiled on site for recycling or re use. |

HAZARDS TO HEALTH:

DEMOLITION WEST YORKSHIRE LTD

Natural aggregates are not classified as hazardous. If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard. Dusts containing respirable crystalline silica (quartz) present a greater hazard.

Limestone aggregates may react with acid groundwater to release carbon dioxide gas which may build up in confined spaces to hazardous concentrations.

| FIRST AID | MEASURES: |
|-------------|---|
| Ingestion: | Remove to fresh air and give water to drink. Seek medical advice. |
| Skin: | Wash with water, prolonged contact may cause irritation. |
| Eyes: | Immediately and thoroughly irrigate with water. The material is abrasive and may scratch the surface of the eye. If pain persists seek medical attention. |
| Inhalation: | Immediately remove to fresh air. If breathing is stopped or irregular, apply artificial respiration and seek medical attention. |

HANDLING AND STORAGE:

The product should be handled to minimise the creation of airborne dust. No special storage requirements.

ACCIDENTAL RELEASE MEASURES:

Avoid breathing in dust. Entry into watercourses should be avoided. Spray with water to prevent airborne dust and avoid dry sweeping which creates dust.

PERSONAL PROTECTIVE EQUIPMENT

| Respiratory: | Suitable dust masks to PP3 standard should be worn in enclosed spaces where the handling or further crushing of dry aggregates is taking place and where adequate ventilation is not provided. |
|--------------|--|
| Skin: | Wear protective overalls and gloves. |
| Eyes: | Goggles may be required. |

DISPOSAL:

When used and disposed of as intended, no adverse environmental effects are foreseen. Aggregates are naturally occurring minerals; they are non volatile and will sink in water and form a solid layer on the surface of the ground. Disposal is non applicable – no excess quantities are expected.

| Signed by Assessor: | Date: | Review Date: |
|---------------------|-------------|--------------|
| A Brown | August 2015 | August 2016 |



COSHH ASSESSMENT SHEET

Diesel Oil 15W/40

| Supplier: | Various | | | | | | | | | |
|--------------|------------------------|----------|------------|--------|---------|---------|------|-----------|------------|-----|
| Composition: | An amber additives. | · liquid | containing | highly | refined | mineral | oil, | synthetic | lubricants | and |
| e .e | | 1 • 1 | · . | 10 | | | | | | 1 |

Specification: Used in vehicle engines and self propelled plant

HAZARDS TO HEALTH:

- 1. Prolonged skin contact may cause skin irritation which could possibly lead to dermatitis.
- 2. Splashes in the eyes may cause irritation.
- 3. Inhalation of oil mists may cause respiratory irritation.
- 4. Ingestion may cause nausea, vomiting and diarrhoea.

FIRST AID MEASURES:

| Ingestion: | Obtain medical attention. DO NOT induct vomiting. | | | |
|-------------|--|--|--|--|
| Skin: | Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. | | | |
| Inhalation: | Remove from exposure. | | | |
| Eyes: | Irrigate immediately with copious quantities of water for several minutes. | | | |

HANDLING AND STORAGE:

To avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. It is essential to maintain a high standard of personal hygiene. Avoid temperatures above 120°C and oxidising agents.

ASSESSMENT OF RISKS:

Small risk to health from prolonged skin contact. Product is not used in situations likely to generate oil mists.

CONTROL MEASURES:

Avoid skin and eye contact. Wear impervious gloves (e.g. of PVC to EN374) in case of repeated or prolonged contact. Change contaminated clothing and clean before re-use.

