

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

HORIZON NEWCASTLE

BLOC CONSTRUCTIONS (NSW) PTY LIMITED

| Issue | Description | Approved By | Signed | Date |
|-------|-------------|--------------|--------|-----------|
| V1 | CEMP | Peter Bowyer | | 26/4/2019 |
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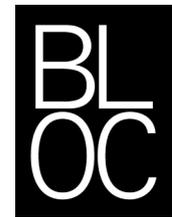


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1. Introduction

This plan sets out the proposed environmental management requirements for the site works of Horizon Newcastle Apartments (the Project).

This Construction Environmental Management Plan (CEMP) is a preliminary plan which has been prepared to outline of the processes to be employed during construction of this project.

The Project will be under the control of Bloc Constructions (Bloc) who is appointed as the Contractor Manager.

The CEMP applies to the Project, including but not limited to:

The construction of a mixed-use development consisting of 1 x nine-storey tower, 2 x eight-storey towers, and 2 levels of basement carparking, consisting of 110 residential units, five ground floor retail/commercial occupancies and 212 carparks.

Mobile powered plant and equipment that will be used during the construction phase will include; excavators, grader, posi track, dump trucks, water carts, truck and dogs, roller and compactors, pilling rig, Franna crane, slew crane, tower cranes, Alimak, tele handlers.

An Environmental Impact Statement has been prepared by ADE for the Project.

The forecast commencement date for the project is 30/4/2020, project duration is approximately 18 months with a hand over date on the 20/12/21 (approx.)



2. Contractor Details

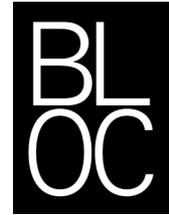
| | |
|----------------|---|
| Name | Bloc Constructions (NSW) Pty Limited |
| ABN | 86 626 902 967 |
| Address | Unit 9, 18 National Circuit, Barton ACT, 2600 |
| Postal Address | PO Box 4769, Kingston ACT, 2604 |
| Phone | 02 6162 1673 |
| Fax | 0261621675 |
| Email | info@bloc.com.au |

Table 1 - Contractor Details

2.1. Personnel Contact Numbers

| Position | Name | Contact Number | Email |
|----------------------|-------------------|----------------|-------------------------------|
| Site Manager | TBA | | |
| Project Manager | TBA | | |
| Construction Manager | Peter Bowyer | 0421087841 | peter.bowyer@bloc.com.au |
| Site Safety | Anthony Trojkovic | 0408610357 | anthony.trojkovic@bloc.com.au |
| Safety Manager | Allan Dillon | 0407586772 | allan.dillon@bloc.com.au |
| Foreman | TBA | | |
| Site Engineer | TBA | | |

Table 2 - Personnel Contact Numbers



3. Environmental Policy

BLOC WHS&E MANAGEMENT PLAN



ENVIRONMENTAL POLICY STATEMENT

At BLOC, we are committed to ensuring that all activities resulting from its business / operations are carried out in such a manner as to either eliminate, control or minimize the impact on the immediate and wider environment.

"It is the policy of BLOC to continually improve its environmental management, to prevent pollution and to ensure that all workplaces are free of environmental incidents which impact on air, water, soil, natural resources, flora, fauna and people".

This commitment is realised by specific environmental accountability written into manager positions within the company. Environmental performance will be regularly reviewed and targets and objectives are adjusted to maintain continual improvement.

Our principle environmental objectives are, as is far as is reasonably practicable, to:

- place the protection of the environment, as one of its highest priorities;
- maintain compliance with applicable environmental statutory legal requirements;
- promote a positive culture of environmental awareness; and
- strive for continual improvement in the prevention of pollution.

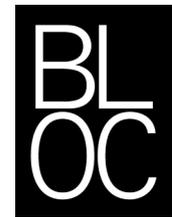
To achieve the environmental objectives BLOC shall:

- take into account of relevant health, safety and environment standards, codes, guides and good practices in environmental procedures;
- operate in compliance with appropriate environmental laws and principles;
- establish and review environmental objectives and targets appropriate to the organisation's activities, products and services;
- provide training to ensure staff understand and implement this policy;
- provide verifiable evidence of the fulfilment of this policy through a program of monitoring and audits and regular reporting of results;
- ensure that all its activities comply with the WHS&EMP;
- maintain ISO 14001 compliance and certification;
- provide on-going dialogue with BLOC staff, employees, client stakeholders and the community, as required, on this policy and its implementation and
- make this policy available to those persons as listed above.

"BLOC recognises the co-operation of all employees, contractors and visitors while on BLOC sites is paramount to the success of BLOC's environmental endeavours and the implementation of this Environmental Policy"

| | | | | | |
|---------------|-----------------------|----------------|--------------------|-----------|-----------------|
| Director..... | <i>Mark Bowyer</i> | Signature..... | <i>[Signature]</i> | Date..... | <i>10/12/16</i> |
| Director..... | <i>MAURIZ BOSS</i> | Signature..... | <i>[Signature]</i> | Date..... | <i>12/12/16</i> |
| Director..... | <i>DREW MATTHEIAS</i> | Signature..... | <i>[Signature]</i> | Date..... | <i>10/12/16</i> |
| Director..... | <i>ANDREW KEOWIN</i> | Signature..... | <i>[Signature]</i> | Date..... | <i>12/12/16</i> |

Figure 1 - Environmental Policy



4. Training

Training in the requirements of the CEMP will be provided to all workers representing Bloc on the project.

Refresher training will be provided as required. Bloc has implemented a consultative process that involves all workers and is used for the identification of problems, hazards and risks that may arise during the course of a project. If a worker feels these conditions may affect the environment, then they must be discussed with the Site Supervisor/Manager without delay.

