SOUTHPAC CONSTRUCTIONS

Building a way of life

Construction Methodology Plan

26-50 Park Rd, 27-47 Berry Rd, 48-54 River Rd, St Leonards NSW 2065 (Area 22 & 23)

21 November 2022

Table of Contents

1. Introduction

This plan outlines the proposed strategies to construct 318 residential apartments with 4 split levels of basement parking and associated external landscaping works on the site located on 26-50 Park Rd, 27-47 Berry Rd, 48-54 River Rd, St Leonards NSW 2065. The project comprises four buildings with different levels of 4, 6, 9 and 12 The is a proposed new road to be constructed across the site directing traffic from East to West direction.

The plan shall highlight the extent of the work including private and public domain works , site access, vertical man/materials transport, proposed locations of tower cranes , concrete stationary pump zones, material loading/unloading zones, site accommodation and the general methodology for construction of the proposed development.

A WHS Plan will be formulated and signed off by Senior Site Management prior to any construction works commencing on site. An outline of the Site Safety Plan contents is included.

This plan should be read in conjunction with the sketches included herein.

2. The Site

2.1 Extent of Work

The site forms the block of land enclosed by Berry Road to the East, Park Road to the West, River Road to the South and existing dwellings to the North.

A section of the existing Berry Lane within site will be extinguished. A proposed new road will be constructed across the site to provide access from Berry Road and Park Road.

2.2 Project Duration

The project duration will be approximately 18 months and anticipation completion date is dependent on the approval by the local authorities..

2.3 Hours of Work

The current documentation nominates the following hours of work. These work hours have been assumed for the master planning of the project:

Mon – Fri	7.00am to 5.30pm
Sat	8.00am to 3.00pm
Sun	Non-working

3. Site Establishment

3.1 Dilapidation Report

A full dilapidation report of adjoining properties will be undertaken by our consultant engineer prior to activities commencing on site.

3.2 Hoardings and Fencing

Jersey kerbs will be installed strategically to protect workers, pedestrians and vehicles movement along Berry and Park side. Temporary fencing, ie colorbond type will be erected around the site perimeter to the North and South sections of the site. +

It is anticipated that the site boundary fencing erected will remain throughout the entire construction phase.

3.3 Site Access, Site Accommodation and Amenities

All site personnel will access the site via a pedestrian gate installed on the North Eastern side of the development (Gate C) , allowing direct access to the Site Office which will be located at the North section of the site.

The site amenities for workers will be established in the North Section of the site. Initial site accommodation will be sufficient for groundworks and concrete structure. Additional sheds will be installed as the project progresses towards the finishes activities.

Trucks entry and egress gates (Gates A and B) will be installed at the entries on the new proposed road. Both the gates will be managed by licenced traffic controllers..

During the initial excavation, a temporary ramp will be constructed to provide truck access into the excavation zone. Cattle grid/shaker grid will be provided to prevent spoil leaving the site and located at the South West corner of the site. All trucks will exit via Park Road. We are aware of the community concern and will assist to alleviate any congestion to the vehicle movement on Berry, River and Park Roads.

3.4 Materials Handling

- Tower Crane and Mobile Crane

  One tower crane will be set up on the site.

  This location is ideal as it enables sufficient reach to service all proposed work faces. The crane location will also enable it to be erected and dismantled from new proposed road. The tower crane will be erected during construction of the

basement. Mobile crane will be used to assist with the construction of the buildings located in the South East and South West corners of the site

- Concrete Boom Pumps
  Concrete boom pumps will assist in the concrete placement. The locations will be setup to ensure safety of the workers and public are not compromised. Refer to the Site Establishment Plan

- Hoists/Builders' Lifts
  Due to anticipate heavy traffic up and down the buildings during construction, man/materials hoists will be erected.

  Upon completion the lifts installation, the lifts will be commissioned and used as builders' lift to complete the construction works.

- Deliveries
  Major deliveries to site will enter through the vehicular gate (A). All vehicles will enter and exit the site in a forward motion. Hence a right in right out policy will be enforced.

- Rubbish Removal
  Builder's waste bins will be placed within the site compound, located to the common areas at ground level. Waste will be transferred by use of bins located at each level of the building to the central collection area via the tower crane, man/mat hoist and possibly with rubbish chutes.

3.5 Construction Site Services

The construction site will require the use of power, water and sewer during the period of construction.

Power will be via a metered temporary main switchboards, installed and commissioned by the site electrical contractor. All temporary power required for site accommodation, amenities, plant and new construction activities will be fed from these temporary boards. The proposed temporary will be tapped from the existing source located in Park Road

Temporary water and sewer will be sourced by tapping into existing supply and infrastructure. The existing sewer line and tapping are located along Park Road. Water supply will be tapped from either Park or Berry Roads side as the DCW lines are in existence.

3.6 General Erosion & Sedimentation Control

All work shall be carried out to the complete satisfaction of the authority having jurisdiction over the works. The works are to completed as per the Civil Engineer's recommendations.

In addition Southpac Constructions will liaise and comply with the requirements of the Department of Conservation and Land Management (Soil Conservation Service) and the local Council.

4. Construction Sequencing

The construction of 26 Park Road project will be staged over four (4) main phases. These are summarised below and are reflected in attached Construction Staging Plans. All works will be constructed within the site and will not encroach onto public space or local authorities asset. .

Phase 1 – Excavation and Shoring Works

Upon completion of the demolition works and the subsequent diversion/termination of existing services , bulk excavation will commence accordingly. Access and egress of the site is via mainly entry/exit on South Section of the site. Ie for earthwork activities, material handlings and concrete deliveries. The path of travel for construction vehicles will follow the direction of traffic and traffic controllers will be provided as required to direct traffic flow throughout the excavation phase.

As the bulk excavation progresses, shoring and detailed excavation of pads and footing beams will commence subsequently. The loading of all excavation material will be carried out within the site compound.

Phase 2 – Basement Construction

The crane base will be established approximately on mid section of the site. This shall be done prior to the pouring of slab on ground, which will allow the tower crane to be erected as shown on the Site Establishment Plan. Concrete pumping zones and crane loading zone will be established for basement structure construction progressively.

Construction of the Basement Slab B4 will be staged over 12 separate pours. The Basement Slab B3 to B1 will be staged between 10 and 4 separate pours.

The Site compound will increase in capacity as additional lunch sheds, change rooms and ablution blocks are established to service the increasing workforce.

Phase 3 – Structure and Finishes

When the construction activities reach Ground Floor, being the final common floor 10 separate pours have been scheduled. Once the ground floor slabs are completed, perimeter scaffold will be erected to all the 4 individual buildings progressively.