SPILLAGE / DISPOSAL:

Absorb any spillage with suitable absorbent granules and dispose of through an authorised waste contractor to a licensed site. Classified as special waste. May be incinerated. Do not allow to enter watercourses.

| Risk Phrases / Safety Phrases | | | | | | |
|-------------------------------|--|----------------------|-----------------------------|--|--|--|
| S46 | If swallowed, seek medical advice immediately and show container or label. | | | | | |
| S 2 | Keep out of the reach of children. | | | | | |
| R36/38 | Irritating to eyes and skin. | | | | | |
| | | | | | | |
| | | | | | | |
| Signed by Asses | A Brown | Date: August 2015 | Review Date: August 2016 | | | |



COSHH ASSESSMENT

Hydraulic Oil 32

| Supplier: | Various |
|----------------|--|
| Composition: | A clear brown fluid with a characteristic odour, insoluble in water. A blend of highly refined mineral oils with a packaged additive system containing anti-wear, corrosion and oxidation inhibitors and viscosity improver. |
| Specification: | Used in hydraulic lifts. |

HAZARDS TO HEALTH:

Product not classified as hazardous under current UK legislation when used in the application for which it is intended, however prolonged or extensive skin contact with the product may result in skin disorders. The risk of skin disorders may be increased if the product has become contaminated. May cause transient irritation in the eyes, unlikely to cause harm on brief or occasional contact, low volatility makes inhalation unlikely at ambient temperatures. May cause nausea, vomiting and diarrhoea if ingested. Products which have become contaminated in use or from external sources may present more serious health effects. The product is not classified as flammable but is inherently combustible. Use foam, dry powder, CO_2 in the event of combustion.

FIRST AID MEASURES:

| Ingestion: | Do not induct vomiting. Wash mouth out with water. Obtain immediate medical attention showing the MSDS sheet. |
|-------------|---|
| Skin: | Wash thoroughly with soap and water. |
| Inhalation: | Remove to fresh air. If effects persist seek medical attention. |
| Eyes: | Irrigate immediately with copious quantities of water. If irritation persists seek medical attention. |

HANDLING AND STORAGE:

Keep containers tightly closed. Avoid sources of ignition; avoid direct high temperature heat sources. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. If drums to be stored outside ingress of water should be avoided, e.g. by placing containers on their side.

ASSESSMENT OF RISKS:

Local exhaust ventilation is recommended if excessive misting occurs.

CONTROL MEASURES:

Avoid skin and eye contact. Wear impervious gloves (e.g. PVC) in case of repeated or prolonged contact. Change contaminated clothing and thoroughly clean before re-use.

SPILLAGE / DISPOSAL:

Leaching and penetration of mineral oils through surface soils is generally regarded as resulting in long term persistence. Fresh or used mineral oils may be harmful to aquatic life. Prevent entry into drains, sewers and water courses. Split oil also presents a significant slip hazard. Avoid exposure of the product to sources of ignition. Place used and contaminated material in suitable containers. Dispose of as controlled waste in accordance with the Environmental Protection Act.

| | Risk Phrases / S | Safety Phrases | | | | | |
|---|--|----------------|--|--|--|--|--|
| S46 | If swallowed, seek medical advice immediately and show container or label. | | | | | | |
| S 2 | Keep out of the reach of children. | | | | | | |
| R36/38 | Irritating to eyes and skin. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Signed by Assessor: A Brown Date: Review Date: August 2015 August 2016 | | | | | | | |


COSHH RISK ASSESSMENT

Silica Dust

| Supplier: | Various material suppliers. |
|----------------|---|
| Composition: | A white or colourless vitreous insoluble solid. Various forms occur in the earths crust as quartz, cristobalite or trydymite. Composites contain up to 90% crystalline silica, occurs when cutting a wide range materials used in the construction industry, i.e, concrete, building blocks/bricks, marble, etc. |
| Specification: | Contained within the materials used in the construction industry. |

HAZARDS TO HEALTH:

Construction work can produce airborne respirable crystalline silica (RCS), this can lead to silicosis. Breathing in silica can cause scarring of the lung tissues causing breathing difficulties and can lead to a serious lung disease causing permanent disability and early death. Silicosis is made worse by smoking.

