

STORMWATER AND DRAINAGE MANAGEMENT PLAN

131-3227

Palmer Wind Farm Balance of Plant

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Rev H

THAT'S THE POWER OF



Job Name:	Palmer Wind Farm - Balance of Plant		
Job No.:	131-3227		
Client:	Tilt Renewables Australia Pty Ltd		
Authorised by:	Trent Dunoon	Date:	7/05/2026
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TABLE OF CONTENTS

1.	Introduction	6
1.1.	Purpose and scope	6
1.2.	Environmental management system.....	6
1.3.	Project overview	7
1.4.	Site overview	9
1.5.	Consultation Requirements.....	9
2.	Objectives and targets	11
3.	Legislative requirements and compliance obligations.....	13
3.1.	Legislative requirements	13
3.2.	Compliance obligations	14
3.3.	Other requirements	15
4.	Risk identification and assessment	15
4.1.	Environmental risk assessment	15
4.2.	Ongoing risk assessment.....	16
4.3.	Impact identification	17
5.	Management approach.....	17
5.1.	Catchment and Rivers.....	17
5.2.	Construction Staging.....	19
5.3.	Discharging	19
5.4.	Environmental Control Plan (ECP)	20
6.	Roles and responsibilities	20
6.1.	Project Manager.....	20
6.2.	Field Supervision.....	21
6.3.	Project Engineer.....	21
6.4.	Environmental Representative (or delegate)	22
6.5.	All site personnel.....	22
7.	Mitigation and Management Measures	22
8.	Compliance Management.....	26
8.1.	Training and Awareness	26
8.2.	Monitoring, Inspections and Auditing	26
8.2.1.	Monitoring and inspection.....	26
8.2.2.	Auditing	26
8.2.3.	Reporting	26

8.3.	Environmental Incidents.....	27
8.4.	Non-Conformance Reports (NCRs).....	27
8.5.	Environmental Complaints	27
9.	Review and Improvement.....	27
9.1	Minor Amendments to the SDMP	27
Attachment 1 – Compliance Matrix		29
Attachment 2 – Discharge Permit.....		32
Attachment 3 – Example Environmental Control Plan		33

1. INTRODUCTION

1.1. Purpose and scope

The Stormwater and Drainage Management Plan (SDMP) forms part of the Construction Environmental Management Plan for BMD. The SDMP describes how BMD proposes to manage the stormwater and drainage requirements during the construction of the Palmer Wind Farm.

This document has been prepared to satisfy Reserved Matter 4 (RM4) for the project, which states that “A *final Stormwater and Drainage Plan detailing stormwater quantity and quality measures shall be prepared in consultation with the Mid Murray Council and submitted to the satisfaction of the State Planning Commission.*”

The SDMP is the overarching project reference for the management of stormwater and drainage throughout the construction phase. The SDMP describes all applicable procedures, processes, and practices to be undertaken by BMD Constructions and subcontractors to manage environmental risks, effectively minimise impacts on the surrounding environment, and ensure compliance with regulatory and other obligations throughout project delivery.