In Summary, the construction of the 4 buildings will be built concurrently with Building A (BA) consisting of 25 slab pours (L1 to roof) , Building B (BB) with 20 slab pours (L1 to roof), Building C (BC) with 11 slab pours and Building D (BD) with 12 slab pours . The construction of the concrete slabs will be sequenced in order to maintain continuous man and material resource cycles throughout the project duration.

Construction vehicles will be permitted to access through via the entry gate 'A' at the new proposed road for all deliveries. Concrete pumping and general materials handling will predominantly occur within site compound as shown on the Site Establishment Plan.

As construction of the structure progresses up through the Buildings, formwork will be stripped progressively. Once stripped, floors will become available to commence the fit out and finishing trade construction.

Upon the completion of concrete placement to level 3 slabs on buildings A, B and D, man/materials hoists will be erected to each building starting at Level 1 and servicing the building vertically up to the roof. Perimeter scaffold will be erected to assist with safe access and material handlings to all part of buildings. To allow transfer of materials from truck to workface, loading platforms/decks shall be introduced to floors, which will allow additional flexibility of material handling for finishes trades and the completion of floor fit-out.

The temporary builder's lifts will commence upon completion of the lift shaft, and fit-out of the lifts. When the builder's lifts are in operation, the man/mat hoists will be removed, and enable for the completion of the façade to the balcony areas.

Following completion of the facades, removal of hoists, and loading of construction materials and plant, the tower cranes can be dismantled and removed to allow the final completion of external works on the perimeters of the site.

Phase 4 – External and Public Domain Works

Upon completion of the scaffold dismantling, the site fence will be readjusted around the perimeter of the building to separate the main building works from the external working areas.

External works including creation of new public access way Ie the new proposed road, all associated footpath construction , hard and soft landscaping works will be carried out and completed as final inspections and defects are attended to in the buildings. Finally all remaining fencing will be removed in preparation for handover.

The builder's compound will be removed from site and the area will be finished in accordance with the landscape plan.

Insert Site Establishment Plan and Phase 1

SITE ESTABLISHMENT PLAN

26-34 Park Road St Leonards NSW

LEGEND

- Site Amenities
- Material Storage
- Direction of traffic
- TC Tower Cranes Location
- MC Mobile Crane Location
- MH Man & Material Hoist
- Construction & Loading Zor
- GATE
- TEMPERARY HOARDING
- SITE FENCE
- WORK ZONE

REV	DESCRIPTION	DATE

JQZ-DESIGN

PROJECT

26-34 PARK ROAD
ST LEONARDS NSW

CLIENT

XXXX DEVELOPMENT P/L
RETAIL 24&25, 1 NIPPER STREET HOMEBU

DRAWING TITLE

CONSTRUCTION MANAGEMENT PLAI

DESIGN	SCALE	CHECKED
L.L	NFS	S.C.
JOB NO.	DRAWING No.	ISSUE
JQZ-SL-2	SL-2-CM-01	A

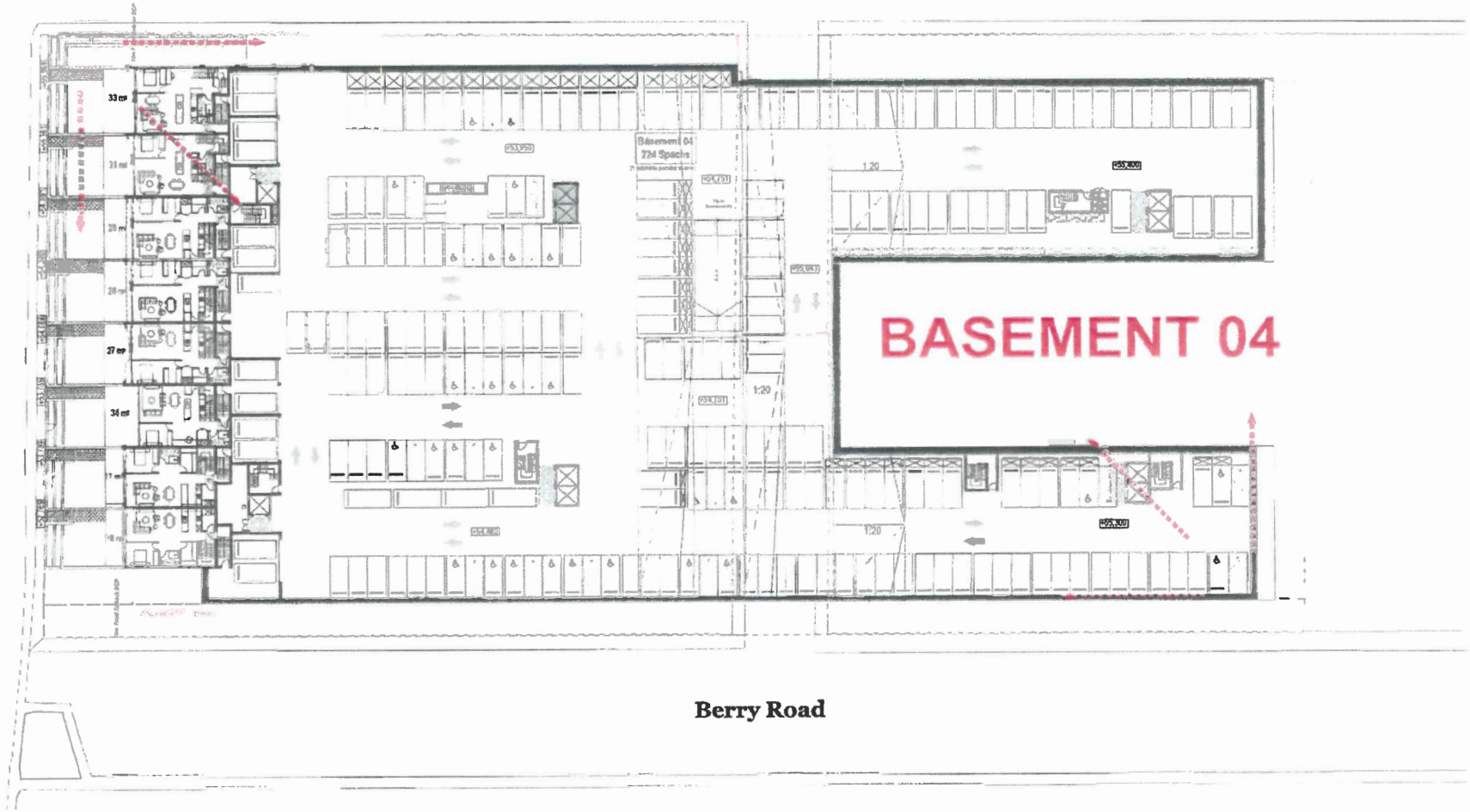
CONSULTANTS (cont)