HEALTH SURVEILLANCE:

Where workers are regularly exposed to respirable crystalline silica, levels greater than 0.1mg/m^3 . 8 hour TWA, then health surveillance which includes a respiratory questionnaire, lung function test and chest x-rays must be provided.

| FIRST AID: | | | |
|-----------------------------|--|---|--|
| Ingestion: | Rinse mouth with copious amounts o | f water, do not swallow. | |
| Skin: | Immediately wash with copious amo protected with suitable dressings to p | ounts of clean water. En prevent dust penetration. | sure that any wounds are |
| Eyes: | Irrigate immediately with copious amo medical advice. | ounts of clean water. If irri | itation persists seek |
| PERSONAL | PROTECTIVE EQUIPMENT | | |
| Respiratory: | Respiratory protection equipment mi of at least 20. Use FFP3 half mask val shaven and have undertaken a face fit | ust be worn with an assign ved EN149. Operatives w test within the previous 1 | ned protection factor (APF) earing masks must be clean 2 months. |
| Skin: | Contaminated wet suits should be v device. If the workwear is covered in remove dust. | vashed down using a hos n dry dust, compressed air | e sprinkler or other water r lines must not be used to |
| Eyes: | Eye protection must be worn at all tir | mes to EN166B standards. | |
| DISPOSAL: Dispose of unw | vanted materials in accordance with loca | I authority current require | ements / regulations. |
| | Risk Phrases / S | Safety Phrases | |
| R48/20 | Harmful: Danger of serious damage to | o health by prolonged exp | osure through inhalation |
| S20/21 | When using do not eat, drink or smo | ke. | |
| S 22 | Do not breathe dust. | | |
| S24/25 | Avoid contact with skin and eyes. | | |
| | | | 1 |
| Signed by Ass | essor: | Date: | Review Date: |



COSHH ASSESSMENT SHEET

Two Stroke Oil

| Supplier: | Various |
|----------------|--|
| Composition: | A brown/red viscous liquid manufactured from high boiling fractions of petroleum and containing additives necessary for chemical and physical properties required. |
| Specification: | Used in vehicle engines and self propelled plant |

HAZARDS TO HEALTH:

- 5. Prolonged skin contact may cause skin irritation which could possibly lead to dermatitis.
- 6. Splashes in the eyes may cause irritation.
- 7. Inhalation of oil mists may cause respiratory irritation.
- 8. Not expected to be a problem, however if greater than half a litre is ingested seek medical attention. DO NOT induct vomiting.

FIRST AID MEASURES:

| Ingestion: | Not expected to be a problem, however if greater than half a litre is ingested seek medical attention. DO NOT induct vomiting. |
|------------|--|
| | |

Skin: Wash contact areas with soap and water.

| Inhalation: | Remove from further exposure. If respiratory irritation, dizziness, nausea or |
|-------------|---|
| | unconsciousness occurs seek medical assistance and call an ambulance. |

Eyes: Flush thoroughly with water. If irritation occurs, seek medical attention.

HANDLING AND STORAGE:

Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible materials. No special precautions are necessary beyond normal good hygiene practices.

ASSESSMENT OF RISKS:

Small risk to health from prolonged skin contact. Product is not used in situations likely to generate oil mists.

CONTROL MEASURES:

Wear overalls and impervious gloves if prolonged skin contact is likely. Utilise barrier creams and moisturising creams and maintain good personal hygiene practices. Use with adequate ventilation.

SPILLAGE / DISPOSAL:

Absorb any spillage with suitable absorbent granules and dispose of through an authorised waste contractor to a licensed site. Do not empty into drains or allow entry into watercourses.

| | RISK PHRASES / S | AFETY PHRASES | |
|----------------|--------------------------------------|-------------------------|-----------------------------|
| S46 | If swallowed, seek medical advice in | nmediately and show cor | itainer or label. |
| S 2 | Keep out of the reach of children. | | |
| R36/38 | Irritating to eyes and skin. | | |
| | | | |
| | | | |
| Signed by Asse | A Brown | Date: August 2015 | Review Date: August 2016 |



Unleaded Petrol

| Composition: | Unleaded petrol is a preparation manufactured from gasoline which is a complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons. Unleaded petrol can contain the following constituents which have health effects and are present at significant concentrations, 98% gasoline, 5% ethanol, 10% propan-2-ol and 3% methanol. Ethers and alcohols may be present at low concentrations. |
|----------------|--|
| Specification: | Used for self propelled abrasive cut off wheels. |

