

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

**Department of Veterans' Affairs (DVA) – ACM Removal, Demolition,
Site Stripping and Soil Remediation Works**

Newdegate and Headfort Streets, Greenslopes, QLD, 4120

Revision 1



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PROJECT VERSION REVISION STATUS

DATE	COMMENTS	PREPARED / REVISED BY	SIGNATURE	REVIEW AND APPROVAL OF CONTENT BY	SIGNATURE
18/02/2022	Update to draft revision to include CPAS review comments	Mick Merriman		Jason Cole	
20/04/2022	Draft revision to include review comments by Dave Binny	Peri Timo		Jason Cole	

DISTRIBUTION

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Enviropacific Services	1	20/04/2022
Department of Veterans' Affairs (DVA)	1	20/04/2022

1. INTRODUCTION

This plan is to be used by Enviropacific staff and subcontractors as a guide to the performance of onsite works during the delivery phase remediation works for DVA at 114 Newdegate Street, Greenslopes, QLD, 4120 (the site). These works will include:

- Site clearing of all existing vegetation,
- Design for retention of cultural heritage elements and retention installation,
- Removal of Asbestos Containing Materials (ACM),
- Remediation of Lead impacted paint flaking both internal and external
- Demolition of two free-standing structures,
- Associated earthworks to remove building footings and services,
- Soil excavation for remediation to remove ACM, metals, and pesticide contaminants,
- Site backfilling in preparation for hand-over.

Arrangement of this document is sequential to the Environmental Management Plan (draft revision – June 2020) for the proposed site works. In line with the hazardous materials (haz-mat), demolition and remediation scope of work for the project, the following documents have been reviewed for inclusion into this CEMP and also incorporate review comments by the Chemicals Policy and Advice Section (CPAS) of the Department of Agriculture, Water, and the Environment (DAWE).

- **Investigation Reports**
 - Draft Phase 1 Contaminated Land Assessment (Coffey 2013)
 - Draft Phase 2 Contaminated Land Assessment (Coffey 2013)
 - Delineation Assessment of Organochlorine Soil Impacts (Coffey 2019)
 - Soils Remediation Planning (Coffey) Document Ref: 754-BNEEN282781
 - Asbestos & Hazardous Materials Pre-Demolition Assessment (Coffey) Doc Ref: 754-BNEEN282781
- **Management Plans**
 - Environmental Management Plan (Enviropacific Services undated)
 - Asbestos Removal Control Plan (Enviropacific Services 2022)
 - Demolition Management Plan (Enviropacific Services 2022)
 - Waste Management Plan (Enviropacific Services 2022)
 - Quality Health Safety & Environment (QHSE) Category 1 Plan (Enviropacific Services 2022)
 - Traffic Management Plan – EP-HSE-19-MPR, EP-HSE-19-FRM-01 and Evolution Group.
- **Safe Work Method Statements**
 - Safe Work Method Statement 01–Site Establishment (Enviropacific Services 2022)
 - Safe Work Method Statement 02–Soil Sampling (Enviropacific Services 2022)
 - Safe Work Method Statement 03–Excavate and Dispose of Contaminated Soil (Enviropacific Services 2022)
 - Safe Work Method Statement – Removal Non-Friable Asbestos – Enviropacific 2022
 - Safe Work Method Statement – Removal of Friable Asbestos – Enviropacific 2022
 - Safe Work Method Statement - Demolition of Buildings
- **Works Plans**
 - Category 1 Works Plan - DVA Demolition and Remediation (Enviropacific Services 2022)
 - Project Specific Risk Assessments
- **Work Staging Maps**
 - To be provided.

Enviropacific note recommendations have been made by CPAS / DVA to engage a Suitably Qualified Person (SQP) and a Contaminated Site Auditor to support and advise on statutory and industry requirements during remediation of identified site contamination. DVA have appointed Coffey to produce the 'Asbestos and Hazardous Materials Pre-Demolition Assessment' – Document Ref: 754-BNEEN282781 and manage third-party monitoring, sampling, testing and reporting requirements in relation to haz-mat removal works.

DVA have also appointed Coffey to produce the ‘114 Newdegate Street Greenslopes Remediation Plan – Supplementary Investigation’ - Document Ref: 754-BNEEN282781 and perform environmental consultant requirements in relation to soil remediation works.

The delivery of works under these plans are to be conducted in conjunction with Enviropacific’s project Quality, Health, Safety and Environmental (QHSE) plan and supporting method and process control documents contained under Enviropacific’s quality system. The development and implementation of this plan is guided by Enviropacifics’ third-party accredited Quality Management System (QMS) requirements and relevant state regulations and guidelines.

1.1. Responsibilities

Site personnel involved in the delivery of ACM removal, demolition and remediation earthworks for this project, both Enviropacific staff and engaged subcontractors, will be supervised by the Enviropacific Site Supervisor. Associated personnel will be required to directly report to the Enviropacific Site Supervisor for all daily site operations. Responsibly for coordination of site-specific resources including operations, plant, equipment and consumables, access controls, safety, quality, and productivity of works conducted under this plan resides directly with Enviropacific personnel listed in Table 1.

Table 1: Enviropacific Personnel Project Roles and Responsibilities

ROLE	RESPONSIBLE PERSONNEL	ACTIVITIES AND FREQUENCY
Project Manager - Enviropacific	Mick Merriman	Resourcing staff, plant, equipment, and materials to meet the project programme. Commercial and financial risk review, management, and reporting. Client management.
QHSE Officer - Enviropacific	Donna Perna	Champion and deliver the Enviropacific Start Safe/Stay Safe and Line-of-Site safety management system and QHSE requirements. Provide QHSE advice and lead inspections, audits, investigations, and reviews as required.
Site Supervisor - Enviropacific	Rhys Boddy	Oversee haz-mat removal, demolition and earthworks delivery from site establishment through to re-instatement and demobilisation. Maintain daily site safety and works productivity to meet project programme requirements.
Site Engineer - Enviropacific	Peri Timo	Oversee daily QHSE requirements during remediation delivery including onsite tracking of material volumes, plant and worker pre-starts and inductions week-to-week. Review CEMP items and rectify any observed issues and update relevant forms if required during daily excavation inspections and weekly site QHSE inspections.

1.2. Work Change Management and Review

This plan will be regularly reviewed as part of Enviropacific's continual improvement process to ensure it remains current and relevant to meet project scope. The process for review will be driven from fortnightly project program updates compiled by Enviropacific's Project Manager in communication with Enviropacific's Site Supervisor. This communication will draw on weekly site inspections and remediation works tracking completed by Enviropacific's Site Engineer.

2. SITE WORKS INFORMATION

2.1. Description of Works

The execution of works for haz-mat removal, demolition of current infrastructure, civil earthworks for remediation of contaminated soils for ACM, organochlorines and metals, offsite disposal and site backfilling will be completed in accordance with the *Asbestos Management Plan and Register for 114 Newdegate Street, Greenslopes – dated 13 October 2019* by Asbestos Audits Queensland & supported by the *Asbestos and Hazardous Materials Pre-Demolition Assessment* Ref: 745-BNEEN282781 dated 9 April 2021 by Coffey Services Australia Pty Ltd. The purpose of these audit(s) is to update the existing Asbestos Management Plan and Register to adhere with Safe Work Australia's *How to Manage and Control Asbestos in the Workplace – Code of Practice 2011*. Assessment findings, recommendations and management methods will be actioned by Enviropacific to ensure the safe delivery of the project scope of work is met.

