

Demolition Risk Assessment

Spence Ltd

Asbestos removal, soft strip and demolition of 15 Gordon Close, Sandown. Isle of Wright PO36 9AD Client Ref

Project title

15 Gordon Close Sandown,

Rhodar Ref No.EDE002314-002 (Temporary Doc
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Document Preparation and approval status

	Name	Position	Signature	Date
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Revision Record

Version Number	Date	Amendments	Prepared by:

This Risk Assessment is to be read in conjunction with the following related Project Specific Documents which forms part of the overall Rhodar Documentation for the undertaking of these works.

Please make sure you have read the documents detailed below and signed and acknowledged each document.

Project Documents	Document No.	Revision No.
Site Specific Method Statement	EDE002314-001	
	ABP Asbestos consultants	
Asbestos Survey	ABP/14835/P-	
	24044/08/23/SAN007AA	

Likelihood of Occurrence (Rating A)	Severity of Hazard (Rating B)
Low (1)May occur in time. However, hazard exists infrequently, or hazardous event occurs very infrequently. Low expectation of occurrence.Medium (2)Likely to occur in time. Hazard exists intermittently or hazardous event occurs occasionally. It may be useful to define by exclusion, {i.e. clearly not' High' or 'Low' may be the most practical approach}.High (3)Likely to occur imminently or in the very short term. Hazard exists permanently or hazardous event occurs frequently, or much evidence of previous harm.	Low (1)Hazard resulting in minor injury requiring first aid treatment only. Minor consequential loss potential to both individual and organisation. Hazard capable of resulting in personal injury/illness requiring brief absence from work. Medical attention required. But Again, defining by exclusion, i.e. it simply isn't obviously 'High' or 'Low'.High (3)Hazard capable of resulting in death, severe injury or illness. Major consequential loss potential to the individual and organisation.
Residual Risk Rating (Risk Prior C) Likelihood of Occurrence (Rating A) x Severity of Hazard (Righ = 7 to 9 High = 4 to 6 Low = 1 to 3	ating B) = Risk Prior C

CDM	- Working as a subcontractor				 Whilst working under a principal contractor then the principal contractors procedures/ risk assessments still apply Whilst working under a site controlled by others then the owners/ contractors procedures/ risk assessments still apply 				All persons on site
Discarded needles and other drug paraphernalia	 Sharp - Injuries (contaminated needles) Diseases including: Hepatitis, HIV AIDS Radiation Sources Toxins 	3	3	9	 If drug paraphernalia is known to be present on site, engage specialist sub-contractors to clean/ sweep all areas. All Operatives to receive instruction and information in the form of a toolbox talk on this subject, due to the possibility of serious / fatal infection from used sharps. Wear needle resistant gloves in suspect areas If extensive drug paraphernalia is found on site, stop work, inform the supervisor, form an exclusion zone, inform all on site (Recorded toolbox talk) and engage specialist sub-contractors to clear the waste. If limited numbers of sharps/ needles are found, inform the supervisor, exclude the area, inform all on site, arrange for delivery of a sharps box, wear the correct PPE, pick needles up using an 'extended hand picker', place in sharps box, seal the box then take it to a local pharmacy that receives used sharp boxes. Should any person on site be accidentally struck by a needle, causing bleeding, inform the supervisor, allow the injury to bleed whilst washing under running water for 10 - 15 mins. The Supervisor will arrange for the person in question to attend a Doctor / Hospital immediately. 	1	3	3	Operatives
General	- Slips, Trips & Falls	2	2	4	 Always maintain good levels of housekeeping. Install edge protection measures. Clean up spills immediately – spill kits. Avoid trailing leads. 	1	2	2	All persons on site
General	- Working at Height	3	3	9	 Adhere to working at height regulation 2005 at all times. Avoid working at height where possible. Use work equipment or other measures to prevent falls were working at height cannot be avoided – Guard rails – working platforms – harness & lanyards – Edge protection. Where you cannot eliminate the risk of fall, use work equipment or other measures to minimise the distance and consequence of a fall should one occur – Safety nets – airbags 	1	3	3	All persons on site

