SSD 8378 - New Gledswood Hills Public School – Submission of Construction Environmental Management Plan in accordance with Condition B14 & B15

Please refer to the below ***SD 8378 - New Gledswood Hills Public School Condition Satisfaction Table*** in relation to the above condition requirements and location within the CEMP attached herewith this letter.

SSD Ref.	SSD Condition Summary	Documentation Reference
B14	Prior to commencement of construction, the Applicant must prepare a Construction Environmental Management Plan (CEMP) and it must include, but not be limited to, the following: (a) Details of:	**CEMP – Gledswood Hills Public School Stage 2 Revision 2 – 21.04.2023**
	(i) hours of work;	**Scope of Works (Section 2 – Pg. 4)**
	(ii) 24-hour contact details of site manager;	**Roles & Responsibilities (Section 4 – Pg. 7)**
	(iii) management of dust and odour to protect the amenity of the neighbourhood;	**Air Quality & Dust Management (Section 9 – Pg. 13-14)**
	(iv) stormwater control and discharge;	**Soil & Water Management (Section 8 – Pg. 8-11)**
	(v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;	**Soil & Water Management (Section 8 – Pg. 8-11)**
	(vi) groundwater management plan including measures to prevent groundwater contamination;	**Groundwater Management (Section 8.– Pg. 8-9)**
	(vii) external lighting in compliance with AS 4282-2019 Control of the obtrusive effects of outdoor lighting;	**Public Health (Section 13 – Pg. 24)**
	(viii) community consultation and complaints handling as set out in the Communication Strategy required by condition B9; and	**Communication, Complaints & Stakeholder Management (Section 16 – Pg. 29-30) Appendix E6**
	(b) Construction Traffic and Pedestrian Management Sub-Plan (see Condition B16);	**CEMP Appendix E2**
	(c) Construction Noise and Vibration Management Sub-Plan (see Condition B17);	**CEMP Appendix E3**
	(d) Construction and Demolition Waste Management Sub-Plan (see Condition B18);	**CEMP Appendix E4**
	(e) Construction Soil and Water Management Sub-Plan (see Condition B19);	**CEMP Appendix E5**

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SSD Ref.	SSD Condition Summary	Documentation Reference
	(f) an unexpected finds protocol for contamination, Aboriginal and non-Aboriginal heritage and associated communications procedure; and	**Unexpected Finds Protocol (Section 14 – Pg. 26)**
	(g) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site.	**Contamination & Waste Management (Section 12 – Pg. 19-20)**
B15	The Applicant must not commence construction of the development until the CEMP is approvedby the Certifier and a copy submitted to the Planning Secretary.	**Legal & Compliance Obligations (Section 3.1 – Pg. 5) CC1 Aconex CC1 Submission Thread - E5 Appendix E**

If you require clarification of any aspect of our submission, please do not hesitate to contact me.

Yours faithfully,

Chris Sposito
HSEQ Manager
Mobile: 0408 625 030
Email: chriss@pattersonbuild.com.au

Construction Environmental Management Plan

626 - Gledswood Hills Public School – Stage 2

Client:	School Infrastructure NSW (SINSW)
Project Address:	78 The Hermitage Way, Gledswood Hills NSW 2557
Prepared By:	Chris Sposito – HSEQ Manager
Revision & Date:	2 – 21/04/2023

TABLE OF CONTENTS

1 INTRODUCTION

This Construction Environmental Management Plan (CEMP) defines the Patterson Building Group (PBG) system for the management of potential environmental issues for the **Gledswood Hills Public School – Stage 2** project and outlines how the requirements of the specification have been addressed. The plan is based on AS/NZS ISO 14001:2016 Environmental management system guidelines – requirements with guidance for use. This environmental plan, in conjunction with the Patterson Building Group corporate management system forms the Project Environmental Management system.

This Environmental Management Plan describes the environmental issues, preliminary site assessment, structure and responsibilities, controls, and requirements of the project.

The Environment Management Plan is utilised for the site activities related to all environmental aspects of the Project. The plan advises of our procedures, defining how the environmental aspects of the project will be reviewed and completed.

This CEMP and all associated appendices (Sub-Plans) have been developed in consultation with all relevant stakeholders with evidence of consultation for the relevant plans contained within their' appendices.

2 SCOPE OF WORKS

The project involves the design, documentation, and construction of the Gledswood Hills Public School Stage 2 which includes the following:

- **Milestone 1 - Design Finalisation:**
  - Engagement of relevant consultants to complete Detailed Design, including adherence to Educational Facilities Standards and Guidelines (EFSG) and incorporation of Technical Stakeholder Group (TSG) and Project Reference Group (PRG) complete these works;
  - Obtain Crown Building Approval prior to commencement.
- **Milestone 2 – Construction of Two block (E & G) consisting of 20 learning spaces;**
  - Construction of two new three storey buildings consisting of 20 learning spaces;
  - Associated external works including hard and soft scapes;
- **Milestone 3 – Removal of demountable buildings and expansion of existing on-site carpark to 75 car spaces;**

The project is located at Hermitage Way, Gledswood Hills, NSW, 2557.

Figure 1 - Site Location

Construction Site Permitted Working Hours:

In accordance with the SSDA Approval Conditions (***SSD-8378***), works must only be undertaken onsite in compliance with the following conditions:

- Construction, including the delivery of materials to and from the site, may only be carried out between the following hours (*C5*):
  - Between 7am and 6pm, Mondays to Fridays inclusive; and
  - Between 8am and 1pm, Saturdays.

- Construction activities may be undertaken outside of the hours in condition *C5* if required (*C6*):
  - By the Police or a public authority for the delivery of vehicles, plant or materials; or
  - In an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
  - Where the works are inaudible at the nearest sensitive receivers; or
  - Where a variation is approved in advance in writing by the Planning Secretary or his nominee if appropriate justification is provided for the works.
  - Notification of such construction activities as referenced in this condition (C6) must be given to affected residents before undertaking the activities or as soon as is practical afterwards (*C6*).

- Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be
- carried out between the following hours (*C7*):
  - (a) 9am to 12pm, Monday to Friday;
  - (b) 2pm to 5pm Monday to Friday; and
  - (c) 9am to 12pm, Saturday.

- Deliveries by oversized vehicles may be undertaken outside of these hours where (C8) it is the delivery to or transport from the development site of oversize plant, equipment and structural elements outside standard construction hours, subject to:
  - deliveries / collection not being undertaken on a Sunday or public holiday;
  - oversize plant, equipment and structural elements not being readied for transport, loaded or unloaded, set up or installed other than during the standard construction hours, and
  - the proponent notifying noise sensitive receivers, especially residences, likely to be affected by noise from any delivery or transport activity permitted by this condition of that delivery not less than 3 days and not more than 7 days before the delivery is undertaken.

3 LEGAL & COMPLIANCE OBLIGATIONS

Mandatory compliance obligations and requirements relevant to the project are outlined below.

Procedure **L1 – Legal Requirements NSW** outlines the process that the organisation uses to determine legal and other mandatory requirements.

All personnel associated with the project will comply with all relevant requirements including:

- Laws (Acts, regulations, and policies)
- Environment protection licence and permits
- Development consents
- Relevant industry standards and codes.
- Contract requirements
- Other compliance obligations outline in this CEMP, including any voluntary compliance obligations.

An assessment of the relevant legislative requirements applicable to this project has been completed by the Project Manager during the development of the Project Management Plan which can be found in **PMP Appendix A3 – Legal & Other Requirements Register - Environmental.**

The register will be reviewed monthly and updated (if necessary) as the project progresses and in compliance with the relevant conditions reported by the Project Manager.

The corporate register & templates will be reviewed & updated in conjunction with the six-monthly management review or where there has been a change to relevant legislation by the Systems/HSEQ Manager. All changes will be communicated to project teams for revision of the CEMP in line with the master template updates.

A copy of relevant permits, licences, and any development approvals relevant to PBG's activities will be kept on-site.

3.1 Compliance With SSD Approval Conditions

In accordance with the SSD Approval Conditions for **SSD 8378 - New Gledswood Hills Public School**, Patterson Building Group herby confirms that this Construction Environmental Management Plan and supporting appendices have been developed to assist Patterson Building Group fully satisfy condition *B14 –Construction Environmental Management Plan & associated Sub-Plan conditions.*

This CEMP and Appendices will be issued to the project appointed P**rincipal Certifying Authority – Group DLA** for their review and approval before construction onsite, with a copy issued to DPIE via SINSW to satisfy condition *B15 –Construction Environmental Management Plan & associated Sub-Plan approval prior to commencement condition*.

A full copy of **SSD 8378 - New Gledswood Hills Public School** approval conditions is contained in **Appendix A4** of the PMP, with individual conditions and requirements pertaining to this CEMP are listed in the table below:

Table 1: Relevant SSDA Condition Requirements and location addressed in Gledswood Hills – Stage 2 CEMP & Appendices.

SSD Ref.	SSD Condition Summary	Documentation Reference
B14	Prior to commencement of construction, the Applicant must prepare a Construction Environmental Management Plan (CEMP) and it must include, but not be limited to, the following: (a) Details of:	**CEMP – Gledswood Hills Public School Stage 2 Revision 2 – 21.04.2023**
	(i) hours of work;	**Scope of Works (Section 2 – Pg. 4)**
	(ii) 24-hour contact details of site manager;	**Roles & Responsibilities (Section 4 – Pg. 7)**
	(iii) management of dust and odour to protect the amenity of the neighbourhood;	**Air Quality & Dust Management (Section 9 – Pg. 13-14)**
	(iv) stormwater control and discharge;	**Soil & Water Management (Section 8 – Pg. 8-11)**
	(v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site;	**Soil & Water Management (Section 8 – Pg. 8-11)**
	(vi) groundwater management plan including measures to prevent groundwater contamination;	**Groundwater Management (Section 8.– Pg. 8-9)**
	(vii) external lighting in compliance with AS 4282-2019 Control of the obtrusive effects of outdoor lighting;	**Public Health (Section 13 – Pg. 24)**
	(viii) community consultation and complaints handling as set out in the Communication Strategy required by condition B9; and	**Communication, Complaints & Stakeholder Management**

SSD Ref.	SSD Condition Summary	Documentation Reference
		(Section 16 – Pg. 29-30) Appendix E6
	(b) Construction Traffic and Pedestrian Management Sub-Plan (see Condition B16);	**CEMP Appendix E2**
	(c) Construction Noise and Vibration Management Sub-Plan (see Condition B17);	**CEMP Appendix E3**
	(d) Construction and Demolition Waste Management Sub-Plan (see Condition B18);	**CEMP Appendix E4**
	(e) Construction Soil and Water Management Sub-Plan (see Condition B19);	**CEMP Appendix E5**
	(f) an unexpected finds protocol for contamination, Aboriginal and non-Aboriginal heritage and associated communications procedure; and	**Unexpected Finds Protocol (Section 14 – Pg. 26)**
	(g) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site.	**Contamination & Waste Management (Section 12 – Pg. 19-20)**
B15	The Applicant must not commence construction of the development until the CEMP is approved by the Certifier and a copy submitted to the Planning Secretary.	**Legal & Compliance Obligations (Section 3.1 – Pg. 5) Aconex CC1 Submission Thread – E5 Appendix E**

4 ROLES & RESPONSIBILITIES

The duties and responsibilities of all Patterson Building Group' staff are defined in Position descriptions, which are available for review in the PBG Management System.