The delivery of project works shall include the following:

1. Develop a suite of QHSE and associated documentation and approvals including traffic management plan and guidance scheme, site demolition plan identifying locations of the main areas of ACM per Appendix A of the *Asbestos Management Plan and Register*, a remediation works plan referencing the site Remediation Action Plan (RAP) and a waste management plan detailing onsite and offsite procedures for generated waste streams.
2. Site mobilisation and set-up of controls, plant, equipment, amenities and erosion and sediment control devices detailed in this CEMP.
3. Site services disconnections and/or isolations with potential shared service re-directions to be assessed where encountered.
4. Engineering design, fabrication and installation of a structural retention framework to the Main Hall Entry Portico as an item of Cultural Heritage value. This will involve protecting and maintaining the brick portico and also existing original brick gate entry pillars at the corner of Newdegate St and Headfort St.
5. Notification of licenced asbestos removal works to WSHQ, then strip-out, management and offsite disposal of identified ACM under required site controls and procedures per the Code of Practice: How to safely remove asbestos.
6. Notification lead based paint remediation works to WSHQ, then strip-out, management and off-site disposal of identified lead containing materials as described in AS 4361.2, Guide to Hazardous Paint Management – 2017 Part 2: Lead Paint in residential, public and commercial buildings.
7. Demolition, combining both manual and mechanical methods, of existing infrastructure to ground level, removal of underground footings, terminated services and vegetation, then disposal of waste materials offsite to a licenced waste facility. The manual demolition will include salvage of selected timbers for recycling.
8. Earthworks for site remediation to required depths, under guidance of the RAP, to remove ACM, metals, and organochlorine pesticide contaminated soils in consultation with the Coffey project

SQP engaged by DVA. Excavation extents and volumes are derived from the Coffey reference Document: Soils Remediation Planning – 754-BNEEN282781.

9. If required, the onsite treatment of high concentration contaminated soils above landfill acceptance criteria via stabilisation of identified leachable contaminants to below landfill acceptance criteria to allow for offsite disposal.
10. Dispose approved soil volumes offsite under a Soil Disposal Permit in compliance with regulations.
11. Import, place and compact clean backfill material for reinstatement of the site to agreed levels and grades for hand-over. Requirements for final surface preparation across the site for hand-over is to be confirmed by DVA.

All works shall be performed by Enviropacific and subcontractors in a manner that is in the interest and safety of neighbours, the public and other stakeholders.

2.2. Timing of Project Works

Preliminaries and approvals from February 2022.

Site remediation works from July 2022 - TBC.

3. SEQUENCE OF WORK SUMMARY

The following sequence of works will be delivered by Enviropacific in-line with the project scope of works:

1. Submission of QHSE and relevant supporting plans for review and approval by DVA.
2. Review of findings and recommendations contained within the site-specific *Heritage Impact Assessment Report (February 2020)* to determine methods of work for retention of the brick portico at the main hall and *Asbestos Management Plan and Register(s) (October 2019) (April 2021)* to determine methods of work for removal of haz-mat prior to building demolition.
3. Review of previous comments and recommendations proposed by CPAS and incorporate within updates to this CEMP.
4. Confirm receipt of a site Soil Contamination Assessment Report, Remediation Action Plan (RAP) or similar, completed externally by DVA's independent SQP and review to confirm the allowed for soil remediation scope of work meets the site remediation recommendations.
5. Verification of the nominated site work zones and confirmation of viable access for mobile plant operations.
6. Preparation of pre-works dilapidation photographic survey and report, baseline sampling by the Coffey SQP, if required and site features and levels survey, if also required.
7. Site establishment and set-up including site compound, fencing and signage, access ways and Erosion and Sediment Control (ESC) devices.
8. Staged removal, offsite disposal, and clearances of ACM from building roofs, eaves, external and internal walls, and other fixtures.
9. Staged remediation of Lead-based paints where the application has deteriorated to flaking stage.
10. Manual demolition and dismantling of the existing timber framework for the purpose of recycling selected timbers.
11. Mechanical demolition of remaining site infrastructure including removal of underground footings and site vegetation with C&D waste removed and disposed offsite to a licenced waste facility.
12. Contaminated topsoil strip and staged excavation of deeper contaminated areas to a maximum depth of 0.6m in accordance with the RAP and in consultation with the Coffey SQP.

13. Stockpiling if excavated soil volumes require further testing, treatment or approvals prior to being transported offsite to a licenced waste facility. Sampling and testing per the RAP and SAQP is to be performed by the Coffey SQP.
14. Onsite treatment of high concentration contaminated soils above landfill acceptance criteria, if required, via stabilisation of leachable contaminants to below landfill acceptance criteria to allow for offsite disposal.
15. Dispose approved soil volumes offsite under a Soil Disposal Permit, sourced by Coffey, in compliance with regulations.
16. Import, placement and compaction of clean backfill material to reinstate site levels and grades to agreed volumes and finished levels, which are to be confirmed.
17. Make good of work zones and demobilise Enviropacific plant and equipment to allow hand-over of the site.

4. ENVIROPACIFIC DRAFT PROJECT PROGRAMME

A program detailing preliminaries and site works will be provided once the scope of work is approved and a project start date has been nominated by DVA.

5. ENVIRONMENTAL MANAGEMENT CONTROLS

5.1. Noise and vibration

Potential noise impacts associated with the project are to be managed throughout the duration of works. The potential impacts include noise during demolition, excavation, waste loading and transport activities.

CONSTRUCTION NOISE AND VIBRATION MANAGEMENT PLAN	
Objective	<p>To meet appropriate noise standards so to minimise impacts of the works on noise sensitive receptors.</p> <p>To only undertake construction activities associated with the demolition and remediation works that will generate an audible noise at neighbouring residential, commercial, or other premises during the approved hours.</p>
Performance Criteria	<ul style="list-style-type: none"> ▪ Undertake works in accordance with Australian Standard AS 2436 <i>Guide to noise control on construction, demolition and maintenance sites</i>, state guidelines and local authority directions.

CONSTRUCTION NOISE AND VIBRATION MANAGEMENT PLAN	
Mitigation Measures	<ul style="list-style-type: none"> ▪ Normal hours of work will be between 6:30am and 6.00pm Monday to Friday and 7.00am to 5.00pm on Saturdays. No work shall be conducted on Sundays or public holidays or outside of the above hours. ▪ To the extent practicable, all site noise sources will have a maximum operating noise level of 85db (A) as monitored at the site boundary. ▪ The conditions of exhaust systems on excavators and other heavy machinery will be assessed to ensure that they are operating efficiently. ▪ If generators or pumps are required for use on site, they will be properly shrouded to reduce emitted noise levels. It is noted that generators will more than likely require to be operated continuously during working hours. ▪ If maintenance and repairs are to be undertaken outside normal working hours they should be done as far as away from occupied premises as possible, with no heavy machinery involved and noise generated is inaudible at noise sensitive premises. ▪ An Environmental Complaints Register will be maintained to ensure that any concerns of residents and members of the public are recorded and addressed. ▪ Concerns over noise generation will be communicated to all site personnel and sub-contractors during site inductions. ▪ Any works which may cause excessive vibration (such as hammering or compaction) will be restricted as much as possible against neighbouring property boundaries.
Monitoring	A handheld noise monitor may be utilised to gauge point source readings by site staff whilst observing works.
Responsible Person	<ul style="list-style-type: none"> ▪ Enviropacific Project Manager is responsible for activities and areas under their control and will identify and manage activities that have potential for noise emissions that exceed the performance noise criteria. ▪ Individual subcontractor supervisors shall implement reasonable and feasible noise mitigation and management measures with the aim of achieving the construction noise criteria.
Reporting	<ul style="list-style-type: none"> ▪ The Enviropacific Site Supervisor is responsible for inspections and non-conformance reporting to the Enviropacific Project Manager. ▪ The Enviropacific Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause material environmental harm or breaches requirements to Enviropacific Project Manager as soon as possible.
Corrective Actions	<p>In the event of a complaint or failure to comply with the relevant guidelines of the Project approval, the following corrective / preventative actions shall be taken by the Enviropacific Project Manager:</p> <ul style="list-style-type: none"> ▪ An investigation shall be undertaken to determine the cause of the problem or non-conformance. ▪ Measure sound power and pressure levels emitted from equipment identified as the likely source of the problem and review possible mitigation techniques and. ▪ Modify work practices as necessary to reduce the duration or level of noise.

