Kincumber Residential Aged Care Facility

Soil & Water Management Plan

Prepared for: Lendlease Attention: Numa Miller Date: 15 October 2019 Prepared by: Oliver Walsh Ref: 30916-5

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Revision

Revision	Date	Comment	Prepared By	Approved By
1	15/10/19	Development Application Issue	GYD	OKW

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1. Introduction

Wood & Grieve Engineers now part of Stantec have been commissioned by Lendlease to prepare this Soil & Water Management Plan in support of the Development Application for the proposed development at 290 Avoca Drive, Kincumber, NSW.

This Soil & Water Management Plan provides strategies and mitigation measures to manage disturbed areas of the site. It outlines appropriate measures to ensure that activities including excavated soil, stormwater, erosion, and sedimentation are managed appropriately during site establishment and construction of the project. The Soil and Water Management Plan specifically addresses the following items for both the construction and operational phases of the development:

- Site topography
- Site and allotment boundaries
- Location of adjoining roads and impervious surfaces
- External stormwater entering the site
- Existing vegetation and site drainage
- Nature and extent of clearing, excavation and filling
- Diversion of run off around disturbed areas
- Location and type of proposed erosion and sediment control measures
- Location of site access and stabilisation of site access
- Sediment retention basin details
- The location and concept plans of proposed constructed wetlands/ gross pollutant traps, trash racks or trash collection / separator units
- Proposed site rehabilitation and landscaping
- Maintenance program for erosion and sediment control measures.



2. The Development Site

The development sites address is 290 Avoca Drive, Kincumber and is part of Lot 103, DP 707503 with the development site being subdivided from the existing overall lot. The proposed site area will be 12,137m² of the overall 27,864m² site and the whole construction will occur in one stage.



Figure 1 – Site Location



3. Site Characteristics

3.1 Topography & Stormwater Catchments

The site primarily falls north east to south west and has no external catchments. DWG KI-CD-070-01 [C] located in Appendix A identifies site contour lines and directions of fall.

3.2 Boundaries

The proposed site area will be 12,137m² of the overall 27,864m² site. The image below (Figure 2) shows the site boundary relative to the allotment boundary.



Figure 2 – Allotment and Site Boundaries

3.3 Adjoining Roads

The site is bounded to the south by Scaysbrook Drive and to the North by Avoca Drive. The location of all adjoining roads and impervious surfaces can be seen on Drawing KI-CD-070-01 [C] in Appendix A.

During construction the site will be accessed via Scaysbrook Drive. At the entrance/exit to the site there will be a temporary vehicle shakedown device (or similar) to minimise unintended sediment being carried offsite via vehicles.



4. Stormwater

4.1 Flows Through Site

The proposed site will not be subject to external catchments and therefore no stormwater runoff emanating from the site needs to be considered. This has been considered and included in the Sediment Basin Sizing Calculations which can be viewed in Appendix B.

4.2 Existing Vegetation and Site Drainage

The existing vegetation can be seen on Drawing KI-CD-070-01 [C] located in Appendix A. Former development on the site has recently been demolished and the site is now entirely pervious. Runoff from the site currently discharges via sheet flow into Scaysbrook Drive.

4.3 Sediment and Erosion Control Measures

In order to prevent ill effects of sediment run off during construction, measures have been taken to capture sediment before it enters waterways. Diversion swales have been designed for both the southern and western boundaries directed into a 403m³ sediment basin in the south western corner of the site. Sediment fences have also been included downstream of the southern boundary diversion swale as well as cutting across the south west corner of the site. These measures have been included in Drawing KI-CD-070-01 [C] in Appendix A, which also includes a detail of the sediment retention basin. Supporting calculations for the sizing of the sediment retention basin have been included in Appendix B.

4.4 Bioretention Basin

The completed development has been designed to include a bioretention basin at the southern boundary of the site. The bioretention will have a $170m^2$ footprint and will undergo a staged construction in line with council requirements. Refer to Appendix C for a general arrangement plan indicating the proposed location of the bioretention basin.