AT PAPER SCALE 1:100 A3 PAPER SCALE 1:200

PHASE 1- SHORING WORKS & BULK EXCAVATION

Park Road

River Road



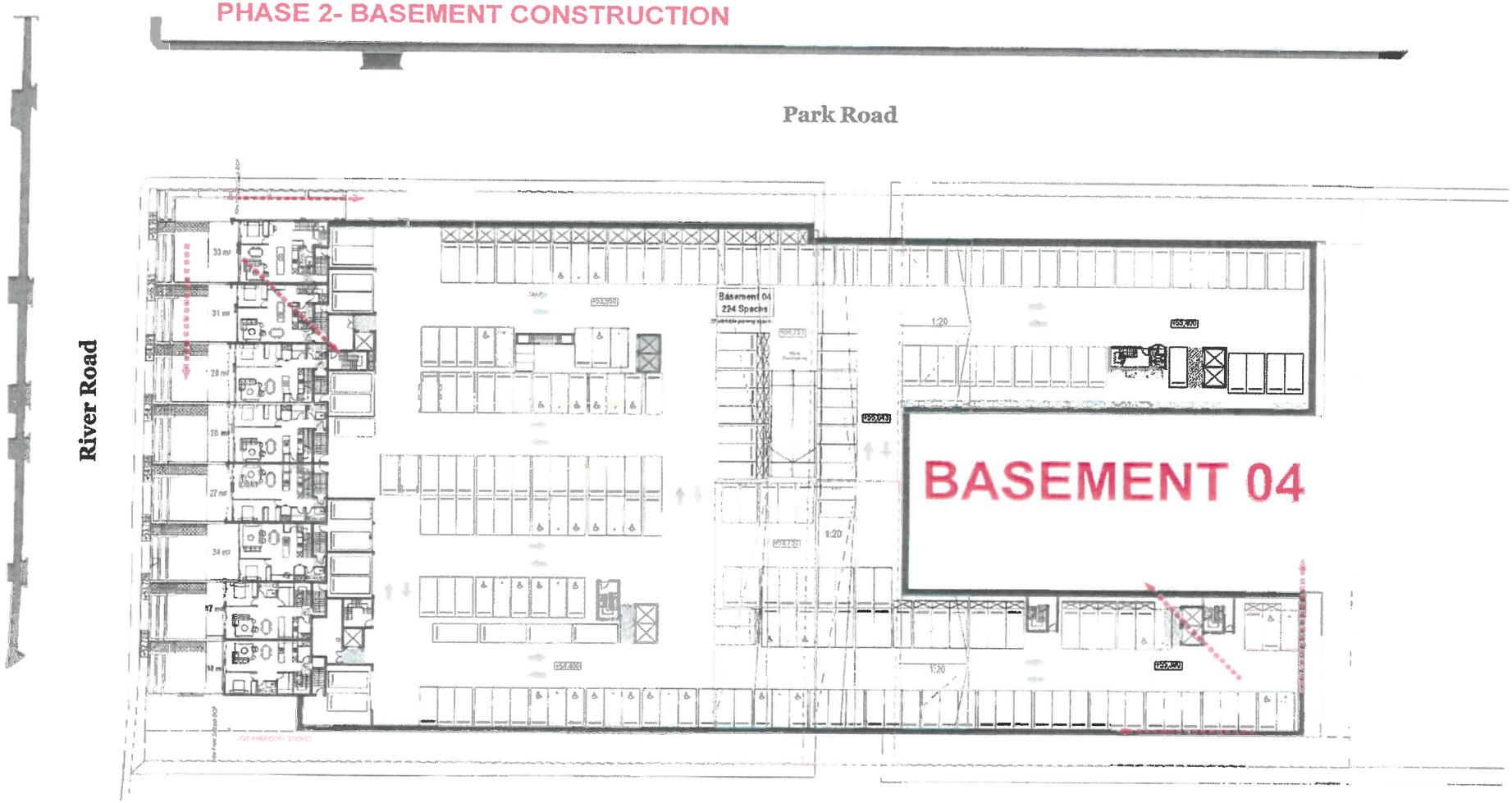
Berry Road

Insert CMP Phase 2

SITE ESTABLISHMENT PLAN

26-34 Park Road St Leonards NSW

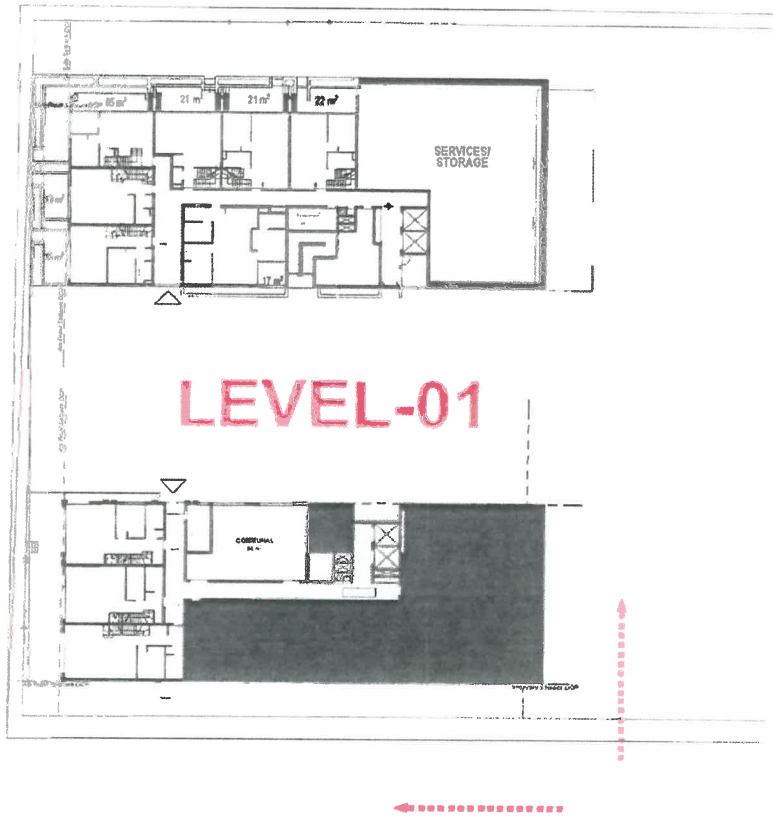
PHASE 2- BASEMENT CONSTRUCTION



Insert CMP Phase 3

26-34 Park Road St Leonards NSW

PHASE 3- STRUCTURE & FINISHING WORKS

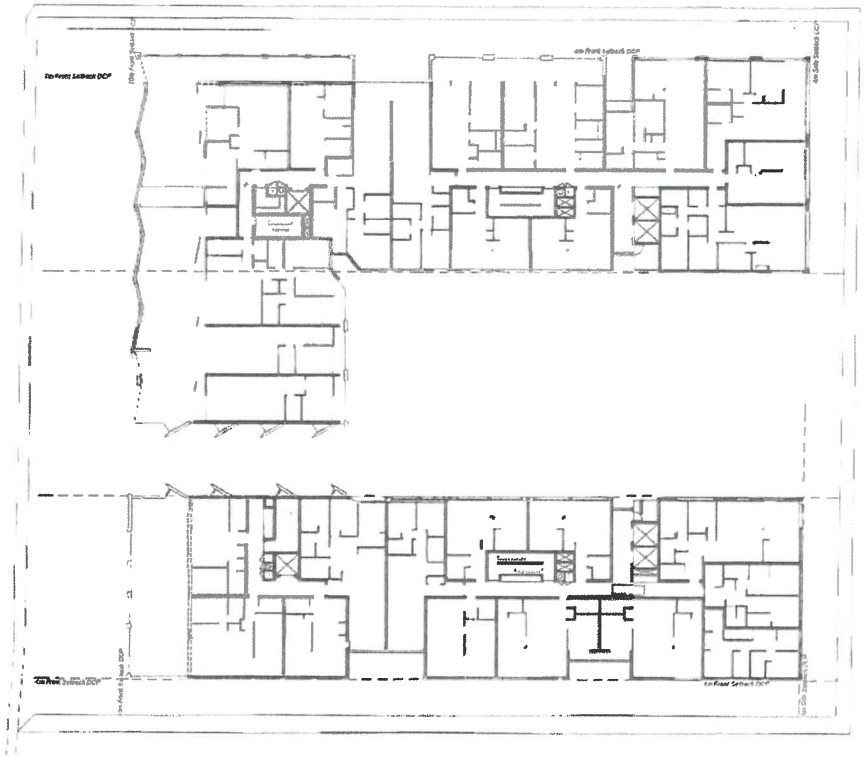


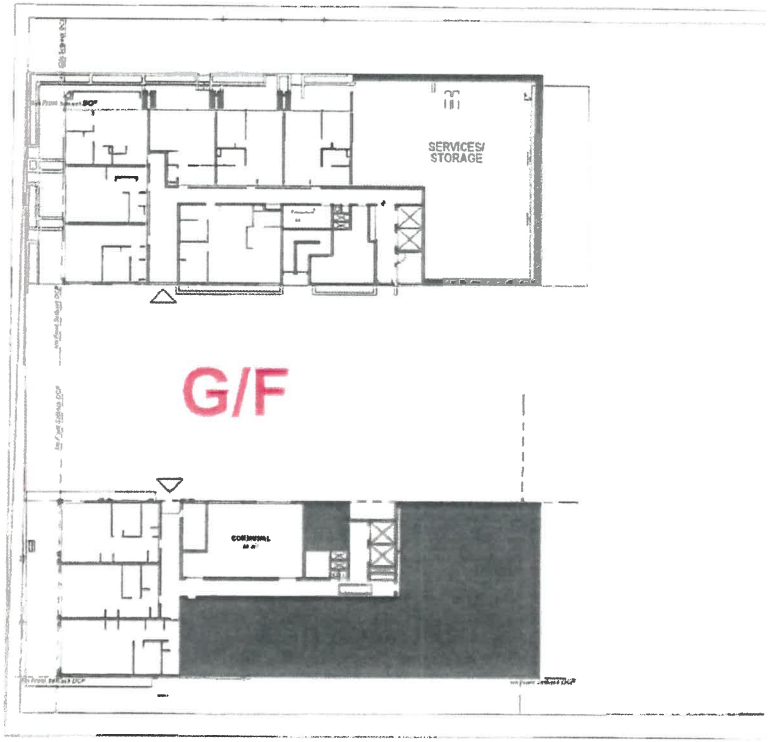
Insert CMP Phase 4

SITE ESTABLISHMENT PLAN

26-34 Park Road St Leonards NSW

PHASE 4- EXTERNAL WORKS & PUBLIC DOMAIN





5. Site WHS, Environment and Quality Plan

Prior to any works being undertaken on 26-50 Park Rd, 27-47 Berry Rd, 48-54 River Rd, St Leonards NSW 2065, a Site WHS Plan will be formulated and signed off by senior staff controlling the project. The Site WHS, environment and quality plan dovetails the company WHS Plan and outlines responsibilities, planning and controls during construction on the Emblem project.

Following is a list of contents which will be included in the Site WHS Management Plan.

Contents

Index WHS Forms/Checklists

SE-F-001 Safe Work Method Statement
SE-F-003 Incident Report & Investigation Form
SE-F-004 Emergency Response Plan Template
SE-F-005 Waste Stream Flow Chart
SE-F-006 Chain of Custody - Waste Transfer
SE-F-012 Safety Environment Walkaround Checklist
SE-F-013 Monthly Health Safety Report
SE-F-014 Work Clearance Permit 2pages
SE-F-015 Lifting Gear Checklist
SE-F-017 Permit to Excavate