5.2. Air Quality

Air quality will be monitored visually from the commencement of demolition works for obvious dust generation during each stage of work. Relevant industry specific air sampling instruments will be located on the site boundaries and active during removal of asbestos containing materials for detection of fibres and for dust particulates during excavation and off-site disposal of contaminated soils impacted with OC and/or OP pesticides where required. Air quality monitoring for asbestos fibres will be undertaken by a third-party hygienist as per the project Asbestos Removal Control Plan (ARCP) during asbestos removal works and via a high-volume air sampler with reference to 'AS3580:2016 – Methods for sampling and analysis of ambient air – Guide to siting' during contaminated soil excavation and disposal works.

CONSTRUCTION AIR QUALITY MANAGEMENT PLAN	
Objective	<ul style="list-style-type: none"> ▪ To conduct asbestos removal, building demolition, soil excavation and disposal works in a manner that eliminates potential asbestos fibres and dust generation and emissions from the site, including wind-blown and plant-generated fibres and soil dust. ▪ To undertake all construction activities with the objective of preventing visible emissions of dust from the site. ▪ To identify and implement all practicable dust mitigation measures, including cessation of relevant works, as appropriate, such that emissions of visible dust cease should visible dust emissions occur at any time. ▪ To meet the relevant air quality standards for preventing degradation of ambient air quality and nuisance to adjoining properties during construction and transport activities.
Performance Criteria	<ul style="list-style-type: none"> ▪ Site-specific interventions to mitigate visible dust blowing onto adjoining sites and impacting residents and/or the public. ▪ Asbestos fibre counts reported from boundary monitoring instruments to be below the adopted criteria during each day of asbestos removal works. ▪ Dust particulate and OC/OP pesticide concentrations reported from the quantitative analysis of pre-filters in boundary sampling instruments to be below the adopted criteria during each week of contaminated soil excavation and offsite disposal works.
Mitigation Measures	<ul style="list-style-type: none"> ▪ Prior to disturbance and where it is practicable to do so, all surface areas of both ACM & Lead based paint will have a sealant applied. The minimum standard for this will be a water based PVA glue delivered from a manually pressurised portable spray pack. ▪ During the operation of mobile plant e.g excavators, the tracking movement has the potential to break the ground surface and release airborne dust. Water spray will be utilised to keep the site footprint in a dampened state, as far as is practicable to do so. ▪ Dust screens in the form of shade-cloth fixed to temporary and/or permanent fences to be used at the perimeter of the site where applicable. ▪ A layer of 50mm + size rock material will be installed to the immediate driveway for a minimum distance of the truck body length. The purpose for this is to provide a controlled egress where inspection and cleaning of the transport vehicles can be carried out. ▪ All waste transport will be inspected for the presence of residual dust or debris and will be washed down with water-spray if required prior to exiting the site. ▪ All ACM waste will be completely encapsulated in a double layer of 200um plastic sheet and taped closed prior to transport from site for disposal at a licenced waste facility. The outer surface of the encapsulated waste bundles will be sprayed with water prior to movement offsite.

CONSTRUCTION AIR QUALITY MANAGEMENT PLAN	
	<ul style="list-style-type: none"> ▪ Vehicle and machinery movements during the demolition works will be restricted to designated areas with ground slabs left intact for as long as is practicable. ▪ Vehicle speed limits of 5km/hr will be imposed on all vehicles on site. ▪ Equipment will be operated in a proper, efficient, and correct manner which includes proper maintenance to minimise exhaust emissions. ▪ The occurrence of excessive visible dust release will trigger the need for water-spray suppression. ▪ Paved or grassed areas will be maintained where possible during the demolition works to minimise the extent of exposed soil to generate dust onsite. Traffic areas onsite will water sprayed to prevent dust generation. ▪ Asbestos removal activities will be carried out with-in encapsulated areas, where the methodology dictates thus containing any dust release in a controlled manner. ▪ The external ACM sheet removal will be carried out with minimum breakage thus reducing the risk of airborne fibre release. All surface areas will be coated in a PVA sealant prior to disturbance. Where breakage occurs during the fixing release a second worker will apply a HEPA filtered handheld vacuum nozzle to capture any residual fibres. ▪ Air quality monitoring for asbestos fibres and OC/OP pesticides will be undertaken at site boundaries and/or at locations determined by the third party occupational hygienist engaged by DVA for the monitoring during the asbestos and contaminated soil removal works. Monitoring locations will be dependent on the site activities and prevailing environmental conditions and will be determined by the independent third party. ▪ Soil odour emissions from the site which could adversely affect air quality or amenity of the area are not expected during this project but will be monitored as part of general site management. If odours are generated during demolition and/or remediation works, water spray will be utilised in the first instance for mitigation in the work zone. ▪ Areas of exposed ground during demolition and soil remediation works will be water sprayed where required as works progress across the site, including during backfilling. ▪ Weather forecasts will be checked daily to program works for the following day. ▪ Review of modelling and external assessments to be undertaken with regards to varying wind speed categories in relation to the escalation of dust generation and dispersion and wind speed. Onsite activities with the potential to generate such risk will be appropriately scheduled to align with daily wind factor forecast – the ‘rule of thumb’ to cease the risk adverse activities being wind speeds of 20kph. ▪ This benchmark may change regarding the task being carried and the available controls - e.g during the removal of ACM roof sheeting.
Monitoring	<ul style="list-style-type: none"> ▪ Daily (general soil excavation and asbestos removal works) and weekly (air sampler for OC/OP pesticides) visual and instrument monitoring of dust emissions, dust controls and plant emissions to be conducted. ▪ Weather forecasts and daily conditions for wind speed, rain, temperature, and humidity will be referred to when programming works and recorded where relevant. Works will not be conducted during periods of heavy rainfall where there is the potential to generate direct run-off and/or create a boggy site. Weather data (such as wind direction) will be referenced in the event any complaints are received in relation to dust. ▪ Detailed asbestos monitoring along the site boundary will be conducted by a third party hygienist with critical variables such as location, duration and frequencies noted to determine the effectiveness of site controls to meet the air quality standards.

CONSTRUCTION AIR QUALITY MANAGEMENT PLAN	
	<ul style="list-style-type: none"> ▪ Analysis of the monitoring results of the collected samples will be conducted to prevent the movement of contaminant fibres beyond the site boundary.
Responsible Person	<ul style="list-style-type: none"> ▪ Individual sub-contractor Supervisors are responsible for activities and areas under their control. ▪ Enviropacific Site Supervisors are responsible for ensuring sub-contractors comply with these provisions and the guidelines contained in this plan.
Reporting	<ul style="list-style-type: none"> ▪ Results from asbestos air monitoring during haz-mat removal prior to demolition and air sampling during soil remediation will be made available to workers on site and the client project manager as soon as practicable.
Corrective Actions	<p>Should a positive recorded event occur above the adopted criteria in relation to offsite fugitive emissions from project activities, one or more of the following corrective actions will be implemented by Enviropacific in consultation with the appointed third-party hygienist -</p> <ol style="list-style-type: none"> 1. Undertake an investigation to determine the cause of the exceedance, assess if an on-going significant source of emission, and review / modify activities/processes if required. 2. Increase the usage, coverage and size of equipment providing dust control measures such as water spraying. 3. Undertake additional monitoring if required in consultation with the appointed third-party hygienist. 4. Notify and report the exceedance to the client, nominated hygienist and WHSQ.

5.3. Soil and Water Management

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

- Demolition and remediation earthworks may expose erosive soils which may lead to sediment run-off in heavy rainfall.
- Stockpiled materials may produce run-off during rainfall; and
- Dirt from vehicle tyres may lead to sedimentation of streets and storm water systems.

Enviropacific’s WHSE Site Inspection Checklist is a cloud-based onsite tool and will form an appendix to this CEMP to be used as the tool to monitor site performance criteria, including regular inspection of sediment controls to confirm functionality and effectiveness.

Mitigation to ensure compliance will also include temporary soil stockpiles generated from remediation excavations being located on plastic film and sealed where possible to minimise potential to leach and form run-off. Stockpiles will also be appropriately banded and placed on existing contaminated areas where practicable.