General	- Access & Egress	2	2	4	 Segregated access and egress routes to be clearly marked and sign posted. All persons to be briefed on access/ egress routes & use of designated access & egress routes that are clearly marked and defined. Always maintain good levels of housekeeping. Separate pedestrians from plant/ vehicles always. Keep emergency routes clear. Keep designated access routes clear at all times. 	1	2	2	All persons on site
Manual Handling	 Personal Injury Back Strain Slipped Disc Hernias Lacerations Crushing of hands or fingers Bruised or broken toes or feet Various sprains, strains, etc. 	3	2	6	 Always use mechanical devices wherever possible Reduce risk of injury to lowest level reasonably practicable by use of slings, hand grips. Where mechanical aid is impracticable, sufficient labour must be available to handle any heavy or awkward loads and instructions must be issued to site on the handling of these loads. All operatives will be given training in the correct methods of handling and lifting loads as part of their normal site safety training. Always maintain High levels of housekeeping. Access & material transfer routes to be kept clear. Supervisors will ensure that a supply of suitable gloves is available for the handling of materials which could cause injuries to the hands. All lifting devices are to have correct certification 	1	2	2	Operatives
Noise	 Environmental pollution Hearings 	2	2	4	 Identify noise sourced above 85db rectify if possible. If noise exceeds 85db and cannot be replaced using a different method or equipment, adequate hearing protection is to be worn Ensure hearing protection area is set up – Signage. Where possible create distance between the noise source and all persons Ensure noise assessments are carried out and a record kept. All plant to be suitably silenced. All doors around engines to be closed and sound proofed. 	1	2	2	All persons on site
Personal Protective Equipment (PPE)	 Injury to head, eyes, hearing, limbs, hands, feet and torso. 	2	3	6	 PPE is mandatory on this site (Minimum PPE must be – Safety helmet, light eye protection, high visibility waist coat or jacket, gloves and approved foot protection) PPE must be always worn. Additional task specific PPE will be made available and must be always 	1	3	3	All persons on site

						 worn. Some PPE requires periodic testing/ inspection - Records are to be kept - Uncertified PPE must not be used. All PPE that is damaged must be immediately replaced and reported to the supervisor. Damaged PPE is to be disposed of. 				
Weather	fa s - C - H - S - C	ilips, trips and alls (Rain or now) Common cold leat stroke Sun burns Covered risks snow)	2	2	6	 Suitable waterproof PPE to be worn. Suntan cream to be used. All working at height activities must STOP during adverse weather conditions. Due consideration to ground conditions must be observed during heavy rain. Due consideration to ground conditions must be observed during snow periods. Reconsideration of method or task that create dust needs to be considered during high winds. 	1	2	2	All persons on site
Provision of 1 st Aid	- L re te	No 1 st aider on ite Jnable to espond correctly o accidents/ ncidents	2	3	6	 This site will always have a first aider on site. All persons on site to be made aware of whom the first aider is (Induction or toolbox talk) Notice boards must display the first aiders name and details. A first aid kit or kits must be available and match the number of persons on site. 	1	3	3	All persons on site
Visitors to site	-	Jnaware of current risks	2	3	6	 Visitors must be site inducted (Full or Part) Visitors must be made aware of daily activity briefing. Visitors to site are to be escorted by fully inducted person/ persons if only. Partially inducted Demolition exclusion zones will always apply. 	1	3	3	Visitors and all other persons on site
Vibration	0 - V	/ibration to part or whole of body /ibration to urrounding area	3	3	9	 Reduce the need for vibratory tools were reasonably practicable. Reduce or replace with an alternative method or apparatus must be always considered. Hand, Arm, Vibration (HSE) guidelines must be always observed. All vibrating plant is to be source suppressed against vibration were possible. All vibrating plant or equipment is to have a HAV tables available. The HAV tables for the vibrating plant or equipment will have time durations of use – The durational use and breaks stated must be always 	1	3	3	Operatives and Operators