Project Organisational Chart

The project organisational structure is defined in Appendix A1 of the PMP, with project 'Roles and Responsibilities' outlined in Section 4.2 of the PMP.

Key project roles and responsibilities with regards to environmental management and implementation of this CEMP are outlined below.

Management Representative

The Project Manager has nominated the Site Manager to act on his behalf in all matters relating to environmental protection on the project.

4.1 Project Manager

The **Project Manager – Kurt Lanner – 0423 939 580** *in consultation with the Site Manager, has responsibility and authority for:*

- Developing the Environmental Plan to comply with requirements of relevant regulations, standards and codes
- Reviewing and authorising the project environmental plan
- Instructing the Site Manager in requirements for operation of the plan on the site
- Ensuring the provision of training to improve awareness / knowledge of environmental issues
- Informing subcontractors of Environmental requirements

- Ensuring requirements of the Environmental Management Plan are implemented by site personnel
- Reviewing the implementation of the Environmental Plan
- Preparing for PBG works, Safe Work Method Statements to cover environments impacts and ensuring compliance with safe working practices contained therein
- Allocating sufficient resources to ensure that the Environmental Management Plan can be effectively implemented on this project
- Evaluating subcontractors and supplier's ability to comply with environmental requirements
- Verifying the effectiveness of the Environmental Management Plan through routine inspections
- Quarantining unsafe work areas, materials, plant, and equipment in the event of an incident or spillage which impacts on the safe operation of the site
- Initiating and verifying preventive and corrective actions with respect to the effective operation of the Environmental Management Plan

4.2 Site Manager

The **Site Manager – Bronson Parangi - 0423 573 265** *is responsible for:*

- Implementing the environmental plan and will be the authority for the project on environmental matters. The officer has the authority to direct all activities to comply with the environmental plan.
- Training of all site personnel in requirements of the Construction Environmental Management Plan during Induction
- Assigning project staff to perform verification duties
- Monitoring and enforcing compliance with the Construction Environmental Management Plan
- Conduct site inspections using Form I3.2
- Management of accident and emergency procedures, including being the 24-hour emergency contact.
- Ensuring non-conformance is reported and that corrective action is timely and effective
- Ensuring subcontractors fulfil their environmental obligations
- Attending meetings to discuss environmental issues
- Liaison with environmental representatives from the client and community groups
- Assisting with environmental reports as part of the monthly project reports
- Quarantining unsafe work areas, materials, plant, and equipment in the event of an incident or spillage which impacts on the safe operation of the site
- Initiating and verifying preventive and corrective actions with respect to the effective operation of the Environmental Management Plan

5 PRELIMINARY SITE ASSESSMENT & DOCUMENTATION REVIEW

Following detailed review and inspection of the onsite conditions as well as contract documentation throughout the tender period, PBG have noted the following areas that require careful planning, monitoring and consideration at all levels of construction and in conjunction with client and council environmental requirements and procedures.

This CEMP has been prepared in consideration of all issues and proposed mitigation measures identified within 'Environmental Impact Statement - State Significant Development SSD 8378 - Gledswood Hills Public School – Rev B dated 9/01/2018' Prepared by DFP.

In consideration of the above and other contract documentation, the critical issues and related mitigation measures outlined for this project include:

- Adverse impact on GHPS school students and staff
- Noise and Vibration
- Dust Pollution
- Run-off, Spoil entering the Stormwater System
- Flora and Fauna
- Waste Management
- Surrounding Occupants & Community Disruption

- Traffic
- Unexpected Finds (Aboriginal, Historical or Hazardous)

6 PLANNING

The Environmental planning for this project shall be co-ordinated by the Project Manager in accordance with Procedure **E4 - Environmental Planning and Assessments** and Procedure **R2 - Risk Management**.

As a result of planning activities including the preparation of **PMP Appendix B1 – Project Risk Assessment**, a list of environmental aspects and impacts has been identified and checklists are developed which detail the activities required to mitigate the issues.

7 ENVIRONMENTAL DOCUMENTATION

The project environmental management system is documented by the project environmental plan and associated checklists and forms.

Control of project documentation shall be in accordance with Procedure D4 “Drawings and Project Documents”.

8 SOIL AND WATER MANAGEMENT

PBG will comply with the Section 120 of the Protection of the Environment Operations Act 1997 during the construction works of this project. All no stage will water or construction waste be discharged into the stormwater system.

The existing stormwater drainage system will be protected prior to construction works commencing and will be monitored and maintained during the construction programme. Site inspections are conducted on a weekly basis at minimum, or daily if changes, or new works occur onsite. Inspections are also undertaken before rain events to ensure ERSED controls are in place, and after rain events to undertake maintenance if required.

The ground levels to this project are very flat so there is low risk of erosion and sedimentation and downstream impacts, given the relatively flat ground erosion and sedimentation controls to be installed around the works poses a low risk for sedimentation pollution.

PBG will be implementing the SSD approved Sediment & Erosion Control Plans which have been incorporated into PBG’s **Construction Soil & Water Management Sub-Plan** in full throughout the project. This has been included as **Appendix E5** of this CEMP

If site-specific amendments are required, the project Erosion and Sediment Control Plans updates will be completed and issued to SINSW for review and comment in accordance with the “The Blue Book”, Managing Urban Stormwater: Soils and Construction Guidelines (Landcom 2004), which will include:

- Erosion Controls;
- Sediment Controls;
- Water Management Controls;
- Strict containment of washed down concrete trucks and pumps

8.1 Groundwater Management:

The geotechnical investigations conducted by JK Geotechnics concluded that groundwater is not considered to pose a significant risk to the site by concluding that ‘the groundwater table is unlikely to be encountered in the excavations unless they are of substantial depth’. This is based on boreholes that were completed in the investigation that did not encounter any groundwater above 4.6m.

PBG expects that if groundwater seepage occurs it will be able to be controlled by conventional sump and pump techniques if gravity drainage is not possible.

Despite this, the measures outlined below will be adopted to mitigate the potential contamination of groundwater:

- Where excavations are required to be dewatered to facilitate site works, an assessment of the water quality shall be undertaken on the basis of visual observations by the Principal Contractor or Hygienist.
- Where excavation water does not exhibit any indicators of gross contamination, it shall be pumped into the sediment basin or OSD and subject to assessment, treatment, and disposal in accordance with council requirements.
- Where excavation dewater is identified to exhibit indicators of gross contamination, it shall be managed under the UFP in section 14.

During construction, risks of groundwater contamination such as spills and leaks from on-site plant will be controlled via implementation of the Construction Environmental Management Plan and procedures for spill management.

8.2 Project Soil & Water Management Mitigation Measures

Mitigation Measures	Responsibility	Project Phase
All workers will be provided with an environmental induction prior to commencing works. This induction will include information on the soil and water precautions on site: • All site staff including sub-contractors to be site inducted prior to commencing works on-site • The site induction includes an environmental component, which outlines key soil/water management requirements/procedures • Regular training (e.g. toolbox talks) shall highlight any erosion and sedimentation problems, actions, procedures required	All staff	Prior to Construction
ECMs will be prepared in accordance with the Managing Urban Stormwater: Soils and Construction. They will be made available onsite and progressively updated as and when required to ensure plans are current and consistent with works under the contract.	Site Manager	Prior to Construction /Construction
Works will be managed to minimise the duration and extent of soil that is left exposed. The project site will be delineated to minimise the amount of disturbance to outside areas.	Site Manager	Construction
Physical control measures will be maintained and inspected regularly - including sediment fences, sediment filters and onsite diversion drains.	Site Manager	Construction

Erosion control and sediment capture measures will be installed prior to stockpiling material.	Site Manager	Construction
Run-off will be directed around excavations and stockpile sites where possible.	Site Manager / Subcontractor	Construction
Concrete washout areas will be established away from drainage lines and location communicated to required personnel. Appropriate sediment controls shall be implemented to prevent runoff. All concrete washouts will be impervious and bunded at all times.	Site Manager / Subcontractor	Construction
• All fuels, chemicals and hazardous liquids will be stored within an impervious bunded area in accordance with Australian Standards, EPA Guidelines and the Storage and Handling of Dangerous Goods, Code of Practice 2005 • Emergency spill kits will be kept on site and in appropriate vehicles at all times. (Spill kits shall be readily available and accessible to construction workers. Spill kits shall be kept at in site compounds and specific construction vehicles.) All staff will be made aware of the locations of the spill kits and will be trained in their use. • Where a spill to a watercourse is identified as a risk, spill kits shall be kept in close proximity to potential discharge points; • All hazardous materials spills and leaks shall be reported in accordance with PBG Management Procedure requirements and actions shall be immediately taken to remedy spills and leaks; • Construction plant, vehicles and equipment will be refuelled off site. • Vehicles and machinery will be maintained to minimise the risk of fuel / oil leaks. • Visual inspection of vehicles, plant and equipment (Pre-start Checks) shall be carried out prior to commencement on site.	Site Manager / Subcontractor	Construction

Project Soil and Water Aspects and Impacts are noted below:

SOIL & WATER MANAGEMENT OBJECTIVES – To minimise water quality and quantity impacts to surface and ground waters

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
SOIL & WATER QUALITY	Ensure vehicles entering and leaving site do not deposit mud or dirt to prevent them from entering the roadways and stormwater systems. This is to be achieved by vehicles not entering site during rain events, and tyres to be washed prior to exiting site.	Site Manager	Ongoing	Inspections / Audit

	Street sweeping of roadways & gutters to be undertaken either manually or using street sweeper truck when mud, debris or sediment is tracked out of site as necessary	Site Manager	Ongoing	Inspections / Audit
	Concrete curing compounds have separate wash out bins prior to management of materials to ensure volumes of material to be legally disposed of are not increased or mixed unnecessarily.	Site Manager	Prior to works commencing and on going	Inspections / Audit
	For painting materials have separate wash out bins prior to releasing water. I.e 'Dulux Envirowash' paint washout system or similar.	Site Manager	During induction and on going	Audit
	Silt protection to be installed around existing drainage pits	Site Manager	Prior to works commencing and on going	Inspections / Audit
	Erosion and sediment controls to be installed	Site Manager	Prior to works commencing and on going	Inspections / Audit
	Cattle grid or shaker pad to be installed at all vehicle entry/exit points	Site Manager	Prior to works commencing and on going	Inspections / Audit

9 AIR QUALITY & DUST MANAGEMENT

Dust generation can occur at any time onsite from exposed areas due to dry conditions, wind action, vehicle movements and several other sources consistent with earthworks. Increased levels of dust generation may occur during demolition, clearing and grubbing, excavation and stockpiling. Given the proximity to of neighbouring properties and existing buildings, there is the potential for impact by dust, particularly during windy conditions.