SOIL AND WATER QUALITY MANAGEMENT PLAN	
Objective	<ul style="list-style-type: none"> ▪ To minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters during construction activities. ▪ Prevention of potential cross contamination of non-contaminated areas in response to movement of soil during project works (excavation, stockpiling etc.) and via wind or water throughout the remediation phase of site.

SOIL AND WATER QUALITY MANAGEMENT PLAN	
	<ul style="list-style-type: none"> ▪ Detailed locations of soil and water management controls will be noted in site staging plans produced once work programs are confirmed.
Performance Criteria	<ul style="list-style-type: none"> ▪ No turbid waters entering storm water systems or local waterways. ▪ Adherence to relevant legislation, being the QLD Environmental Protection Act, 1994 and associated subordinate regulations.
Mitigation Measures	<ul style="list-style-type: none"> ▪ Identification of the construction activities that could cause soil erosion or discharge sediment or water pollutants from the site. ▪ Identification of all storm water drains and pits on site assessment of required sediment controls. ▪ Any fill material imported to site is to be <i>clean fill</i> as per site management controls, to ensure no additional contamination is inadvertently introduced into site. ▪ Sediment control devices will be installed as required, to prevent impacts on local storm water system. Sediment controls to be maintain and regularly inspected as part of the WHSE Site Inspection Checklist and after rain events. ▪ Areas of bare surfaces will be minimised during construction and stabilised as soon as practicable. ▪ Storm water will be diverted around stockpiles and bare areas to prevent sediment build up. ▪ Construction support vehicles will use sealed areas wherever possible during site access for deliveries and load-out and have loads inspected to prevent any loss of load, whether dust, liquid, or soils. ▪ All vehicles' tyres to be inspected and cleaned if required, before exiting the site. ▪ Stockpiles for will be located on hardstand where possible, or plastic sheet, to minimise the possibility of leaching and runoff. Stockpiles will be appropriately bunded to minimise runoff occurring.
Monitoring	<ul style="list-style-type: none"> ▪ The effectiveness of the sediment and erosion control system will be monitored using the WHSE Site Inspection Checklist. ▪ The quality of any surface water discharges from site will be visually monitored during and after rainfall events by the Enviropacific Project Engineer / Site Supervisor. ▪ Water quality monitoring of remaining standing water, if present after storm events will be implemented to measure chemicals of potential concern and to identify a requirement for further controls, if necessary. This will require the collection of water samples from the downstream boundary line (in this case the Northern boundary line) if water capture occurs. ▪ Monitoring for potentially contaminated water discharge (site runoff, excavation water, machine, and equipment washdown etc.) from site during construction works, will be conducted by the Enviropacific Project Engineer/Site Supervisor.
Responsible Person	<ul style="list-style-type: none"> ▪ Individual subcontractor Supervisors are responsible for activities and areas under their control. ▪ Enviropacific Project Engineer/Site Supervisor is responsible for ensuring sub-contractors comply with these provisions and the guidelines contained in this CEMP.
Reporting	<ul style="list-style-type: none"> ▪ The Enviropacific Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause material environmental harm or breaches regulatory requirements to the Enviropacific Project Manager as soon as possible.

SOIL AND WATER QUALITY MANAGEMENT PLAN	
Corrective Actions	<p>Should an incident in relation to discharge water quality occur, one or more of the following corrective actions shall be implemented by Enviropacific as considered appropriate:</p> <ul style="list-style-type: none"> ▪ An investigation will be undertaken by the Project Manager to determine the cause of incident. ▪ The work practices for the activity shall be modified as necessary to reduce erosion /pollution, sedimentation, or turbidity. ▪ If water containment structures or sediment control devices are not operating effectively, they will be repaired or replaced. Sediment will be removed immediately following rainfall events when the operating capacity of the devices is impaired.

5.4. Stormwater Runoff – Buildings and Sealed Areas

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

A filter medium with a minimum filtration rating of 5microns will be placed into the base of the downpipes servicing the ACM roof areas. This will assist with the capture of any loose asbestos fibre released from the external roof sheet surface. These filter mediums will be collected as controlled waste and placed into 200um rated plastic bags and sealed airtight.

