

Environmental Site Management Plan



- Structural
- Geotechnical
- Civil
- Residential
- Forensic
- Building Services
- Surveying

5-7 Middle Harbour Road, Lindfield

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1. INTRODUCTION

This Environmental Site Management Plan (ESMP), has been prepared to accompany the proposed multi-dwelling housing development at 5-7 Middle Harbour, Lindfield.

2. PROJECT SITE

The site is located at Lot 4 DP 4665 and Lot 5 DP 4665, 5-7 Middle Harbour Road, Lindfield, refer to **Error! Reference source not found.** Each lot currently contains a residential dwelling, a residential driveway, a pool and general landscaping. In addition, Lot 4 contains a studio.



3. SITE MANAGEMENT

1.1 Material Storage and Site Facilities

The storage of materials, hoisting equipment and facilities on the site also need to be considered when planning the construction process to avoid potential negative impacts and conflict of the public way. The storage of toilets, building materials, pallets, waste bins and stockpiles are aspects of the construction process which are managed on the site.

1.2 Hoardings, and Hoarded Zones

Purpose Hoardings prevent unauthorised access to a site particularly and are used on all sites where demolition and construction activity is occurring as a public safety measure. Hoarded Zones are designated areas adjacent or in close proximity to a construction site which are necessary for the management of the construction activities. There are two types of hoarded zones. They are:

‘A’ class hoarded zones which are located at ground level

‘B’ class hoarded zones which are an elevated area that also provides overhead protection for the pedestrian thoroughfare below.

Installation / Operation It is important that hoardings are located on the boundary of the site and supported by bracing that ensures their stability in all weather conditions. Gates within hoardings should always open into the site to avoid conflicts with public vehicles and pedestrians. They may be constructed of chain wire, prefabricated chain wire (temporary fencing) or timber plywood.

1.3 Waste Management

Waste is to be managed as per the Waste Management Plan prepared by others.

Rubbish and trade waste will be removed from the site prior to the end of each working day and placed into either the Recycling and Sorting Station, or into the General Waste Station, each of which are located adjacent to the main vehicle loading / unloading area, and to be emptied as required. ENVIRONMENTAL MANAGEMENT

4. ENVIRONMENTAL MANAGEMENT

1.4 Protection of Trees During Construction

Any existing trees to remain are to be fenced to and clearly marked with appropriate signage to ensure they are protected. Contractor is to refer to the Arborist report for any trees that are to remain.

1.5 Erosion and Sediment Control

Refer to Appendix B: Sediment control plan for a full listing of recommendation & procedures

Adequate measures will be employed to for sediment control and to prevent the generation of excessive dust during these activities including;

- Exposed ground surfaces affected by heavy vehicle movements will be wetted down to suppress the excess generation of dust with excess run-off from wetting and/or wash-downs will be directed to the sediment control system not create excessive run-off from the site.
- A wash-down area using manual sprayers will be provided at the site entry / exit to facilitate removing loose material from vehicles before leaving the site.
- All heavy vehicles involved in removing demolition, site clearing or excavated material from site will be loaded to their prescribed weight limits and loads covered at all times during transportation.
- Gates shall be fitted with shade cloth and closed between vehicle movements.
- Pedestrian footpaths; roadways and crossovers shall be cleaned daily.

1.6 Site Safety and Environmental Management

All site workers shall be site inducted by the site supervisors and informed of any on site environmental hazards and/or controls, with each having to sign a site induction form.

Before any works commence all contractors are asked to provide work method statements according to Work Cover NSW that contain details of work methods and practices.

Site supervisors shall assist where necessary to educate and inform every contractor of the environmental hazards and controls and shall ask each contractor to provide their own work method statements that must demonstrate the following:

- All reasonable steps have been taken to prevent pollution and protect the environment;
- Promote action to prevent or minimize potential environmental damage;
- Implement rules and methods of work that prevent an incident from occurring; and
- Ensure that all precautionary measures are in place and regularly check and maintain the potential risks of an adverse environmental incident.

1.7 Signage and Public Protection

Qualified personnel shall supervise traffic in and out of the site. Adequate signage warning the public that the area is a construction zone and that no one is permitted on site without proper safety gear (hard hat, boots etc.) shall be enforced. All trucks shall operate with appropriate 'beep beep' or 'quack' noise to indicate that they are reversing.

1.8 Air Quality Management

The Project Manager shall enforce the following procedures on-site:

- Cover materials and stockpiles;
- Fit dust catchers to equipment;
- Placement of sweeps in a bag or cardboard box before putting into skips to prevent dust from becoming airborne;
- Dust screens to be installed around the edges of the site;
- Wear Facemasks and respirators to protect health;
- Use wet, hydro or vacuum blasting as an alternative to dry blasting when possible;
- No burning is permitted on site; and
- Welding shall be carried out in well-ventilated spaces.