The site manager will ensure that all construction facilities erected at the site are designed and operated to minimise the emission of smoke, dust, cement dust, plant and vehicle exhausts and other substances into the atmosphere.

As these works will be undertaken within a live school environment, it is essential that emissions are controlled at all times to prevent the degradation of air quality onsite and surrounding school to minimise impacts on workers staff and students due to the construction works.

PBG will implement construction methods that will keep the air pollution to a minimum and apply Dust suppression measures such as those listed below to ensure that airborne pollutants do not cause pollution where required (i.e. on windy days when earthworks and vehicle movements are generating dust):

- Water carts
- Localised use of water to supress excavation activities as they are occurring to suppress dust
- Covering stockpiles using geofabric or seeding methods
- Any stockpiled spoil/fill will be protected to minimise dust generation to avoid sediment moving offsite.
- Vehicles transporting spoil from the site to have loads covered.

9.1 Project Air Quality & Dust Management

AIR & Dust MANAGEMENT OBJECTIVES– To prevent any irreversible damage caused by the release of dust, fibres, odour and gas emissions contributed from planned activities.

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
AIR QUALITY	Ensure vehicles entering and leaving site do not deposit mud or dirt to prevent them from entering the roadways and stormwater systems. This is to be achieved by vehicles not entering site during rain events, and tyres to be washed prior to exiting site.	Site Manager	Ongoing	Inspections / Audit
	Water to be used to suppress during demolition works if required. Demolition not to commence during high winds.	Site Manager	Ongoing	Inspections / Audit
	Visual dust monitoring will be conducted to gauge the concentration of airborne dust in the working environment in real time.	Site Manager	During works and ongoing.	Inspections / Audit
	Fitting power tools with class M vacuums and dust collection devices where practical.	Site Manager	During works	Inspections / Audit
	Spray mist bottles and clothes will be used to dampen any demolition materials, bins etc. prior to leaving the work area.	Site Manager	During works and ongoing	Inspections / Audit
	Ensure machinery is maintained correctly and not generating excessive levels of exhaust pollution	Site Manager	During works and ongoing	Inspections / Audit
	Ensure the machinery is turned off when not in use	Site Manager	During works and ongoing	Inspections / Audit
Performance Objectives	✓ No complaints received in relation to excessive emission of air impurities. ✓ No SafeWork NSW or EPA notices ✓ Compliance with RMS and Council requirements			

10 FLORA AND FAUNA MANAGEMENT

The impact during the construction works such as clearing, stock piling and material storage have the potential to effect flora and fauna in the area.

The mitigation measures that will be implemented during construction works to minimise the impact on the surrounding flora and fauna will be as follows:

10.1 Project Flora & Fauna Management Mitigation Measures

Mitigation Measures	Responsibility	Project Phase
Training will be provided to relevant project personnel, including relevant sub-contractors on flora and fauna requirements from this plan through inductions, toolboxes and targeted training.	All staff	Prior to Construction
Construction methodology around trees shall be carried out as per AS 4970—2009 Protection of trees on development sites.	Site Manager / Site Foreman / Subcontractor	Prior to Construction /Construction
If unexpected threatened flora or fauna are discovered, works shall stop immediately and the client shall be contacted.	Site Manager / Site Foreman / Subcontractor	Construction
Vegetation disturbance will be minimised as much as possible.	Site Manager / Site Foreman / Subcontractor	Construction
Stockpiles will be located outside of the tree protection zone of trees or native vegetation identified for retention.	Site Manager / Site Foreman / Subcontractor	Construction
Machinery will be checked to ensure they are free from mud and vegetation prior to entering the Project construction sites to prevent the spread of weeds or pathogens.	Site Manager / Site Foreman / Subcontractor	Construction
Open excavations and storage areas to be inspected regularly for the presence of fauna species. No personnel on site are permitted to kill, injure, feed, capture, extract, or otherwise disturb aquatic, animal, or vegetative species while performing any tasks in performance of the work.	Site Manager / Site Foreman / Subcontractor	Construction

Tree Protection Zones (TPZ) – Required to trees within council footpath/verge area

The TPZ is a radial area extending outwards from the centre of the trunk equal to the DBH x 12. This area shall be protected by a TPF (see below). For all trees to be retained a TPZ is to be created and maintained.

The TPZ function is primarily to protect the root zone by restricting access, however, the canopy of the tree shall also be protected from damage or injury. The project arborist shall approve the extent of the TPZ.

The TPZ shall be mulched to a depth of 75mm with an approved organic mulch. Supplementary watering shall be provided in dry periods to reduce water or construction stress, particularly to those trees which may have incurred root disturbance.

An area equivalent to the encroachment is required to be provided (additional to and contiguous with the remaining TPZ) to offset against the encroachment. This additional area is to be protected during construction.

Tree Protection Fencing (TPF)

Prior to construction works commencing, tree protection fencing will be installed by PBG to establish the TPZ for trees to be retained. Tree protection fencing will be maintained for the duration of the construction project.

Tree protection fencing will:

- Enclose as much of the TPZ as possible, allowing for pedestrian access and 1m offset around construction footprint and scaffolding.
- Consist of ATF type temporary fencing or similar
- Be certified and inspected by the project arborist
- Installed prior to commencement of construction works
- Be prominently signposted with 300mm x 450mm signs stating 'NO ACCESS TO THIS AREA – TREE PROTECTION ZONE – CONTACT PBG SITE MANAGER'.

Trunk & Root Zone Protection

Other measures may be required in addition to tree protection fencing. These specific protection measures will be implemented by PBG as directed by the project arborist (if necessary) to protect the canopy, trunk or branches from the risk of damage.

Tree Damage

In the event of damage to a tree or the TPZ of a tree to be retained an arborist will be engaged by PBG to inspect and provide advice on remedial action. This will be implemented as soon as reasonably practicable and certified by the project arborist.

Excavation Within TPZ

Excavation within the TPZ should be avoided, with any excavation within the canopy drip line or TPZ subject to the approval and supervision of an arborist. Excavation must be conducted by hand.

Where roots 50mm dia. Or greater are encountered, alternative construction methods must be considered to ensure that roots are not severed. Adequate allowance should also be made for future radial root growth.

If there is no avoiding placing services through the TPZ, excavation will take place outside and up to the TPZ, with under boring to take place below the root ball of the tree as directed by the project arborist.

General Project Flora and Fauna Aspects, Impacts and mitigating actions are noted below:

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
FLORA & FAUNA	Tree Protection to be installed and signed off	Site Manager	Prior to works commencing and on going	Inspections / Audit
	Weed maintenance during the project to be ongoing	Site Manager	On going during the project	Inspections
	Exclusion zones to be installed to provide protection from any vegetation damage	Site Manager	On going during the project	Inspections
	Requirements of the Impact Assessments for works to be implemented in full	Site Manager / Project Manager	On going during the project	Inspections / Audit

11 NOISE AND VIBRATION MANAGEMENT

PBG will manage construction noise and vibration throughout the Gledswood Hills Public School – Stage 2 in accordance with the requirements and criteria outlined within ***'Gledswood Hills Public School – Stage 2 – Construction Noise and Vibration Management Sub-Plan'***. Please refer to **Appendix E3** for complete CNVMP, with key management plan and PBG standard requirements for noise and vibration covered below.

General Noise & Vibration Mitigation Measures

Typical noise management procedures and mitigation measures that PBG will implement throughout the project are as follows:

General

- Where feasible and reasonable, construction should be carried out during the approved standard daytime working hours. Work generating high noise and/or vibration levels should be scheduled during less sensitive time periods.
- Avoiding the coincidence of noisy plant working simultaneously close together and adjacent to sensitive receivers (both noise and vibration generating activity).
- The contractor will take all reasonable and feasible measures to mitigate noise effects;
- The contractor will take reasonable steps to control noise from all plant and equipment. Examples of appropriate noise control include efficient silencers and low noise mufflers;
- Minimise plant and vehicles idling when not in use;
- All plant and equipment should be maintained in a proper and efficient manner to minimise noise emissions, including the replacement of engine covers, repair of defective silencing equipment, tightening of rattling components and the repair of leakages in air lines;
- Notification of occupant's adjacent to the site of when these activities occur; and
- Implementing an effective community consultation and complaints management.

Noise

- Provision of localised treatment such as temporary barriers, shrouds and the like around fixed plant such as pumps, generators and groundwater extraction plant during use and by "stepping down" the plant settings out of construction hours or turned off completely where able. The detailed design of acoustic treatments will be undertaken during the detailed design phase; and
- Maximising the offset distance between noisy plant items and nearby noise sensitive receivers;
- Where practicable, provision of additional respite from noise producing activities during extended hours operations;
- Use of broadband alarm in place of tonal alarm where practicable;
- Selection and maintenance of "quiet" type equipment where practicable;
- Minimise consecutive works in the same locality (if applicable);
- Minimising consecutive works in the same locality;
- Silenced air compressors, fitted with noise labels indicating a maximum (LAmax) sound pressure level of not more than 75 dBA at 7 m is to be used on site. The sound pressure level of noise emitted from a compressor used is to comply with noise label requirements;
- Orienting equipment away from noise sensitive areas; and
- Carrying out loading and unloading away from noise sensitive areas.

Vibration

- Selection and maintenance of low vibration equipment where practicable;
- Use only dampened rock breakers and/or "city" rock breakers to minimise the impacts associated with rock breaking works;
- Trial testing of vibration levels is to be conducted where equipment identified as having the potential to exceed the human comfort criteria or where the vibration intensive plant or

equipment is required to operate in close proximity (30 m or less) to sensitive structure exceeding the nominated minimum working distances;
- Trial vibration monitoring to determine appropriate work distances of proposed vibration intensive activities; and
- Utilise the smallest practicable size of plant equipment when in close proximity to the sensitive structure (e.g. small vibratory roller).

Construction traffic

- Where practicable, site should be arranged to provide one-way traffic movement minimise reversing of vehicles onsite;
- Utilising main road networks to access site and where practicable;
- Provide instructions for heavy vehicles operators regarding minimising noise when entering and leaving the construction sites;
- Delivery truck should be scheduled to arrive on site within the approved construction hours;
- Queuing of trucks are to be minimise as far as practicable and located away from residences and operating school buildings in order to reduce noise impacts due to trucks idling; and
- Where practicable, heavy vehicles should be switched off while queuing or not in use.

Noise & Vibration Monitoring

As part of site management for noise emissions, Construction Contractor would undertake a daily log of construction activities kept onsite by the site manager.

In addition, where required, noise monitoring would be conducted at the nearest residential receiver to the construction works being undertaken for:

- The beginning of the proposed construction activity;
- Whenever an item of “noise intensive” plant or equipment is brought onto site for the first time. For the purpose of internal noise audits, any item of plant or equipment with Sound Power Level (SWL) greater than or equal to 110 dBA would be considered to be potentially “noise intensive”; and
- In response to complaints once differentiation between site related construction noise sources and other sources has been established.