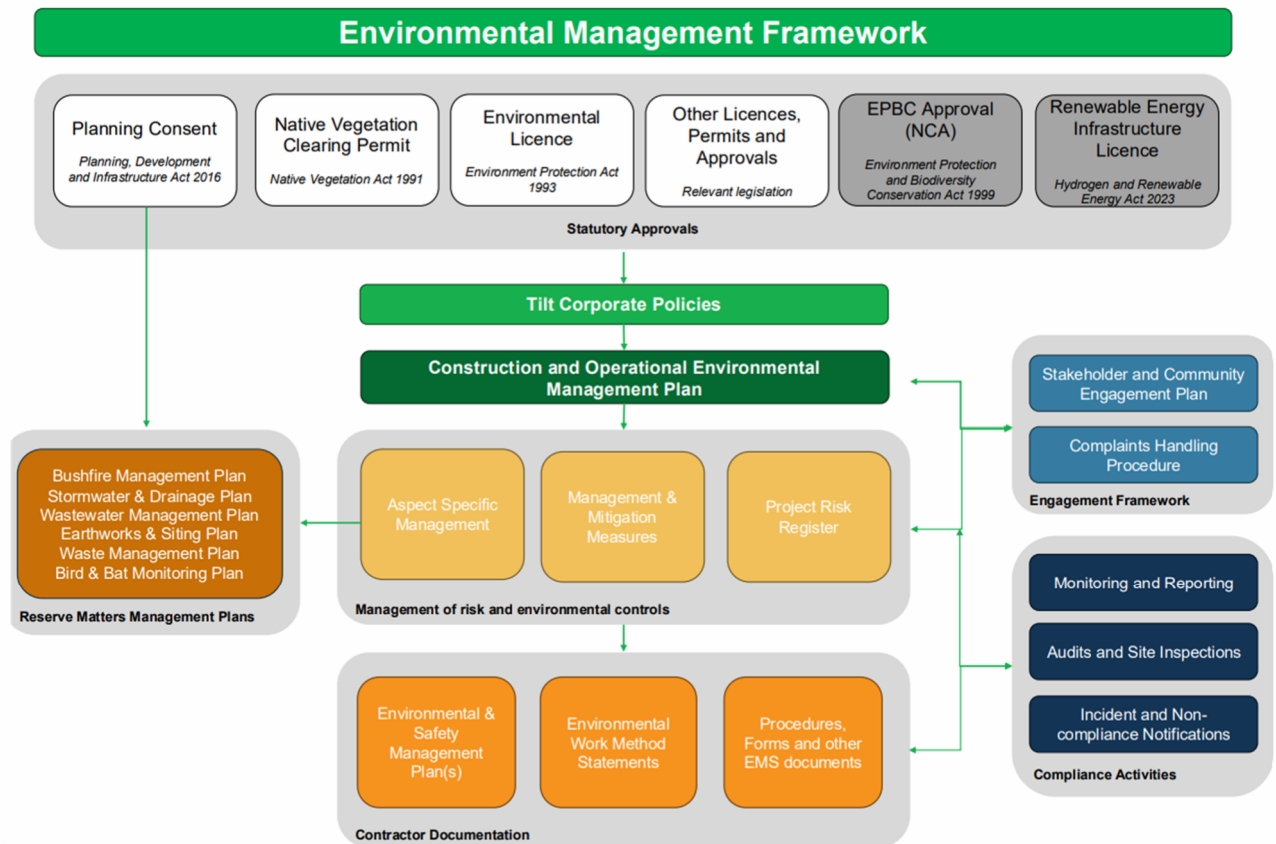
The SDMP is one of several environmental management plans (EMPs) for the Project. The SDMP and its procedures will be applicable to all project works, staff, and subcontractors during construction of this project.

1.2. Environmental management system

To achieve the intended environmental objectives and goals, BMD Constructions have established, implemented, maintained and continually improved an Environmental Management System (EMS) in accordance with the requirements of ISO14001:2016.

Furthermore, this SDMP is a stand-alone management plan that incorporates the Project Environmental Management Framework set out in Figure 1 below. This plan links to the Construction and Operational Environmental Management Plan (COEMP) to ensure compliance with the Reserved Matters obligations under the Planning Consent and forms part of the suite of management plans for the project, as illustrated in Figure 1 below.

Figure 1: Project Environmental Management Framework



This Plan should be read in conjunction with the Project CEMP and relevant sub-plans and Reserved Matter Management Plans.

1.3. Project overview

This document has been prepared for contract number 131-3227 (Palmer Wind Farm Project).

The Palmer Wind Farm Project (the Project) is located approximately 70 km east of Adelaide, between the townships of Palmer and Tungkillo, wholly contained within the Mid Murray Council (MMC) Local Government Area and on the lands of the Peramangk People. The Project will help reduce Australia's carbon footprint by generating up to 300MW of clean energy when constructed, which is enough to power up to 150,000 South Australian homes.

Palmer Wind Farm Pty Ltd (the Proponent) as trustee for Palmer Wind Farm Project Trust, is proposing to construct and operate up to 40 wind turbine generators, totalling approximately 288 megawatts (MW) of installed generation capacity as part of the Project, with associated wind farm infrastructure. The Project will connect to the national electricity grid via the existing Tungkillo Switchyard, owned and operated by ElectraNet.

Development authorisation by way of Planning Consent under the Development Act 1993 was granted for the Project by MMC in December 2015 (DA 711/072/14). A variation to the Development Plan Consent was approved by the State Commission Assessment Panel under the Planning, Development and Infrastructure Act 2016 (PDI Act) in February 2025 (DA 24005571; Planning Consent).

Under the Planning Consent, micro-siting of turbines and associated infrastructure is permissible within the micro-siting area (see Figure 2) to respond to site constraints during finalisation of detailed design and construction sequencing. Examples may include a change in location following geotechnical assessment, construction and site accessibility for plant and equipment and/or to avoid identified environmentally sensitive areas.