1.9 Noise Management

The following procedures and controls shall be strictly enforced on site:

- Noise and vibration monitoring to be carried out prior to commencing works;
- Work shall only be carried out between council approved times;
- Maintain buffer distances where possible;
- Perform noisy work during less sensitive time periods;
- Perform noisy work at less sensitive areas on site;
- Select low-noise plant and equipment;
- Ensure equipment has mufflers installed;
- Regulations limiting the noise that machines and accessories can lawfully emit shall be enforced; and
- Plant and machinery that is noisy shall be stopped and replaced or maintained.

1.10 Noise Control

The main concern regarding noise will be during the detailed excavation stage of the project and during concrete pours. All other works will fall into general fit out works. There are a number of businesses and residential

buildings in close proximity to the project and the Project Manager will ensure neighbours are constantly made aware of upcoming noisy works.

5. TRAFFIC MANAGEMENT

1.11 Vehicular Site Access

Vehicular site access will be via Middle Harbour Road.

1.12 Off-Street Parking for Employees, Contractors and Sub-Contractors

All employees, contractors and sub-contractors are to park within parking spaces available on-street and on-site where available.

1.13 Traffic Management Guidelines and Principals

The Project Manager will ensure that the guidelines for traffic / pedestrians management that will be in effect over the entire duration of the constructions and development works are in full accordance with the following principles:

- Provision of a convenient and appropriate environment for pedestrians;
- Minimise effects on pedestrian movements and amenity;
- Maintain appropriate capacity for pedestrians at all times along the street frontage;
- Manage and control all construction traffic movements on the adjacent road network and vehicle movements to and from the construction site;
- Maintain traffic capacity at intersections and mid-block in the vicinity of the site;
- Maintain existing on-street parking in the vicinity of the site where practical;
- Maintain access to residential and commercial properties adjacent to the site;
- Maintain access to other construction sites adjacent to the site;
- Restrict heavy vehicle activity to designated truck routes through the area;
- Fastidiously maintain the upmost safety for all residents and workers directly affected by the development works;
- Provide appropriate access to the site for construction traffic;
- Construction vehicles, associated with the construction process, will be accommodated on-site as much as possible;
- Pedestrian movements adjacent to the construction activity to be protected with the erection of 'A Class' fencing, containment fencing and all required signage and ramping provisions; and
- Pedestrian movements across the construction access driveway to be managed and controlled by qualified site personnel when the driveway is in use.

1.14 Traffic Routes and Hours of Work

The Project Manager will be responsible for the communication and general control of sub-contractors and visitors associated with the development.

In the event that there is an activity / requirement to undertake work outside these approved construction hours, approval from Council and all other relevant authorities will be sought prior to the activities taking place.

The targeted compliance, communication and control of "hours of operation" will avoid truck movements during the early morning and evening periods throughout the surrounding areas.

To facilitate an efficient program, the arrival and departure of trucks associated with construction works will be regulated and on-site works will be carefully managed and controlled by site personnel. Trucks will be in radio communication with the on-site Contractor and trucks will be called onto the site when required.

The Project Manager will notify all drivers that trucks should, at no time during construction, park and wait on-street within local residential streets in the vicinity of the site.

The designated truck routes to and from the site are proposed to restrict truck traffic to the main road network through the area. In particular, these truck routes are proposed to prevent trucks accessing local roads. Truck drivers will be inducted and advised of the designated truck routes to and from the site.

1.15 Vehicle Movements upon Arrival/Exit

The arrival and departure of trucks to and from the site and pedestrian movements adjacent to the construction activity will be carefully managed and controlled by qualified traffic controllers. These personnel will manage the movement of construction vehicles to and from the site.

Truck drivers will be inducted and advised of the presence of the traffic controller, and that they must observe his or her direction at all times. All traffic controllers will be fully qualified with the relevant RTA Traffic Controllers qualifications.

All traffic controllers and work personnel will be required to wear high visibility fluorescent safety vests and Personnel Protective Equipment (PPE). Wet weather clothing will be made of fluorescent high visibility material.

All trucks leaving the site will be loaded to prescribed weight limits and loose material will be covered during transport from the site. Loose material will be removed from all vehicles and / or machinery before leaving the site and entering the road system.

1.16 Site Personnel and Pedestrians

During the period of construction, pedestrian movements in the vicinity of the site will be maintained. Pedestrian activity on Middle Harbour Road will be protected with construction fencing along the whole site frontage.

During external roadworks, traffic and pedestrians are to be managed as per the council approved Traffic Control Plan.

6. APPENDICES

APPENDIX A – EROSION AND SEDIMENT CONTROL PLAN