SE-F-018 Record of Toolbox Meetings
SE-F-019 Oxy Acetylene Checklist
SE-F-020 Mobile Crane Inspection Report
SE-F-021 All Plant - Loader Excavator Inspection Report
SE-F-023 Concrete Pump Line Checklist
SE-F-024 Scaffolding ChecklistSE-F-022 Forklift Checklist
SE-F-025 Site Induction Attendance Record
SE-F-026 Induction Notes
SE-F-027 Continuous Improvement Action Register
SE-F-028 Safety Alert
SE-F-029 Manual Handling Risk Assessment
SE-F-030 SWMS Review Checklist
SE-F-031 Pre Start Muster Safety Talk
SE-F-032 Traffic Management Plan
SE-F-033 Near Hit Report
SE-F-034 Aspects & Impacts
SE-F-035 Objectives & Targets
SE-F-036 Contact and Complaint Register
SE-F-037 WHS Comm Safe Rep Site Inspection
SE-F-039 Confined Space Checklist & Log
SE-F-040 Compressor - Pump Checklist
SE-F-041 Hoist Checklist
SE-F-042 Lift Study
SE-F-043 Plant Equipment Register
SE-F-044 Project Hazard Register

6. Noise and Disruption Management

Demolition and construction activities which emit noise and vibration which could adversely affect neighbouring buildings will be monitored on a regular basis. If the effect of noise and vibration are become excessive a qualified acoustic and vibration consultant will be engaged to carry out test and formulate a report. This report will outline works criteria to assist Southpac Constructions in managing these potential excessive noise and vibration activities. An accredited consultant will be engaged to prepare a Construction Noise Management Plan which will be incorporated and formed part of the Construction Management Plan.