All site personnel shall be advised should any changes be made to the CEMP and training given, if necessary, in the detail as it affects site environmental practices and procedures.

5. Site Specific Environmental Issues

5.1. Erosion and Settlement Control

| | | | |
|-------------------------------|--|-----------------------|----------------------------------|
| Objective | To manage construction activities with the potential to cause erosion and the release of sediment. | | |
| Actions | Requirements | Responsibility | Timing |
| | Installation of cattle grid/wash pit at exit point | Site Manager | Prior to construction commencing |
| Performance Indicators | No mud/dirt visible on public roads due to construction works | Site Manager | Throughout construction works |
| Monitoring | Daily visual inspections of works site and all erosion and sediment controls | Site Manager | Throughout construction works |
| Reporting | Reporting to site manager and PBPL | All staff | Throughout construction works |
| | Any reporting to Department of Environment and Heritage Protection | PBPL | Throughout construction works |
| Corrective Actions | Corrective actions and implementation time frame (case by case basis) | Site Manager | Throughout construction works |

Table 3 – Erosion and Sediment Controls

5.1.1. Typical Sediment Control Options

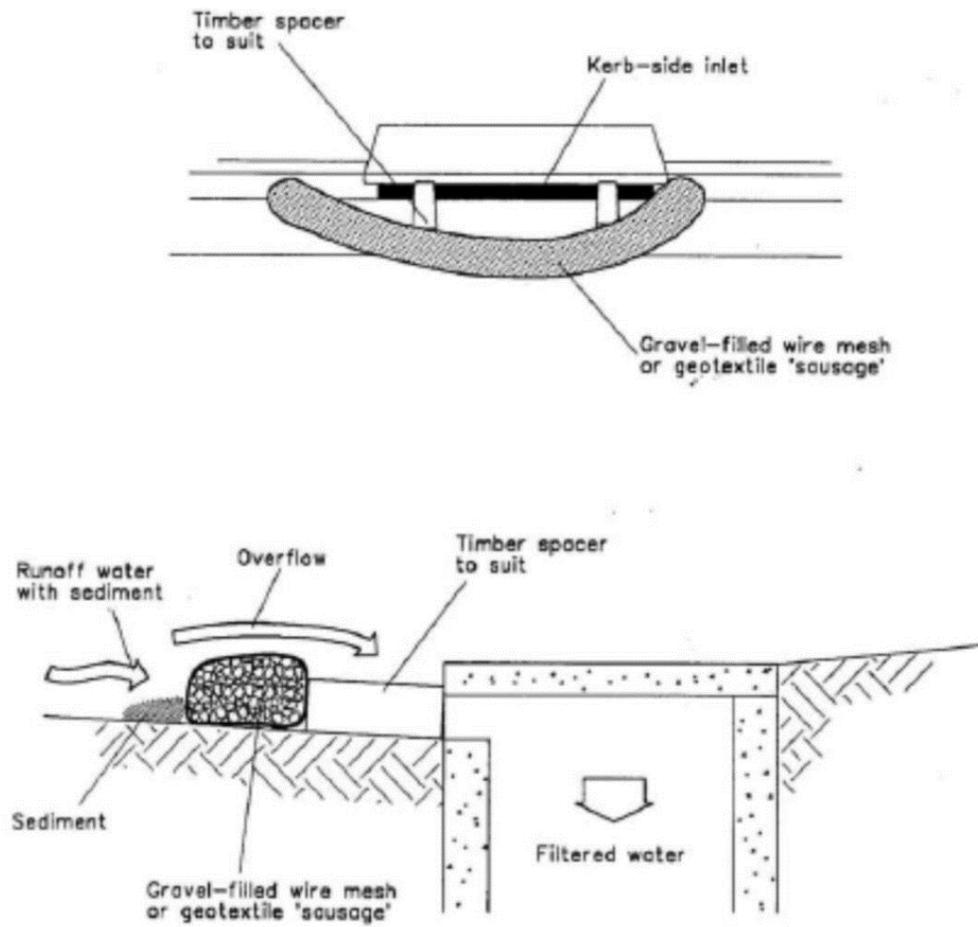


Figure 2 - Typical Sediment Control Options

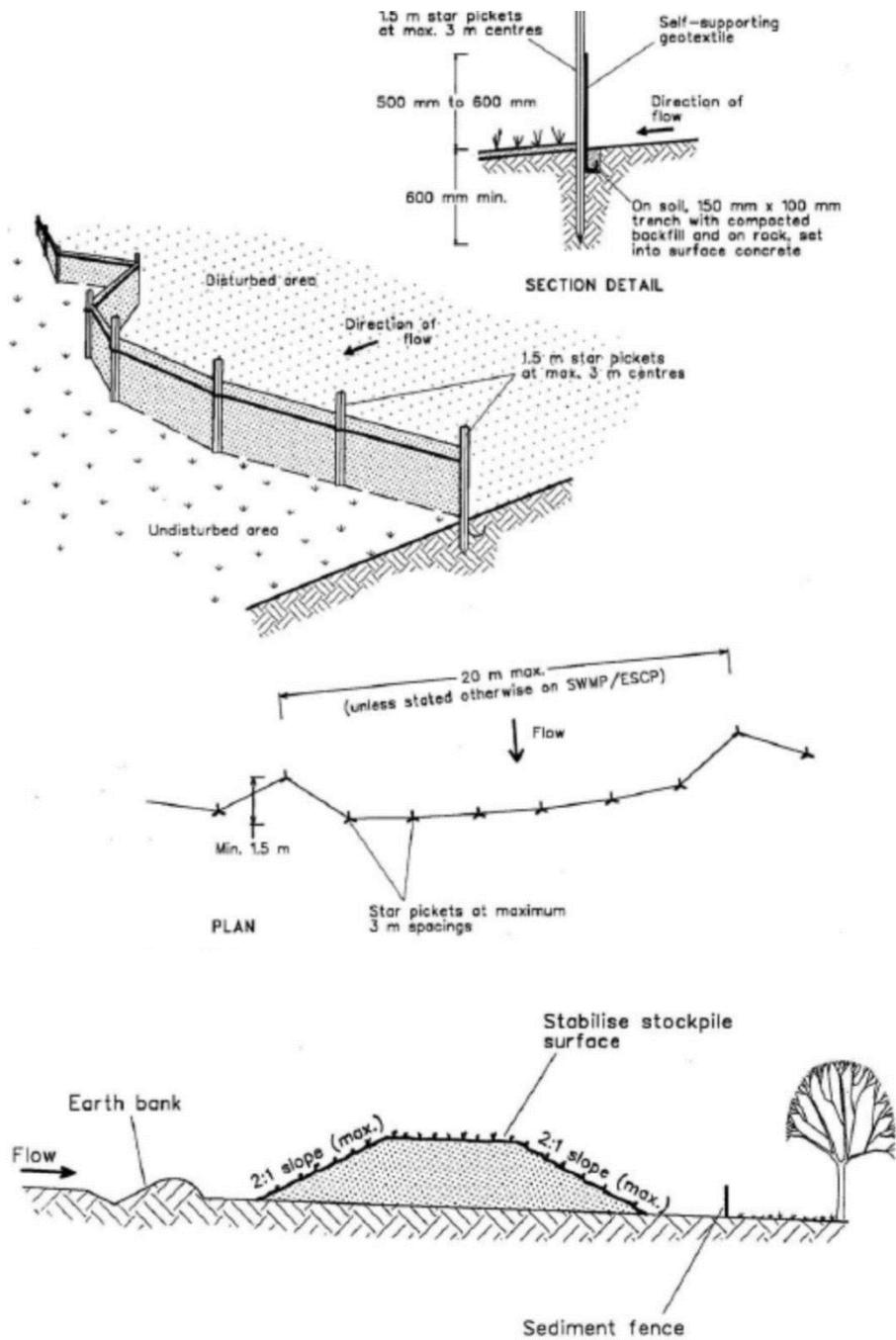


Figure 3 - Typical Sediment Control Options



5.2. Soil and Water Quality

Soil and water quality impacts associated with the project are to be managed accordingly during works. The potential impacts include:

- Excavation during earthworks may expose erosive soils which may lead to sediment runoff;
- Stockpiled soils may produce runoff during rain events; and
- Dirt from vehicle tyres may lead to sedimentation of street storm watersystems.

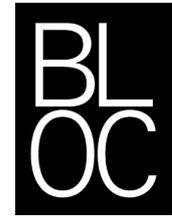
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| Objective | <ul style="list-style-type: none">• To minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during construction activities. |
| Statutory Requirements | <ul style="list-style-type: none">• Guidelines contained in the Australian and New Zealand guidelines for fresh and marine water quality (2000) published by ANZECC.• Projection of the Environment Operations Act 1997 no. 156.• Soil Conservation Act 1938 No 10. |
| Performance Criteria | <ul style="list-style-type: none">• No turbid waters entering storm water systems or local waterways.• Adherence to relevant legislation. |
| Mitigation Measures | <ul style="list-style-type: none">• Identification of the construction activities that could cause soil erosion or discharge sediment or water pollutants from the site.• Identification of all storm water drains and pits on site assessment of required sediment controls.• Sediment control devices will be installed before works commence, to prevent impacts on local storm water system. Sediment controls to be maintain and regularly inspected as part of the WHSE Site Inspection Checklist and after rain events.• Areas of bare surfaces will be minimised during construction and stabilised as soon as practicable.• Storm water will be diverted around stockpiles and bare areas to prevent sediment build up.• Construction vehicles will use sealed roads wherever possible to prevent any loss of load, whether dust, liquid or soils.• All vehicles tyres to be clean before exiting the site. |