1.4. Site overview

The wind farm site is located in the eastern Mount Lofty Ranges, South Australia, approximately 70 km east of Adelaide CBD. There are five key localities near the development: Palmer, Tungkillo, Cambrai, Sanderston and Milendella. Tungkillo has a population of approximately 600 people and includes the township of Tungkillo and the town of Palmer, a small township (approximate population 75 people) that consists of a general store, hotel and a small primary school consisting of approximately 25 students.

Mount Pleasant is the regional centre of the area with a population of approximately 1000 people. Mount Pleasant has a number of facilities, including a small primary school. The wind farm will be located on a number of private properties, primarily used for farming and is predominantly rural in nature with limited residential properties.

The topography of the area comprises undulating hills of the eastern Mount Lofty Ranges, with steep escarpments present along geological fault zones, particularly at the eastern extent of the ranges. Steep sided valleys occur where watercourses cross the escarpments. There are a number of watercourses within the area, with the majority being ephemeral.

Reedy Creek occurs within the Project Area, in the eastern corner of the site. Additional named waterways of note in the site include Talbot Creek (southern extents), Dairy and Baker Creeks to the west and Harrison Creek the most Northern waterway within the Project. Importantly, no waterways exist north of Randell Road although Milendella Creek borders to the north-east corner of the site.

Transportation networks in the wider area consist of mainly unsealed gravel roads owned and maintained by the Mid Murray Council, plus regional / collector sealed roads servicing the townships.

1.5. Consultation Requirements

Reserved Matter RM4 requires that consultation is undertaken with Mid Murray Council and Landscape Board for the preparation of this SDMP. The SDMP will be updated further following receipt of comments, as required. Summary of the outcomes of consultation and how they have been addressed are below:

Section	Comment	Response from BMD
Mid Murray Council Comments		
2.0 Objectives and Targets table	Include an additional objective: <i>'Stormwater to be controlled/managed at public road crossings as required to minimise erosion and damage to the roadways. This requires a Section 221 permit and should be undertaken in line with the road crossing upgrades.'</i>	Additional objective added to the table in Section 2.
3.1 Legislative Requirements	While there is acknowledgement of the various National and State legislation i.e. <i>Environmental Protection (Water Quality) Policy 2015</i> and the <i>River Murray Act 2003</i> , there is no discussion as to how the project is to address their	Additional line items added to table in Section 3.2.

Section	Comment	Response from BMD
Mid Murray Council Comments		
	requirements. This could be addressed by expanding on the table within Section 3.2.	
5.1 Catchment and Reserves	The following statement is incorrect, please amend. “Reedy Creek Swamp is located approximately 7km east of the Project area, which is a high ecological value series of wetlands fed by irrigation runoff from the Goulburn River.” It is believed that this is referring to Reedy Swamp in Victoria, as there is no Goulburn River nearby. Reedy Creek Swamp is connected to the Murray River, with Reedy Creek flowing into it.	Section 5.1 has been corrected.
5.3 Discharging	Council is supportive of water re-use onsite, as this assists in preventing further risk of environmental or impact on safety of public roads or properties.	Noted, no update to management plan.
7.0 Mitigation and Management Measures	With respect to ID SD2, Council notes that any alterations to road drainage infrastructure within Council Road reserves will require an approved Section 221 permit from Council. Council is supportive of ensuring that measures are in place to prevent all waste materials from entering the River Murray system by ensuring that they are appropriately contained. This includes, for example, sediment fencing installed where appropriate, recycling water from the concrete plant and installing a sedimentary basin to capture all runoff from the concrete batching site.	Noted. SD2 has been updated to reflect the requirement for a Section 221 permit for alterations to Council Road drainage infrastructure where required.
Landscape Board Comments		
5.1 Catchment and Rivers	There is acknowledgement on page 15 that stormwater discharges into water courses will require a water affecting activity permit. For consistency and compliance by subcontractors, this requirement should be reiterated at other relevant points including on page 18 or Attachment 2.	Noted. Section 5.1 has been updated to reflect WAA Permit requirements. Note Attachment 2 is a BMD system document and cannot be modified per project requirements, however details on WAA Permit can be included in