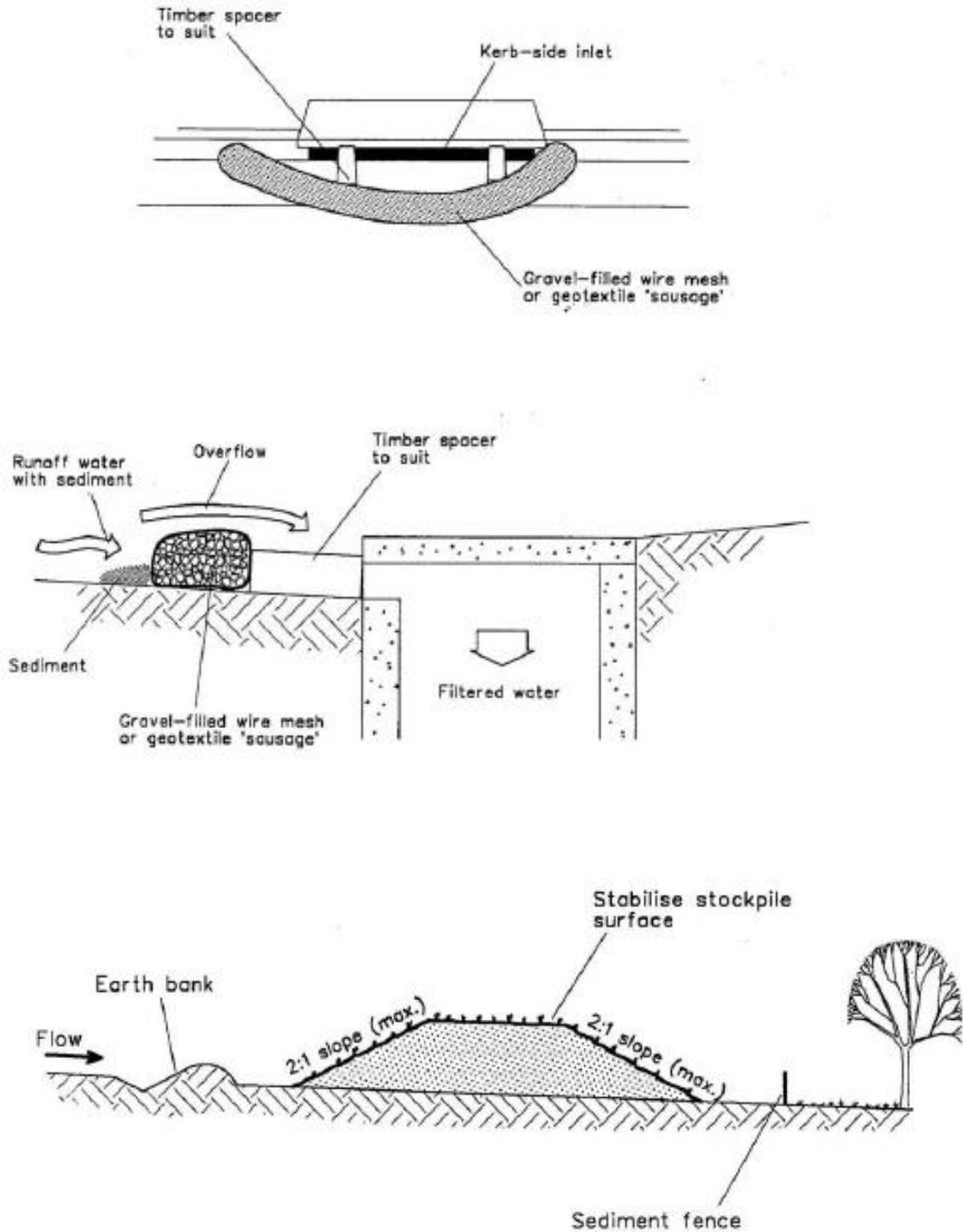
5.5. Excavation Water

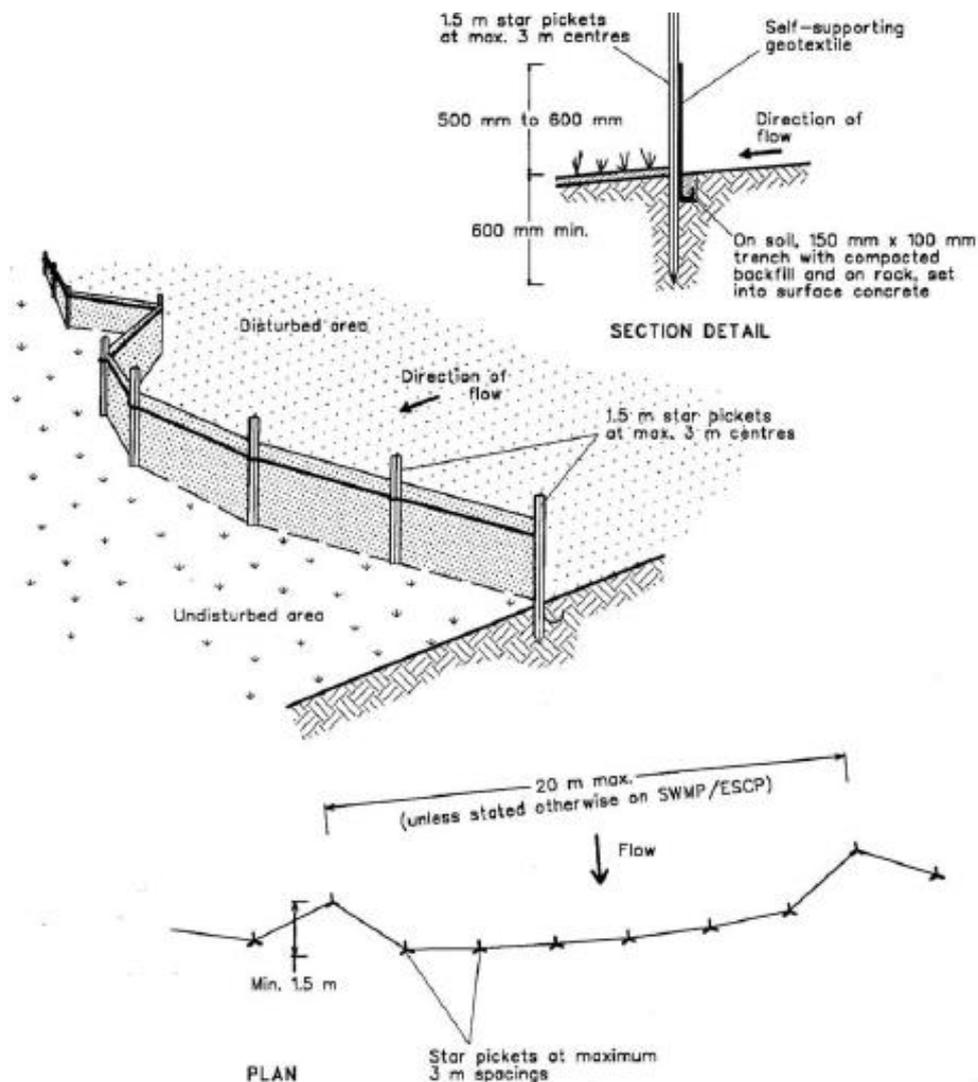
No excavation water will be discharged or pumped from the site directly to stormwater drains without receipt of laboratory analytical results proving the water does not contain contaminants of concern above the relevant assessment criteria. Prior to the reuse of any excavation water, an assessment will be made to assess the level of risk to human health and the environment. Water volumes with contaminants below the assessment criteria will be managed and reused onsite where practicable for dust controls and maintaining soil moisture to those areas traversed by mobile plant.

Contaminated soil stockpiles and Unexpected Finds that remain at the end of each working day during excavation and load-out of contaminated soil will be situated on hardstand areas wherever possible, or on heavy-duty plastic sheeting. Best practice will have the soil stockpiles being rotated off site within 48hrs. Stockpiled soil will be appropriately surrounded by low earth bunds, covered where required, and include sediment controls to minimise deleterious effects from run-off occurring. Stockpiling requirements shall adhere with the *Environment Protection & Biodiversity Conversation Act 1999 (EPBC Act)*.

Enviropacific Services will apply the recommendations described in the *Coffey – Soil Remediation Planning Report Document Reference: 754-BNEEN-282781 (4/2021)*.

5.6. Typical Sediment Control Options





5.7. Flora and Fauna Management

The Commonwealth Department of Agriculture, Water and the Environment (DAWE) has determined site demolition and removal of the contaminated soil is a controlled action under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and requires an assessment of potential project impacts on Matters of National Environmental Significance (MNES), along with how the project meets the principles of ecologically sustainable development, as defined in Section 3A of the EPBC Act for works approval to be granted.

As part of a Further Information Request (FIR), DAWE required a suitably qualified professional to be engaged to assess the significance of the project’s impacts on ecological values in relation to flora, fauna and native birds. It was determined that although all ‘at risk’ species identified in the assessment were either not present, or unlikely to occur within the site, there is still a possibility that fauna will be disturbed during the site haz-mat removal, demolition and remediation works during the project. It is therefore recommended that a suitability qualified fauna spotter-catcher is present during all vegetation clearing activities.

FLORA AND FAUNA MANAGEMENT PLAN	
Objective	<ul style="list-style-type: none"> ▪ To minimise the impact of works on native flora, fauna and birds, if identified onsite. ▪ To comply with legislative requirements and the recommendations in the project ecological assessment report. ▪ Minimise the potential for spread of noxious weeds.
Performance Criteria	<ul style="list-style-type: none"> ▪ Minimise to the extent practicable the impact on flora, fauna and birds identified as ‘at risk’ in the project ecological assessment report.
Mitigation Measures	<ul style="list-style-type: none"> ▪ Engage a suitably qualified fauna spotter-catcher to be available during the removal of vegetation of a size that could provide habitat to local fauna – i.e trees. ▪ Inspect trees to be cleared prior commencement of work. ▪ Maintain availability of a spotter-catcher for management if other fauna is observed during other works.
Monitoring	<ul style="list-style-type: none"> ▪ Observation based monitoring will be carried out as part of weekly site inspections to achieve the above.
Responsible Person	<ul style="list-style-type: none"> ▪ The Site Supervisor is responsible for ensuring compliance with this plan.
Reporting	<ul style="list-style-type: none"> ▪ The Enviropacific Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause harm to fauna or breaches of regulatory requirements to the Enviropacific Project Manager as soon as possible.
Corrective Actions	<ul style="list-style-type: none"> ▪ Should an incident in relation to fauna and/or bird occur, the following corrective actions shall be implemented by Enviropacific as considered appropriate: <ul style="list-style-type: none"> ○ An investigation will be undertaken by the Project Manager to determine the cause of the incident. ○ The work practices for the activity shall be modified as necessary to eliminate the risk, in consultation with the project spotter-catcher.

5.8. Cultural Heritage Protection and Unexpected Finds Management

Status of structures having cultural heritage value has been advised by the client, with demolition to proceed following appropriate heritage retention and recording and reporting by others. A summary archaeological finds protocol has been prepared by the project heritage consultant working on behalf of DVA, which is provided below.

Archaeological remains are any remains of any past human activities at a site. This can include but is not limited to:

- Early building remains such as foundations, bricks, worked stones and the like.
- Evidence of early farming activities.
- Evidence of early European occupation through artefacts such as pottery, coins, bottles, buttons and the like.
- Evidence of indigenous land occupation including burial and historic human remains, tools and the like.

Proposed site demolition and decontamination works will involve site excavations that have potential to disturb areas of archaeological sensitivity. An assessment of potential to impact archaeological deposits has been undertaken for the subject site and the likelihood of disturbance is low.