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| Monitoring | <ul style="list-style-type: none"> • The effectiveness of the sediment and erosion control system will be monitored using the WHSE Site Inspection Checklist. • The quality of surface water discharges from site will be monitored visually during and after rainfall events by the Bloc Project Manager/Site Supervisor and Environmental Consultant to establish if further controls are necessary. The monitoring frequency shall be determined on a case by case basis by the Environmental Consultant. |
| Responsible Person | <ul style="list-style-type: none"> • Individual sub-contractor Project Managers are responsible for activities and areas under their control. • Bloc Project Manager/Site Supervisor are responsible for ensuring sub-contractors comply with these provisions and the guidelines contained in this CEMP. |
| Reporting | <ul style="list-style-type: none"> • The Bloc Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause material environmental harm or breaches regulatory requirements to the Bloc Project Manager as soon as possible. |
| Corrective Actions | <ul style="list-style-type: none"> • Should an incident in relation to discharge water quality occur, one or more of the following corrective actions shall be implemented by Bloc as considered appropriate: <ul style="list-style-type: none"> • An investigation will be undertaken by the Project Manager to determine the cause of incident; • The work practices for the activity shall be modified as necessary to reduce erosion / pollution, sedimentation or turbidity; • If water containment structures or sediment control devices are not operating effectively, they will be repaired or replaced. Sediment will be removed immediately following rainfall events when the operating capacity of the devices is impaired. |

Table 4 – Soil and Water Quality

5.3. Storm Water Runoff - Buildings and Sealed Areas

Existing storm water infrastructure (down piping, shallow drains) will be maintained until removed as part of demolition or remediation works. Where there are former services linking to these areas that cannot be removed, they will either be capped off, or allowed to drain with appropriate sediment controls such as geo fabric, silt fences, sandbags, hay bales and silt traps (whatever is appropriate)



5.4. Excavation Water

Any water that is collected will be tested according to ANZECC Guidelines by the Environmental Consultant and the following will occur:

- If contaminated and unsuitable for discharge as trade waste, water will be pumped out by a vacuum truck and disposed of off-site at a licensed facility upon approval by the client or representative;
- If meets trade waste criteria, will be pumped to wastewater treatment plant;
- If free of contaminants, it may be reused on site for dust suppression.