Section	Comment	Response from BMD
Mid Murray Council Comments		
		the General Notes section of the Discharge Permit.
5.3 Discharging	The criteria for debris/rubbish and hydrocarbons described in section 5.3 discharge quantities should be specified to match the permit form specified in Attachment 2.	Noted, section 5.3 has been updated to reflect the Discharge Permit criteria of 'none visible' for both debris/rubbish and hydrocarbons.
5.3 Discharging	The landscape board request that salinity is also considered for discharges to ensure water quality is similar to the receiving environment. This is in accordance with principle 216(e) of the Eastern Mount Lofty Ranges Water Allocation Plan	A criteria for salinity has been added to Section 5.3 Discharging. Water Allocation Plan has been added to Section 3.3.
8.1 Training and Awareness	The use of regular toolbox talks, to be aligned with project works, programme and significant risks at the time, as noted in Section 8.1, is supported. These are important elements in reducing risk from runoff and maintaining compliance during construction.	Noted, no update to management plan required.
3.1 Legislative Requirements	Typo relating to Environment Protection and Biodiversity Conservation Act 1999	Reference to EPBC Act has been rectified.
5.1 Catchment and Rivers	Typo - Section 5.1 - Reedy Creek Swamp is located approximately 7km east of the Project area, which is a high ecological value series of wetlands fed by irrigation runoff from the Goulburn River. This statement can be replaced with the following sentence - <i>Reedy Creek swamp is a wetland of high ecological value directly connected to the River Murray, approximately 7km east of the project area. The wetland mixes upstream ephemeral flows from Reedy Creek with River Murray flows.</i>	Section 5.1 has been corrected.

2. OBJECTIVES AND TARGETS

The key objective of this Stormwater and Drainage Management Plan (SDMP) is to minimise the risks to human health and the environment arising from the movement of stormwater across the project site, while minimising the impacts to existing drainage lines within and around the project area.

As a means of assessing environmental performance, environmental objectives, targets and performance indicators have been established for the project and are provided in the table below. These objectives and targets have been developed in consideration of requirements in the planning consent, contractual requirements, legislative requirements, and significant environmental aspects and impacts.

Exceedances of the proposed targets will be investigated and reported based on the issue. Any exceedances which result in a non-compliance with the Planning consent will be reported in accordance with Section 8.4.

Objectives	Targets	Performance Indicators
Ensure that cleared areas are rehabilitated as soon as practicable following the completion of project works	- No significant program delays leading to exposed areas being scoured - No removal or significant degradation of erosion and sediment controls until rehabilitation is complete	Construction Program Tracking Weekly Inspections
Drainage lines on site are free of litter and other obstructions	No significant change to drainage lines and flow paths (where not approved for the Project) because of site works	Weekly inspections Pre and Post rainfall inspections Audits
No degradation of local creeks or waterways as a result of stormwater runoff	- No major stormwater intrusion incidents as a result of the Project - Evidence of effective site stabilisation following completion of works - No complaints regarding water quality as a result of project works	Weekly Inspections Monthly Reporting Incident records
Ensure project personnel are aware and competent in their responsibilities in relation to the management of stormwater	100% of project personnel aware of responsibilities under this SDMP	Project induction and training register Audits
Compliance with water affecting activities permits issued for the Project	Full Compliance	Compliance tracking Audits
Implementation of performance outcomes, commitments and mitigation measures specified in the Planning Consent	Full Compliance	Monthly Reporting Audits
Disposal of excavated fill material does not impact surface water,	Full compliance	Weekly Inspections Material tracking

Objectives	Targets	Performance Indicators
native vegetation or facilitate the spread of pest species		Audits
Construction activities are completed in such a way as to prevent erosion and pollution of the site and surrounding environment	Nil offsite impact	Weekly inspections Compliance tracking Audits
No fill contaminated with debris, chemical matter, pest or pathogen material is brought to or distributed around site	Full compliance	Incoming material inspections & clean fill certification Weekly inspections Audits
Stormwater to be controlled/managed at public road crossings as required to minimise erosion and damage to the roadways. This requires a Section 221 permit and should be undertaken in line with the road crossing upgrades.	Full compliance	Compliance with Section 221 permit requirements Weekly inspections Audits

3. LEGISLATIVE REQUIREMENTS AND COMPLIANCE OBLIGATIONS

3.1. Legislative requirements

The following legislation and regulatory guidelines apply directly to project works.