There is no known development of the site when it was purchased by the War Service Homes Commission in 1919, prior to its acquisition as part of the Greenslopes General Military Hospital site holding in 1945. Site use prior to its 1919 Government acquisition, is believed to have been passive farming use in possession of the Stephens' family.

Nonetheless, should site works reveal any archaeological remains, works shall immediately cease, without causing alteration or damage to the archaeological finds. The archaeological finds are to be suitably protected from theft, vandalism, and effects of weather or erosion. The DVA contract representative will then be notified immediately and further in writing to provide details of the finds and seek direction. All finds will remain the property of DVA.

Where an unexpected find of potential soil contamination is encountered which is additional to the identified areas for remediation, this site supervisor shall notify the Enviropacific project manager and act onsite to isolate the area of potential contamination from further excavation until it can be inspected. Areas of potential contamination classed as an unexpected find could be identified by changes in soil profile appearance - e.g dark staining or mixed fill containing waste materials, encountering areas producing an off-gas or odour - e.g volatile chemicals or old sewage/septic infrastructure, or encountering an area or layer of obvious ash material - e.g former site waste burn-pits.

Following an initial assessment onsite, the Enviropacific project manager will contact the client to notify of the unexpected find and recommend remediation options. The third-party consultant from Coffey will also be invited to participate in additional material finds inspection and investigation.

5.9. Waste Management Plan

The Enviropacific Project Manager has produced a comprehensive Waste Management Plan (WMP) that addresses the procedures, protocols and controls required to mitigate the risks involved with the handling of the various waste streams. The expected waste streams are as follows:

Non-Hazardous Waste

- Flora and green waste
- Scrap demolition timber and debris
- Clean soils

Hazardous Waste

- Residual Lead based paint
- Metals in Soils (Zinc)
- Organochlorine pesticides (OCPs)
- Polychlorinated Biphenyls (PCB)

Controlled Waste

- Non-Friable Asbestos
- Friable Asbestos
- Asbestos 'Fines' in Soils

Construction and Demolition Waste (C&D)

- Varied waste timber, floor coverings, fixtures, fittings etc.

Recycled Waste

- Concrete foundations
- Brickwork
- Concrete ground slabs

Recycled Timber for salvage

- Timber columns
- Timber flooring, joists and bearers
- Timber framing and wall coverings

WASTE MANAGEMENT PLAN	
Objective	To prevent or minimise any adverse environmental impacts from wastes during the work to minimise their generation, to maximise their reuse and recycling, and to ensure safe and lawful disposal of all waste.
Performance Criteria	<ul style="list-style-type: none"> ▪ All waste material to be appropriately classified for reuse, recycling, or offsite disposal. ▪ Waste to be disposed of lawfully. ▪ No complaints received in relation to waste management practices.
Mitigation Measures	<ul style="list-style-type: none"> ▪ All contaminated waste (as defined by Environmental Waste Guidelines) that may be encountered on site will be stored and disposed of in a manner that minimises the impacts of the waste on the environment, including appropriate segregation for storage and separate disposal by a licensed waste transporter. An excerpt of the Environmental Protection Authority Waste Management Reg 2000 (Qld) will form an attachment to this CEMP onsite. ▪ Asbestos waste will be removed according to relevant guidelines Code of Practice How to Safely Remove Asbestos and transported from site by a QLD DES approved Waste Handler and disposed of at a QLD DES approved facility. ▪ Any confirmed contaminated concrete or brick will be managed and disposed of as per the above item for contaminated waste. ▪ Recyclable wastes from the demolition (scrap metal) will be stored in metal bins at site level, collected and transferred by a licensed waste carrier to an appropriate approved recycling facility. ▪ Various waste streams will be stored individually in metal receptacles or banded areas and kept separated to avoid cross-contamination resulting from impact of inclement weather and stormwater run-off. ▪ Contaminated soil will be managed as per Soil and Water Management Plan and will be disposed in accordance with relevant QLD government regulations in effect at the time of works. ▪ Enviropacific and subcontractors working on the site would be informed of their responsibility to reduce waste where possible. ▪ All personnel will receive instruction on what waste materials can be recycled and where the appropriate bins are located during the site induction. ▪ Secure lids will be fitted to bins that store food waste to prevent scavenging by birds and animals.

WASTE MANAGEMENT PLAN	
Monitoring	<ul style="list-style-type: none"> ▪ Soil sampling and waste classifications will be carried out by the project Environmental Consultant from Coffey based on referenced soil volume to sample number ratios defined in the project SAQP by Coffey. ▪ All waste disposed of will be recorded on project Inspection and Test Records (ITRs) and copies of waste dockets will be saved in the project folder.
Responsible Person	<ul style="list-style-type: none"> ▪ Enviropacific Project Engineer/Site Supervisor are responsible for ensuring sub-contractors comply with these provisions and the guidelines contained in this CEMP. ▪ The Enviropacific Project Manager/Project Engineer/Site Supervisor is responsible for compliance to the relevant regulations.
Reporting	<ul style="list-style-type: none"> ▪ The Enviropacific Project Engineer/Site Supervisor shall be responsible for reporting any incident which causes or threatens to cause material environmental harm or breaches approval requirements. ▪ All waste and stockpiles leaving site will be tracked on the tracking form ITRs. ▪ Landfill disposal dockets will be used for confirmation of tonnages and proof of lawful disposal.
Corrective Actions	<p>In the event of a failure to comply with this plan the Project Manager will:</p> <ul style="list-style-type: none"> ▪ Undertake an investigation to determine the cause. ▪ Modify any work practices or waste management procedures as necessary to improve non-hazardous waste management; and ▪ Report the results of the investigation to the client. ▪ All pertaining work practices and waste management procedures will be modified to ensure the objectives of the Waste Management Plan are adhered to in future. The results of investigation reports will be shared with DAWE as the regulator, along with Queensland and local government authorities, where relevant.

5.10. Energy and Water Management Plan

ENERGY AND WATER MANAGEMENT PLAN	
Objective	<ul style="list-style-type: none"> ▪ To minimise the amount of potable water being used and encourage recycling of water where feasible. ▪ To encourage energy efficient practices on site.
Performance Criteria	Water and energy use to be minimised where practical.
Mitigation Measures	<p>Energy Usage</p> <ul style="list-style-type: none"> ▪ Ensure equipment is serviced and maintained regularly. ▪ Ensure works are programmed to maximise machine utilisation time. ▪ Turn machines/equipment off whilst they aren't being used. <p>Water Usage</p> <ul style="list-style-type: none"> ▪ Any water from ponds or excavations will be monitored prior to discharged/infiltrated or reuse, to raise any potential risk factors. ▪ Use water from sumps or excavations for dust suppression if available.

ENERGY AND WATER MANAGEMENT PLAN	
	<ul style="list-style-type: none"> ▪ Minimise the use of water for equipment cleaning and sweep not hose-down roadways. ▪ Any water from ponds or excavations will be tested prior to re-use. ▪ Use of fine mist sprays where possible for dust suppression. ▪ Turn off water cart pumps as soon as practically possible.
Monitoring	Observation based monitoring will be carried out to identify potential energy savings and water minimisation strategies.
Responsible Person	Enviropacific Project Engineer/Site Supervisors are responsible for ensuring subcontractors comply with these provisions and the guidelines contained in this CEMP.

5.11. Traffic Management Plan

TRAFFIC MANAGEMENT PLAN	
Objective	<ul style="list-style-type: none"> ▪ To ensure maximum safety of onsite personnel and pedestrians and drivers. ▪ To ensure that construction activities do not adversely impact or compromise safe traffic flow within the site. ▪ To minimise environmental nuisance and impact because of construction traffic. ▪ To ensure construction traffic does not interrupt existing traffic flows on local road network.
Performance Criteria	<ul style="list-style-type: none"> ▪ No safety incidents. ▪ Adherence to relevant Traffic Guidance Schemes, permits and/or license conditions. ▪ No noise, dust complaints, or complaints in relation to construction traffic from neighbouring property owners or residents in the local area.
Mitigation Measures	<ul style="list-style-type: none"> ▪ All transport vehicles to have proper noise attenuation and to be maintained in good order. ▪ Construction traffic would comply with construction noise limits and construction times to minimise noise impact on residents. ▪ Queuing of trucks to be minimised in local streets. Truck movements will be staged to prevent queuing occurring. ▪ Vehicle and machinery movements during works will be restricted to designated areas within the site; these areas will change during demolition and remediation works as required by work progress. ▪ Heavy and light vehicles will be separated by restricting the use of unnecessary light vehicles around heavy vehicle movements. ▪ Oversize truck movements (predominantly floats) will only occur during approved hours and will not operate during peak traffic curfews. ▪ All vehicles will be restricted to the onsite speed limit of 5km/hr. ▪ Off-site public parking is available on corner of Newdgate and Hunter Street for construction worker’s vehicles.