5.5. Contaminated Stock Piles

Contaminated stockpiles will be situated on hardstand areas wherever possible. Stockpiles will be appropriately bunted with sediment controls to minimise sediment transport and runoff from occurring. Any collected runoff will be assessed by the Environmental Consultant.

5.6. Air Quality

Air quality will be monitored from the commencement of soil disturbing works associated with project activities. In addition, air quality monitoring for asbestos fibres will be undertaken during asbestos removal works. Activities that may generate dust include:

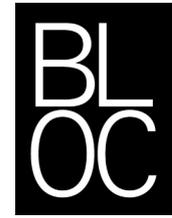
- Plant, truck and vehicle movements
- Excavation and reinstatement
- Pump, generator and other engine operation

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| Objective | <ul style="list-style-type: none">• To conduct works in a manner that minimises dust emissions from the site, including wind-blown and traffic-generated dust.• To undertake all construction activities with the objective of preventing visible emissions of dust from the site.• To identify and implement all practicable dust mitigation measures, including cessation of relevant works, as appropriate, such that emissions of visible dust cease should visible dust emissions occur at any time.• To meet the relevant air quality standards for preventing degradation of ambient air quality and nuisance to adjoining properties during construction and transport activities. |
| Statutory Requirements | <ul style="list-style-type: none">• Protection of the Environment Operations (Clean Air) Regulation 2010 |

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| Performance Criteria | <ul style="list-style-type: none"> • No significant quantities of visible dust blowing onto adjoining sites. • No complaints from nearby residents. |
| Mitigation Measures | <ul style="list-style-type: none"> • Dust emissions will be controlled by the use of water spraying when required. • Dust screens will be used at the perimeter of the site where applicable. • Heavy vehicles entering and leaving the site will be covered at all times. • Works involving potential dust generating activities will be scheduled to avoid gale wind forces (above 63km/hr.) when possible. • Vehicle and machinery movements during the construction works will be restricted to designated areas. • Vehicle speed limits of 10km/hr. will be imposed on all vehicles on site. • Equipment will be operated in a proper, efficient and correct manner which includes proper maintenance in order to minimise exhaust emissions. • Should visible dust emissions occur at any time, works generating the dust emissions will cease, so that emissions of visible dust cease. • Asphalt and concrete paved areas will be maintained during the demolition and recycling works to minimise the extent of exposed soil generation of dust both on and off site. Unsealed haul roads will be appropriately sealed to prevent dust generation. • During the removal of asbestos containing materials at the site, strict adherence with regulatory guidelines will be required to ensure that no asbestos fibres are released into the atmosphere. • Air quality monitoring for asbestos fibres will be undertaken at the boundaries of works being conducted (or as determined by the Occupational Hygienist engaged by Bloc to conduct the monitoring) during the asbestos removal works. Monitoring locations will be dependent on the site activities and environmental conditions. • Odour emissions from the site which could adversely affect air-quality, or the amenity of the local area are to be monitored. • The areas exposed during demolition (dust or odour generating) at any one time will be minimised wherever possible by undertakings works in a localised progressive manner over the site; and • Weather forecasts will be checked daily to program works for the following day. |

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| Monitoring | <ul style="list-style-type: none"> • Daily and weekly visual surveillance of dust emissions, dust controls, plant emissions. • Weather and physical parameters such as wind speed, rain, temperature and humidity will be utilised to assist in programming works (impact of rain and wind conditions on site) or works will not be conducted during periods of rainfall where there is the potential to generate runoff, or where heavy rain is forecast. Weather data (such as wind direction) will also be used where complaints are received in relation to dust or noise. |
| Responsible Person | <ul style="list-style-type: none"> • Individual sub-contractor Project Managers are responsible for activities and areas under their control. • Site Supervisors are responsible for ensuring sub-contractors comply with these provisions and the guidelines contained in this Construction Environmental Management Plan (CEMP). |
| Reporting | <ul style="list-style-type: none"> • If any asbestos air monitoring is required during demolition or remediation, these results will be made available to all workers on site as soon as practicably possible. |
| Corrective Actions | <p>Should an incident occur in relation to fugitive dust emissions from project activities, one or more of the following corrective actions will be implemented by Bloc as appropriate:</p> <ol style="list-style-type: none"> 1. Undertake an investigation to determine the cause of the problem and assess processes to identify any significant sources of emissions and if required, modify activities/processes; 2. Increase the use of dust control measures such as water spraying; 3. Undertake additional monitoring if required. |

Table 5 – Air Quality



5.7. Noise and Vibration

Potential noise impacts associated with the project are to be managed during the works. The potential impacts include noise emissions due to on site activities such as:

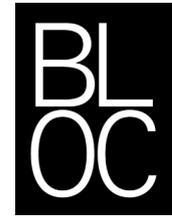
- Plant, truck and vehicle movements
- Excavation and reinstatement
- Pump, generator and other engine operation

To manage noise emissions at the site, a Construction Noise and Vibration Management Sub Plan (below) has been developed.