HAZARDS TO HEALTH:

Highly flammable, may cause lung damage if swallowed, skin irritant and vapours may cause drowsiness and dizziness. Can explode in the presence of electrostatic charges or by other sources of ignition or flame. Accidental ingestion can lead to chemical burning of the mouth, vomiting and aspiration into the lungs which can result in chemical pneumonitis, which could be fatal. Prolonged and repeated skin contact can lead to defatting of the skin, drying, cracking and dermatitis. It is not biodegradable and can be persistent. Can be slightly toxic to aquatic live.

FIRST AID MEASURES:

| - | |
|-------------|--|
| Inhalation: | Remove the affected person to fresh air. If breathing has stopped administer artificial respiration. If the person is breathing but unconscious place in the recovery position. Obtain medical assistance immediately. |
| Skin: | Flush the contaminated skin with water. Use soap if available. Contaminated clothing should be soaked with water, removed and laundered before reuse. |
| Eyes: | Flush the eye with copious quantities of water. If irritation persists refer for medical attention. |
| Ingestion: | DO NOT INDUCE VOMITTING. If ingestion is suspected, wash out the mouth with water and send to hospital |

HANDLING AND STORAGE:

During refuelling extreme care must be taken to avoid any sources of ignition from igniting the vapour.

ACCIDENTAL RELEASE MEASURES:

Remove all possible sources of ignition in the surrounding area. Do not breathe fumes or vapour. For small spillages absorb liquid with sand, earth or other recommended absorbent material as soon as possible. Sweep up and remove to suitable clearly marked container for disposal. Do not disperse using water or detergent, do not allow groundwater contamination. Small amounts released on land will evaporate.

FIRE:

This product is highly flammable, combustion can give rise to a complex mixture of airborne solid and liquid particulates (smoke) and gases including carbon monoxide. Extinguish with foam, fine water spray and dry chemical powder. Carbon dioxide, sand or earth can be used on small fires only. Keep any storage container cool by spraying with water from a safe location.

PERSONAL PROTECTIVE EQUIPMENT

Impervious gloves and overalls where regular contact is likely. Wear goggles if there is a risk of splashing. Respiration protective equipment to BSEN137 if required.

DISPOSAL:

Dispose of waste arising from a spillage in accordance with the current regulations.

Risk Phrases / Safety Phrases

| R12 | Extremely flammable | | |
|-------------|---|---|-----------------------------|
| R45 / R65 | May cause cancer / Harmful: may cause lung da | mage if swallowed | |
| R38 | Irritating to skin | | |
| R67 | Vapours may cause drowsiness and dizziness | | |
| R51/53 | Toxic to aquatic organisms, may cause long-ter | m adverse effects in the aquatic environm | ent |
| S 2 | Keep out of the reach of children | | |
| S23 / S24 | Do not breathe vapour / Avoid contact with sk | in | |
| S29 /S61 | Do not empty into drains / Avoid release to the | e environment | |
| S43 | In case of fire use foam/dry powder/carbon dio | xide – NEVER USE WATER | |
| S45 | In case of accident or if you feel unwell, seek m | edical advice immediately and show conta | iner or label |
| S62 | If swallowed, do not induce vomiting – seek me | dical advice immediately | |
| Signed by A | A Brown | Date: August 2015 | Review Date: August 2016 |



COSHH RISK ASSESSMENT

Oxygen O₂

| Supplier: | BOC – Priestley Road, Worsley, Manchester M28 2UT – Telephone: 0800 111 333 |
|----------------|---|
| Composition: | A compressed odourless and colourless gas which contains no other components or impurities. |
| Specification: | Used as a mixture with propane / acetylene for cutting operations. |

HAZARDS TO HEALTH:

Do not smoke when handling product, avoid oxygen rich atmospheres by increasing the levels of oxygen in the area, oxygen enriched levels above 21% are highly combustible. Ensure adequate ventilation. When handled correctly no hazards to health. Ensure operators understand the hazard of oxygen enrichment.