					 adhered to. Recording information: HAVS duration records are to be deployed. All completed records are to be held at head office. Ensure appropriate PPE is worn- Respiratory protective equipment/ eye protection and gloves (see PPE risk assessment) 				
COSHH	 Explosive Costic Irritant Poisonous 	3	3	9	 Liquids on site must have a data sheet. All Operatives are to be trained and competent to recognise potential issues around known and unknown liquids. Prior to handling liquids, a COSHH risk assessment must be created, read, understood, and signed as understood by any party handling the materials. If unknown Hazardous materials are suspected or identified on site, all works will cease and be made safe. Exclusion zones will be established, and a toolbox talk given to make all parties on site aware of the materials found. Works will not commence until materials are identified and risk assessed. All hazardous waste will be handled in accordance with the current regulations of those liquids. Appropriate PPE to always be worn. 	1	3	3	Operatives/ Operators
Asbestos	 Asbestos related health conditions. Expose to asbestos. Uncontrolled spread of asbestos fibres. 	3	3	9	 No soft strip, dismantling or demolition activities are to take place unless a refurbishment and demolition asbestos survey report is available. Prior to any soft stripping, dismantling or demolition, all known asbestos is to be removed in accordance with the control of asbestos regulations: 2012. Prior to soft stripping, dismantling or demolition activities any notifiable asbestos that has been removed needs a re-occupation certificate. If unchartered asbestos is found during soft stripping, dismantling or demolition – work must STOP immediately – an exclusion zone established – the supervisor informed. No further soft stripping, dismantling or demolition are to take place until a suitable method statement and risk assessment has been created or asbestos removed. Ensure appropriate PPE is worn- Respiratory protective equipment/ eye protection and gloves (see PPE risk assessment) 	1	3	3	All persons on site

Site Traffic	 Being struck by vehicles or plant Using vehicle routes unplanned vehicle. Access/egress from works area. 	2	3	6	 Ensure vehicle routes and site access and egress are clearly defined and maintained. Traffic management plans to be explained during site induction. Site supervisors to monitor traffic management plan. High visibility clothing to be worn on site at all times. Persons physically walking on site to attract drivers/operators attention before approaching vehicles/plant. All reversing vehicles & plant movements to be controlled by a designated Banksman. Pedestrian / vehicle routes to be established & clearly signposted Operatives to use pedestrian designated routes available 	1	3	3	All persons on site
Isolation of services	 Electrocution Explosion Property damage Environmental risk 	2	3	6	 Prior to demolition isolation certificates are required. If isolation has not taken place - STOP work and report to your supervisor Isolation certificates are to be obtained from Spence Ltd Purging of gas pipes are to be obtained from Spence Ltd 	1	3	3	Operatives/ Operators
Persons on site	 Security Unauthorised access Public interface 	2	2	4	 Demolition exclusion zones to be securely fenced off and safety signage to be established, secured and maintained throughout duration of works PPOC Banksman to maintain, monitor and marshal the demolition exclusion zone to ensure there is no unauthorised access. Addition security measures may be required – Site manager to establish. Controlled and secured access onto the site to be established. The access points are to be secured/ locked. Site vehicles to check for pedestrians and public traffic before driving out of and on to site. All persons on site to be always vigilant for members of the public and third parties. If a member of the public is witnessed on site – STOP – Take the person to the site office or escort them off site, then immediately inform the site manager. Supervisors to coordinate to coordinate all works on site. No reversing movements of plant without a Banksman. 	1	2	2	All persons
Use of abrasive wheels	 Bursting of the wheel or discs Injuries from 	2	3	6	 Hot works permits will be obtained and closed. Suitable fire extinguisher to be available or charged hose pipes. All Operatives are to be trained and competent in the use and changing 	1	3	3	Operatives.

	 flying particles. Cuts to hands, legs, etc. Dusts Loose clothing tangled in disc. Noise. Fire and explosion. 				 of abrasive wheels. Training records held at work site. Equipment to be inspected by a competent person before use. Defective equipment is to be removed from service. Operative to wear impact goggles, ear defenders, gloves and dust mask when using abrasive wheels - Safety glasses are not adequate when operating a hand tool with a spinning disc that could shatter. Solid fire-retardant screens are to be used to prevent the spread of sparks/projectiles if required. At source dust suppression to be implemented as required (atomiser or similar) Remove all potential flammable/ combustible materials away from the working area. Ensure your clothing is not loose. 				
Demolition & Dismantling	 Demolition Activities (General) 	3	3	9	 All full and partial dismantling to be in accordance with BS 6187: 2011 All works are to be supervised by a competent, experienced and trained person. Only experienced, competent and certificated persons to be deployed to demolition/ dismantling task/ tasks. Ensure appropriate PPE is worn- Respiratory protective equipment/ eye protection and gloves (see PPE risk assessment) All persons conducting the task/ tasks must be site inducted. All persons to be always aware of their surroundings. All plant and equipment used, must be fit for purpose, maintained and certificated (if required) All live services are to be identified and isolated. Service isolation certificates are to be held in the site file. Services that are to remain live must be either diverted or protected. Exclusion zones to be agreed, established and maintained. All persons on site to be made aware of exclusion zones (Toolbox talk/ Daily activity briefings) A "clear as you go" housekeeping regime is to be always applied (Toolbox talk) Structural integrity of all structures must be always maintained during full or partial demolition/ dismantling. 	1	3	3	All persons on site

