

Academy Business Park – Knowsley

Demolition and Construction Environmental Management Plan

For the demolition of Units 5A, 5B, 6 and Loading Bay area.

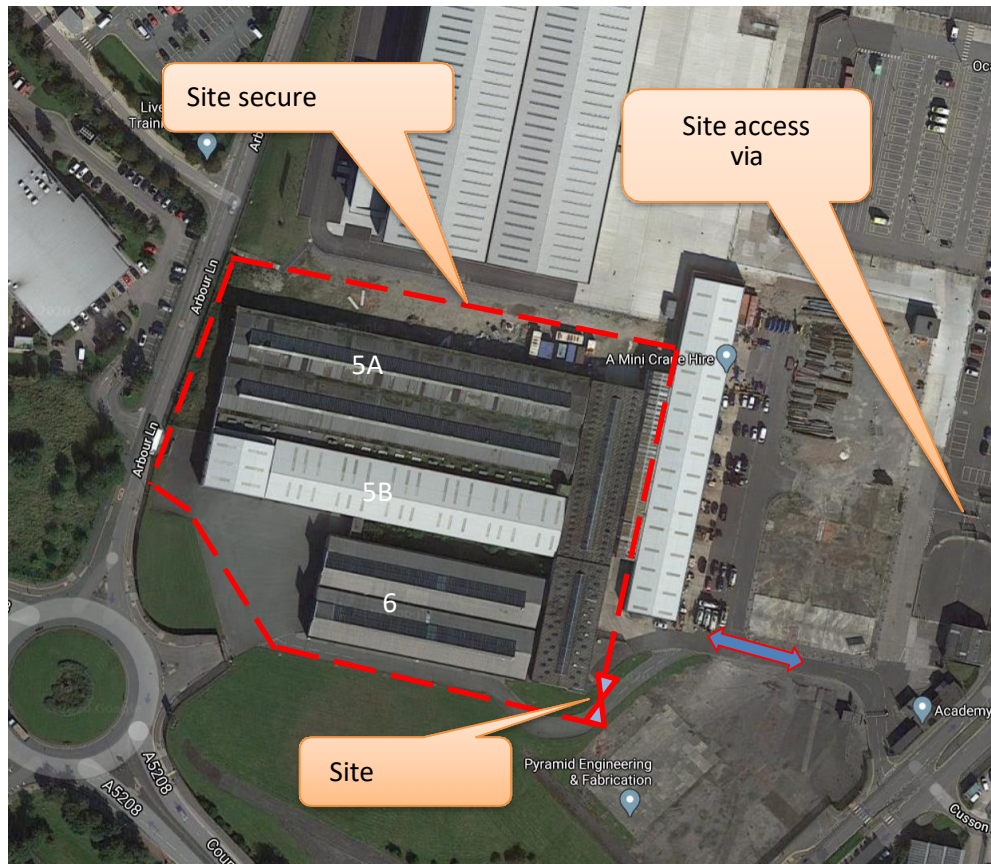


Figure 1 Site Layout

Working Methods and Programme:

Demolition of the buildings within this phase (Units 5A, 5B, 6 & loading bay) will be undertaken by Cheshire Demolition who are familiar with the environment having removed buildings previously on this site.

Demolition will take around 8 weeks to complete with crushing of arising's taking a further week. The site boundary will be secured by heras fencing. The perimeter of the overall site is also secured by palisade fencing.

The buildings will be taken down in a very controlled manor with any asbestos materials being removed carefully by hand prior to mechanical dismantling taking place.

Once the buildings are cleared of any asbestos and checked again to be clear of further contaminants the structures above ground will be taken down using mechanical plant and equipment.

The external walls of the buildings will be left in place for as long as possible to help contain any dust produced during these operations.

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Water sprayers will also be deployed to ensure that no dust is produced.

The buildings are generally steel framed and will be cropped and lowered to the ground. All concrete slabs will be carefully grubbed up and crushed for re-use on this site.

All stockpiles of potentially dusty material shall be stored away from the boundary with existing businesses, within enclosures and damped down using a suitable water spray during dry weather.

The cutting or grinding of materials on site shall be done whilst using an effective water suppression system.

There would be no burning of materials or rubbish on the site.