5. Site Excavation

Details of the extent of all excavation works is included in the bulk earthworks plan 253824-KI-CI-100-01[D] and 253824-KI-CI-100-02[D] which can be found in Appendix D.

There will be no significant material stockpiles for this site.



6. Landscaping

The development of this site will have impacts on the current landscape. The proposed landscaping site plan including a detail of trees to be retained and removed has been included in Appendix E. The landscape plans also detail permanent erosion and sediment control measures that will endure beyond the construction phase.



7. Maintenance – Erosion and Sediment Control

A detailed maintenance program for erosion and sediment control has been compiled by the principal contractor and is included in Appendix E of this report.



Appendix A Erosion and Sediment Control Plan





Appendix B Sediment Basin Sizing Calculations

1. Site Data Sheet

Site name:	Kincumber Aged Care
Site location:	33 Scaysbrook Drive, Kincumber
Precinct:	

Description of site: Brownfield Site

Site Area	Site						Parradua	
Site Ared	S1						Kemarks	
Total catchment area (ha)	1.21							
Disturbed catchment area (ha) 1.								

Soil analysis

Soil landscape	Soil Hydrological Group A/B					DNR mapping (if relevant)	
Soil Texture Group	Туре	D/F					Sections 6.3.3(c), (d) and (e)

Rainfall data

Design rainfall depth (days)	5			See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	80			See Sections 6.3.4 (f) and g
x-day, y-percentile rainfall event	35			See Section 6.3.4 [h]
Rainfall intensity: 2-year, 6-hour storm				See IFD chart for the site
Rainfall erosivity (R-factor)				Automatic calculation from above data

Comments



Volume of Sediment Basins, Type D and Type F Soils

Basin volume = settling zone volume + sediment storage zone volume

Settling Zone Volume

The settling zone volume for Type F and Type D soils is calculated to provide capacity to contain all runoff expected from up to the y-percentile rainfall event. The volume of the basin's settling zone (V) can be determined as a function of the basin's surface area and depth to allow for particles to settle and can be determined by the following equation:

$$V = 10 \times C_v \times A \times R_{y\%ile, \times day} (m^3)$$

where:

- 10 = a unit conversion factor
- C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the x-day period
- R = is the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).
- A = total catchment area (ha)

Sediment Storage Zone Volume

In the standard calculation, the sediment storage zone is 50 percent of the setting zone. However, designers can work to capture the 2-month soil loss as calculated by the RUSLE [Section 6.3.4(i)(ii)], in which case the "Detailed Calculation" spreadsheets should be used.

Total Basin Volume

Site	Cv	R x-day y-%ile	Total catchment area (ha)	Settling zone volume (m ³)	Sediment storage volume (m ³)	Total basin volume (m ³)
S1	0.64	35	1.21	268.8	134.4	403.2



Appendix C Bioretention Basin





С	ISSUED FOR DA APPROVAL	CPO	IAH	28.03.19
В	FOR INFORMATION	IAH	IAH	27.02.18
А	ISSUED FOR DA APPROVAL	CPO	IAH	06.02.18
REV	DESCRIPTION	DRAWN	APP'D	DATE

DRAWN:	
DESIGNED:	
VERIFIED:	
APPROVED FOR TENDER:	
APPROVED FOR CONSTRUCTION:	



•	•		•	•
С	ISSUED FOR DA APPROVAL	CPO	IAH	29.03.19
В	FOR INFORMATION	IAH	IAH	27.02.18
А	ISSUED FOR DA APPROVAL	CPO	IAH	06.02.18
REV	DESCRIPTION	DRAWN	APP'D	DATE

WN:		
GNED:		
FIED:		
ROVED TENDER:		
ROVED FOR STRUCTION:		