					 All hot works are to be conducted under a hot works permit. Any confined space working is to be conducted then a "confined space" permit shall be in place. 				
Demolition & Dismantling	- Maintaining Structural Stability	3	3	9	 permit shall be in place. All dismantling and demolition must be conducted in accordance with BS 6187:2011 – Code of Practise for full and partial demolition. If a pre dismantling/ demolition structural survey has taken place – This report must be read in its entirety and recommendations/ advisory notes are to be taken into full consideration prior to the creation of the safe systems of work (Method Statement). Prior to creating a safe system of work (Method statement) - a walk around and inspection of the work/ task area/ areas must be conducted by experienced and competent persons During inspection of the task/ area/ areas a full assessment of existing structural integrity/ make-up of the building must be conducted by an experienced and competent person Inspection/ tours assessments undertaken must take into consideration any underground structures. Due consideration of potential structural integrity issues must be taken into account whilst collating the safe system of work sequence during collation of method statements. Further structural integrity assessment must be afforded to any structure that is to remain or is due to be dismantled/ demolished at a later stage of the demolition/ dismantling sequence. Consideration must be afforded at all times to neighbouring properties/ facilities regarding maintaining structural integrity of the same. Propping and shoring techniques is to be considered (temporary works) Additional support consideration requires predesign assessment. No additional support work shall commence until predesigns/ specifications are in place or have been agreed. Additional support work must not deviate from the agreed predesign. Only trained and experienced operators of excavators and CCDO operatives are to dismantle/ demolish items/ structures. All operators/ CCDO operatives are to fully understand the method statement raised and risk mitigation measures introduced.	1	3	3	Operators, CCDO operatives and banks men
Demolition & Dismantling	 Premature /Un- controlled collapse 	2	3	6	 All demolition to be conducted in accordance with BS 6187: 2011 All works to be conducted in strict accordance with the assessed demolition sequence and method statement. 	1	3	3	Operators, CCDO operatives

					 Pre demolition assessment of the structures is to take place by an experienced and competent person prior to commencement of the works to determine if site condition have changed since the initial structural investigations/ assessment took place. Demarcation/ exclusion zones are to be set up prior to demolition and adequate warning signage in place. Exclusion zones to be managed and always upheld. All persons on site to be advised of the exclusion zones. Restriction of all non-operational personnel from demolition exclusion zone will apply. Banksman/ Supervisor to control demarcation zones. Banksmen to be in visual/ site of the plant operator and or have two-way radio communication between both parties. Only the Plant Operator is to confirm that he has made the building safe therefore allowing the exclusion zones to be entered by nonessential staff. All plant to be demolition specification and have fully protected cabs 				and banks men
Excavating	 Service strikes. Collapse of surrounding ground. Falls from height. Voids Injury to persons falling from height. Slips, trips and falls on excavated materials 	2	3	6	 Exclusion zones must be agreed, created, maintained and managed. Prior to excavating a CAT scan of the immediate area must be conducted by a trained and competent person. Following excavation activities further exclusion zone may need to be established due to location and depth. The CAT must be date calibrated. Any know or found services found must be either isolated, diverted or hand dug only Excavations greater than 1.2m deep must be adequately propped. or Excavations greater than 1.2m deep must be adequately 'battered back'. All heavy ground bearing plant or other activities must be at a safe distance from trenches that are being dug or have been dug. Following excavation activities – adequate edge protection/ barriers must be erected Excavated soils/ materials are to be placed in exclusion zone area. 	1	3	3	Operatives and excavator operators
Undergroun d services	- Services strikes	2	3	6	 Prior to any excavation - underground service drawing are required. All services should be assumed to be live until disconnected and proven A permit to excavate is required for all activities which break the ground. 	1	3	3	Operatives and excavator operators