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| Objective | <ul style="list-style-type: none"> • To meet appropriate noise standards so as to minimise any impacts of the works on noise sensitive land uses. • To only undertake construction activities associated with the works that will generate an audible noise at any residential premises during the approved hours. |
| Statutory Requirements | <ul style="list-style-type: none"> • Australian Standard AS 2436 Guide to noise control on construction, demolition and maintenance sites. |
| Performance Criteria | <ul style="list-style-type: none"> • Undertake works in accordance with Australian Standard AS 2436 Guide to noise control on construction, demolition and maintenance sites and state guidelines. |
| Mitigation Measures | <ul style="list-style-type: none"> • Normal hours of work will be between 7.00am and 5.00pm Monday to Friday and 8.00am to 1.00pm on Saturdays. No work shall be conducted on Sundays or public holidays or outside the above hours. • Where possible, all site noise sources will have a maximum operating noise level of 85db (A). • The conditions of exhaust systems on the excavators and other heavy machinery will be assessed to ensure that they are operating efficiently. • If generators or pumps are required for use on the site, they will be properly shrouded to reduce emitted noise levels. It is noted that dewatering pumps and water treatment systems will more than likely require to be operated continuously. • Maintenance and repairs being undertaken outside normal working works provided that it is done as far as away from occupied premises as possible, no heavy machinery is involved, and noise generated is inaudible at noise sensitive premises. • An Environmental Complaints Register will be maintained to ensure |

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| | <p>that any concerns of local residents and members of the public are recorded and addressed.</p> <ul style="list-style-type: none"> • Concerns over noise generation will be communicated to all site personnel and sub- contractors during site inductions. • Any works which may cause excessive vibration (such as hammering or compaction) will be restricted as much as possible against neighbouring properties. |
| Monitoring | <ul style="list-style-type: none"> • A hand-held noise monitor may be utilised to gauge point source readings and by site staff whilst observing works. |
| Responsible Person | <ul style="list-style-type: none"> • The site Manager is responsible for activities and areas under their control and will identify and manage any activity that has the potential for noise emissions that exceed the performance noise criteria. • Individual sub-contractor supervisors shall implement all reasonable and feasible noise mitigation and management measures with the aim of achieving the construction noise criteria. |
| Reporting | <ul style="list-style-type: none"> • The Site Supervisor is responsible for inspections and non-conformance reporting to the Project Manager. • The Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause material environmental harm or breaches requirements to the Project Manager as soon as possible. |
| Corrective Actions | <p>In the event of a complaint or failure to comply with the relevant guidelines of the Project Approval, the following corrective / preventative actions shall be taken by the Project Manager:</p> <ul style="list-style-type: none"> • An investigation shall be undertaken to determine the cause of the problem or non- conformance; • Measure sound power and pressure levels emitted from equipment identified as the likely source of the problem and review possible mitigation techniques; and • Modify work practices as necessary to reduce the duration or level of noise. |

Table 6 – Noise and Vibrations



5.8. Hazardous Substances

The storage and use of designated hazardous substances is controlled by state legislation and relevant codes of practice. It is Bloc's objective to ensure that no personnel are put at risk by the careless use of hazardous substances.

Prior to hazardous substances being used on a project, the Project Manager shall obtain a relevant Safety Data Sheet (SDS) and seek approval from Bloc before bringing it on site.

No substances will be brought on site without a relevant Safety Data Sheet. A risk assessment must also be carried for each individual hazardous substance.

PPE including gloves and protective clothing must be worn according to the SDS for the product.

All hazardous substances brought on site will be listed in the project Substances Register and an SDS placed in the SDS Folder.

The Substances Register is to be maintained by the Site Supervisor / Site Safety Coordinator and is to list all substances expected to be used on site as well as record any unexpected substances brought onto site during the works. The register is to identify the status of the substance as being hazardous / dangerous, expected quantity, purpose / use and reference current valid SDS for the substance.

5.9. Contaminated Soil

Contaminated stockpiles will be situated on hardstand areas wherever possible. Stockpiles will be appropriately bunted with sediment controls to minimise sediment transport and runoff from occurring. Any collected runoff will be assessed by the Environmental Consultant.

| | | | |
|-------------------------------|---|---------------------------|-------------------------------|
| Objective | To manage construction activities with the potential to cause or disturb contaminated soil. | | |
| | Requirements | Responsibility | Timing |
| Actions | No contaminated fill material will be imported to site | Site Manager | Throughout construction works |
| Performance Indicators | Evidence of contaminated soil on site | Site Manager | Throughout construction works |
| Monitoring | Contamination sampling air monitoring | Site Manager / consultant | Throughout construction works |

| | | | |
|---------------------------|--|--------------|-------------------------------|
| Reporting | Reporting to site manager and PBPL | All staff | Throughout construction works |
| | Report to WorkCover NSW | PBPL | Throughout construction works |
| Corrective Actions | Engage a Workcover approved hygienist to conduct test pitting and removal of contaminated soil as per ARCP | Site Manager | Throughout construction works |