253824-KI-CD-060-02.dwg 25/10/2019 10:58:00 AM

Appendix D Bulk Earthworks Plans







F	ISSUED IN RESPONSE TO COUNCIL RFI	CPO	IAH	25.10.19
Е	ISSUED FOR DA APPROVAL	CPO	IAH	28.03.19
D	EXISTING SED BASIN ADDED	IAH	IAH	21.01.19
С	UPDATED FOR NEW LAYOUT	IAH	IAH	18.01.19
В	UPDATED FOR MOUNDS	IAH	IAH	14.01.19
А	ISSUED FOR DA APPROVAL	CPO	IAH	06.02.18
REV	DESCRIPTION	DRAWN	APP'D	DATE

DRAWN:	
DESIGNED:	
VERIFIED:	
APPROVED FOR TENDER:	
APPROVED FOR CONSTRUCTION:	



KINCUMBER AGED CARE

PROJECT

BULK EARTHWORKS PLAN -SHEET 1

TITLE

Surface Analysis: Elevation Ranges								
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)					
1		-3.500	-3.000					
2		-3.000	-2.500					
3		-2.500	-2.000					
4		-2.000	-1.500					
5		-1.500	-1.000					
6		-1.000	-0.500					
7		-0.500	0.000					
8		0.000	0.500					
9		0.500	1.000					
10		1.000	1.500					
11		1.500	2.000					
12		2.000	2.500					
13		2.500	3.000					
14		3.000	3.500					
15		3.500	4.000					
16		4.000	4.500					

WOOD & GRIEVE ENGINEERS

AS SHOWN SCALE @ A1 PROJECT No

253824

KI-CD-100-01 DRAWING No

FOR APPROVAL

NOT FOR CONSTRUCTION

F REV



•	•	•		
F	ISSUED IN RESPONSE TO COUNCIL RFI	CPO	IAH	25.10.19
Е	ISSUED FOR DA APPROVAL	CPO	IAH	28.03.19
D	EXISTING SED BASIN ADDED	IAH	IAH	21.01.19
С	UPDATED FOR NEW LAYOUT	IAH	IAH	18.01.19
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А	ISSUED FOR DA APPROVAL	CPO	IAH	06.02.18
REV	DESCRIPTION	DRAWN	APP'D	DATE

DRAWN:	
DESIGNED:	
VERIFIED:	
APPROVED FOR TENDER:	
APPROVED FOR CONSTRUCTION:	



KINCUMBER AGED CARE

PROJECT

BULK EARTHWORKS PLAN -SHEET 2

TITLE

Surface Analysis: Elevation Ranges					
Number	Color	Minimum Elevation (m)	Maximum Elevatior (m)		
1		-3.500	-3.000		
2		-3.000	-2.500		
3		-2.500	-2.000		
4		-2.000	-1.500		
5		-1.500	-1.000		
6		-1.000	-0.500		
7		-0.500	0.000		
8		0.000	0.500		
9		0.500	1.000		
10		1.000	1.500		
11		1.500	2.000		
12		2.000	2.500		
13		2.500	3.000		
14		3.000	3.500		
15		3.500	4.000		
16		4.000	4.500		



FOR APPROVAL NOT FOR CONSTRUCTION 253824 KI-CD-100-02 AS SHOWN SCALE @ A1 PROJECT No DRAWING No

Ε REV Appendix E Landscape Plan





Kincumber Residential Aged Care | Development Application **ASPECT Studios[™]**

Client: Lendlease Building Pty Ltd

Drawr DI Checked: AW

1:500@A3 Scale Date: 25 October 2019

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5

10

E L	egend
01	Driveway
02	Carpark
03	Ambulance Bay
04	Setdown
05	DDA access
06	Mechanical plant
07	Footpath to Council standard drawings
08	Bus stop
09	Street trees to Council standard drawings
10	Garden bed-native buffer palette
11	Garden bed-Perimeter palette
12	Courtyard palette
13	House A courtyard
14	House B courtyard
15	Turf
16	Bio-retention basin to engineers drawings
17	Landscape bund palette
18 19	Lomandra Longifolia planted to either side of new footpath
20	Hedge planting to surround booster

Dwg no.: B17035 - SK2.0 G Rev:

 \mathbf{C}

15

20м

Appendix F Maintenance Program



KINCUMBER RACF -STAGE 2 CONSTRUCTION 290 AVOCA DRIVE, KINCUMBER MANAGEMENT PLAN -STORMWATER AND EROSION

14/10/2019 | Revision No: 1.1



LEND LEASE BUILDING PTY LTD | 97 000 098 162

Sub Plan Revision Status						
Date	Revision (in numbers)	Purpose and Summary of Amendments	Reviewed by	Approved by		
22/03/19	[1]	For local authority review and DA approval	Ian Harris	Numa Miller		
14/10/19	[1.1]	Updated SWMP	Ian Harris	Numa Miller		
[]	[]	[]				
	[]	[]				
	[]	[]	[]	[]		
	[]	[]	[]	[]		
	[]					

*Note that all printed paper/hard copies of this document remain uncontrolled. The controlled copy of this document is found either in the project collaboration tool, within the Project Management Plan section, or other project specific database/server approved by the Regional EHS Manager / Head of EHS Integrated Project.

1. SCOPE OF PROJECT AND SUB PLAN

Project Details	
Scope of the Sub Plan	This Stormwater, Erosion and Sedimentation Management Sub Plan provides strategies and mitigation measures to manage disturbed areas of the site. It outlines appropriate measures to ensure that activities including excavated soil, stormwater, erosion, and sedimentation are managed appropriately during site establishment and construction of the project. It describes measures to be implemented during relevant construction activities and defines discharge protocols and treatment procedures that enable control of the impacts of the construction activities on potentially affected areas of adjacent water bodies. Refer to Section 1.1 and 3.1 of the Project EHS Management Plan for clarification on how the EHS Sub Plans form part of the Lend lease Building (LLB) EHS management system.
Objectives of the Sub Plan	• To avoid erosion, contamination and sedimentation occurring, resulting from construction activities with a concentration on controls to minimise dust and vehicular mud-tracking.
	• To control the quality of stormwater leaving the construction site, so that no unacceptable impact will intrude upon the natural watercourses and/or stormwater drains.
	To minimise disturbance of the surrounding hydrological regime
	To maximise opportunities for stormwater recycling on site.
	• To effectively manage the bulk excavation and associated dewatering activities to minimise impact on any adjacent water bodies.
	Erosion and sediment controls are to be effective and properly maintained at all times.
	• Water treatment procedures to treat collected /retained stormwater to achieve acceptable water quality criteria.
	To monitor the effects of activities and the effectiveness of mitigation measures
Scope of	This Sub Plan has been prepared based on consideration of the following scope of works: :
Works	• Site establishment including office by using existing structure, compound setup and the installation of environmental controls;
	Construction of a Residential Aged Care Facility
	•

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Key Issues and Risks

The site is located at H290 Avoca Drive, Kincumber. The site is bounded by Avoca drive to the north, grassed properties to the east, Scaysbrook Drive to the south and a residential property / retirement village to the west.

The soils at the site are detailed in 'GeoTech Report - 91006 00 R 001 Rev0'

Which detail the following;

- Subsurface conditions, including depth of fill, depth to groundwater and depth to bedrock;
- Excavation conditions;
- Site classification in accordance with AS2870-2011;
- Shallow footing options and design parameters, including allowable bearing capacities and estimated settlements;
- Internal driveway and car park pavement thickness design;
- Retaining wall parameters;
- · Geotechnical suitability of materials for re-use;
- Earthworks prepration measures

It is **NOT EXPECTED** that groundwater will be encountered at up to a depth of 4.5m.

The works required on site will involve ground disturbance creating the potential for erosion, sedimentation, runoff and environmental pollution, if appropriate controls are not implemented and maintained. The activities with the greatest potential to impact on the local environment and community from a stormwater, erosion and sedimentation perspective are considered to be:

- Establishment and operation including storge areas;
- Bulk and detailed excavation and spoil generation;
- The delivering and unloading of materials to site;

Stormwater and groundwater detention and dewatering. andWaste disposal The impact of these works may include:

- Cause of potential flow into stormwater system and/or adjacent surface water bodies from sediment laden water originating from the site.
- Stormwater with excessively high or low pH values could potentially run-off from selected stockpile stabilisation areas.
- Pollution of local ecosystems and waterways due to uncontrolled site runoff;
- Pollution associated with the discharge of sediment laden or contaminated water during dewatering activities;
- Vehicles exiting construction site potentially depositing dust/dirt/mud on public roads after rain periods.
- Localised flooding during high intensity storm events.