					 Isolation certificates as necessary 				
	1				 The area may require a CAT survey 				
Underground structures and back filling activities	 Ground stability and instability Ground collapse Falls (plant and persons) 	2	2	4	 During initial site investigation and structural integrity surveys all underground structures are to be considered Plant must not cross over or near known underground structures unless advised by an independent engineer. If "as built" drawings are available, they are to be made available during initial investigation periods. Backfilling Backfill excavations/ voids using site won material or imported suitable materials A banks person is to be used at all times during operational/ tipping periods. Exclusion zones during backfilling is required 	1	3	3	Operators
Existing ground conditions	 Stability Ground collapse Slips trips and falls 	2	2	4	 Areas where persons are known to walk are to be levelled. If required then suitable imported stone is to be placed and compacted in areas where persons transit. Prior to any plant activities taking place – existing ground conditions must be assessed by a competent person to be able to with-stand the expected loads to be asserted. MEWP's and similar mobile plant can only be used on flat, firm terrain. Due care and attention must be afforded to underground structures – (See underground structures risk assessment) 	1	2	2	Operators and operatives
Soft stripping	 Injury to head, eyes, arms, hands, torso, legs and feet Slips, trips and falls 	2	3	6	 All areas must have exclusion zones applied (See exclusion risk assessment) All soft stripping plant and hand tools must be fit for purpose (See plant and hand tools risk assessments) All soft stripping operations conducted at height - (See working at height risk assessment) All manual handling operation must be risk assessed (See manual handling risk assessment) All materials removed must be cleared from the working area on a regular basis (See slips/ trips and falls risk assessment) All soft stripping operations must be conducted in a safe and agreed systematic process – structural integrity must be observed at all times. Ensure appropriate and suitable/ task specific PPE is worn- Respiratory 	1	2	2	Soft stripping operatives

					protective equipment/ eye protection and gloves (see PPE risk assessment)				
Use of electrical apparatus and hand tools	 Electrocution Injury to head, eyes, arms, hands, torso, legs and feet 	2	2	4	 Only experienced and competent operators are to use the required plant and equipment. If specific training is required to operate any electrical plant or equipment, then such training needs to be entered onto the training matrix and certificates filed/ in date (if required) Ensure equipment to be used is in good repair and fit for purpose with appropriate certification/ calibration as required. PUWER regulations may apply to certain plant and equipment – such regulations must be adhered to at all times. All electrical plant and equipment must be portable appliance tested (PAT) Ensure a competent person carries out a visual inspection of the plant and equipment prior to use. If any equipment is faulty, it must be removed from use and the site supervisor/ manager informed Any faulty equipment removed from service must not be used until the correct repairs have been undertaken and re certification and or PAT testing occurs. Ensure appropriate PPE is worn- Respiratory protective equipment/ eye protection and gloves (see PPE risk assessment) 	1	3	3	All persons on site
Hand tools	 Electrocution Injury to head, eyes, arms, hands, torso, legs and feet 	3	3	9	 Ensure only experienced and competent operators are to use hand tools. If specific training is required to operate any hand tools, then such training needs to be entered onto the training matrix and certificates filed/ in date (if required) Ensure hand tools being used are in good repair and fit for purpose with appropriate certification (if required) Ensure a competent person carries out a visual inspection of the hand tools prior to use. If any hand tools are faulty, they must be removed from use and the site supervisor/ manager informed. Faulty hand tools removed from service must not be used until the correct repairs have been complete. Appropriate and task specific PPE is to be worn- Respiratory protective equipment/ eye protection and gloves (see PPE risk assessment) 	1	2	2	Operatives and soft strippers