Currently a noise control plan has been formulated for demolition and excavation works only.

7. Traffic Control Plan

Prior to commencement of works on site, Southpac Constructions have engaged an accredited traffic consultant, MLA Transport Planning to conduct an assessment of traffic movements in the vicinity of the site and prepare a formal Construction Traffic Management Plan to be included within this Construction Management

Refer to Plans no. 22013r03C-221115 dated 15 Nov 2022 ie during the demolition and excavation stage and construction works.

- refer to attachment.

8. Dust Control Plan

Demolition, excavation and construction activities which emit dust which could adversely affect neighbouring buildings will be monitored on a regular basis. If the effect of dust are become excessive further consultancy with a qualified acoustic and vibration consultant will be required to carry out test and formulate a report. This report will outline works criteria to assist Southpac in managing these potential excessive dust and vibration activities. This report will be included within this Dust Control Plan prepared by Moits Pty Ltd.

MOITS

DOWN TO EARTH

ENVIRONMENTAL AND WASTE MANAGEMENT PLAN

JQZ

22 – 36 Park Rd St Leonards

ABN 76 074 571 510

142 Wicks Road Macquarie Park NSW 2113

PO Box 4037, Macquarie Centre, North Ryde NSW 2113

MOITS
DOWN TO EARTH

Safetymatters

Table of Contents

1.0 Document Control

Amendments to this Environmental Management Plan are approved by the HSEQ Manager and distributed to all holders of controlled copies.

Date	Name of Recipient	Organisation
13/09/22	Song Chuan	JQZ

Uncontrolled copies of this plan may be distributed to Moits personnel. However, these copies are not subject to automatic amendment and the receiver should verify currency of the document. Revisions to this Management Plan shall be made as required to reflect the current system requirements or the requirements of the Principal Contractor.

Revision	Date	Description	Page	Reviewed By	Approved By
1.0	Feb 18	New env and waste mgmt plan	All	Darren O'Dea	Darren O'Dea
2.0	Feb 21	Update to include additional client requirements	All	Darren O'Dea	Darren O'Dea
3.0	Apr 22	Update of Org Chart	6	Darren O'Dea	Darren O'Dea

2.0 Company Contact Details

Company Details	
Company Name	Moits
ABN	76 074 571 510
Address	142 Wicks Road Macquarie Park NSW 2113
Phone	02 8026 1700
Fax	
Email	info@moits.com.au

2.1 Site Contact Details

Name	Position/Role	Contact Number	Contact Email
Nick Chong Sun	Construction Manager	0477 262 555	nick.chongsun@moits.com.au
Brandon Antoon	Project Manager	0434 212 505	Brandon.antoon@Moits.com.au
Andrew Heath	Supervisor	0447 275 720	andrew.heath@moits.com.au

3.0 Environmental Policy

N Moit & Sons (NSW) Pty Ltd strongly believes that protecting our environment is not just a moral and legal responsibility but also an investment for our future and a prerequisite for us to achieve our primary mission of conducting demolition, excavation and civil construction to the highest standards. Moits will take all reasonable and practical steps to minimise the ecological footprint our activities place on the environment by:

- Ensuring compliance with all applicable environmental laws, regulations, standards and other requirements applicable to our operations and maintaining our Environmental Management System in accordance with ISO 14001.
- Ensuring all employees and contractors are fully aware of their environmental responsibilities and that they take reasonable care to avoid adversely impacting on the environment through any act or omissions at work.
- Implementing risk identification and hazard management systems which are relevant and suitable for Moits operational and business exposures.
- Maintaining relevant procedures, systems, information, training, recognition programs and organisational structures to support and communicate effective environmental management practices in line with company environmental objectives and targets
- Establishing and implementing procedures to ensure continued improvement in environmental compliance
- Encourage the reduction of waste and consumption of natural resources in our operations by purchasing environmentally friendly products and recycling waste wherever possible.
- Reduce energy consumption by using energy efficient products and encouraging our employees and contractors to turn off equipment from the principle power supply when not required and economically viable.
- Substituting, where practicable, environmentally harmful substances with less harmful products and providing adequate waste disposal facilities and practices for those substances that cannot be re-used or recycled.
- Effectively managing and investigating all environmental incident occurrences and ensuring that practical management and rehabilitation practices are adopted.

This policy is applicable to all Moits personnel and contractors conducting business at a Moits worksite.