Works must be planned and implemented in accordance with the Lendlease GMRs, the Project EHS Plan, this Sub Plan and the Lendlease Building WDC. These documents detail Lendlease's approach and commitment to pro-active and responsible site management.
Site specific controls, monitoring, reporting and performance measurements have been identified in this Sub Plan to prevent or minimise the impacts of construction on the environment and community. These include but are not limited to:
Preventing erosion through minimal ground disturbance;
Maintenance of erosion and sedimentation controls;
Covering of stockpiles;
The use of controls to trap sediment close to its source and prevent migration off site;
The control and maintenance of site access and egress points to prevent tracking and off-site pollution; and
The identification of acceptable detention, testing, treatment and dewatering processes.
A Stormwater, Erosion and Sedmentation Management Diagram (EMD) will be prepared prior to any site activities commencing including clearing and earthworks.
Construction stage stormwater, erosion and sedimentation requirements will be included in relevant specifications, contract agreements, quality assurance documents, and subcontractor work method statements.
Site inspections, monitoring and reporting will be undertaken by Lendlease and subcontractors as detailed in the EHS Plan and the following implementation table.

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2. IMPLEMENTATION OF THE SUB PLAN

Control Measure	Timing	Methodology	Responsibilty	Monitoring and Reporting	Performance Measurement		
Planning and Site Establishment	Planning and Site Establishment						
Include information in the Site Induction about the risks and potential impacts of stormwater runoff, erosion and sedimentation on the local environment and community.	Prior to works commencing and ongoing	Revise Lendlease standard induction package to include site specific information. Deliver induction material.	SM	WMS prepared by subcontractors to address stormwater, erosion and sedimentation	Site induction delivered to all workers on site.		
Prepare a stormwater, erosion and sediment Environmental Management Diagram (EMD) showing the location of stormwater inlets, drains, stockpile locations and erosion and sediment control measures.	At site establishment and prior to works commencing	Review Environmental Management Diagram (EMD Appendix 1). Disconnect and cap all stormwater services prior to commencement	SM	EMD reviewed. Diagram updated every 6 weeks.	Diagram prepared containing all relevant details and communicated. Diagram updated to reflect changes in site conditions. Controls implemented in accordance with the EMD.		
Limit ground disturbance to the area required for excavation and construction.	Areas of clearing identified prior to works commencing	Detail excavation requirements on staging/sequencing program. WMS prepared by subcontractor. Identify and fence off trees/vegetation to be retained. Communicate details.	SM	Daily surveillance to assess condition of fencing. Weekly inspection checklist. Inspection after a rain event.	No unnecessary land disturbance. Vegetation protection fencing and signage maintained.		
Disconnect stormwater, and install erosion and sediment controls as per the EMD.	Prior to works commencing	Undertake a site inspection to verify the correct location of controls.	SM	Daily surveillance to assess effectiveness and condition.	EMD reviewed very 6 weeks. Controls modified or new controls installed as required.		