Exclusion zones	 Injury to persons Slips trips and falls Interface between plant and persons Flying debris Impact by plant and or debris 	2	3	6	 During high-risk work – exclusion zones are to be agreed, established, enforced and maintained. If underground structures are present an agreed exclusion zone will apply (See underground structures risk assessment) All persons on site are to be made aware of exclusion zones in operation and must adhere to the restrictions established (Toolbox talks) Other activity exclusion zones are to be placed around or near to scaffold areas Exclusion zones will apply during any dismantling or demolition 	1	3	3	All persons on site
Use of podiums	 Falls from height. Manual handling 	3	3	9	 Scaffold can be erected by any competent person but can only be inspected then passed off by a suitably qualified person (PASMA) Once inspected and passed off the scaffold must be tagged by the PASMA trained person or logged in the site office as inspected and authorised for use. If the scaffold is altered in any way, it must be inspected and passed off again by the PASMA trained person. Inspection periods for mobile scaffold must not exceed 7 days. Operatives working from the scaffold tower must be experienced. Ground conditions must be level. Operatives must not overreach from any scaffold or podium. Wheels on scaffold towers are to be locked during operations periods. Podiums must have guard rails. Operatives must not climb out of the tower to gain access to other areas. Access to the top of the scaffold tower must gained via the internal ladder system only 	1	3	3	Operatives
Use of excavators and attachments	 Injury to persons Demolition of structures Lifting Excavating 	2	3	6	 All demolition excavators are to be serviced, fit for purpose and have an annual certificate. LOLER and PUWER regulations apply to the plant being used. Only experienced, competent and certificated persons are to use this type of demolition apparatus. Operators must visually inspect plant prior to use including oils, greases and water. All persons operating demolition excavator must be site inducted onto site. 	1	3	3	Operators

					 Excavator operators must be always aware of their surroundings. During all operational periods' exclusion zones to be agreed, established and maintained. Banks persons - at an agreed safe distance - are to be deployed during all operational periods. Demolition excavators must not traverse over cellar or void areas. Specific operations - demands specific demolition excavators (excavators deployed are to be task and capacity specific) Operatives must be experienced and competent in using all demolition attachments. Attachments to be attached to the excavator by experienced and competent persons only. Attachments to be in good working order. Operators not to exceed SWL when lifting. 				
Tippers, Skip and RORO activities	 Collision with persons, other plant or structures Unstable ground 	2	2	4	 All tipper and skip wagons are to be serviced, fit for purpose and have an annual MOT certificate (including ministry of transport requirements) Only experienced, competent and certificated persons are to use this type of mobile vehicle. Drivers must visually inspect plant prior to use including oils and water. All persons driving or operating tipper/ skip wagons must be escorted onto the site. Tipper/ skip wagon drivers must be aware of their surroundings at all times. During all operational periods' exclusion zones to be agreed, established and maintained. A banks person must be in attendance during vehicle movements. Tipper/ skip wagons deployed are to be task and capacity specific. Tipper/ skip wagons have hydraulic systems to operate lifting or tilting exercises – the drivers must be experienced and competent in its use. 	1	3	3	Drivers Other persons in the activity area
Loading of tippers or skips using an excavator	 Collision with persons, other plant or structures Unstable ground Overloading Waste dropping 				 Only experienced, competent and certificated persons are to be deployed during loading out All persons conducting the task/ tasks must be site inducted. Operatives must be always aware of their surroundings. All plant and equipment used, must be fit for purpose, maintained and certificated. 	1	2	2	Operators and drivers

from tipper sides, skip sides - Waste/ rebar hanging over the tipper/ skip sides		 Loading exclusion zones to be agreed, established and maintained. All persons on site to be made aware of exclusion zones (Toolbox talk) A "clear as you go" housekeeping regime is to be applied at all times (Toolbox talk) A banks person is to be deployed during loading periods. The tipper/ skip driver is to stay in the confines of his cabin (if safe to do so) during loading periods. All bulk skips or tipper wagons are not to be overloaded. 	
		 All bulk skips or tipper wagons are not to be overloaded. Ensure appropriate PPE is worn- Respiratory protective equipment/ eye protection and gloves (see PPE risk assessment) Loading operator to ensure that product does not over hang the sides of the tipper wagon sides of skips prior to releasing the driver from site 	

Risk Assessment Briefing Record

By signing this document, I am declaring that I have read and understood the contents of the Method Statement, and that I will not undertake any activity on site which deviates from the information and guidance contained in this document.

Name	Signature	Date