MICHAEL MOIT
7 May 2019

DOCUMENT CONTROL

DOCUMENT ID:	*PO-006*
LAST REVIEW:	*14 May 2021*
REVISION NO.:	*4*
NEXT REVIEW:	*14May 2023*

4.0 Objectives and Targets

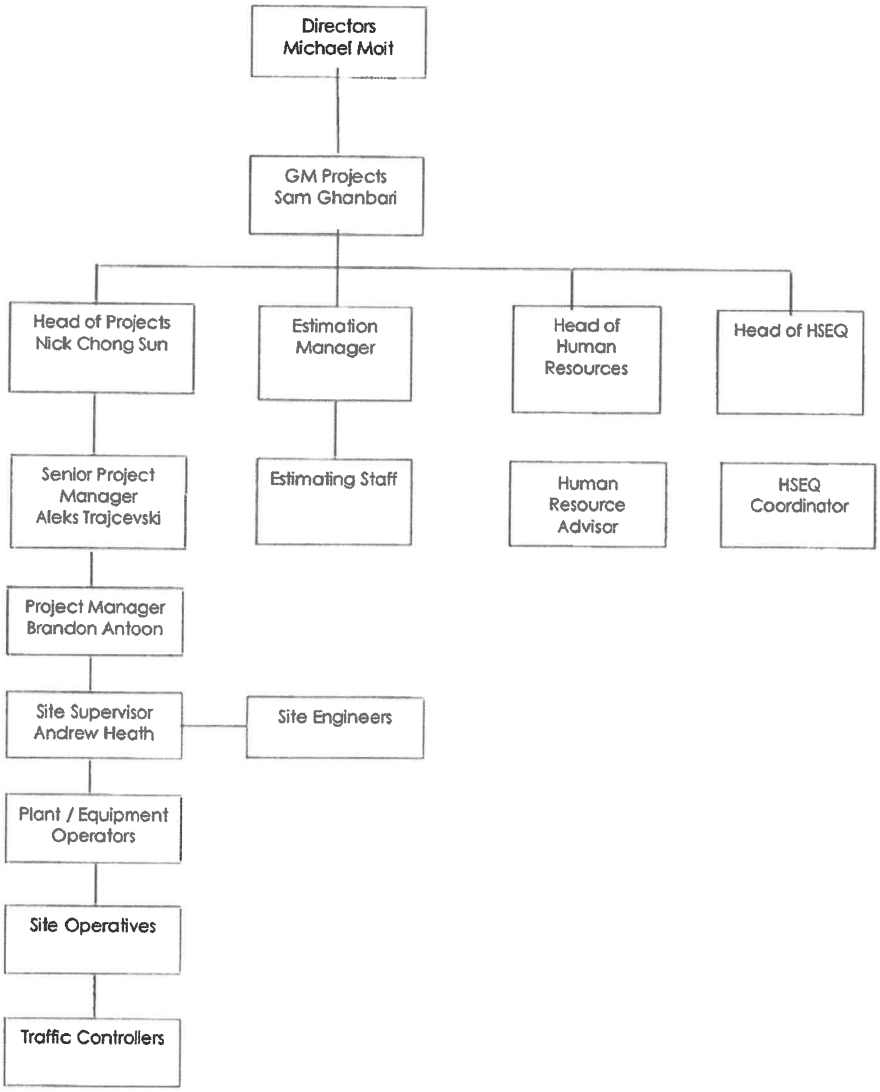
The Objective of this EMP is to provide a documented plan for management and minimisation of potential environmental impacts that the works may have on the environment through the identification of risks and control measures.

The Target is to have no environmental incidents whilst conducting work for the Principal Contractor on the Project.

5.0 Scope of Works

Disconnection of services, and Demolition of houses.

6.0 Project Organisation Chart



7.0 Roles and Responsibilities

The responsibilities of the key staff associated with this project will be as follows:

7.1 General Manager

Sam Ghanbari - 0423 246 587

- Approved project environmental policy.
- Overall responsibility for environmental management
- Provision of adequate resources
- Ensure understanding and compliance with environmental legislation/regulations
- Demonstrate a commitment to environmental management

7.2 Senior Project Manager / Project Manager

Brandon Antoon – 0434 212 505

- Prepare and implement Project Environmental Management Plan and EWMS
- Ensure non-conformances are rectified
- Monitor overall environmental management performance including EWMS
- Report compliance with regulatory and contractual requirements for client and authorities
- Ensure sub-contractors and employees comply with Moits Project Environmental Management Systems.
- Provide relevant training and conduct documented toolbox meetings where works have the potential to cause environmental harm
- Notify Principal Contractor of any environmental incidents and conduct incident investigations as required
- Ensure corrective actions resulting from incident investigations are completed
- Participate in any incident investigation as required
- Communication of environmental performance to Project Manager

7.3 Site Supervisor

Andrew Heath - 0447 275 720

- Implement project Environmental Management Plan
- Monitor site works and use environmental checklist/s where appropriate
- Ensure sub-contractors and employees comply with Environmental Management Plan requirements.
- Report any environmental issues to the Site Manager
- Assist in the development of EWMS for the project
- Implementation of controls required by EWMS
- Make sure that work activities are carried out in an environmentally sound manner
- Actioning environmental inspection reports received from the Principal Contractor
- Communicate performance to the Site Manager

7.4 Employees/subcontractors

- Ensure compliance with directions given regarding environmental management and in accordance with the Principal Contractor's Project Induction.
- Participate in toolbox talk on Environmental Work Method Statement and sign-on
- Assist in the development of EWMS for the Project as required
- Reporting any Environmental impacts and incident to the site Manager/Foreman
- Seeking assistance if unsure of Environmental site rules
- Comply with emergency and evacuation procedures

8.0 Communication

Moits will consult with the Principal Contractor through regular meetings on environmental matters. Information will be promulgated to employees concerning environmental management issues and regulatory requirements via toolbox meetings and pre-start meetings. All formal correspondence will be issued via Aconex.

EVENT	FREQUENCY	PARTICIPANTS	RECORD
Work activity induction (in EWMS or equivalent)	Prior to commencing work	Personnel carrying out specific work activities	Record of training – listed on the EWMS or Toolbox Talk Record
Prestart/Toolbox meetings	Daily & Weekly	Personnel carrying out specific work activities	Prestart/Toolbox meeting record
Subcontractor meetings	Weekly	Site Supervisor/ Project Manager	Minutes of meeting

9.0 Subcontractors Environmental Management Plans and EWMS

All subcontractors are required to operate within the requirements of their EMP and associated documents. Where a subcontractor is determined to be working in an area identified as high risk for potential impact to the environment, additional management controls will be put in place. These may include the submission of a dedicated EMP / EWMS to address the specific work area and it must be submitted for review prior to commencement of work on site. Comments resulting from the review will be issued to the subcontractor for action and where required, re-submission. The EMP / EWMS must assess the level of environmental risk and implement appropriate management controls for the subcontractor's scope of work

Moits DOES intend to subcontract all or part of the works.
If engaged, the sub-subcontractors intended to be used on this site are:

Business	Contact Details
Dancore Solutions (Electrician)	0411 463 615

Moits will ensure that the above mentioned subcontractors provide an EMP or EWMS for their specialised work, and that Moits shall review the EMP or EWMS.

10.0 Environmental Aspects, Impact s and Control Measures

An Environmental Work Method Statement (EWMS) detailing procedures addressing the identified aspects in the table below will be submitted with this EMP.

Note: The below aspects provide an indication of the different types of environmental aspects that may be encountered for particular stages of construction and scopes of work. The Moits EMP will reflect this in the EWMS and be kept on the project records. Additional aspects may be added at the discretion of Moits

ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT				
	Land/ Machines	Air/Hazmat removal	Noise/ Vibration	Chemical	Water
Water quality	✓	✓	✓	✓	✓
Washout System					
Erosion and sediment control	✓	✓	✓	✓	✓
Site contamination	✓	✓	✓	✓	✓
Air quality including emissions i.e. dust	✓	✓	✓	✓	✓
Noise and vibration	✓	✓	✓	✓	✓
Hazardous chemicals and storage	✓	✓	✓	✓	✓
Cultural heritage					
Flora and fauna	✓	✓	✓	✓	✓
Waste management	✓	✓	✓	✓	✓

11.0 Environmental Inspections

Moits will conduct environmental inspections weekly. Inspections will be filed and available for audit purposes. The Environmental Inspection Checklist is located in the SEQ management Plan on site.