		Install controls in accordance with EMD, design/engineers documentation. Disconnection of all stormwater		Weekly inspection checklist.	
		works			
Establish stable site exit points, parking areas, internal roads and turning areas to prevent the tracking of material off- site onto public roads.	Prior to works commencing. Maintain at all times	Retain existing hard surfaces where possible. Construct stable site entry/exit points and roadways using appropriate materials. Installation of cattle grid at	SM	Daily surveillance and maintenance. Weekly inspection checklist.	No tracking of sediment onto public roads or dust.
		Maintain shaker grid, cattle grid			
Install a cattle grid or shaker facility at the site entry/exit.	Prior to construction commencing	WMS to be prepared by subcontractor including a maintenance program.	SM	Daily surveillance. Weekly inspection checklist.	No mud/silt tracked onto roadways.
		Engage sweeper. Limited hosing of hard surfaces only.			
Provide additional sediment detention	Prior to	Assess exisitng sediment detention areas		Daily surveillance to assess condition and capacity.	Appropriately maintained
areas to capture site runoff as required.	commencing works	Operate and maintain in accordance with design/	SM	Weekly inspection checklist.	
		engineering documentation		Inspection during and immediately after rain.	
Erosion and Sediment Control During	Construction V	Vorks	•		

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STORMWATER, EROSION AND SEDIMENT MANAGEMENT SUB PLAN ISSUE NO: 1.1 \ ISSUE DATE: 22/03/2019 \ PROJECT REVISION NO: [1] LENDLEASE BUILDING MANAGEMENT SYSTEM

Maintain Detention Areas	At all times and after rain events	Check the condition of controls. Remove accumulated sediment and debris and dispose. Undertake maintenance as required.	SM	Daily surveillance. Weekly inspection checklist. Post rain inspections.	Silt collected at base of fence. No breach of fence line.
Cover all loads leaving site to minimise the potential for spillage and tracking.	At all times	WMS prepared by subcontractor to address covering of loads and prevention of tracking. Loads and the condition of trucks/tailgates checked by subcontractor before leaving site.	SM	Daily surveillance. Weekly inspection checklist	No uncovered loads No non conformances identified.
Locate stockpiles away from drainage lines, watercourses, sensitive ecosystems and flood prone areas.	At all times	Stockpile locations identified on EMD diagram. WMS prepared by subcontractor addresses stockile management.	SM	Daily surveillance. Weekly inspection checklist.	No uncontrolled stockpiles. No stockpiled material runoff into the stormwater system.
Maintain erosion and sediment controls until the potential for erosion and sedimentation has been eliminated.	At all times	Maintain controls in accordance with SESC diagram. Do not remove controls prior to any area being deemed stable.	SM	Weekly inspection checklist Inspections during rain events.	Controls effective and in good condition. No uncontrolled discharges of sediment off-site or into waterways.
Stormwater Detention and Dewatering	l				
Inspect detention facilities and stormwater treatment devices and remove any build up of debris.	Ongoing. Within 24hrs of a rain event	Maintain detention facilities for storm events.	SM	Inspection within 24hrs of nominated rain event.	Detention areas/facilities to be maintained in operational condition.

Inspect the site after each rain Weekly inspection No uncontrolled discharges event including sediment under design conditions. checklist. basins/detention areas and stormwater treatment devices. WMS to be prepared by subcontractor to address inspection, testing and dewatering. Water treatment and WMS prepared by dewatering undertaken in Inspection within 24hrs of subcontractor to address this accordance with documented nominated rain event. option. site procedure and Workplace Establish defined De-Watering Zone As Required SM Delivery Code. Undertake water quality testing Weekly inspection in the event where we required checklist No discharge into authority to discharge off site. stormwater Site Stabilisation Stabilisation of all disturbed Weekly inspection Stabilise and seal disturbed work areas as required. Progressively checklist areas in accordance with the SM Implement site stabilisation works. during No uncontrolled runoff design/engineering/landscape Project planning and Construction containing sediment or plans and scope of works. design meetings. contaminants.

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Appendix 1 : Erosion & Sediment Control Plan

STORMWATER, EROSION AND SEDIMENT MANAGEMENT SUB PLAN ISSUE NO: 1.1 \ ISSUE DATE: 22/03/2019 \ PROJECT REVISION NO: [1] LENDLEASE BUILDING MANAGEMENT SYSTEM



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APPENDIX 2 : ENVIRONMENTAL MANAGEMENT DIAGRAM

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Design with community in mind

Street Address 1 Street Address 2 City, State, Postcode Tel +61 Area Code + Phone No. E Office email

For more information please visit www.wge.com.au