Noise & Vibration Auditing

The results of all noise audits and monitoring would be submitted to PBG’s Site Manager (environmental representative) who will compile progressive impact assessments as work progresses. Submission of the internal noise auditing report to relevant authorities and/ or stakeholders may be applicable on an as per requested basis.

Site noise & vibration emissions requiring monitoring (e.g. following a compliant) would be undertaken in accordance with procedures outlined within the Construction Environmental Management Plan and would be carried out on the property of an affected receiver or at the boundary of the receiver (whichever is most affected).

The noise & vibration audit reporting would include the following information as a minimum during construction works:

- Work activity.
- Name of auditor and site manager.
- Details of the instrument used for the measurement including make, model, serial number and last calibration date.
- Date and time of test.

- Weather condition during test, including air temperature, wind speed, wind direction and details of rain/wet conditions if applicable.
- Plant and equipment operating at the time of measurement.
- Noise measurement recorded for each activity as follows:
- Concurrent construction occurring (not associated with Ex-Situ works) and other background noise sources.
- Photograph of transducer and description of mounting location.
- Plant and equipment operating at the time of measurement.
- Description of other vibration source(s) (non-site related) and level if measurable.

Noise Intensive Works

In accordance with PBG requirements for noise intensive works, activities such as rock breaking, rock hammering, sheet piling, pile driving and any other activities which result in impulsive or tonal noise generation and affect sensitive receivers are only scheduled between the following hours:

- 8.00 am and 12.00 pm Monday to Friday;
- 2.00 pm and 5.00 pm Monday to Friday; and
- 8.00 am and 12.00 pm Saturdays.

Where these activities are undertaken for a continuous three-hour period and exceed the construction noise management levels at noise sensitive receivers, a minimum respite period of at least one hour shall be scheduled before activities recommence.

Regular Noise Checks of Equipment

Regular noise checks of plant and equipment will be undertaken to ensure they are within the limits set by the manufacturer. If they are found to be higher than nominated for the equipment, items such as mufflers and engine shrouds will be installed to reduce the level of noise produced.

Selection of Alternate Processes

Where a particular construction activity is found to generate excessive noise levels, alternative processes and methods will be assessed for implementation. For example, the use of a pulveriser in lieu of a hammer would reduce noise levels and dependant on the specific application would be a viable alternative.

Acoustic Barrier

Barriers or screens can be an effective means of reducing noise. Barriers on this project would be located at the source of the noise if required. It is noted that the placement of barriers at the source is generally only effective for static plant and equipment such as jackhammers, or concrete cutting. Mobile plant cannot be effectively attenuated by placing barriers at the source.

Material Handling

The installation of rubber matting over material handling areas can reduce the sound of impacts due to material being dropped by up to 20dB(A). If material is being dropped on an ongoing basis rubber matting will be installed for use.

The Project Manager is responsible for implementing the above controls during construction. Noise and Vibration impact assessment is to be undertaken before commencement of works.

General Project Noise and Vibration Aspects and Impacts are noted below:

NOISE & VIBRATION MANAGEMENT OBJECTIVES – To ensure noise impacts are kept to a practical minimum and avoid nuisance to neighbouring properties

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
NOISE & VIBRATION	Construction activities to be scheduled to achieve lowest possible disturbance due to construction noise	Site Manager	Prior to works commencing and on going	Inspections / Audit
	When construction / demolition will involve the use of heavy equipment and significant noise generating activities, a Community letter notification will be issued to all local residents will be issued prior to commencement.	Site Manager	Prior to works commencing and on going	Inspections / Audit
	Tools to be selected for low noise transmissions where possible Wherever practical, piling activities that affect sensitive receivers shall be undertaken using quieter alternative methods than impact or percussion piling, such as bored piles or vibrated piles.	Site Manager	Prior to works commencing and on going	Inspections / Audit
	Construction machinery and tools to be maintained according to manufacturer's specification or better	Site Manager	Prior to works commencing and on going	Inspections / Audit
	Contact telephone number to be provided for the public so that information can be received or complaints be made in relation to noise or vibration. *Displayed on outside fence in accordance with the WHS Regulation*	Project Manager	Prior to works commencing	Inspections / Audit
	Monitoring to be undertaken in response to any public complaints. Noise levels to be maintained below the limits specified below.	Site Manager	On going	As required
	Shield sensitive receivers from noisy activities – use structures to shield residential receivers from noise such as noise barriers, site shed placement etc	Site Manager	On going	As required
	Construction related traffic – limit the speed of vehicles and avoid the use of engine compression brakes	Site Manager	On going	As required
	Minimise disturbance arising from delivery of goods to construction sites – loading and unloading of materials is to occur as far as possible from sensitive receivers	Site Manager	On going	As required
Performance Objectives	✓ Minimal complaints in relation to "unreasonable" or "intrusive" noise from members of the public and surrounding properties. ✓ Construction in accordance with requirements of Department of Environment & Climate Change 'Interim Construction Noise Guideline'. ✓ Construction in accordance with AS22436-1981, Guide to Noise Control on Construction, Maintenance and Demolition Sites ✓ All work to be carried out during permitted hours as stipulated in the Contract.			

NSW Environmental Protection Act Noise Criteria from construction sites for residential receivers

Parameter	Maximum Acceptable Noise Level
Construction periods of 4 weeks or less	L_{10} noise level not to exceed existing L_{90} background noise level by more than 20 dB
Construction periods of 4 – 26 weeks	L_{10} noise level not to exceed existing L_{90} background noise level by more than 10 dB

Note: L_{10} is the level of noise exceeded over 10 per cent of the monitoring time

L_{90} is the level of noise exceeded over 90 per cent of the monitoring time

Noise activities exceeding EPA noise levels are not to exceed 15 minutes in duration

12 CONTAMINATION & WASTE MANAGEMENT

Action Taken for Minor Spills

The following shall occur to contain any minor spills on the project.

Any minor spill of chemicals, dangerous goods, hazardous materials or unknown substances is to be reported to the Site Manager. A non-conformance report (Form N1.1) will be raised. The Site Manager has an industrial spill kit in the site shed and workers are to be instructed on its proper use.

Immediate attempts are to be made to contain and/or limit the spill using all resources as required to carry out this containment.

Likely measures could include one or more of the following:

- Use of absorbent material
- Use of sandbags to construct a bund wall
- Temporary sealing of any cracks / damage to infrastructure
- All reasonable measures implemented to aid in the containment of the material.

As required the Site Manager is to co-ordinate the response, containment and clean up. Disposal of all materials shall be performed in accordance with legislation. Spills are to be reported to the Environmental Representative.

Action Taken for Major Spills

Major spills are not expected on site as there are only small volumes of chemicals being used.
Any major spill of chemicals, dangerous goods, hazardous materials or unknown substances is to be reported to the Site Manager. A non-conformance report (Form N1.1) will be raised.

Any major spill of chemicals, dangerous goods, hazardous materials or unknown substances is to be reported to the Site Manager. A non-conformance report (Form N1.1) will be raised.

Refer to the SDS for the chemical to ascertain what to do in case of a spillage.

An initial assessment is made of the situation, in particular what needs to be done to contain and / or limit the spill and what resources will be required to carry out this containment. Likely measures could include one or more of the following:

- Use of absorbent material
- Use of sandbags to construct a bund wall
- Transferring remaining substance to alternative storage areas

- Temporary sealing of any cracks/damage to infrastructure
- All reasonable measures to be undertaken to aid in the containment of the material

If the spill can be dealt with by onsite resources, the Site Manager is to co-ordinate the response. Disposal of all materials shall be performed in accordance with legislation.

If containment is regarded to be outside the on-site resources, then the NSW Fire and Rescue is to be called. If some doubt exists, NSW Fire and Rescue (Tel: 000) should be called as a precautionary measure.

The NSW EPA (formerly DECC) for Hazardous Waste (Tel: 9995 5000) should be notified if appropriate.

Where appropriate, evacuation procedures will be implemented to remove non-essential personnel from the affected area.

On site staff representing the client is to be notified.

Access and egress to the area is to be established to ensure that the appropriate vehicles have effective access and congestion is minimised.

If the NSW Fire and Rescue or EPA attends, their senior officer assumes control of the operation with PBG employees and subcontractors assisting as required.

A full investigation report of the event is completed as soon as is practicable after the situation has stabilised. Recommendations to prevent a re-occurrence are to be acted upon in accordance with the timing recommended in the investigation report.

Contaminated Ground

The Project Manager shall promptly notify the Client's Representative of any suspected or potentially contaminated ground exposed during construction activities.

PBG shall cease construction activity in the vicinity of the suspected or potentially contaminated ground until it has been assessed and appropriate protection measures determined. PBG shall comply with the Contaminated Land Management Act in relation to disturbance or treatment of potentially contaminated ground.

The Site Manager shall install any control measures needed to divert surface runoff away from contaminated ground and to treat any surface runoff contaminated by exposure to contaminated ground.

Please refer to section 14.2 of this CEMP for the unexpected finds protocol for suspected contaminated ground for further details.

Waste Classification & Validation

Excavated Natural Material (ENM) generated during earthworks will be retained and reused on site where possible. In accordance with the Construction & Waste Management Sub-Plan – Appendix E4, fill material required to be disposed off-site will first be assessed and assigned a waste classification prior to off-site disposal.

It is anticipated that excavation of unexpected finds and off-site disposal is the most likely management strategy to be implemented for small / minor unexpected finds. All soil requiring
offsite disposal will be classified, managed and disposed in accordance with the Waste Classification Guidelines (EPA 20149) or EPA waste exemptions if appropriate.

Documentary evidence for all soil disposal shall be maintained and provided to the appointed environmental consultant for inclusion within validation advice or an overarching validation report documenting the close out of spoil disposal and/or unexpected finds management activities during the works

Please refer to the **Construction & Demolition Waste Management Sub-Plan (CDWMSP) – Appendix E4** for further information.

Lead Based Paints, PCBs

If unknown hazardous materials are found during the works, work will stop in that area until removal is approved by the Client's Representative. Lead based paint, heavy metals or unknown waste will be managed in accordance with the project SWMS '*Demolition for lead based paint', 'SWMS painting for lead based paint control measures'*.

Asbestos

If asbestos is potentially identified all works are to cease and the area made safe with material sheeting and wet down to contain air born fibres. The area will then fenced off until a licenced asbestos assessor can inspect the area. Upon a potential find the client representative is to be informed and the wider work crew notified of the issue.

Please refer to the **Construction & Demolition Waste Management Sub-Plan (CDWMSP) – Appendix E4** for further information.

Herbicides

All herbicide use should be undertaken in accordance with the requirements of the Pesticides Act 1999 and the Pesticides Regulation 1995. It is the responsibility of herbicide applicators to complete a risk assessment prior to use of herbicides to ensure that the weed control is completed without risk of:

- Injury to another person
- Damage to another person's property
- Harm to a non-target plant or animal.

If there is risk of injury, damage or harm, weed control should cease until the risk may be controlled.