Commonwealth

- *Environment Protection and Biodiversity Conservation Act 1999*
- *Environment Protection and Biodiversity Conservation Regulations 2000*
- *National Environmental Protection Council Act 1994*
- *National Environmental Protection Measure 1999*
- *National Greenhouse and Energy Reporting Act 2007*
- *National Greenhouse and Energy Reporting Regulations 2008*

South Australia (SA)

- *Air and Water Quality Guideline – Concrete Batching (EPA 427/16 March 2016)*
- *Environmental Protection Act 1993*
- *Environmental Protection Regulations 2009*
- *Environmental Protection (Water Quality) Policy 2015*
- *Guidelines for separation distances (EPA) 2007*

- *Guidelines for urban Stormwater Management 2003*
- *Landscape South Australia Act 2019*
- *Local Government (Stormwater Management) Amendment Act 2007*
- *River Murray Act 2003*
- *Stormwater Management Planning Guidelines (SMA) 2007*
- *Stormwater pollution prevention 1999*
- *Stormwater Pollution Prevention, Code of practice for the building and construction industry 1999*
- *Urban Stormwater Management Policy for South Australia 2005*
-

3.2. Compliance obligations

The project team will ensure all environmental compliance obligations are identified prior to the commencement of works onsite. These requirements shall be included in project documentation and communicated to the project team. Key project compliance obligations are included in the table below:

Item Name	Legislation	Responsibility	Timing	Requirement
Development Approval	<i>Planning, Development and Infrastructure Act 2016</i>	Principal / Project Manager	Prior to and during construction	Comply with all conditions of approval including reserved matters
Statement of Commitments (SoC)	Incorporated under Approval Condition C1	Project Manager / Environmental Representative	Construction	Implement commitments related to stormwater and drainage
EPA Licenses and Approvals (if applicable)	<i>Environmental Protection Act 1993</i>	Project Manager / Environmental Representative	Prior to and during construction	Obtain and comply with any licences or approvals required under the Environment Protection Act 1993 for prescribed activities (e.g. concrete batching plant)
Mid Murray Council	<i>Planning, Development and Infrastructure Act 2016</i>	Project Manager	Prior to Construction	Review of this SDMP
Water Affecting Activities Permit	<i>Landscape South Australia Act 2019</i>	Project Manager / Environmental Representative	Prior to and during construction	Comply with requirements under permit,
Raw Water Supply Approval	<i>Safe Drinking Water Act 2011</i>	Project Manager / Environmental Representative	Prior to supply of water	Obtain and comply with requirements
Native Vegetation Clearance Approval	<i>Native Vegetation Act 1991</i>	Principal/Project Manager	Prior to construction	Comply with approval conditions
Compliance with water quality legislation	<i>Environmental Protection (Water</i>	Project Manager / Environmental Representative	Construction	Prevent pollution of surface water and groundwater, manage sediment and

Item Name	Legislation	Responsibility	Timing	Requirement
	<i>Quality) Policy 2015</i>			runoff, and implement appropriate erosion and sediment controls
Protection of Murray River	<i>River Murray Act 2003</i>	Project Manager / Environmental Representative	Construction	Ensure activities do not adversely affect the River Murray, including water quality, flows, and riverbank stability

Requirements and conditions of these licences, permits and approvals are incorporated within this SDMP.

3.3. Other requirements

Additional to the requirements identified above, the following standards, specifications, publications and codes of practice relating to environmental management will be implemented or referenced by the project during delivery.

Australian Standards

- AS/NZS ISO 14001: Environmental Management Systems – Specifications with Guidance for Use
- AS 3480.4: Methods for Sampling and Analysis of Ambient Air
- AS 1940-2004: The Storage and Handling of Flammable and Combustible Liquids

Government Publications and Guidelines

- *EPA guideline 396/10 – Water quality, dredging and Earthworks Drainage*
- *EPA guideline 1093/21 - Environmental Management of dewatering during construction activities*
- *EPA guideline 080/16 - Bunding and Spill Management*
- *EPA guideline 517/16 - Stormwater Management for wash bays*
- *EPA guideline 1093/18 - Environmental Management of dewatering during construction activities*
- National Environment Protection (Assessment of Contaminated Sites) Measure 1999 (Variation 2013)
- National Environment Protection (Ambient Air Quality) Measure 1998 (Variation 2015)
- National Environment Protection (Movement of Controlled Waste between States and Territories) 1998
- ANZECC Guidelines for Fresh and Marine Water Quality
- Eastern Mount Lofty Ranges Water Allocation Plan

Industry Publications

- IECA Best Practice Erosion and Sediment Control Guidelines 2008

4. RISK IDENTIFICATION AND ASSESSMENT

4.1. Environmental risk assessment

Potential environmental risks associated with project works were identified during through pre-construction environmental assessments. Risks have been identified through the BMD risk management standard and are outlined in the project's Risk Register. Refer to the Project Risk Register for the environmental risks identified as they relate to stormwater and drainage.