Building Programme:

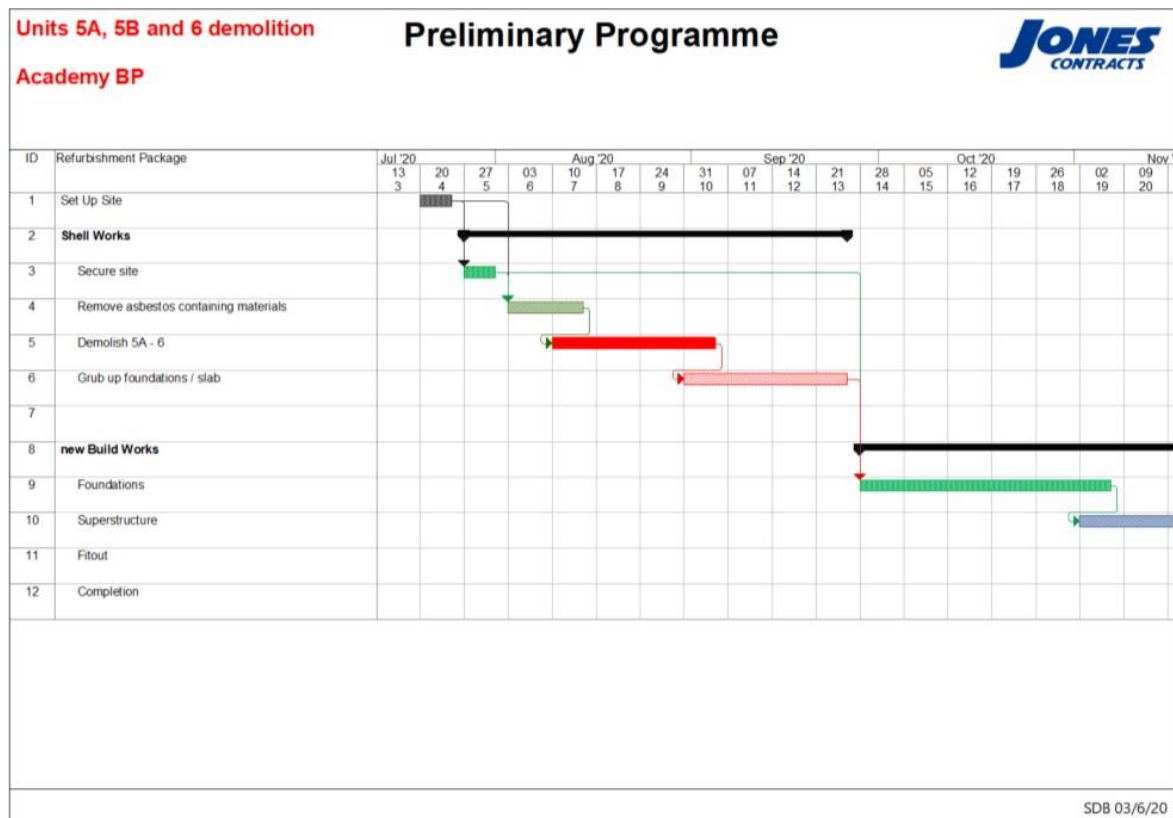


Figure 2 - Programme for this phase of demolition works

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Construction / Demolition Traffic Routes:

The construction vehicles/staff will access the site via the existing entrance and exit off Lees Road. The on-site security team will assist in managing the arrivals and parking of construction staff by only allowing authorised personnel to access the site. There would no access to this site off Arbour Lane.

The gate will be manned at all times and is covered by a CCTV camera for additional security.

On site there will be suitable segregation of plant and pedestrians using barriers and signage. All on site personnel will wear hi-Vis clothing at all times.

All wagon loads entering and leaving the site will be covered.

Equipment selection:

The buildings to be demolished are to dismantled using large tracked hydraulic equipment.

The framed building will be taken down piece by piece and lowered to the ground for further cropping and cutting into manageable pieces.

The slabs and foundation concrete will be broken up using excavator based hydraulic breakers working in a systematic manner across the site area. Water spraying will be used whenever there is a possibility of dust being created.

Equipment siting:

All demolition equipment will be delivered directly to site. Plant and equipment will only have access to the area directly around the buildings to be demolished. It is proposed to demolish the buildings whilst leaving the external walls in place for as long as possible.

This is to restrict noise break out from the site and to help control dust during the demolition works.

Measures to direct noise and dust away from sensitive locations:

It is noted that there are sensitive occupiers of adjacent land so it is of vital importance that noise and dust is not allowed to cause nuisance to neighbouring properties.

As mentioned previously it is proposed that all perimeter walls will be left in place until much of the demolition work has been completed. This will include the removal and crushing of the slabs and foundations where ever possible.