In addition, all herbicide applicators should be suitably trained, maintain records and ensure that the application method (i.e. the situation in which it is uses, target species, the application rate, application method and use of additives such as dye or surfactant) are consistent with either:

- The product label and Material Safety Data Sheet (MSDS), and/or;
- An off-label permit for minor and emergency uses issued by the Australian Pesticides and Veterinarian Medicines Authority (an application should also be made to undertake works with an existing permit if the permit does not apply to persons generally).

12.1 General Contamination & Waste Management Measures

CONTAMINATION AND WASTE MANAGEMENT OBJECTIVES – To appropriately manage contaminated materials and wastes generated by the project, thereby conserving valuable resources and reducing potential impacts on water and land.

+	Mitigating Actions	Responsibility	Timing	Monitoring
HAZARDOUS CHEMICALS	Hazardous Chemicals storage shall be bunded in accordance with AS1940 (The Storage and Handling of Flammable and Combustible Liquids).	Site Manager	Prior to works commencing and ongoing	Inspections / audit

	Impermeable membranes (for example plastic / concrete blinding over plastic) will be installed within the bunded area to prevent ground contamination in the event of a spill.	Site Manager	Prior to works commencing and ongoing	Inspections / audit
	Storage locations will be in areas where materials will not be able to enter water courses or drains.	Site Manager	Prior to works commencing and ongoing	Inspections / audit
	Small amounts of Hazardous Chemicals to be used – general construction materials. If not specified, environmental friendly products to be sourced.	Site Manager	Prior to works commencing and ongoing	Inspections / audit
	Herbicides must only be used onsite by suitably qualified and/or experienced personnel.			
	Storage of material to be secured to prevent vandalism / malicious damage.	Site Manager	Ongoing	Inspections / audit
	All material safety data sheets (MSDS's) and information relating to the storage, use and handling of chemicals and spillage will be kept at nearby the Site office, and first aid kit.	Site Manager	Prior to works commencing and ongoing	Inspections / audit
	Appropriate spill clean-up materials shall be stored nearby the site shed. The location of spill containment materials shall be identified in the environment induction.	Site Manager	Prior to works commencing and ongoing	Inspections / audit
Project Objectives	✓ Spills are minimised, effectively contained, clean up and disposed of in accordance with relevant legislation and best practices ✓ Bunded and lined maintenance areas are intact, correctly sized and clean of other materials ✓ No contamination of land			

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
WASTE AND RESOURCES	Requirements of **Construction & Demolition Waste Management Plan'** to be implemented throughout the project.	Site Manager / Project Manager	On going	Inspections / audit
	Waste to be segregated wherever possible.	Site Manager	On going	Inspections / audit
	Solid waste to be assessed prior to disposal.	Site Manager	On going	Inspections / audit
	Recycling of construction materials, chemicals and other equipment to be undertaken where practicable	Site Manager	On going	Inspections / audit Recycling dockets, WRAPP report
	Food scraps to be placed within PBG provided bins	Site Manager	On going	Inspections / audit
Regulated Wastes (includes sewerage, hazardous wastes)	Any hazardous waste (PCBs, Asbestos, lead based paint etc) to be managed in accordance with the WHS plan, ITPs and disposed of in accordance with Occupational Health and Safety and Environmental requirements.	Site Manager	On going	Inspections / audit

Performance objectives	✓ No waste of any description to be released from the works site in an uncontrolled situation ✓ Maximum recycling of all waste where practicable ✓ All non recyclable waste shall be disposed of at an EPA licensed waste facility according to "Environmental Guidelines: Assessment, Classification and Management of liquid and non liquid wastes (EPA 1999) ✓ Ecologically sustainable management of hazardous waste in accordance with Hazards and risk section in environmental plan ✓ Purchase of recycled materials for roadworks where possible

13 OTHER ENVIRONMENTAL ASPECTS AND IMPACTS

Other environmental aspects and impacts assessed as relevant to this project identified below have been addressed in this section:

- Restoration of Site
- Fire Management
- Aboriginal & Historical Heritage
- Public Health
- Traffic Management

Site Restoration

SITE RESTORATION OBJECTIVES – To ensure that restored areas at completion of construction are safe, stable, non-polluting, self-sustaining and require minimal additional management through operation of the site.

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
RESTORATION OBJECTIVES	Soil disturbance and vegetation clearing activities will be limited to the project footprint only.	Site Manager	Prior to works commencing / Ongoing	Inspections / Audit
	Site restoration will be undertaken as soon as reasonably practicable.	Site Manager	On going	Inspections / Audit
	Excavated soil will be used elsewhere on site if practical. Soil will be reused as close as possible to its origin.	Site Manager	On going	Inspections / Audit
	Direct return of topsoil to be practiced wherever practicable.	Site Manager	On going	Inspections / Audit
	Following completion of construction works, the site will be rehabilitated by PBG to a condition suitable to prevent erosion and allow for the landscape contractor to undertake revegetation works.	Project Manager	At completion of project	Audit
Performance Objectives	✓ Land is returned to its previous condition or in a manner suitable for its intended use post-construction ✓ No complaints from landholders regarding land reinstatement and productivity ✓ No harm to people or fauna from rehabilitation activities.			

Fire Management

FIRE MANAGEMENT OBJECTIVES – To minimise the risk of fires being started by the project works and to manage the risk of off-site bushfires

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
FIRE MANAGEMENT OBJECTIVES	Ensure smoking is only conducted within the designated smoking area with cigarette butt bins provided	Project Manager	Prior to works commencing and at induction	Inspections / Audit
	All construction associated machinery or vehicles	Site Manager	On going	Inspections /

	should be equipped with portable fire extinguishers			Audit
	Open fires, including barbecues and brush burning are prohibited.	Site Manager	On going	Site Inspections/ Audit
	Flammable material must not be stockpiled or stored near hot work activities (including vegetation stockpiles).	Site Manager	On going	Inspections / Audit
	All workers must comply with fire restrictions and PBG hot works permit procedures.	Site Manager	On going	Inspections / Audit
	Fire bans for high risk days, must be complied with.	Site Manager	During Fire Bans	Inspections / Audit
Performance Objectives	✓ Compliance with the Rural Fires Act (NSW) 1997 & Rural Fires Regulation 2013. ✓ No Hot Works permits issued and works permitted during fire bans. ✓ No Fires either on or off-site started by any aspect of the project.			

Aboriginal & Historical Heritage

ABORIGINAL & HISTORICAL HERITAGE OBJECTIVES – To prevent or minimise the disturbance of Aboriginal or historically significant heritage items and requirements

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
HERITAGE OBJECTIVES	Client Heritage Items or requirements addressed as per the contract documents.	Project Manager	Prior to works commencing	Audit
	Any findings of European or aboriginal heritage items, or human remains, all works to cease immediately with the Client and Heritage Consultant to be notified.	Site Manager / Client PM Team.	As required	Audit
	Following the findings, works to proceed based on the recommendations from assessments made.	Project Manager / Client PM Team.	As required	Audit
Performance Objectives	✓ Compliance with Heritage Act 1977 No 136 (NSW) and *Heritage Regulation 2012* ✓ No complaints from NSW Government, or members of the public.			

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
PUBLIC HEALTH	Project WHS plan to be produced to ensure construction staff are not at risk	Project Manager	Prior to works commencing and updated as required	Audit
	Incident response plans to be developed to ensure incidents are managed effectively.	Project Manager	Updated as required	Audit
	Construction & Permanent external lighting installations to be not directed towards site boundaries or neighbouring and installed in compliance with AS 4282-2019 Control of the obtrusive effects of outdoor lighting. Installations to be certified by electrical consultant.	Project Manager	Prior to works commencing and updated as required	Audit
Performance Objectives	✓ All incidents reported and actioned in accordance with Incident / Emergency plans as outlined in project induction.			
HAZARDS and RISKS	Project WHS plan to be prepared. Key elements to include: • Definition of communication channels between internal and external management staff, Client's Representative and the community.	Project Manager	Prior to works commencing and updated as required	Audit

	• Change / control procedure for changes in personnel etc • Procedures to be appropriate for full range of safety / emergency issues • Legislation affected by construction hazards			
Performance Objectives	✓ Compliance with Australian Standards for WHS criteria for WHS activities. ✓ Australian Standards for WHS criteria for road construction. ✓ SafeWork NSW criteria for WHS activities. ✓ AS1742.3 – 1985 Traffic Control Devices for Work on roads. ✓ Action taken on all incident reports.			

Traffic Management

TRAFFIC AND ACCESS MANAGEMENT OBJECTIVES– To prevent and mitigate and disturbances to the local road network resulting from planned activities

Issue	Mitigating Actions	Responsibility	Timing	Monitoring
ACCESS AND TRAFFIC	Appropriate notice regarding any disruptions to normal traffic flow must be given to the community. Site Manager to be notified to assist in access and egress of vehicles.	Project Manager	Prior to works commencing and ongoing	Inspections / audit
	A Traffic and Access Management Plan has been developed to incorporate mitigation controls during the construction period. – Refer to Appendix B6 of PMP	Project Manager	Prior to works commencing and ongoing	Inspections / audit
	Emergency services to be informed of any changes to normal traffic flow that may have an impact on their ability to respond to incidents / emergencies urgently.	Project Manager	Prior to works commencing and ongoing	Inspections / audit
	Ensure pedestrian and cyclist access is through or around the site is provided.	Project Manager	Prior to works commencing and ongoing	Inspections / audit
	Locations for safe parking of construction vehicles to be identified and communicated to PBG site personnel.	Site Manager	Prior to works commencing and ongoing	Inspections / audit
Performance Objectives	✓ No complaints from the client, local councils, NSW Government, local residents.			

14 UNEXPECTED FINDS PROTOCOL

14.1 Suspected Aboriginal Finds

PBG will ensure that in the event that surface disturbance identifies a suspected Aboriginal object, the following steps will be implemented IMMEDIATELY:

- The Site Manager will ensure all works are halted in the immediate area with an exclusion zone established to prevent any further impacts to the object(s).
- The Site Manager will contact PBG management and the client ASAP to notify relevant stakeholders of the potential discovery.
- A suitably qualified archaeologist and the registered Aboriginal representatives must be contacted to determine the significance of the objects.
- The site is to be registered in the Aboriginal Heritage Information Management System (AHIMS) which is managed by Heritage NSW under Department of Premier and Cabinet and the management outcome for the site included in the information provided to AHIMS. The Applicant must consult with the Aboriginal community representatives, the archaeologists, and Heritage NSW to develop and implement management strategies for all objects/sites.
- Works shall only recommence with the written approval of Heritage NSW.

14.2 Suspected Ground Contamination

Where evidence of contamination is encountered (Unexpected Finds), excavation works shall cease until appropriate precautions are in place to protect the health and safety of workers and the environment under instruction from the project hygienist:

- The Site Manager will ensure all works are halted in the immediate area with an exclusion zone established to prevent any further disturbance to the area.
- The Site Manager will contact PBG management and the client ASAP to notify relevant stakeholders of the potential discovery.
- A project hygienist will be appointed to undertake assessment and testing to verify whether contamination is present and to what extent.
- Depending on the level of contamination identified, a remediation action plan (RAP) may need to be developed and implemented in order for works to re-commence in the affected area.
- In compliance with SSD-8378 Condition B6, PBG will ensure any material identified as contaminated must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.