Significant environmental risks relating to stormwater and drainage for the project include, but are not limited to:

Aspect	Potential Impact	Management Document
Water Quality	Erosion and sedimentation from earthworks and disturbed areas reducing the water quality in local waterholes or creeks such as Reedy Creek.	Earthworks and Siting Management Plan Stormwater and Drainage Management Plan Environmental Control Plans
Community	Reduction of water quality as a result of sedimentation from stormwater impacts	Stormwater and Drainage Management Plan Construction Environmental Management Plan Construction Stakeholder and Community Engagement Plan Complaints Management Plan
Hazardous Chemicals Storage/Use	Pollution of waterways or soil from spills	Stormwater and Drainage Management Plan Wastewater Management Plan Chemical Substances Sub-Plan Environmental Control Plan Earthworks and Siting Management Plan
Concrete Batching Plant	Contaminated runoff into local drains or waterways	EPA Licence Earthworks and Siting Management Plan Environmental Control Plan
Contamination	Adverse environmental impact from emergency situation (e.g. major spill)	Emergency Response Plan Soil and Land Sub-Plan
Sedimentation	Potential for sediment-laden site runoff from spoil stockpiles	Environmental Control Plan Earthworks and Siting Management Plan Waste Management Plan Water Quality Sub-Plan
Site stabilisation	Revegetation and stabilisation controls are delayed / fail resulting in increased run off	Earthworks and Siting Management Plan Environmental Control Plan

4.2. Ongoing risk assessment

Environmental risk assessment will be ongoing throughout project delivery. Emphasis will be placed on any changes to construction methodology, changes in materials used, and works within or adjacent to sensitive environments. All project staff are responsible for identifying risks and managing assessments in consultation with the project team. Forums for facilitation of risk identification include:

- Project meetings
- Toolbox meetings

- Informal site discussions.

4.3. Impact identification

Potential impacts identified through risk identification processes are addressed within this Stormwater and Drainage Management Sub-Plan (SDMP). If additional potential impacts are identified, this SDMP and/or supporting documents such as the environmental control plans will be updated as required.

5. MANAGEMENT APPROACH

5.1. Catchment and Rivers

The Project area encompasses parts of the Marne Saunders catchment, with a number of creek lines running through the area. These are considered tributaries of the Murray River and are included within the River Murray Protection Area. The Marne Saunders catchment is the south-west tip of the Murray-Darling Basin area, comprising 0.07% of the total basin. The site area is within the 1956 Murray River flood extent, which is considered a benchmark with a 160-year recurrence interval. Water in this catchment is used for a range of purposes, primarily domestic, stock, irrigation, industrial and recreational uses. Several water-dependent ecosystems are also supported by the flow from the Marne Saunders catchment. Surface and groundwater resources within the Varied Project Area fall within the Marne Saunders and Eastern Mount Lofty Ranges Prescribed Water Resource Areas.

A number of creeks run through the project area, including Harrison Creek, Baker Creek, Talbot Creek and Reedy Creek (refer to Figure 2). The creek lines contain permanent to semi-permanent waterholes and may run for a longer period of time in wet years but are generally not permanently flowing. Semi-permanent waterholes are important refuge watering points for birds and other native fauna during warmer months.