Working hours will be restricted to 8:00AM to 5:30PM.

All machinery and plant will be maintained in good working order with fully silenced exhaust systems and engine covers in place at all times. All service intervals for plant and equipment will be adhered to and will be undertaken in line with the manufacturer's recommendations.

The site has the benefit of a permanent electricity supply which will be utilised for temporary power during the demolition operations. This will ensure that there will not be a requirement to generate electricity locally.

The site will employ a strict 'No idling' policy to further minimise noise and exhaust pollution.

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As the demolition works are being undertaken during the summer period it is not envisaged that any temporary lighting will be required to undertake the works.

The working area and traffic management plan will be set out to minimise the requirement to continually reverse so to help reduce nuisance from reversing alarms.

To minimise noise from handling demolition materials all structures will be dismantled using hydraulic excavators with grabs and cutting jaws. These will lower the building elements to the ground ready from cropping and sorting into the salvageable stockpiles. No elements of the buildings will be knocked down.

Water spraying equipment will be available at all times and deployed when-ever necessary to suppress dust during the works. A water bowser with a sprinkler system will be utilised for more general dust suppression across the site.

The site will employ best practice in line with BS 5228 (2009) to reduce any nuisance from noise and vibration during the works.

Any static plant powered by internal combustion engines shall be sited away from any nearby business and sensitive receptors. The site is however located in a predominately industrial area with no sensitive noise receptors in close proximity.

Wheel wash facility:

A local road sweeping company has been retained to provide on demand road cleaning in the unlikely event that road and highway cleaning will be required.

A wheel wash area will be located along side of the access road where vehicles leaving the site can be assessed and cleaned as necessary prior to making their way to the main business park entrance.

Run off will be contained within a bunded area with a local soak-away installed.

All vehicles will be directed to pass through the wheel wash area before leaving site by the site banksman and signage.

The wheel wash facility will comprise a pressure washer and operative who will inspect all vehicles leaving site. If required, the operative will use the pressure washer to clean off all mud and debris from vehicles leaving the site.

The type of wheel wash facility that would be used on site is shown below. The wheel wash would be a compact pressure washer bowser.

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Compact Pressure Washer Bowser



Wild Life Considerations

Due to the time of year and potential for nesting the buildings have been carefully inspected for any signs of roosting birds, bats and other wildlife.

All soffits and fascias have been removed by hand to facilitate this inspection prior to the main demolition taking place.

No evidence has been found and demolitions will commence whilst continuing to be vigilant for wildlife etc.

Pest Control / Tool- box Talk – Nesting Birds

Although the site is fully developed with minimal areas of greenery and landscaping due regard will be given to the unlikely presence of nesting birds and other mammals. Site operatives will be made aware of their responsibilities in this regard.

In the unlikely event that any pests are found, a suitably licensed pest controller would be contacted to seek their professional advice as to how to control the pests.



Nesting Birds

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What?

Bird nesting season, when birds build their nests and lay eggs, is typically between the **start of March** and the **end of August** but may be extended depending on weather and availability of food. Peak nesting activity is between May and June.

Birds commonly nest in trees and hedgerows, but certain species nest on the ground, under eaves of buildings or amongst materials and plant.

Why?

All nesting wild birds (including 'pest' species such as feral pigeons and gulls) are protected legislation. This includes damaging or destroying nests while being built or in use, disturbing birds while nesting and removing, damaging or taking eggs and young birds from nests. Prosecution can lead to fines of up to £5,000 and 6 months in prison.

How?

- Where possible undertake vegetation clearance and block off or remove possible nest locations outside of bird nesting season.
- Ensure checks are made for nesting birds ahead of any vegetation clearance.
- If you identify a nest, or notice birds repeatedly flying to a certain point, stop work in the area and report it.
- No works that will disturb nesting birds should be undertaken until the birds have stopped breeding and chicks have fledged.
- Consider implementing a 10 metre exclusion zone and minimising plant and vehicle movements in the area.
- Do not attempt to move materials or plant away from the nest as this could disturb the parent birds or young and could expose to predators.
- Be aware that certain birds breed outside typical nesting times, including ravens (February) and pigeons (year round).



Questions

1. What time of year is typical bird nesting season?
2. What is the maximum fine per offence for damaging or destroying a bird's nest?
3. What wild birds are not protected while nesting?

If you have any queries regarding the content of this tool box talk please contact your Sustainability Advisor or Line Manager.