Table 7 – Contaminated Soils

5.10. Waste Management

| | |
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| Objective | <ul style="list-style-type: none"> To prevent or minimise any adverse environmental impacts from wastes during the work to minimise their generation, to maximise their reuse and recycling, and to ensure safe and lawful disposal of all waste. |
| Statutory Requirements | <ul style="list-style-type: none"> Waste Avoidance and Recovery Act 2001 No. 58 Protection of the Environment Operations (Waste) Regulation 2005 No. 497 |
| Performance Criteria | <ul style="list-style-type: none"> All waste material to be appropriately classified for reuse, recycling or offsite disposal. Waste to be disposed of lawfully. No complaints received in relation to waste management practices. |
| Mitigation Measures | <ul style="list-style-type: none"> All contaminated waste (as defined by Environmental Waste Guidelines) that may be encountered on site will be stored and disposed of in a manner that minimises the impacts of the waste on the environment, including appropriate segregation for storage and separate disposal by a licensed waste transporter. Asbestos waste will be removed according to relevant guidelines and disposed of at a licensed landfill by licensed transporter. Contaminated concrete or brick will be disposed of as per item 1 above. Recyclable wastes (scrap metal) will be transferred by a licensed waste carrier to an appropriate recycling facility where possible. Waste will be stored neatly in appropriate bins or stockpiles; in such a manner that storm water run-off does not come into contact with the waste. Contaminated soil will be managed as per the Soil and Water Management Plan. |

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| | <ul style="list-style-type: none"> • Bloc and sub-contractors working on the site would be informed of their responsibility to reduce waste where possible. • All personnel would receive instruction on what waste materials can be recycled and where the appropriate bins are located during the site induction. • Secure lids would be fitted to bins that store food waste to prevent scavenging by birds and animals. |
| Monitoring | <ul style="list-style-type: none"> • Soil sampling and waste classifications will be carried out by the Environmental Consultant. All waste disposed of will be recorded on ITR01 and waste docket. |
| Responsible Person | <ul style="list-style-type: none"> • Bloc Project Engineer/Site Supervisor are responsible for ensuring sub-contractors comply with these provisions and the guidelines contained in this CEMP. • The Bloc Project Manager/Project Engineer/Site Supervisor is responsible for compliance to the relevant regulations. |
| Reporting | <ul style="list-style-type: none"> • The Bloc Project Manager/Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause material environmental harm or breaches approval requirements. • All waste and stockpiles both on and off site will be tracked. • Landfill disposal dockets will be used for confirmation of tonnages and proof of lawful disposal. |
| Corrective Actions | <ul style="list-style-type: none"> • In the event of a failure to comply with this plan the Project Manager will: • Undertake an investigation to determine the cause; |
| Waste Management Sub Plan | |
| | <ul style="list-style-type: none"> • Modify any work practices or waste management procedures as necessary to improve nonhazardous waste management; and • Report the results of the investigation to the client. |

Table 8 – Waste Management

5.11. Flora and Fauna

| | |
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| Objective | <ul style="list-style-type: none"> • To minimise the impact of works on native flora and fauna. To comply with legislative requirements. • Minimise the spread of noxious weeds. |
| Statutory Requirements | <ul style="list-style-type: none"> • Native Vegetation Act 2003 no. 103 • Heritage Act 1977 No. 136 • Threatened Species Conservation Act 1995 No. 101 |
| Performance Criteria | <ul style="list-style-type: none"> • No impact on flora and fauna. |
| Mitigation Measures | <ul style="list-style-type: none"> • Identify and establish areas to be protected and control access. Define access tracks. • Wash wheels. • Implement silt fences and silt traps. Delineate areas that are native habitats. • If any native fauna is identified or injured, notify the client and WIRES immediately. |
| Monitoring | <ul style="list-style-type: none"> • Observation based monitoring will be carried and weekly inspections will be carried out to achieve the above. |
| Responsible Person | <ul style="list-style-type: none"> • The Site Supervisor is responsible for ensuring compliance with this sub plan. |
| Reporting | <ul style="list-style-type: none"> • The Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause harm to flora or fauna or breaches of regulatory requirements to the Bloc Project Manager as soon as possible. |
| Corrective Actions | <p>Should an incident in relation to flora or fauna occur, the following corrective actions shall be implemented by Bloc as considered appropriate:</p> <ul style="list-style-type: none"> • An investigation will be undertaken by the Project Manager to determine the cause of the incident; The work practices for the activity shall be modified as necessary to eliminate the risk. |

Table 9 – Flora and Fauna

5.12. Cultural Heritage

| | |
|-------------------------------|---|
| Objective | <ul style="list-style-type: none"> To prevent disturbance or damage to heritage artefacts during works. |
| Statutory Requirements | <ul style="list-style-type: none"> Heritage Act 1977 No. 136 |
| Performance Criteria | <ul style="list-style-type: none"> No unauthorised disturbance to cultural heritage material. No breach of protocols set out in relation to cultural heritage. No breach of relevant State or Federal Legislation. |
| Mitigation Measures | <ul style="list-style-type: none"> All personnel will attend a site induction that includes identification of heritage issues and requirements prior to the commencement of works (and/or the commencement of individual contracts). An exclusion zone and fencing will be installed around identified heritage items. If suspected indigenous or non-indigenous culturally significant material is found during works, work within 50 m must stop immediately, steps taken to prevent further disturbance, and the client notified, who will obtain expert advice from an appropriate qualified professional. Where culturally significant items are found on site, exclusion zones are to be established and clearly marked with tape, fencing or pegs. Only after written confirmation is given by the client in consultation with the relevant government agency, shall work recommence in the area. |
| Monitoring | <ul style="list-style-type: none"> Daily visual and weekly inspections of heritage protection items and protection fencing shall be conducted by the Site Supervisor when works are being carried out adjacent. |
| Responsible Person | <ul style="list-style-type: none"> The Site Supervisor is responsible for ensuring contractors comply with these provisions and the guidelines contained in this CEMP. The Bloc Project Manager is responsible for compliance to the relevant regulations. |
| Corrective Actions | <p>In the event of non-compliance with this sub-plan the following corrective actions shall be taken:</p> <ul style="list-style-type: none"> An investigation shall be undertaken to determine the cause; Work processes and practices shall be modified as necessary; Affected personnel shall undergo additional cultural heritage awareness training. |

Table 10 – Cultural Heritage



5.13. Traffic Management Plan

Traffic management relating to site access and egress as well as staging areas for truck deliveries and pedestrian movements will be conducted under the Bloc Constructions Construction Traffic Management Plan. Onsite traffic management will be conducted under this Traffic Management Sub Plan.