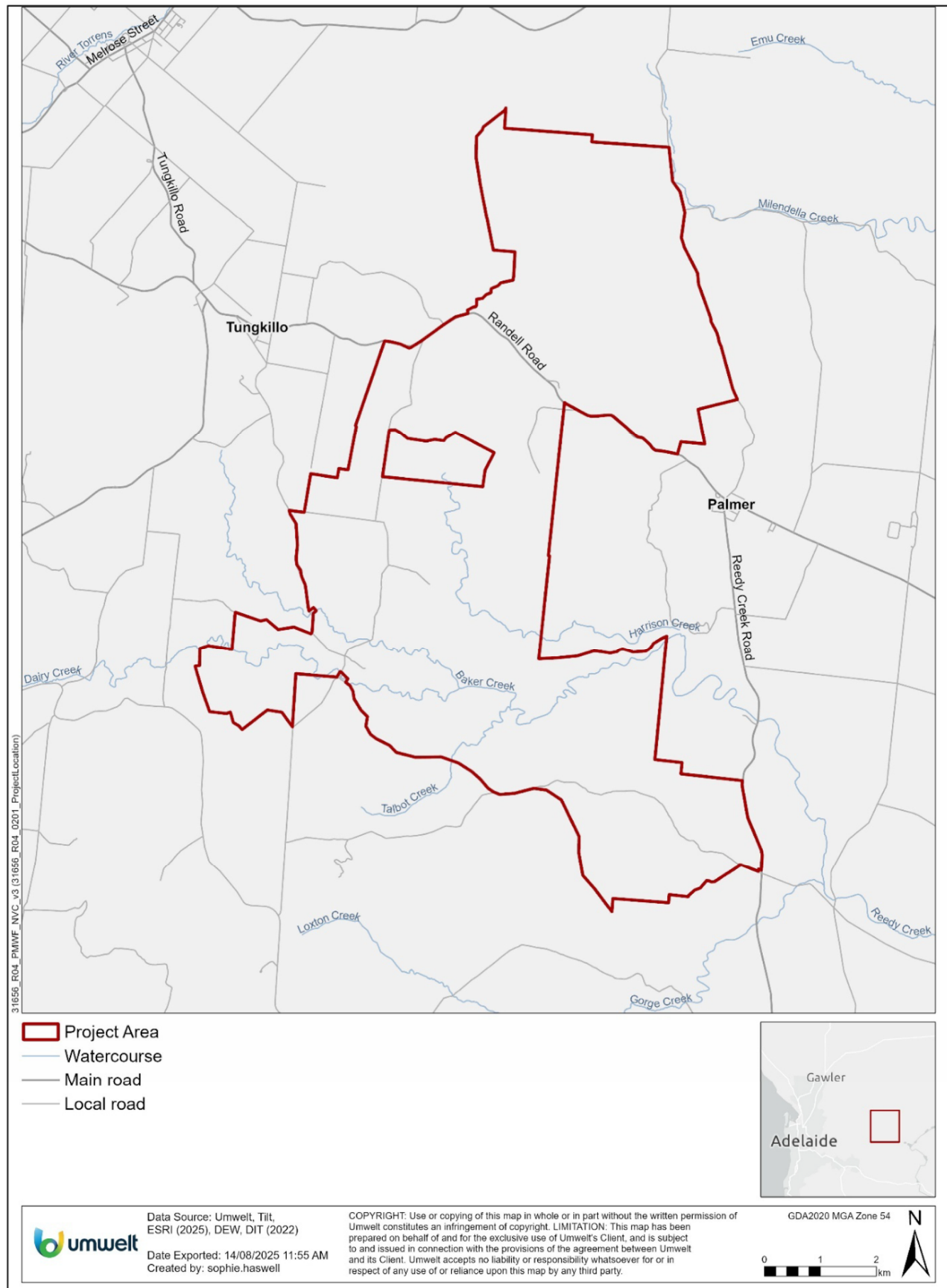
Reedy Creek swamp is a wetland of high ecological value directly connected to the River Murray, approximately 7km east of the project area. The wetland mixes upstream ephemeral flows from Reedy Creek with River Murray flows.

To mitigate sedimentation and erosion around the creek lines, a Water Affecting Activity Permit (WAAP) is likely to be required for the construction of access tracks / roads under the *Landscape South Australia Act 2019*. Water affecting activities are activities that impact watercourses, dams, lakes, floodplains, springs, wetlands, and waterholes. All activities in these areas have the potential to have significant negative impacts on water users and the environment, especially if poorly designed, located, constructed or maintained. Activities that require a Water Affecting Activity Permit include:

- Water diversion and storage – erection, construction, modification, enlargement, or removal of a dam, wall or other structure.
- Building a structure in a watercourse, lake or floodplain.
- Drainage or discharge of water into a watercourse or lake.
- Depositing objects or solid material into a watercourse, lake or floodplain.
- Obstructing a watercourse.
- Excavation or removal of rock, sand or soil from a watercourse, lake or floodplain.
- Destroying vegetation growing in a watercourse or lake, or the floodplain of a watercourse.

Water Affecting Activity Permits will be obtained for all relevant activities as identified during detailed design.