Evidence of contamination may include:

- Odorous soils or water (hydrocarbon odours); and
- Discoloured or stained soils or water (e.g. dark coloured staining and/or hydrocarbon stained soils)

14.3 Suspected Historical Finds

PBG will ensure that if any unexpected archaeological relics are uncovered during the work, the following steps will be implemented IMMEDIATELY:

- The Site Manager will ensure all works are halted in the immediate area with an exclusion zone established to prevent any further impacts to the object(s).
- The Site Manager will contact PBG management and the client ASAP to notify relevant stakeholders of the potential discovery.
- Heritage NSW will be contacted to determine the significance of the objects
- Works shall only recommence with the written approval of Heritage NSW.

15 ENVIRONMENTAL INSPECTIONS & INCIDENT REPORTING

Environmental inspections can be undertaken formally during weekly site inspections using form or informally using form in which environmental issues may be identified. When issues are identified, a priority for action to be implemented is to be as follows:

Priority	Action Required
Immediate	Immediately and closed out on day of inspection
High	Within 24 hours
Medium	Within 3 working days
Low	Within 5 working days
Other	By the date noted

All environmental incidents must be reported to the client within 24 hours (immediately for incidents that may cause material harm to the environment) of occurring or first being observed. Following an investigation, additional information found following the incident are to be recorded within the 48 hours of the incident first being observed.

A list of emergency response personnel with contact details with contact detail will be located on the site notice board outside the Site Manager's office.

Environmental emergency services contact details are listed below for use in case of an environmental emergency requirement:

Situation	Non-Project Emergency Contacts	
Fire	Fire Brigade	000
	SafeWork NSW	13 10 50
Liquid chemical spill, into water or soil	OEH-EPA	13 15 55
	Fire Brigade	000
	SafeWork NSW	13 10 50
Uncontrolled release of water	OEH-EPA	13 15 55
	Sydney Water	13 20 90
Flood	SES	13 25 00
	OEH, if damage to environment	13 15 55
Storm	SES	13 25 00
	OEH, if damage to environment	13 15 55
Uncontrolled release of gas	OEH	13 15 55
	Safe Work NSW	131050
	Fire Brigade	000
	Police, if evacuation required off site	000
Explosion	Fire Brigade	000

	Police	000
	OEH, if damage to environment	13 15 55
	SafeWork NSW	121050
	Utility companies, if utilities damaged	131388

An environmental incident can be caused by many circumstances that will impact the environment. These incidents include contamination, harm to flora and fauna, damage to heritage items etc.

Please see below a list of possible environmental incidents:

Type	Incidents
Air	Odour that travels beyond the site boundary
Air	Dust exceeding reasonable levels without active management measures in place
Air	Operation or maintenance of plant in a manner that causes or is likely to cause air pollution
Water	Discharge of water on or off site in a manner that causes or is likely to cause water pollution
Noise	Noise that travels beyond the site boundary as a result of poorly maintained plant or operation of plant in an inefficient manner
Noise	Failure to comply with the approved hours of work
Land	Cause any substance to leak, spill or otherwise escape (whether or not from a container) in a manner that harms or is likely to harm the environment
Land	Spill/deposit material or allow material to be deposited on land in a manner that causes or is likely to cause land pollution
Land	Cause contamination of land
Land	Dispose of waste in a manner that harms or is likely to harm the environment
Flora/ Fauna	Harm or “pick” a threatened species, endangered population or endangered ecological community
Flora/ Fauna	Damage to vegetation, fauna or habitat including watercourses
Heritage	Damage, disturbance, destruction or works to heritage items/relics
Heritage	Damage, disturbance, or destruction of Aboriginal objects or places

15.1 DPIE Incident Notification, Reporting and Response Requirements

The Planning Secretary must be notified through the major projects portal immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.

Subsequent notification must be given and reports submitted in accordance with the requirements set out below.

A written incident notification addressing the requirements set out below must be emailed to the Planning Secretary through the major projects portal within seven days after PBG

becomes aware of an incident. Notification is required to be given under this condition even if the PBG fails to give the notification required under condition C37 or, having given such notification, subsequently forms the view that an incident has not occurred.

Written notification of an incident must:

- identify the development and application number;
- provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
- identify how the incident was detected;
- identify when the applicant became aware of the incident;
- identify any actual or potential non-compliance with conditions of consent;
- describe what immediate steps were taken in relation to the incident;
- identify further action(s) that will be taken in relation to the incident; and
- identify a project contact for further communication regarding the incident.

Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, PBG must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.

The Incident Report must include:

- a summary of the incident;
- outcomes of an incident investigation, including identification of the cause of the incident;
- details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
- details of any communication with other stakeholders regarding the incident.

16 COMMUNICATION, COMPLAINTS & STAKEHOLDER MANAGEMENT

Communication

Communication and interfaces shall be conducted in accordance with Procedure T 1 “Toolbox meetings”. Any site meetings shall be performed in accordance with Procedure M1 “Meetings. “

Environmental issues specific to this project are communicated as follows:

Method / Medium	Frequency	Participants	Record
Toolbox meeting	Where relevant to a particular work activity	Relevant project personnel and subcontractors	Form T1.1 “Toolbox meeting record” and site diary
Management review	Monthly	Project team / Managing Director	Minutes
Site meeting/PCG	As directed by the Client	PM/SM/client	Minutes

Complaints Management

Community groups, clients, interested parties etc may complain re our practices, activities, and processes.

On receipt of any complaint, the Site Manager, Project Manager or Site HSE Officer shall record the necessary details on the complaints form template provided are to be reported to the Project Manager and recorded within the site diary daily.

Complaints will be managed by PBG & SINSW in accordance with section 6.2 of the **Community Communication Strategy – Appendix E6.**

16.1 Community Engagement, Media & Stakeholder Management

Communication with all Stakeholders will be critical for this project. PBG and SINSW stakeholders will hold weekly Coordination Meetings. The meetings will be used to discuss the progress of the building works, WHS and any environmental issues or impacts within the project.

Disruption Notices will be issue for approval if any work element is to impact surrounding areas.

PBG have assisted in the preparation and implementation of the project Community Communication Strategy, included within this CEMP as **Appendix E6**.

The intent of the CCS is to:

- Promote the benefits of the project
- Build key schools community stakeholder relationships and maintain goodwill with impacted communities
- Manage community expectations and build trust by delivering on our commitments
- Provide timely information to impacted stakeholders, schools and broader communities
- Address and correct misinformation in the public domain
- Reduce the risk of project delays caused by negative third party intervention
- Leave a positive legacy in the Gledswood Hills community.

PBG will work collaboratively with SINSW in relation to:

- Building and maintaining GHPS's relationship with their community and with residents
- Ensuring cooperation with all SINSW planned communications activities
- Providing all required material, whilst cooperating with and providing assistance to SINSW Communications Directorate for the preparation of media releases, site events and responses to priority correspondence
- Contributing information to, and attending, stakeholder and community meetings as required e.g. information booths, information sessions and site walkthroughs with stakeholders
- Assisting in the provision of regular information to the community and local stakeholders through written communications and other channels as agreed in the CEP and as directed by the Principal
- Ensuring regular information is provided to the community and relevant stakeholders in a timely and sensitive manner as directed and coordinated by the Principal Developing specific communications plans for disruptive works, such as road diversions and closures, which impact the local community
- Developing specific communications plans for sensitive works, such as tree removal, hazardous material removal and demolition of heritage items, which will be of specific interest to the local community
- Ensuring (to reasonable effect) the ongoing operation of any local facilities including bicycle lanes and shared use paths.

PBG will ensure that all persons working the site do not engage with, approach or provide comment to media, political stakeholders, neighbours, parents, students or other stakeholders in relation to project matters. All media or stakeholder enquiries will be referred to the PAP.

17 TRAINING AND AWARENESS

The Project Manager shall identify the training needs for project personnel but are to include general environmental awareness including incident management, community sensitivities and noise and dust mitigation at a minimum.

Site Induction shall be provided to all personnel working on the site in accordance with Procedure I 1 "Induction". The project specific environmental requirements will be included in the site rules (Appendix

B3 of the project management plan) which are discussed during induction. The Site Manager shall ensure that records of all site induction are maintained.

18 MONITORING AND TESTING

General

Monitoring and testing activities will be carried out by the Site Manager / Site HSE Officer or specialist environmental agencies / organisations during the removal of asbestos or other hazardous materials – this will be referenced within the HAZMAT removal plan developed by a qualified occupational hygienist.

Where testing is performed by registered laboratories, the test reports shall be issued on a laboratory test report signed by an authorised signatory for the test concerned.

Monitoring of Delivery to Site for Plant and Equipment

Any equipment, plant or materials delivered to site shall be checked by the Site Manager and / or Site HSE Officer and subcontractor's representative as follows:

Item	Environmental attributes to be checked	Documents required
Deliveries	• Items delivered to the correct areas • Materials are to be stacked out of access ways • Do not store materials in within operational areas • SDS required for all chemicals	Deliveries in first instance to site compound. PBG to deliver materials to the area near site shed
Fuel, oil, chemicals and lubricant	• Lids / covers secured • No leakage / spillage • Correct labelling	Site inspection checklist SDS
Plant & Equipment (generators, pumps)	• With specified noise level • No excessive vibration • Fuel and oil leaks	HammerTech Equipment Induction Module

All machinery and plant will be visibly inspected including the review of all service records, maintenance logbooks. All plant and machinery without the relevant records and logbooks will be removed off site.

Where discrepancies exist with any of the above, the items / Plant shall be identified and not allowed to be used.

Environmental Monitoring and Testing Records

Weekly environmental inspections are carried out during construction by the Site Manager or Site HSE Officer or Project Manager. In the event of heavy rainfall or strong winds, a further formal environmental inspection is carried out.

19 NON-CONFORMANCE & CORRECTIVE ACTION

Non-conformance

Non-conformance related to environmental practices, activities and processes identified during monitoring, verification and testing shall be suitably identified / marked and reported. All non-

conformances shall be documented using a Non-conformance / Improvement / Corrective Action Report (Form N1.1) and be actioned as specified in Procedure N1.

Incident Reporting

Any incident, such as spillage of chemicals, at the workplace which has the potential to cause an impact on the environment shall be dealt with by the Site HSE Officer in conjunction with the Site Safety Officer. Incident management is detailed in the project emergency plan (**PMP Appendix B4**) and is in accordance with project requirements.

Property Damage

Any complaints resulting from property damage will be investigated immediately and reported to the proponent as described above. Property damage will be rectified as soon as possible in consultation with the relevant parties.

DPIE Non-Compliance Notification (C37)

The Planning Secretary must be notified through the major projects portal within seven days after the Applicant becomes aware of any non-compliance. The Certifier must also notify the Planning Secretary through the major projects portal within seven days after they identify any non-compliance.

The notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

20 ENVIRONMENTAL RECORDS

Adequate records shall be maintained to demonstrate conformance to specified environmental requirements.