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| Objective | <ul style="list-style-type: none"> • To ensure maximum safety of on-site personnel and pedestrians and drivers. • To ensure that construction activities do not adversely impact or compromise safe traffic flow within the site. • To minimise environmental nuisance and impact as a result of construction traffic. • To ensure construction traffic does not interrupt existing traffic flows on local road network. |
| Statutory Requirements | <ul style="list-style-type: none"> • Road Transport Act 2013 |
| Performance Criteria | <ul style="list-style-type: none"> • No safety incidents. • Adherence to any relevant permits and/or license conditions. • No noise, dust complaints or complaints in relation to construction traffic from neighbouring property owners or residents in the local area. |
| Mitigation Measures | <ul style="list-style-type: none"> • All transport vehicles to have proper noise attenuation and to be maintained in good order. • Construction traffic would comply with construction noise limits and construction times to minimise noise impact on residents. • Queuing will be forbidden in local streets. Truck movements will be staggered to prevent queuing occurring. • Vehicle and machinery movements during works will be restricted to designated areas within the site; these areas will change as required by work progress. • Heavy and light vehicles will be separated by designated onsite parking for light vehicles and restricting the use of unnecessary light vehicles around heavy vehicle movements. • Oversize truck movements (predominantly floats) will only occur during approved hours and will not operate during peak traffic curfews. • Traffic will be confined to maintained site tracks and roads. • Internal construction road network would be designed to incorporate one-way traffic flow. |

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| | <ul style="list-style-type: none"> • All vehicles will be restricted to the onsite speed limit of 20 km/hr. • Off-road parking will be under the provisions of the Bloc CCTP. Due to space restrictions on site, construction vehicles and construction workforce vehicles will be parked offsite as directed. • Adequate room will be provided for vehicles to manoeuvre on the site. • All trucks on site will have fitted, and will maintain, reversing lights and reversing alarms for onsite safety. • In accordance with Air Quality Management Sub Plan, vehicles transporting material to and from the construction site will be covered immediately after loading (prior to traversing public roads) to prevent windblown dust emissions and spillages. • In the event of a spillage of materials from construction vehicles, spilled material will be removed as soon as practicable within the working day of the spillage. • Trucks will only be allowed to use designated arterial roads as discussed above. Trucks will not be allowed to use local roads in residential areas. |
| <p>Monitoring</p> | <ul style="list-style-type: none"> • Visual monitoring of all traffic movements on site will be carried out by the Project Engineer/Site Supervisor to ensure the safe movement of traffic and the protection of persons and property through and around the site. • Construction roads will be inspected to ensure road conditions support safe working and driving. • Following periods of heavy rain or adverse conditions, construction roads will be inspected prior to heavy vehicle traffic use to ensure driver and vehicle safety. • The site will be inspected to ensure signage and traffic barriers are in place, clearly visible, and performing their function in directing traffic and alerting drivers of safety issues. |
| <p>Responsible Person</p> | <ul style="list-style-type: none"> • Each individual sub-contractor is responsible for compliance with this plan, for vehicle and transport safety of personnel and vehicles under their control, and for ensuring the road safety of other on-site road users is not affected by the way in which the sub- contractor conducts its business. • Drivers of all vehicles on site are responsible for driving safely and exercising care. • The Bloc Project Manager/Site Supervisor is responsible for compliance to the relevant regulations and the provisions of the Project Approval. |



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| Reporting | <ul style="list-style-type: none"> • Any complaints from the general public will be investigated and reported as per the guidelines of this plan. • All off site truck movements will be logged on ITR01 displaying time, date, registration and destination. |
| Corrective Actions | <p>In the event of a site safety incident, the relevant sub-contractor or Bloc shall:</p> <ul style="list-style-type: none"> • Stop the vehicle/personnel involved in the incident immediately (or as appropriate), operate warning lights and warn other drivers to slow down; • Clear the spill in the event of a spillage – engaging appropriate safety standards as relevant to the event; • In the event of a complaint or failure to comply with this plan, the Bloc Project Manager will investigate the complaint promptly and initiate appropriate action to reduce impact as per guidelines in this CEMP: <ul style="list-style-type: none"> ○ Undertake an investigation to determine the cause; ○ Undertake monitoring if required; ○ Modify transportation practices as necessary to reduce the duration or level of impact; and • Report the results of the investigation the client. |

Table 11 – Traffic Management Plan

5.14. Environmental Complaints

Bloc will endeavour to ensure any complaints are dealt with adequately.