| FIRST AID MEA | ASURES: |
|---------------|--|
| Inhalation: | Not hazardous, unless in significant amounts. |
| Ingestion: | Ingestion is not considered a potential route of exposure. |

HANDLING AND STORAGE:

Use no oil or grease. Open valve slowly to avoid pressure shock. Segregate from flammable gases and other flammable materials in store. Suck back of water into the container must be prevented. Do not allow back feed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Keep away from ignition sources (including static discharges). Refer to supplier's container handling instructions. Keep container below 50°C in a well ventilated place. May react violently with combustible materials and reducing agents, violently oxidises organic material.

ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources. **Environmental Precautions:** Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.

Clean Up Methods: Ventilate area.

PERSONAL PROTECTIVE EQUIPMENT

Wear suitable hand, body and head protection. Wear goggles.

DISPOSAL:

Discharge to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return empty cylinders to your supplier.

|--|

| R 8 | Contact with combustible material may cause fire. | | | |
|--------------------------------|---|----------------------|-----------------------------|--|
| S 9 | Keep container in well ventilated place. | | | |
| SI7 | Keep away from combustible material. | | | |
| Signed by Assessor: A Brown | | Date: August 2015 | Review Date: August 2016 | |



COSHH RISK ASSESSMENT

Propane – C₃H₈

| Supplier: | BOC – Priestley Road, Worsley, Manchester M28 2UT – Telephone: 0800 111 333 |
|----------------|---|
| Composition: | A colourless gas with a sweetish odour. |
| Specification: | Used as a mixture with oxygen for cutting processes. |

HAZARDS TO HEALTH:

Extremely flammable liquefied gas. In high concentrations may cause asphyxiation. Provide adequate ventilation to maintain concentrations below exposure limits and to avoid asphyxiation. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Pressure drop through valves and piping may cause extreme cold and frostbite on contact. Can form explosive mixture with air, may react violently with oxidants. Gas/vapour heavier than air, may accumulate in confined spaces particularly at or below ground level. Ensure adequate ventilation and do not smoke while handling product.

| FIRST AID MEASURES: | | |
|---------------------|--|--|
| Inhalation: | In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing has stopped. | |
| Skin: | In case of frostbite, spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. | |
| Eyes: | In case of frostbite, immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical assistance. | |
| Ingestion: | Ingestion is not considered a potential route of exposure. | |

HANDLING AND STORAGE:

Ensure cylinders are transported in an upright position. Ensure equipment is adequately earthed. Close cylinder valve when not in use to prevent contamination of the cylinder. Purge air from system before introducing gas. Do not allow back feed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Keep away from heat and ignition sources (including static discharges). Segregate from oxidant gases and other oxidants in store. Refer to supplier's container handling instructions. Keep container below 50°C in a well ventilated place.

ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Eliminate ignition sources. Post warning notices (including no smoking).

Environmental Precautions: Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.

Clean Up Methods: Ventilate area.

| PERSONAL PROTECTIVE EQUIPMENT | | | | |
|-------------------------------|--|--|--|--|
| Respiratory: | In case of leakage use self-contained breathing apparatus. | | | |
| Skin: | Protective gloves to prevent contact with cold equipment. | | | |
| Eyes / Face: | Suitable safety glasses. | | | |
| Footwear: | Safety shoes. | | | |

DISPOSAL:

Avoid discharge to atmosphere. Do not discharge into area where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. Do not discharge into any place where its accumulation could be dangerous. Empty cylinders still contain flammable vapour. Return empty cylinders promptly to your supplier.

| RISK PHRASES / SAFETY PHRASES | | | | | |
|--------------------------------|---|----------------------|-----------------------------|--|--|
| R12 | Extremely flammable. | | | | |
| S9 | Keep container in well ventilated place. | | | | |
| S16 | Keep away from ignition sources – No Smoking. | | | | |
| Signed by Assessor: A Brown | | Date: August 2015 | Review Date: August 2016 | | |