Environmental Management Plan

Project Details	
Project Site:	98 Old Pittwater Road, Brookvale, NSW 2100
Company Name:	Max Build Pty Ltd
Business Address:	Lot 10, 77-83 Parramatta Rd, Annandale NSW 2038
Contact Number:	02 8033 4725

Contact Person in Control of Site	
Name:	Kyrin Chan
Number	0423 816 864
After Hours Number	02 8033 4725

Contact Details of Person Responsible for CMP Compliance	
Name:	TBC
Number:	TBC
After Hours Number:	02 8033 4725

Revision History			
Revision	Date	Purpose	Author
1	17/10/2023	For Construction	Vansh Rambisessar

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Project Introduction

The building at 98 Old Pittwater Road, Brookvale NSW 2096 is a commercial warehouse with car parking lots.

The project is to undertake structural repairs to Units 2, 3 & 4 within Building A.

The project will involve removal of a section of the ground floor slab in order to undertake underpinning works to the external walls.

Project Location

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Site Induction and Training

MAX Build will develop, implement, monitor, and review a documented process that controls and governs all aspects of the management of training and competency in accordance with all Laws and Good Industry Practice

The process must apply to all contractors and sub-contractors engaged to work on the Project to ensure all workers are qualified, trained, certified, adequately experienced, and appropriately licenced to undertake all tasks for their individual roles.

The training and competencies component will address as a minimum:

- the operation of vehicles and mobile plant
- the operation of equipment and plant
- all activities that require Australian High-Risk Licences
- all specialist certification

Receive Handover of Site and Sign-off on Services

Demolition will begin only when the site has been officially handed over and a sign off on services has been received by the appropriate service providers for appropriate areas.

Site Induction

A site induction is to be held before any work commences on site.

The site induction includes the following:

- Induction into this management plan, other plans and SWMS
- Induction into the Principal Contractors Work Health and Safety Management Plan/system
- Induction into the Clients Work Health and Safety Management Plan/system

All works will be completed in accordance with Code of Practice: Demolition Work (SafeWork, NSW) and AS2601: The demolition of structures and shall meet legislative requirements contained in the Work Health and Safety Act 2011 (NSW) and Work Health and Safety Regulation 2017 (NSW).

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Environmental Management Controls

Install Environmental Controls

MAX Build is a responsible contractor and will endeavour to ensure the unimpeded operation of the surrounding sites throughout our works.

Importance will be placed on sensitive receivers and proximity to adjacent buildings. MAX Build will endeavour to do everything reasonably practicable to make what is by nature a noisy and disruptive process as quiet and dust free as possible.

A summary of the key environmental methods that will be used on site include:

Sedimental Control

- Leaving all hardstands in place until the very end of the project. All truck movements will be on hardstand
- Installing sediment settling and filtration system in the sumps of building to collect and filter sediment prior to it being released into the storm water system. Prior to releasing any water into the storm water, a testing system will be put in place
- A mechanical vacuum type street sweeper is to be employed wherever sediment or dust becomes an issue on the external roadways and on the internal hardstand on site.
- All drains will be covered in a Geotech material, with Geotech lined hay bales placed up stream of the flow to these drains. All fencing to the perimeter of site will be lined with shade cloth

Noise Management:

Demolition is a noisy process; however, measures will be employed to minimise noise generated during the works.

MAX Build will employ the following noise reduction measures when implemented will minimise noise disruption to the surrounding buildings:

- Demolition will be undertaken by as large as possible machines as they are far less obtrusive than the rapid crescendo of smaller machines.
- External walls of each floor will be left in place until the very last stage demolition. The walls act as a sound barrier shielding the neighbourhood buildings from much of the noise generated by machines on that floor.
- At least two decks of scaffolding will be lined with Metro Mesh to the full height of the perimeter of building providing a noise dampening measure.
- Truck movements along uneven surfaces will be restricted to minimum speeds near sensitive receptors and built into the traffic management plan

Dust Control:

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MAX Build will employ the following dust control measures when implemented will ensure dust leaving the confines of the site will be kept below a level that affects the surrounding:

- Installing a minimum of 2 water points (with 3 outlets on each point) or as needed on every level of the building with booster pumps used to achieve sufficient water pressure at the top levels of the building (as required).
- Each machine used in the demolition process will be accompanied by a labourer with a water hose to ensure water is available on each separate demolition face and provide adequate dust suppression. Water runoff will be minimised.
- All scaffolding will be lined with Metro Mesh which reduces the wind over the active demolition faces and the possibility of dust permeating through the scaffolding screen
- Material will be saturated prior to being removed via the Drop Zone
- During load out of material, material will be wet down to minimise dust being generated