TRAFFIC MANAGEMENT PLAN	
	<ul style="list-style-type: none"> ▪ All trucks on site will have fitted, and will maintain, reversing lights and reversing alarms for onsite safety. ▪ In accordance with Air Quality Management Plan, vehicles transporting material to and from the construction site will be covered immediately after loading (prior to traversing public roads) to prevent windblown dust emissions and spillages. ▪ In the event of a spillage of materials from construction vehicles, spilled material will be removed as soon as practicable within the working day of the spillage. ▪ Trucks will be advised to use designated arterial roads and staggered as discussed above to minimise impact to local residential areas.
Monitoring	<ul style="list-style-type: none"> ▪ Visual monitoring of all traffic movements on site will be carried out by the Project Engineer/Site Supervisor to ensure the safe movement of traffic and the protection of persons and property through and around the site. This will be reviewed with traffic controllers managing implementation of the TGS and daily offsite vehicle movements. ▪ Construction roads will be inspected to ensure road conditions support safe working and driving. ▪ Following periods of heavy rain or adverse conditions, construction roads will be inspected prior to heavy vehicle traffic use to ensure driver and vehicle safety. ▪ The site will be inspected to ensure signage and traffic barriers are in place, clearly visible, and performing their function in directing traffic and alerting drivers of safety issues.
Responsible Person	<ul style="list-style-type: none"> ▪ Each individual subcontractor is responsible for compliance with this plan, for vehicle and transport safety of personnel and vehicles under their control, and for ensuring the road safety of other on-site road users is not affected by the way in which the sub-contractor conducts its business. ▪ Drivers of all vehicles on site are responsible for driving safely and exercising care. ▪ The Enviropacific Project Engineer/Site Supervisor is responsible for compliance to the relevant regulations and the provisions of the Project Approval.
Reporting	<ul style="list-style-type: none"> ▪ Any complaints from the public will be investigated and reported as per the guidelines of this plan. ▪ All off site truck movements will be logged on ITR01 displaying time, date, registration, and destination.
Corrective Actions	<p>In the event of a site safety incident, the relevant sub-contractor or Enviropacific shall:</p> <ul style="list-style-type: none"> ▪ Stop the vehicle/personnel involved in the incident immediately (or as appropriate), operate warning lights and warn other drivers to slow down. ▪ Clear the spill in the event of a spillage – engaging appropriate safety standards as relevant to the event. ▪ In the event of a complaint or failure to comply with this plan, the Enviropacific Project Manager will investigate the complaint promptly and initiate appropriate action to reduce impact as per guidelines in this CEMP: <ul style="list-style-type: none"> ○ Undertake an investigation to determine the cause. ○ Undertake monitoring if required. ○ Modify transportation practices as necessary to reduce the duration or level of impact; and

TRAFFIC MANAGEMENT PLAN	
	<ul style="list-style-type: none"> ○ Report the results of the investigation the client.

5.12. Environmental Complaints

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

COMPLAINTS HANDLING PROCEDURE	
Objective	<ul style="list-style-type: none"> ▪ Support the delivery of the works with minimum disruption and impacts to local communities and the environment. ▪ Improving community understanding of the need and benefits of the project. ▪ Being proactive and minimising risk to the client’s reputation.
Performance Criteria	<ul style="list-style-type: none"> ▪ All complaints during standard working hours or non-construction times formally registered. ▪ After initial contact, respond verbally within 24 hours or earlier as possible. ▪ During the night: verbal response before 9am the next morning or within 2 hours for emergencies.
Responsible Person	The Enviropacific Project Manager – or in his absence the Enviropacific Site Supervisor - is responsible for notifying all complaints to the client, documenting them and responding to and acting on the complaint to the satisfaction of the client.
Mitigation Measures	<ul style="list-style-type: none"> ▪ All community complaints and enquiries must be directed to the client. ▪ An Environmental Complaint Form will be completed, and complaints handled according to the procedure below: <ul style="list-style-type: none"> ▪ the date and time, where relevant, of the complaint. ▪ the means by which the complaint was made (telephone, email, in person); ▪ any personal details of the informant that were provided, or if no details were provided, a note to that effect. ▪ the nature of the complaint. ▪ record of operational and meteorological condition contributing to the complaint. ▪ any actions taken in relation to the complaint, including any follow-up contact with the complainant; and ▪ If no action was taken in relation to the complaint, the reasons why no action was taken. ▪ Complaints Escalation <ul style="list-style-type: none"> ▪ Wherever possible, disputes will be negotiated directly between the client, the community representative and the Enviropacific Project Manager. ▪ Failing resolution under the above a meeting will be convened between the Client, Enviropacific Project Manager, and the community representative, mediated by an independent facilitator. The independent facilitator would be determined at the time and agreed upon by the client. The independent facilitator will be engaged to assist in a mutually agreeable solution.

COMPLAINTS HANDLING PROCEDURE	
Monitoring	<ul style="list-style-type: none"> ▪ Targeted monitoring dependant on the nature of the complaint.
Reporting	The client will be notified of any complaint as soon as possible after the complaint has been lodged. An incident report will be completed for complaints about any environmental issue, including pollution, arising from the works as well as an Environmental Complaints Form. The Report will provide details of the complaint and the action taken to alleviate the problem. A final report with proposed measures to prevent the occurrence of a similar incident will be submitted to the client.
Corrective Actions	<p>Corrective actions will be taken as soon possible depending on the nature of the complaint and followed up on the Incident Report.</p> <p>Should an incident of failure to comply occur in relation to the management of environmental complaints one or more of the following corrective actions will be undertaken as appropriate:</p> <ul style="list-style-type: none"> ▪ Conduct additional training of staff regarding complaint management. ▪ Review procedure considering shortfall.

5.13. Asbestos Management

5.13.1. Asbestos Management Plan and Register

The Asbestos Management Plan is a separate document to this CEMP and contains the following information to adhere with Asbestos Audit Queensland 2019: 7-20 requirements at referral stage:

- Consideration of risks to off-site human receptors in response to the surrounding residential area and major metropolitan hospital. There is a potential that off-site human receptors could be exposed to asbestos during site demolition and remediation. Off-site receptors are noted in the Asbestos Removal Control Plan (ARCP).
- Appropriate management of any offsite exposure to asbestos generated during demolition of buildings and remediation.
- Implementation of monitoring protocols to reduce or mitigate the potential for airborne dust.
- Trigger criteria for management action relating to monitoring for asbestos fibres and detailed actions to be taken where asbestos is detected at air monitoring points at or outside the site boundary is included in the ARCP and Coffey third party documents.
- Inclusion of clearance air monitoring as part of the clearance certificate and site validation as per Asbestos Audit Queensland 2019: 21-51.

5.13.2. Asbestos Removal Control Plan

The ARCP is a separate document to this CEMP and has been updated since the originally developed document in 2016 by Enviropacific to reflect the asbestos conditions onsite. The ARCP is consistent with the information in the Asbestos Management Plan and Register (Asbestos Audit Queensland 2019) and additional recent Asbestos and Hazardous Materials Pre-demolition Assessment by Coffey.