The records to be maintained for this project shall include, but not be limited, to the following:

- Site inspections
- Meeting minutes
- Tool box meeting minutes
- Calibration / checking reports
- Monitoring and testing records
- Training records
- Audit records
- Permits / approvals
- Impact statements
- Asbestos records
- Spoil removal
- Waste records – scrap steel, paper waste

All such records shall be legible and identifiable as to the item / area covered. The Site Manager shall ensure that all records are filed, stored, and maintained in such a way as to be readily retrievable and to minimise deterioration, damage or loss. The records shall be maintained in accordance with Procedure R1 "Records" Records will be archived for 5 years after Practical Completion.

21 ENVIRONMENTAL AUDITING & MANAGEMENT SYSTEM REVIEW

Planned and documented audits aimed at evaluating the conformance of the project management system shall be carried out as detailed in Procedure A2 "Audits" by the HSEQ Manager – Chris Sposito. Auditors shall be suitably trained and independent of the area being audited.

The Systems/HSEQ Manager maintains an audit schedule for the project. Generally, the initial audit occurs within 3 months of on-site mobilisation and at 3-4 monthly intervals for the duration of the project.

Reviews of the Project environmental system occur after each internal audit to ensure the system's continuing suitability and effectiveness. Management receives a copy of all audit reports.

21.1 DPIE Independent Environmental Audit

In Accordance with SSD- SSD 8378 Approval conditions, independent environmental audits of the project must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements. With the proposed independent auditor to be approved by DPIE prior to the commencement of the audit.

Wolfpeak has been appointed as the independent site auditor by SINSW for this project.

22 EMERGENCY PREPAREDNESS AND RESPONSE

The Project Manager will develop an emergency plan (**PMP Appendix B4**) which specifies the steps to be taken and the parties to contact in the event of an emergency / evacuation.

The Site Manager shall arrange for an emergency / evacuation exercise to test the effectiveness of the procedure within the first two weeks after site establishment, at Phase 1, Phase 2 and Phase 3 of the project. For projects of less than 3 months, two drills are to be conducted.

23 RELEVANT LEGISLATION / AUSTRALIAN STANDARDS / GUIDELINES

The Environmental legislation (as amended) relevant to work under the Contract may include, but is not limited to:

Planning Approval: SSD 8378

Environmental Legislation (as amended) relevant to work under a Contract may include, but is not limited to:

Air Quality: Clean Air Act, 1961 (NSW)
Protection of the Environment (Clean Air) Regulation 2010 (NSW)

Asbestos Containing Material
Code of Practice – How to Manage and Control Asbestos in the Workplace, Sep 2019
Code of Practice – How to Safely Remove Asbestos, 2019

Environmental Protection
Fisheries Management Act, 1994(NSW)
Marine Pollution Act, *2012* (NSW)
Marine Parks Act 1997
Threatened Species Conservation Act, 1995 (NSW)
Native Vegetation Conservation Act, *2003* (NSW)
Native Vegetation Regulation 2013
Noxious Weeds Act, 1993 (NSW)

Pesticides Act *1999*
Protection of the Environment Operations Act, 1997 (NSW) (refer to Clause 6.3.2)
Environmental Management Plan Guideline: Guideline for Infrastructure Projects (DPIE April 2020)

Environmental Planning and Impact Assessment
Roads Act, 1993 (NSW)
Environmental Planning and Assessment Act, 1979 (NSW)
Local Government Act, 1993 (NSW)
Soil Conservation Act, 1938 (NSW)
National Parks and Wildlife Conservation Act, 1974
National Parks and Wildlife Amendment (Public Health) Regulation 2013
Land and Environment Court Act, 1979 (NSW)
Environment Protection Act, 1997
National Parks and Wildlife Regulation 2009
Environmental Protection Regulation 2005

Fire
Rural Fires Act, 1997 (NSW)
Rural Fires Amendment Regulation 2013

Hazardous Substances and Waste Management
Environmentally Hazardous Chemicals Act, 1985 (NSW)
Waste Avoidance and Resource Recovery Act 2001
Waste Recycling and Processing Corporation Act 2001 (NSW)
Dangerous Goods Act, *2008* (NSW)
Contaminated Land Management Act, 1997 (NSW)
Contaminated Land Management Regulation 2013

Heritage Conservation
Heritage Act 1977 No 136 (NSW)
Heritage Regulation 2012
Protection of Moveable Cultural Heritage Act, 1986
Aboriginal and Torres Strait Islander Heritage Protection Act, 1984

Noise
Noise Control Act, 1975 (NSW)

Pollution
Environmental Offences and Penalties Act, 1989 (NSW)

Water Quality
Clean Waters Act, 1970 (NSW)

Protection of the Environment Operations Act (POEO Act)
The POEO Act of 1997

Australian Standards
AS/NZS ISO 14001:2016 Environmental Management systems – requirements with guidance for use
AS 2436 Guide to noise control on construction, maintenance and demolition.

24 AMENDMENTS

REVISION	DATE	SECTION	DESCRIPTION OF AMENDMENTS
2	21/04/23	All	Updates per SINSW Compliance feedback 21.04.23
		8.2	Street Sweeping added as mitigation measure
"	"	16	Added SINSW CCS reference
"	"	21.1	Wolfpeak appointed as Independent Auditor
"	"	8.6	Appendix F – CVs added for B19a

25 APPENDICIES

25.1 Appendix A – CEMP Development Council Consultation

Education
School Infrastructure

Post Approval Consultation Record

Identified Party to Consult:	**Camden Council**
Consultation type:	**Email Correspondence**
When is consultation required?	**Prior to Construction Commencement**
Why	**SSD 8378 Condition B14: Prior to commencement of construction, the Applicant must prepare a Construction Environmental Management Plan (CEMP) and it must include, but not be limited to, the following:** **(a) Details of: (i) hours of work; (ii) 24-hour contact details of site manager; (iii) management of dust and odour to protect the amenity of the neighbourhood; (iv) stormwater control and discharge; (v) measures to ensure that sediment and other materials are not tracked onto the roadway by vehicles leaving the site; (vi) groundwater management plan including measures to prevent groundwater contamination; (vii) external lighting in compliance with AS 4282-1997 Control of the obtrusive effects of outdoor lighting; (viii) community consultation and complaints handling;** **(b) Construction Traffic and Pedestrian Management Sub-Plan (see Condition B16);** **(c) Construction Noise and Vibration Management Sub-Plan (see Condition B17);** **(d) Construction and Demolition Waste Management Sub-Plan (see Condition B18);** **(e) Construction Soil and Water Management Sub-Plan (see Condition B19);** **(f) an unexpected finds protocol for contamination, Aboriginal and non-Aboriginal heritage and associated communications procedure and associated communications procedure; and** **(g) waste classification (for materials to be removed) and validation (for materials to remain) be undertaken to confirm the contamination status in these areas of the site.**
When was consultation scheduled/held	**Initial plan submission to council mailbox on 30/03/2023, with follow up email for feedback/acknowledgement of plans submission by relevant council officer on 17/04/2023**
When was consultation held	**30/03/2023, 17/04/2023, 18/04/23**
Identify persons and positions who were involved	**Kristie White - Specialist Support Environmental Health Officer**
Provide the details of the consultation	**Initial revision of the Construction Environmental Management Plan (CEMP) developed by PBG issued to Camden Council on 30/03/23 for review and feedback by the relevant council officer.** **Follow up email sent on 17/04/23 to Camden Council to see if any feedback will be provided.** **Response from council received 18/04/23 noting CEMP as satisfactory.**

What specific matters were discussed?	**Nil issues identified.**
What matters were resolved?	**Nil**
What matters are unresolved?	**Nil**
Any remaining points of disagreement?	**N/A**
How will SINSW address matters not resolved?	**N/A**

From:	Kristie White
To:	Chris Sposito
Subject:	RE: Gledswood Public School Stage 2 - CEMP & Consultation
Date:	Tuesday, 18 April 2023 11:43:10 AM
Attachments:	image019.png image020.png image021.png image022.png App E1 - 626 - Gledswood Hills P.S CEMP - Revision 1 27.03.23.pdf

Hi Chris,

Thankyou for your reports.

I have forwarded on the Construction traffic management and stormwater management contained in the construction soil and water management plans on to the appropriate people in Council to review.

It is noted that some of the SSD consent conditions require to be submitted with the private certifier as well.

I have reviewed the CEMP and are satisfied from a Council point of view that the condition has been covered.

Regards,

Kristie White
Specialist Support Environmental Health Officer

70 Central Avenue, Oran Park, 2570
(02) 4654 7760
www.camden.nsw.gov.au
PO Box 183, Camden NSW 2570
kristie.white@camden.nsw.gov.au

Camden Council acknowledges the traditional custodians of the lands on which we meet and pay our respect to elders both past and present.

From: Chris Sposito <chriss@pattersonbuild.com.au>
Sent: Thursday, 30 March 2023 7:14 PM
To: Council Mailbox <Council.Mailbox@camden.nsw.gov.au>
Cc: Kurt Lanner <kurtl@pattersonbuild.com.au>; Tim Baldwin <timb@pattersonbuild.com.au>; Alex Warner <alexw@pattersonbuild.com.au>

Subject: Gledswood Public School Stage 2 - CEMP & Consultation

Warning - This email originates from an external organisation

---

Good Evening,

Patterson Building Group have been recently appointed as the head contractor for construction of Gledswood Public School Stage 2.

We have commenced preparing the respective management plans required under the and in accordance with the SSD compliance conditions require consultation for the Construction Environmental Management Plan (CEMP) & Construction Soil and Water Management Plan (CSWMSP)

Could you please forward on the attached to the relevant representative within council for review and comments as necessary?

Thank you for your assistance.

Regards,

Chris Sposito
HSEQ Manager
Mobile: 0408 625 030

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Building Group

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t 02 4283 3044 f 02 4283 5122

Newcastle
Suite 3
161 Lambton Road
Broadmeadow NSW 2292
t 02 8197 6039

www.pattersonbuild.com.au

From:	Chris Sposito
To:	mail@camden.nsw.gov.au
Cc:	Kurt Lanner; Tim Baldwin; Alex Warner
Subject:	RE: Gledswood Public School Stage 2 - CEMP, CSWMSP & CTPMSP Consultation
Date:	Monday, 17 April 2023 3:07:00 PM
Attachments:	image001.png image002.png image003.png image004.png TLTMP-219117 REV B Gledswood Hills Public School.pdf TLTGS-219072 REV B Gledswood Hills Public School Site Access Stage 1.pdf TLTGS-219094 REV B Gledswood Hills Public School Site Access Stage 2.pdf PBG001 - Site Management Plan.pdf

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Good Afternoon,

Just following up on the below submission of documents and if there is any feedback from council for incorporation into our environmental management plans?

I have also attached the recently completed Construction Traffic and Pedestrian Management Plan (CTPMSP) for review and comment as necessary in accordance with *SSD-8378 - New Gledswood Hills Public School* conditions.

Thank you for your assistance.