11.1 Audits

Internal audits will be conducted throughout the course of the project to gauge the environmental performance of the project and the team working with the EMP

12.0 Storing and Handling Chemicals

Moits provides a current (within 5 years of the date of issue) SDS to the principal Contractor for all products and substances to be used for the work activity. All employees involved in the use of products classified as hazardous, are provided with information and training to allow safe completion of the required task
All storage and handling of chemicals is to be in accordance with the SDS and legislative requirements for each product being used on the Project.

13.0 Training and Induction Programs

All personnel working on the Project will complete the Principal Contractor's Project Induction which includes advice on environmental management and compliance requirements detailed for the site. All personnel will participate in the Environmental Work Method Statement 'toolbox meetings' and Project Risk Workshops as required. All participants will sign the attendance sheet as proof of training.

Training programs will remain current and be reviewed at least annually or:

- When new or unforeseen workplace requirements are identified
- Following a significant incident
- Following changes in legislation
-

14.0 Non- Conformance, Corrective Action

A non-conformance is defined as a failure to comply with MPX documented procedures, management plans and/or a breach of conditions imposed on the Project. This includes a breach of statutory requirements or licence condition.

Non-conformances identified during audits and site inspections shall be recorded on the Audit Report or Aconex field and actioned. In the event of a non-conformance being raised, MPX shall document this on the Non-Conformance Report on Aconex.

When a non-conformance is identified, the recipient and/or MPX shall identify strategies in order to rectify the non-conformance. Where appropriate, the recipient and/or MPX shall also develop measures to prevent recurrence of the non-conformance. The measures to rectify and to prevent recurrence of the non-conformance shall be documented on the Non-Conformance Report and a time frame established. The instigator shall carry out a follow-up review and close out of the Non-Conformance Report to verify completion of measures taken to rectify and to prevent recurrence

15.0 Emergency Procedures

All emergencies will be in accordance with the Principal Contractor's Emergency Management Plan which is covered in the Project induction. Any evacuations will be handled in accordance with the Emergency Evacuation Plan and under direction of the Principal Contractor's Emergency Management Team.

16.0 Environmental Incidents and Investigations

Upon the potential for or an actual environmental incident occurring, the incident form will be completed and submitted to the Principal Contractor as soon as possible.

It should be noted that the Principal Contractor is to be contacted immediately in the event of an environmental incident.

An environmental incident is identified as an activity that has the potential to or is causing material environmental harm which includes costs exceeding or in aggregate of $10,000 in accordance with the Protection of the Environment and Operations Act 1997 (NSW).

17.0 Waste Management

17.1 Waste Minimisation Plan

N Moit & Sons Pty Ltd will ensure that all waste material produced as a result of the demolition works carried out will be recycled or disposed of in accordance with the Waste Minimisation and Management Act 1995 and Local Councils Waste Minimisation Policies
N Moit & Sons is committed to recycling and the minimisation of waste materials created through its demolition process and has adopted the waste minimisation hierarchy as it is the basis for reducing waste:

Avoid waste at the source
Reuse materials and components
Recycle materials into new products
Dispose of in a responsible manner as a last resort

All employees and subcontractors shall be made aware of Moits commitment to recycling and the importance of separating materials during the demolition / excavation process, not after.

All waste materials created by the demolition / excavation process will be sorted into the following categories and disposed of at authorised salvage, recycling or waste management centres.

- Brick, Concrete & Masonry
- Scrap Metals
- Timber
- Glass
- Cardboard & Plastics
- Non-recyclable items
- Oils, gases
- General Solid Waste (GSW)
- Virgin Excavated Natural Material (VENM)
- Excavated Natural Material (ENM)
- Contaminated Soils (acid sulphate, asbestos etc.)

- Asbestos Containing Material (ACM)

17.2 Waste Transportation

The waste materials created by the works will be removed from site by Moits vehicles and hired bins. Any subcontractors used will be made aware of all requirements including the covering of loads, work hours and specific traffic routes to be taken

18. Unexpected finds Protocol

If an unexpected find is identified during earthworks, the following procedure will be followed:

1. Cease disturbance of the affected portion of the site.
2. Immediately implement controls if it is considered that the unexpected find may pose an immediate risk of harm to human health or the environment, and it is safe to do so.
3. Notify the relevant authorities if required (i.e. NSW EPA, SafeWork NSW).
4. Contact the site supervisor and the Environmental Consultant/ Occupational Hygienist to inspect the area.
5. Conduct an assessment of the location and extent of the unexpected find, if safe to do so.
6. Work Health and Safety (WHS) and environmental controls shall be established based on initial observations, if required. These may include but not be limited to:
    a. Controlling access by establishment of barricades and warning signs.
    b. Encapsulating with clean soil, plastic or geofabric.
    c. Establishing erosion and sediment controls
    d. Employing dust mitigation measures.
    e. Air monitoring.
7. Notify the client of the unexpected find and immediate controls established, if required.
8. Further visual assessment, sample collection and analysis may be required by a qualified environmental consultant or occupational hygienist, where further information is needed to assess the extent and/or inform the controls required. If necessary, samples shall be collected and analysed at a laboratory for contaminants of potential concern using National Association of Testing Authorities (NATA) accredited methods. The scope of work may be required to be reviewed by the client.
9. Depending on the outcome of the assessment by the environmental consultant/ occupational Hygienist, the unexpected find may need to be further assessed, managed, remediated or disposed of offsite in accordance with regulatory requirements.
10. Agree the scope with the client and implement works to mitigate identified risks associated with the unexpected find and collect evidence to demonstrate such works have been effective.
11. Affected areas shall be reopened for earthworks following a clearance of the location and issuing of a report by the environmental consultant / occupational hygienist and/or instruction from the client.

Any unexpected finds encountered should be listed on a UFP register via Moits Central, which should include the action taken and the status of the unexpected find. Prior to closing out an unexpected find it is required that all appropriate documentation has been obtained and uploaded to Moits Central.