5.14. Remediation Planning

The site soil remediation plans are separate documents to this CEMP and have been developed and updated by Coffey under engagement by DVA. These documents build on earlier site investigations and are the result of additional soil investigations by drilling and sampling. Site remediation works will be conducted as per the requirements and recommendations of these documents once endorsed by the site Auditor. The recent Coffey report provides a summary of the findings of the supplementary investigation and the proposed remediation strategy for the site. Following confirmation of the remediation strategy by DVA and the site Auditor a Remediation Action Plan (RAP) will be prepared for the site works by Coffey. This CEMP will be reviewed once the RAP is finalised.

APPENDIX A – Enviropacific HSE Site Inspection Checklist – Gensuite Format.



Summary			
ID#		Group	Environmental Services
Branch / Major Project	10701 - QLD/NT Operations	Project / Contract	All
Building	All	Inspection Type	
Inspection Date		Checklist Introduction	

Comments
NA

1.0 Inspection Details				
Question	NA	Yes	No	Findings/Comments
1.1: Are additional personnel involved in this inspection?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<small>Guidance: If yes, add names to the comments. If No, choose Not Applicable.</small>				

2.0 Site Appearance and Housekeeping				
Question	NA	Yes	No	Findings/Comments
2.1: Is all appropriate construction site and authorized entry signage in place at site entry points?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<small>Guidance: All sites should display Construction Site, mandatory PPE and general hazard signage. Principal Contractor projects must display signage which indicates the Principal Contractor Site Representative and contact numbers.</small>				
2.2: Is the site neat, tidy and free from general debris?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<small>Guidance: There should not be rubbish and materials strewn over the site. Materials should be stored in dedicated areas and staked materials should be restrained to prevent toppling.</small>				
2.3: Is the site boundary secured and site entry controlled to prevent unauthorized access?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<small>Guidance: Site fencing is secure and entry to site is controlled.</small>				
2.4: Parking and traffic areas are delineated (wherever practical - parking is drive-through or reverse parking only)?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
2.5: Access ways and pedestrian ways are segregated from vehicular areas and materials storage?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

Question	NA	Yes	No	Findings/Comments
<p>2.6: Site amenities are provided. Amenities are clean and facilities are maintained?</p> <p>Guidance: Toilets and lunchrooms must be kept clean, offices are suitable and are not used to store inappropriate materials.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

3.0 Emergency Response and First Aid

Question	NA	Yes	No	Findings/Comments
3.1: Emergency posters are displayed, identifying emergency instructions, muster point and First Aiders on site?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
3.2: First aid locations are signposted and trained First Aiders are nominated and available?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
3.3: Emergency equipment, including first aid kits are maintained and accessible. Emergency equipment such as air horns and rescue equipment are visible and not obstructed?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

4.0 Personal Protection

Question	NA	Yes	No	Findings/Comments
<p>4.1: Mandatory PPE is being worn by all workers on the work site and is in a serviceable condition?</p> <p>Guidance: Mandatory PPE includes Hi Vis Clothing, Safety Eye wear, Hard Hats and Occupational Protective Footwear. Note: Sunglasses and standard eye wear is not acceptable. Hi Vis clothing should not be faded or excessively dirty.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
4.2: Hand protection is being used by workers handling materials and equipment. The hand protection is suitable for the tasks including where required, cut or chemical resistant etc.?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
4.3: Hearing protection is identified in Noisy Environments and is being worn by workers exposed to these areas?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>4.4: TAKE 5s are being used by workers to assess risks prior to commencing assigned tasks?</p> <p>Guidance: Select several workers and discuss the Take 5 with them.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

5.0 Electrical Safety

Question	NA	Yes	No	Findings/Comments
5.1: Are all portable electrical devices and extension leads tested and tagged within the required date?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
5.2: All electrical supplies, including temporary power supplies and generators are fitted with an RCD which has been tested and tagged?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
5.3: Electrical installations and power leads are elevated and positioned away from the risk of damage and/or mechanically protected as required?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

6.0 Plant and Equipment

Question	NA	Yes	No	Findings/Comments
<p>6.1: Mobile plant has been subject to Pre-Commencement Inspections and verified compliant before being permitted to operate?</p> <p>Guidance: All Mobile Powered Plant and Equipment must a Plant Risk Assessment, Operator Manual and be compliant with pre-commencement requirements for safety controls and maintenance records before being operated on site.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
6.2: Daily pre-start inspections are being conducted and recorded by operators of plant and equipment?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>6.3: Operators of mobile plant are competent and authorized for the plant and activity being performed?</p> <p>Guidance: Check sample of operators for evidence of competency and training.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
6.4: Plant and equipment has adequate guarding and safe guards to prevent contact with moving parts?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
6.5: Scaffolds have current inspection (monthly) and are complete and have not been modified without additional sign-off?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
6.6: Lifting equipment in use or available for use has a current inspection and test completed?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
6.7: Equipment used for measurement monitoring activities has been calibrated?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>6.8: Equipment and tools being used complies with the Restricted and Prohibited Items Register?</p> <p>Guidance: 9 inch Grinders not in use, all powered tools have dead man switch, inspect tools and pneumatic equipment has safety clips and whip-checks, all guarding in place etc.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

7.0 Excavation Works

Question	NA	Yes	No	Findings/Comments
<p>7.1: Permit to Break Ground is in place, appropriate for the works, authorized and has been communicated to workers involved?</p> <p>Guidance: Permit to Break Ground is specific to the location of the excavation works, all Services drawings are attached and available and workers involved in the works have been briefed on the conditions and requirements of the permit.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
7.2: Appropriate signage, fencing and/or barricading is in place to prevent unauthorized access to open excavations?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
7.3: Excavations are battered, benched or shored appropriately?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
7.4: Daily inspections of open excavations are being conducted and recorded?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

8.0 Traffic Management				
Question	NA	Yes	No	Findings/Comments
<p>8.1: Traffic Control devices are in place in accordance with an approved Traffic Control Plan?</p> <p>Guidance: Check implementation against the approved TCP for all arrangements implemented on public roadways.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>8.2: Personnel performing duties as Authorized Traffic Controllers hold the appropriate Accreditation, and are undertaking regular reviews of the traffic control arrangements?</p> <p>Guidance: Where Authorized Traffic Controllers are implementing Temporary Traffic Controls (non-permanent signage and traffic control) inspections should be conducted regularly throughout the shift.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

9.0 Other Safety Items				
Question	NA	Yes	No	Findings/Comments
<p>9.1: Undertake a check of Chemicals on site to ensure current SDS's are easily available to workers on site?</p> <p>Guidance: Sample Chemical substances and ensure that SDS's are available and are less than 5 years old.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>9.2: All chemicals are stored in suitable containers that are clearly labelled?</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>9.3: Suitable Spill Kits are available and readily accessible?</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>9.4: Compressed gas cylinders are stored in a secured way to prevent toppling and where required suitably segregated?</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

10.0 Environmental Controls				
Question	NA	Yes	No	Findings/Comments
<p>10.1: Erosion and sedimentation controls are installed and are maintained?</p> <p>Guidance: Controls required to all site boundaries and storm-water inlets to prevent sediment laden water entering the storm-water system and leaving site.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>10.2: Site Entry/Exit points have effective controls in place that prevent dirt and mud from being transferred off site?</p> <p>Guidance: Rumble grids and or wheel washes are effective, there is no visible tracking of dirt, dust or mud off site.</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>10.3: There are no visible sources of dust being generated and leaving site, with dust suppression available on site as/when required?</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
<p>10.4: Stockpiles are being managed to prevent run off and dust. Contaminated stockpiles are segregated from clean areas of work sites?</p>	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	

Question	NA	Yes	No	Findings/Comments
10.5: Areas of protected trees and flora are clearly identified and segregated from work areas?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
10.6: All waste generated on site is being segregated into waste bins or skips on site? Guidance: Waste types being segregated for recycling where possible.	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
10.7: Waste bins are being regularly serviced and are not overflowing?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	
10.8: Cultural heritage and environmentally sensitive areas are identified and protected against damage or interference?	<input type="radio"/> NA	<input type="radio"/> Yes	<input type="radio"/> No	