

## Risk Assessment

|                  |  |       |                |
|------------------|--|-------|----------------|
| <b>OPERATION</b> | Demolition of Redundant Elderly Persons Home | RA No | AH 013 Issue 1 |
|------------------|--|-------|----------------|

|  |                                     |
|--|-------------------------------------|
| <b>SCOPE OF OPERATION, LOCATION AND DURATION</b>   | <b>Associated Method Statements</b> |
| <b>SCOPE:</b> Demolish building and breakout concrete flooes / foundations<br><b>LOCATION:</b> Acer Holdings, Meadow Road , Whitehaven.<br><b>DURATION:</b> Approx 6 weeks | AH 012 R1                           |

### SPECIFIC ASSESSMENT CONTROL MEASURES INCLUDED

|          |                                 |           |                               |           |                             |
|----------|---------------------------------|-----------|-------------------------------|-----------|-----------------------------|
| <b>1</b> | <b>Underground Services</b>     | <b>6</b>  | <b>Dust</b>                   | <b>11</b> | <b>Unauthorised Persons</b> |
| <b>2</b> | <b>Plant and HGV operations</b> | <b>7</b>  | <b>Slips, trips and falls</b> | <b>12</b> | <b>Asbestos</b>             |
| <b>3</b> | <b>Public Interface</b>         | <b>8</b>  | <b>Excavations</b>            | <b>13</b> | <b>Working at height</b>    |
| <b>4</b> | <b>Traffic Interface</b>        | <b>9</b>  | <b>Manual Handling</b>        | <b>14</b> |                             |
| <b>5</b> | <b>Noise</b>                    | <b>10</b> | <b>Unstable structure</b>     |           |                             |

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**Checked by:** ..... Mark Thomson

**Supervisor / Foreman:** .....

**Date:** 01/06/22

## Risk Assessment

|    |  |
|----|--|
| 1. | Not Likely; small chance of occurrence in the nature of the task it is unlikely to occur |
| 2. | Possible; during the task occurrence could happen  |
| 3. | Likely; an even chance off incident during the task whilst performing this operation     |
| 4. | Probable; an incident will happen at some point whilst performing this operation         |
| 5. | Certainty; imminent chance of incident   |

### *Likelihood*

|    |   |
|----|---|
| 1. | Negligible; injury not requiring first aid, damage to property not requiring repair     |
| 2. | Minor; injury requiring first aid provision, minor repairs to property                  |
| 3. | Moderate; 3 day + lost of time to injury, damage that ceases operation                  |
| 4. | Serious; major injury that could also lead to single fatality, major damage to property |
| 5. | Major; one or more fatalities, property damaged beyond economic repair                  |

### *Severity*

| RISK KEY      |   | 1.<br>Not Likely | 2.<br>Possible | 3.<br>Likely | 4.<br>Probable | 5.<br>Certainty |
|---------------|---|------------------|----------------|--------------|----------------|-----------------|
| 1. Negligible | 1 | 2                | 3              | 4            | 5              |                 |
| 2. Minor      | 2 | 4                | 6              | 8            | 10             |                 |
| 3. Moderate   | 3 | 6                | 9              | 12           | 15             |                 |
| 4. Serious    | 4 | 8                | 12             | 16           | 20             |                 |
| 5. Major      | 5 | 10               | 15             | 20           | 25             |                 |

## Risk Table

|                      |  |
|----------------------|--|
| 1-3 Negligible Risk  | Task may proceed   |
| 4-7 Low Risk         | Task may proceed with control measures in place          |
| 8-11 Moderate Risk   | Task must cease and further controls applied             |
| 12-20 High Risk      | Task must cease and supervisor informed                  |
| 20+ Intolerable Risk | Task must not start and director informed for assistance |

By taking the severity rating number and multiplying it by the Likelihood rating number will give you the Risk Rating from the Risk Key Table. Once the overall rating has been established this should be referenced

Few workplaces stay the same. Sooner or later, you will bring in new equipment, substances and procedures that could lead to new hazards. So it makes sense to review what you are doing on an ongoing basis, look at your risk assessment again and ask yourself:

Have there been any significant changes?

Are there improvements you still need to make?

Have your workers spotted a problem?

Have you learnt anything from accidents or near misses?

Make sure your risk assessment stays up to date.

I understand that I have access to the risk assessment file and agree to ensure that I aid my employer in meeting my duties to ensure safety for the business and all its relevant person/s as it is my legal duty

## Risk Assessment

| Risk Number | Hazard                 | Likelihood | Severity | Initial Rating | Hazard effect         | Control Measures  | L | S | Residual Risk rating |
|-------------|------------------------|------------|----------|----------------|-----------------------|---|---|---|----------------------|
| 1           | Services               | 3          | 4        | 12             | Workforce<br>Property | Disconnection register checked before any demolition starts<br>Client to provide information on underground services.<br>Cat scan the whole area of the works before demolition starts.<br>Cat scan the whole area before the concrete floors and foundations are broken out.   | 1 | 4 | 4                    |
| 2           | Plant & HGV operations | 3          | 4        | 12             | Workforce<br>Property | All plant, equipment to be checked before use-inspection and test documents made available.<br>All operatives to hold CPC cards and have them available.<br>Plant operator will check machine before use and record this on a daily check sheet.<br>Any defects found will be reported to the site supervisor.<br>Any defects to safety critical items will result in the plant taken out of service.<br>Seat belts to be worn at all times<br>Excavator will either have sufficient mirrors to eliminate blind spots or working rear cameras.<br>Mirrors to be in good order and clean.<br>Audible alarms to be in good order if fitted.<br>Flashing beacons must be fitted and working.<br>Quick hitch guidance to be available in cab.<br>Reversing cameras to be working and fitted to road wagons standard.<br>8 Wheeler Road wagons leaving site will have the loads covered by an easy sheet system. | 1 | 4 | 4                    |