Vibration Management

The following measures will ensure that disruptive vibration will not travel beyond the site:

- Physical links from structure being demolished to adjoining buildings and structures will be demolished (e.g., overhead walkway etc.)
- Physical separation will be done by saw cutting a slice of the slab
- Breakup of slabs, beams and columns into smaller pieces of rubble to reduce vibrations being felt from Drop Zone operation

Air Pollution Control

The following activities are highlighted to be on-site activities that MAX Build will manage via the air pollution control measures detailed below:

- On-site traffic movements
- Transferring materials and waste
- Earthmoving and excavation
- Masonry activity (preparing concrete, cement/mortar mixes; cutting stone/bricks)
- Concrete drilling and cutting
- Wind erosion from stockpiled material
- Smoke/emissions from engines

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Air pollution control measures:

- Application of water sprays with water-based surfactants to suppress airborne dusts generated from stockpiles, access ways and roads during demolition and earth-moving activities.
- Wash vehicle wheels before they leave the site.
- Use of barriers Erect physical barriers or wind breaks to minimise dust generation.
- Use screening materials (e.g., shade cloth) on three sides where possible (with no less than 50% porosity to the material being contained)
- Install air pollution monitoring equipment/gauges to regularly measure pollution levels

Mechanical Demolition

Mechanical demolition will be by hydraulic excavator. 5, 12 and 20 tonne hydraulic excavators with shear, pulveriser, hammer and bucket attachments

Hydraulic excavators with hammer / pulveriser attachments will break up brick walls and concrete slabs of the structures in sections and removed via the Drop Zone. Only material of a suitable size will be placed into the Drop Zone to avoid blockages.

A watcher will work with plant and equipment operators at all times. Water will be maintained at the face of demolition for dust suppression where required.

Removal of Rubbish and Rubble from site:

Demolished material will be separated and stockpiled ready for load out. A combination of hydraulic excavator with grapple attachments or bucket and/or Skidsteer with grapple attachments will load out demolished material into appropriate bins for transportation to an EPA approved tipping or recycling facility.

Water will be maintained on stockpiles at all times for dust suppression. Care shall be taken to watch for pedestrians when entering and leaving site.

Approved Traffic Control Plan will be adhered to at all times. All trucks will follow the truck route and guidelines on entering and exiting the site.

MAX Build's traffic controller will assist trucks for site access and egress when required

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Environmental Health & Safety Procedures

Dilapidation Survey
A dilapidation survey is to be undertaken to record the physical condition of any existing structure or situation that may be affected by the proposed development, to all common relevant to the works.

Waste Management
The proposed development will incorporate the waste minimisation principles of Avoid, Reduce, Reuse and Recycle, and conform with the Waste Avoidance and Recovery Act 2001. Specific bins for waste and recycling shall be provided on site.

Asbestos had been identified on-site as per Northaven's Asbestos Register. All asbestos is to be removed from site by licensed technicians, with air monitoring to be carried out and a clearance certificate provided. Risk assessment and controls for this procedure are to be followed as outlined in the WSH&E Policy.

Personal Protective Equipment
All workers, including subcontractors, are required to adhere to the basic PPE standards whilst working on-site hi-vis clothing, hard hat, steel cap boots. As required, task specific PPE is to be utilised. This includes, but not limited to, safety glasses, full face masks, ear protection, ventilators and gloves.

Noise Control
To reduce noise from construction and demolition sites, all activities will be carried out in accordance with the requirements of Australian Standard Guidelines AS2436-1981 "Guide to noise control on Construction Maintenance and Demolition sites" and as outlined below for all drilling and hammering works.

Demolition & Excavation
All demolition works to be done by hand, due to site constraints. Propping to be considered, as per engineer's instructions. Works to be carried out in accordance with AS2601-2001: The Demolition of Structures; as required.

Working Hours
All works to be done within the hours:

- Monday – Friday, 7am – 5pm; drilling & hammering works after 9am
- Saturday, 8am – 1pm; drilling & hammering works after 10am

Occupational Health And Safety
All site works must comply with the occupational health and safety requirements of the New South Wales Work Cover Authority.

Toilet Facilities
During set-up and construction phases, toilet facilities are to be provided on the site, at the rate of one toilet for every twenty (20) persons or part of twenty.

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