Regards,

Chris Sposito
HSEQ Manager
Mobile: 0408 625 030

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From: Chris Sposito
Sent: Thursday, March 30, 2023 7:14 PM
To: 'mail@camden.nsw.gov.au' <mail@camden.nsw.gov.au>
Cc: Kurt Lanner <kurtl@pattersonbuild.com.au>; Tim Baldwin <timb@pattersonbuild.com.au>; Alex Warner <alexw@pattersonbuild.com.au>
Subject: Gledswood Public School Stage 2 - CEMP & Consultation

Good Evening,

Patterson Building Group have been recently appointed as the head contractor for construction of Gledswood Public School Stage 2.

We have commenced preparing the respective management plans required under the and in accordance with the SSD compliance conditions require consultation for the Construction Environmental Management Plan (CEMP) & Construction Soil and Water Management Plan (CSWMSP)

Could you please forward on the attached to the relevant representative within council for review and comments as necessary?

Thank you for your assistance.

Regards,

Chris Sposito
HSEQ Manager
Mobile: 0408 625 030

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25.2 Appendix E2 – Construction Traffic & Pedestrian Management Sub-plan

PATTERSON
Building Group

SSD 8378 – Construction of Gledswood Hills Public School – Submission of Construction Traffic and Pedestrian Management Sub-Plan in accordance with Condition B16

Please refer to the below ***SSD 8378 GHPS Condition Satisfaction Table*** in relation to the above condition requirements and location within the CEMP attached herewith this letter.

SSDA Ref.	Requirement Summary	Documentation Reference
B16	*The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must address, but not be limited to, the following:*	**Appendix E2 – Construction Traffic and Pedestrian Management Sub-Plan Rev C 17/04/23**
	(a) be prepared by a suitably qualified and experienced person(s);	**Prepared by Mark Hayward – Plan Designer TCT0046634 – Traffic Logistics**
	(b) be prepared in consultation with Council;	**Appendix C – Council Consultation**
	(c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclists and pedestrians and bus services;	**Management of the Traffic Mgt. Plan (Pg. 7)**
	(d) detail heavy vehicle routes, access and parking arrangements;	**Existing Parking (Pg. 7), Heavy Vehicle Movement Plan (Pg. 9)**
	(e) include a Driver Code of Conduct to: (i) minimise the impacts of earthworks and construction on the local and regional road network; (ii) minimise conflicts with other road users; (iii) minimise road traffic noise; and (iv) ensure truck drivers use specified routes;	**Driver's Code of Conduct (Pg. 8-9)**
	(f) include a program to monitor the effectiveness of these measures; and	**Periodic Review (Pg.13)**
	(g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.	**Communication & Consultation (Pg.12)**

If you require clarification of any aspect of our submission, please do not hesitate to contact me.

Yours faithfully,

Chris Sposito
HSEQ Manager
Mobile: 0408 625 030
Email: chriss@pattersonbuild.com.au

CONSTRUCTION TRAFFIC & PEDESTRIAN MANAGEMENT PLAN

Traffic Management Works and Services provided to Patterson Building Group under Traffic Logistics Pty Ltd

Site Location:
Gledswood Hills Public School
78 The Hermitage Way, Gledswood Hills NSW 2557 *(Site Access from Paramoor St)*

Prepared By: Mark Hayward
Email address: mark.hayward@traffic-logistics.com.au
Contact Number: 1300 001 599
Accreditation: TCT0046634
Date Prepared on 17/04/2023
TLTMP: TLTMP-219117 REV C Gledswood Hills Public School Gledswood Hills

Contents

Purpose

The purpose of this Traffic Management Plan is to ensure the commitment to safety of the traffic management team and the contractor's team, and that the safety processes, procedures, reporting and reviewing processes of each entity are met during the life of this project. This will be accomplished with the effective preparation, implementation and reviewal of the scope of works, development of traffic control strategies, vehicle routing and movement strategies, development of Traffic Guidance Schemes, assessment of on-site traffic controlling conditions, usage and effectiveness of traffic control devices implemented, emergency vehicle requirements and access routes, and the continual training and assessment of accredited Traffic Controllers.

This plan aims to identify the risks to all workers undertaking any works on or adjacent to a road. It shall ensure that appropriate control measures for any identified hazard are assessed, controlled, implemented, monitored and reviewed using the strategies and processes outlined in the Hierarchy of Control.

The legislative and reference documents used in conjunction with this plan include, but are not limited to:

- WH&S Act and Regulations (New South Wales).
- Transport Operations (Road Use Management) Act and Regulations (New South Wales).
- Risk Management Code of Practice (2007).
- Traffic Management for Construction or Maintenance Work Code of Practice (2008).
- Traffic Control at Worksites (TCaWS) Manual (2022).
- Australian Standard 1742.3- Manual of Uniform Traffic Control Devices (2009).

In accordance with the SSD Approval Conditions for SSD 8378 - New Gledswood Hills Public School, Traffic Logistics herby confirms that this Construction Traffic & Pedestrian Management Sub-Plan has been developed to assist PBG fully satisfy conditions B14(b) & B16

All contractors, subcontractors, employers, workers and other persons on-site shall be held to the standards set out in this Traffic Management Plan.

Risk assessments will be conducted before Traffic Guidance Schemes are implemented and prior to erecting any traffic control devices on site. This will assist in achieving a zero-harm working environment for all people within and around the work area.

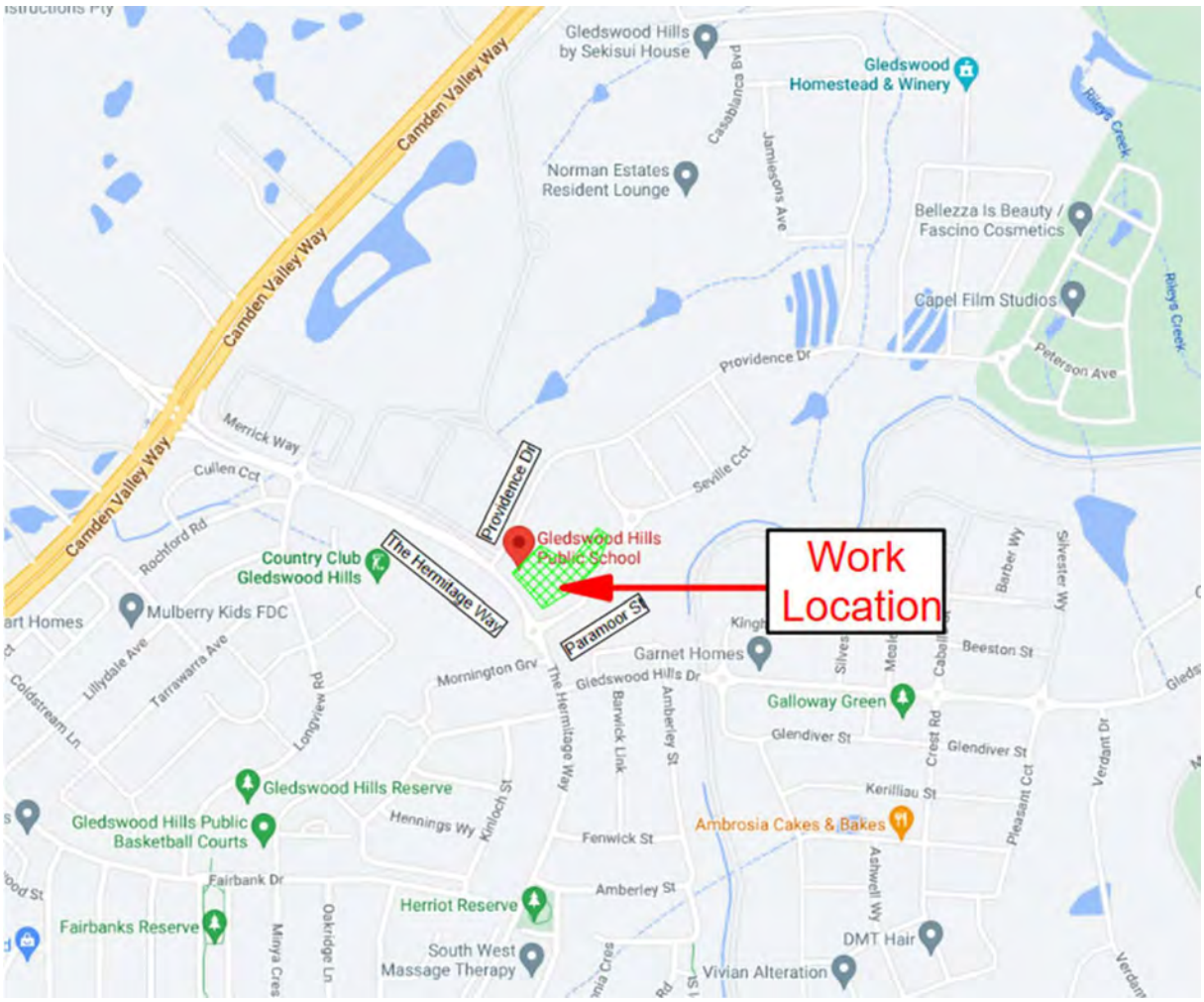
Project Summary

Scope of Works

Patterson Building Group will be constructing 2x new classroom buildings and playground for the students

Location of Works

The locations of the works will be at Gledswood Public School with the gate access on Paramoor St Gledswood Hills.



Time and Dates of Work

These works will be taking place as per the DA conditions. The standard working hours will be from.
Monday to Friday 7:00 AM to 5:00PM
Saturday will be 8:00 Am to 1:00PM. No Night work's will be conducted or works on Sundays or public holiday.

Road Configuration and Heavy Vehicles

Paramoor Street is 50km speed road that runs in a east and westbound direction it is approximately 10 metres wide and found in a residential area.
There Heritiage Way is a 50 km speed road and runs in a northwest to south direction and is main address of the gledwood public school. There will be no work taking place on the Hertitage way.

Work Areas

Both work area are located within the school grounds as can be seen in the below diagram. There will be two stages of works that will be taking place with one zone for stage one works being larger covered area of works with the gate access to the work area being located on Paramore St. with stage works there will two work areas with the stage one area being reduced in size. The 2nd area of works for stage will be north east for stage 1 works with a 2nd gate access now being utilised for the site ingress and egress. The 2nd gate is located from within the carpark which the access point is located on Paramore Street north of gate 1.

Exclusion Zones

Exclusion zones shall be for all unauthorized personal inside the work zone behind the temporary fencing who are not inducted on the worksite. This provides the safest and most practical exclusion zones for workers and non-workers to navigate to desired destinations. These exclusion zones shall take into consideration any Traffic Logistics Pty Ltd and Paterson Building Group policies and procedures when defining the area.

Shared Areas

The Shared Zones for the works will be the footpath along the north side of Paramoore street where work vehicles will need to give way to pedestrians and cyclists when access gate 1. The 2nd shared zone work Vehicles and personal will need to give way to the general public who are using these zones. Any construction works in these shared zones Patterson Building Group will need to use Authorised Traffic Controllers to direct guide and mitigate the traffic and pedestrians safely around the work area.