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|   |                   |   |   |   |  |   |   |   |   |
|---|-------------------|---|---|---|--|---|---|---|---|
| 3 | Public Interface  | 3 | 3 | 9 | Workforce<br>Public                          | Compound gates to be closed and manned during demolition and excavation operations.<br>Banksman to police areas with properties in close proximity to the building during the demolition.<br>Banksman to control wagon access and egress at all times, gates to be closed immediately after wagons have entered or left site.<br>Banksman to police pedestrians during the demolition                                 | 1 | 3 | 3 |
| 4 | Traffic Interface | 2 | 4 | 8 | Public<br>Workforce<br>Road user<br>Property | Flashing beacons to be fitted to all plant.<br>Banksman to control vehicle movements outside the site gates.<br>Hi Viz clothing to worn.<br>Road sweeper to keep the road outside the site clean during the works.  | 1 | 4 | 4 |
| 5 | Noise             | 3 | 3 | 9 | Workforce<br>Environment                     | Use modern silenced equipment.<br>All machines used will have noise levels less than required levels (85 dB). The hydraulic concrete breaker has noise limits of 85dB at 10 m. Pedestrians outside the site fencing will not be exposed to upper limits.<br>Workforce to use ear protection in the vicinity of the Hammer during breaking operations. Carry out noise monitoring during concrete breaking operations. | 1 | 3 | 3 |

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|   |                           |   |   |    |                              |   |   |   |   |
|---|---------------------------|---|---|----|------------------------------|---|---|---|---|
| 6 | Dust                      | 2 | 3 | 6  | Workforce<br>Environme<br>nt | The Fencing around the perimeter of the works will have debris netting attached.<br>Plan work so that we don't create dust - carefully demolish the building in small sections – use the grab to handle the materials to ground level rather than falling – don't tip materials out of buckets at height - If there is a problem with dust during the demolition or the breaking of concrete damp down from a Mobile water bowser with jetting hose.<br>This will be controlled with an operative directing the water jet onto the area of demolition at all times.<br>Do not demolish high areas of the building during strong winds, reducing the risk of dust and debris being blown around. | 1 | 3 | 3 |
| 7 | Slips, trips<br>and falls | 2 | 4 | 8  | Workforce                    | Keep work area tidy.<br>Observe pedestrian routes<br>Ankle boots only on site – no rigger boots.<br>Plant to be parked in a location that affords a safe route for the driver to access to/from his vehicle   | 1 | 4 | 4 |
| 8 | Excavations               | 3 | 4 | 12 | Workforce<br>Property        | No excavations to take place without certain knowledge that there are no services within our works area.<br>The Client will confirm the service disconnection and location prior to any excavation of foundations or floor slabs.   | 1 | 4 | 4 |

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|    |                      |   |   |    |                                    |  |   |   |   |
|----|----------------------|---|---|----|------------------------------------|--|---|---|---|
| 9  | Manual Handling      | 3 | 2 | 6  | Workforce                          | Try to eliminate manual handling by using mechanical means to lift<br>20t excavator with selector grab to sort materials out for disposal.<br>Persons involved in manual handling to have training.  | 1 | 3 | 3 |
| 10 | Unstable Structure   | 3 | 4 | 12 | Workforce<br>Property              | Exclusion zones to be set up to minimise persons in the work area.<br>Supervisor qualified to Topman level to supervise the demolition works.<br>Supervisor to have experience in demolition of this type of building, take roof off in sections, take walls down to safe heights before moving on to next roof section. Structure to be left safe at the end of each shift.<br>Workforce to be kept out of collapse radius of the building. | 1 | 4 | 4 |
| 11 | Unauthorised Persons | 3 | 3 | 9  | Workforce<br>Public                | Keep compound gates closed at all times during demolition.<br>Keep an eye out for unauthorised persons, stop work and escort out of the area if any found  | 1 | 3 | 3 |
| 12 | Asbestos             | 3 | 4 | 12 | Workforce<br>Public<br>Environment | All asbestos will have been removed (as per Asbestos survey) before demolition but if any is suspected during demolition, work will cease until removed from site by a licenced contractor.  | 1 | 4 | 4 |

## Risk Assessment

|    |                   |   |   |    |  |   |   |   |
|----|-------------------|---|---|----|--|---|---|---|
| 13 | Working At height | 3 | 4 | 12 | <p>Workforce Property</p> <p>Try to eliminate all working at height if possible.<br/>         If working at height cannot be avoided then a suitable plan must be drawn up.<br/>         This should include what type of equipment, service records, current test certificates, operator qualifications, Harness training etc.<br/>         A MEWP will be used if any working at height is required during demolition operations.<br/>         The MEWP should be inspected before use, all test and inspection documents should be available.<br/>         Do not work with the MEWP in high wind speeds higher than 12m/s the site limit or manufacturers-the lowest limit will apply.<br/>         SQEP CPCS operator to drive the MEWP.<br/>         Person in the MEWP will be harnessed trained.<br/>         Only work in the basket with harness attached to the correct anchor point.<br/>         Use a correct rated MEWP.<br/>         Use MEWP on firm and level ground only.<br/>         Excavators to have handrails to allow safe access to carry out daily checks – Boxing Rings.<br/>         Maintain 3 points on contact at all times.<br/>         Access using manufacturers access points.</p> | 1 | 4 | 4 |
|----|-------------------|---|---|----|--|---|---|---|



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