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| Objective | <ul style="list-style-type: none"> • Support the delivery of the works with minimum disruption and impacts to local communities and the environment; • Improving community understanding of the need and benefits of the project; • Being proactive and minimising risk to the client’s reputation. |
| Statutory Requirements | <ul style="list-style-type: none"> • AS ISO 10002 – Guidelines for complaint handling in organizations. |
| Performance Criteria | <ul style="list-style-type: none"> • All complaints formally registered. • During standard working hours or non-construction times. • After initial contact, respond verbally within 24 hours or earlier as possible. • During the night: verbal response before 9am the next morning or within 2 hours for emergencies. |



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| Responsible Person | <ul style="list-style-type: none"> The Bloc Project Manager, or in his absence the Bloc Site Supervisor is responsible for notifying all complaints to the client, documenting them and responding to and acting on the complaint to the satisfaction of the client. |
| Mitigation Measures | <ol style="list-style-type: none"> All community complaints and enquiries must be directed to the client. An Environmental Complaint Form will be completed, and complaints handled according to the procedure below: <ul style="list-style-type: none"> the date and time, where relevant, of the complaint; the means by which the complaint was made (telephone, email, in person); any personal details of the informant that were provided, or if no details were provided, a note to that effect; the nature of the complaint; record of operational and meteorological condition contributing to the complaint; any actions taken in relation to the complaint, including any follow-up contact with the complainant; and If no action was taken in relation to the complaint, the reasons why no action was taken. Complaints Escalation <ul style="list-style-type: none"> Wherever possible, disputes will be negotiated directly between the client, the community representative and the Bloc Project Manager. Failing resolution under the above a meeting will be convened between the Client, Bloc Project Manager and the community representative, mediated by an independent facilitator. The independent facilitator would be determined at the time and agreed upon by the client. The independent facilitator will be engaged to assist in a mutually agreeable solution. |
| Monitoring | <ul style="list-style-type: none"> Targeted monitoring dependent on the nature of the complaint. |
| Complaints Handling Procedure | |
| <p>A Final Report with proposed measures to prevent the occurrence of a similar incident will be submitted to the client.</p> | |
| Corrective Actions | <p>Corrective actions will be taken as soon possible depending on the nature of the complaint and followed up on the Incident Report.</p> <p>Should an incident of failure to comply occur in relation to the management of environmental complaints one or more of the following corrective actions will be undertaken as appropriate:</p> |

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| | <ul style="list-style-type: none"> • Conduct additional training of staff regarding complaint management; • Review procedure in light of shortfall. |
| Reporting | The client will be notified of any complaint as soon as possible after the complaint has been lodged. An incident report will be completed for complaints about any environmental issue, including pollution, arising from the works as well as an Environmental Complaints Form. The Report will provide details of the complaint and the action taken to alleviate the problem. |

Table 12 – Environmental Complaints

5.15. Work Place Environmental Monitoring

Work environments requiring monitoring on this project include:

| Type of Monitoring | Applicable Yes/No | Situation / Trade or Stage of Works | Comment |
|--------------------------------------|--------------------------|--|------------------------------|
| Air Monitoring / Asbestos | Yes | Bulk excavation/asbestos removal | Undertaken as required |
| Dust | Yes | Dry or dusty conditions Excavation activities | Undertaken as required |
| Atmospheric / Oxygen / Gas detection | No | | As per confined space permit |
| Noise / Vibration | Yes | During plant and vehicle movements During excavation works During operation of pumps | Undertaken as required |

Table 13 – Workplace Environmental Monitoring

Further details of control for risks associated with these environments are outlined in the Project WHS and Environmental Risk Assessment/Register and SWMS for relevant activities. Records of the results of any monitoring are maintained as part of the control requirements of various monitoring activities.



5.16. Inspection Measuring and Test Equipment

Inspection, measuring and test equipment related to health and safety, such as air monitoring equipment is generally supplied by subcontract service providers and is not owned by Bloc.

Control over such equipment is managed on site by the Project Manager/Site Supervisor using the Calibrated Equipment Register.

The process of maintaining this register is to identify and record each item of safety measuring and test equipment (i.e. air monitoring equipment, gas detectors etc.) brought on site for use by the subcontractor and to verify its fitness for purpose through the supply of a relevant certificate of compliance, recent test / calibration result or similar.

5.17. Health Surveillance

No project specific health surveillance requirements have been identified.

5.18. Project Performance Management

Project subcontractor labour hour's information is collected, collated and maintained per project by the Project Manager or Project Engineer.

Project specific performance is compiled by the Project Manager. Project staff hours are principally recorded under the branch office and are allocated to the project report.

Safety Reporting is in three areas:

- a) Medical incidents including: First Aid / Medical Treatments / LTIs / Near Hits (Near Misses)
- b) Other Incidents including: Damage to Vehicle and Plant / Damage to Property / Near Hits (Near Misses) / other.
- c) Performance objectives against targets:
 - Daily consultation briefings – every day
 - Tool box talks - every week
 - WHS site inspections - every week
 - Subcontractor meetings - every fortnight
 - Plant checklists - before working every day
 - All workers inducted before starting
 - All incidents reported
 - All first aid incidents reported
 - All hazards identified, reported and controlled
 - All non-conformances closed out

Project WHS Performance data is reviewed monthly during Project Team Meetings.



Project Performance data measured across all projects and is reviewed monthly following the submission of online reports. This data is collated by the HSE Manager before a report is generated and forwarded to Senior Management for review at bi-monthly board meetings. Overall performance results are communicated back to all site and project management monthly by the HSE department. Trends are monitored during 6-month WHS Management System Review Meetings for company-wide policy decisions and corrective and preventive action.

6. Emergency Response

As soon as practicable after becoming aware of any emergency, incident or information about an environmental incident results or may result in environmental harm or risk to personnel or facilities on the site, ALL personnel must notify a Bloc site representative, at this point Bloc will notify the appropriate authorities. i.e., EPA, if applicable.

Sub-contractors will have available in all containers emergency spill kits to respond to manageable incidents such as minor spills and leaks.

7. Review

Scheduled auditing of the Integrated Management System includes internal project auditing. Internal reviews shall be carried out by trained auditors.

An audit of this project is scheduled for: TBA

In addition to scheduled reviews periodic assessments and reviews of the CEMP will be conducted by Project Management personnel where and when the need is identified. This is typically done when the job changes, new subcontractors are engaged, and the scope of work needs to be included in the HSE Plan. Copies of superseded plans will be retained for reference.