MOITS
DOWN TO EARTH

AIR QUALITY AND DUST CONTROL PLAN

JQZ

22 – 36 Park Rd St Leonards

ABN 76 074 571 510

142 Wicks Road Macquarie Park NSW 2113
PO Box 4037, Macquarie Centre, North Ryde NSW 2113

1.0 Scope

This plan is applicable to all work associated with the 26-50 Park Rd, 27-47 Berry Rd, 48-54 River Rd St Leonards NSW 2065 (Area 22 & 23) project during the excavation phase of the project

2.0 Objective

The objectives of this plan are to:

- Minimise the impacts of dust generated due to the excavation works
- Minimise the impacts of dust generated during transport of spoil and other traffic
- Minimise complaints from the community in relation to dust generated from the excavation and transport activities

3.0 References

State legislation	Standards / Codes	Other Documentation
Protection of the Environment and Operations Act, 1997 Protection of the Environment Operations (Clean Air) Regulation, 2002	1. NSW EPA Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in New South Wales, 2005 2. NSW EPA Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales, 2007 3. AS3580.10.1 Determination of particulates - deposited matter - gravimetric method 4. National Environmental Policy (Ambient Air Quality) Measure, 2003, Attorney-General's Department 5. AS 2985: 2004- Workplace Atmospheres- Method for sampling and gravimetric determination of inhalable dust 6. AS 3640: 2004- Workplace atmospheres- Methods for sampling and gravimetric determination of inhalable dust	1. Project SEQ Management Plan 2. Environment and Waste Management Plan

4.0 General

4.1 Performance Criteria:

1. Compliance with State Legislation
2. Minimise offsite impacts of air pollution
3. No air emission complaints
4. No Environmental Infringements as a result of emission producing activities
5. Dust generated during excavation is appropriately managed
6. The release of dust and/or particulate matter resulting from the excavation activities must not cause an environmental nuisance at any dust sensitive place
7. Limit the generation of air pollutants and greenhouse gases.

5.0 Management of Greenhouse Gas, Air Quality & Dust			
5.1 - Actions			
Greenhouse Gas			
No	Actions Required	Staff Responsible	Frequency
1.	Mobile plant movements shall be restricted to designated routes and standing areas. Machinery will be turned off when not in use.	Supervisor / Operator	At all times
2.	Ensure all equipment used are designed and operated to control the emission of smoke, dust, fumes and other pollution into the atmosphere	Supervisor	At all times
3.	Ensure plant and equipment is in good working order, is properly maintained and fitted with appropriate emission controls	Supervisor / Operator	At all times
4.	Communicate best sustainable practices to reduce energy use around the workplace site personnel.	Supervisor	When required
Air Quality & Dust			
No	Actions Required	Staff Responsible	Frequency
1.	A speed limit of 10km/hr for disturbed work areas will be enforced for safety and to minimise dust nuisance	Supervisor	At all times
2.	The primary method for controlling dust generated by excavation operations and disturbed areas will be water sprayed by water hoses / water carts or the like	Supervisor	At all times
3.	An adequate supply of water shall be made available for dust suppression activities	Supervisor	At all times
4.	Water hoses shall be made available and are to operate at a desired frequency and the locations that are specified.	Supervisor	At all times
5.	All material (e.g. mud, sand etc.) spilt onto external and internal roads are cleaned and removed	Supervisor	At all times
6.	Truck loads that have the potential to create a dust nuisance will, if required, be dampened or covered prior to traversing public roads.	Supervisor	At all times
7.	Exposed areas including stockpiles are to be sprayed (or covered where practical) with water during dry conditions to minimise dust generation.	Supervisor	At all times
8.	Watering (when required) and regular sweeping of any the sealed public road will occur during dry conditions. Unpaved haul roads will be watered by a water tanker.	Supervisor	At all times
9.	The import and removal of excavation spoil and topsoil storage and re-spreading will not be undertaken during high wind conditions.	Supervisor	At all times
10.	Heavy construction vehicles leaving the site will go undergo an inspection for soil and if necessary will be removed prior to leaving site.	Supervisor	At all times
11.	Ensure all stockpiles are covered or regularly watered to prevent dust emissions during high wind conditions.	Supervisor	At all times
12.	Confine traffic to defined roads and tracks (including haul roads).	Supervisor	At all times
13.	Should visible dust emissions occur at any time, dust mitigation measures according to this plan will be put in place, including cessation of relevant works as required such that emissions of visible dust cease.	Supervisor	At all times

5.2 - Monitoring			
No	Monitoring Required	Staff Responsible	Frequency
1.	The site shall be continually visually monitored for excessive dust generation	All Staff	At all times
2.	Following any nuisance dust complaint, physical air quality monitoring will be undertaken in accordance with the appropriate guidelines and standards, if the activity is still taking place.	Project Manager / Supervisor	Following Dust complaints
3.	Any air quality issues shall be recorded on the Weekly Safety and Environmental Inspection Checklist.	Supervisor	Weekly
4.	When requested, dust and particulate monitoring will be undertaken to investigate any complaint of environmental nuisance caused by excavation dust and/or particulate matter. Monitoring will be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and will include dust deposition for a complaint alleging dust nuisance.	Project Manager / Supervisor	When requested
5.	Undertake visual emissions checks of plant and equipment. Ensure visible emissions are < 10 seconds continuous duration. Vehicles, plant and equipment exhibiting visual smoke for prolonged periods (>10 sec) will not be used until repaired / serviced	Project Manager / Supervisor	Monthly and when plant arrives on site

5.3 - Reporting			
No	Reporting Required	Staff Responsible	Frequency
1.	All complaints / incidents regarding dust shall be reported to the HSEQ Manager, Project Manager and Supervisor	All Staff	Following complaint / incident
2.	Environmental Incident Report Forms shall be completed and forwarded to the HSEQ Manager and Project Manager	Supervisor	Following Incident
3.	Details of air quality / dust management will be provided in a monthly report to the Project Manager if required	Supervisor	Monthly

6.0 Suggested Corrective Actions	
Problem	Suggested Corrective Action
Air Quality or Dust levels exceeded	▪ Consult and investigate the exceedance with the relevant persons ▪ Investigate and implement actions (continual improvement) to reduce dust levels to set criteria and guidelines. ▪ Provide monitoring results to stakeholders as required
Community query on air quality or dust levels	▪ Manage the complaint appropriately. ▪ Investigate the complaint. ▪ Consulting with supervisors, operators, project engineers, construction manager. ▪ Conduct appropriate air quality or dust measurements (if the activity is still occurring) Results specific to the query should be made available to the relevant stakeholders ▪ Summary of investigation and incident notification report to be submitted to the relevant stakeholders ▪ Monthly reporting on performance and complaints is to be provided to the relevant stakeholders. ▪ Implement appropriate management and mitigation measures.