Figure 3: Watercourses on Site



5.2. Construction Staging

During construction, land disturbance will be minimised through staged clearing and progressive rehabilitation of the infrastructure activities. This approach minimises the construction risks associated with the large-scale clearing of vegetated areas and in turn reduces the potential impacts from stormwater travelling across site.

Rehabilitation of disturbed areas not required for the ongoing operation of the Project will occur as soon as possible following disturbance activities or as an area is no longer required. Rehabilitated areas will be monitored biannually by the Contractor and/or Proponent until relevant success criteria have been met, which are listed in the following table:

Aspect	Rehabilitation Criteria
Landform	No significant signs of erosion are present that would constitute a safety hazard or compromise the end land use. Surface layer to be free of any hazardous materials. All infrastructure and equipment, other than access roads that may be used in the future, are removed unless otherwise agreed. Final landform is compatible with the surrounding topography.
Soil	Topsoil/organic material or a suitable alternative has been spread uniformly over the revegetation area
Vegetation	Declared Weeds do not spread into new, disturbed or rehabilitated areas. For revegetated areas, a target C-Factor of 0.051 is achieved (approximately 70% of the ground is covered with vegetation and/or leaf litter etc). For rocky and steep slope landscape the areas are stable (i.e., does not show any obvious signs of large-scale erosion).
Land Use	The rehabilitated areas are suitable for the land use as existed prior to development (e.g., low intensity grazing and woodland / forest).
Revegetation	Cleared areas will be revegetated at an optimal time within 12 months following completion of the use of the area. Any vehicles or machinery must not impact on the health or growth of native vegetation, unless to assist in promoting the growth or regeneration of native vegetation. An effective and ongoing weed control program must be implemented to ensure the successful regeneration of native vegetation in the area.

The rehabilitation of the site will be completed in multiple stages, including post-construction, operation and decommissioning of the Project. For the purposes of this document, commissioning, operation and decommissioning activities are not covered as they will be managed by the Proponent.

5.3. Discharging

If stormwater is pooling in work areas because of inclement weather, it may be necessary to discharge to another location on site or offsite. Due to the size of the site, stormwater may be moved from one area to another within the site boundary where works are not taking place. This should be considered preferential to

discharging water offsite, that is removed from the site boundary entirely. Stormwater which is to leave part of the site shall comply with the following criteria:

- pH – 6.5 to 8.5
- Turbidity – <50 NTU
- Debris/rubbish - none visible
- Hydrocarbons - none visible
- EC (salinity) - no greater than 10% variance between up stream and downstream

These requirements are captured in a water discharge permit (refer to Attachment 2), which outlines the requirements for the discharge of water from the site. The discharge permit is an internal requirement of BMD's EMS, which ensures that water is discharged in a responsible manner. A discharge permit can only be issued by the site environmental representative or a suitably qualified delegate.

A suitable discharge location must be selected prior to the commencement of any stormwater discharge on site with preference to water re-use on site or discharge away from waterways (e.g. paddocks). The location must be a suitable receiver to not create further risks to the environment or impact the safety or any adjacent public roads. The environmental representative or field supervision must be present to monitor any stormwater discharge to ensure that the requirements of the permit are consistently met throughout the process.

5.4. Environmental Control Plan (ECP)

The Project traverses environmentally and socially sensitive areas/sites. To assist pre-construction planning and on-site construction management, these site constraints are consolidated on series of map-based sheets that extend the length of the Project. Environmental control plans (ECPs) include information pertaining to:

- noise sensitive receivers, e.g. residential dwellings, educational institutions;
- flora features, including threatened species and endangered ecological communities;
- Aboriginal and non-Aboriginal heritage sites, including items, places, objects and sites;
- waterways; and
- Erosion and Sediment controls.

The ECP also detail the approximate location of stormwater controls within the site. This can include sediment/retention ponds, drain protection, silt fences or sediment traps. These will be developed and implemented prior to commencing activities at all works areas where there is a risk of erosion and sediment loss. ECP's will be developed by the Environment Site Representative in consultation with the superintendent, site engineers, foreman and other site personnel, as required. They will be modified over time to reflect the changing site conditions.

The initial ECP's will be developed in consultation with Tilt Renewables. A sample Environmental Control Plan is in Appendix 3.

6. ROLES AND RESPONSIBILITIES

Refer to CEMP Section 6.1 for Project Organisation Chart.

6.1. Project Manager

- Familiarising themselves with their responsibilities within this SDMP and BMD's environmental management system.
- Ensuring the project is compliant with the requirements detailed in this SDMP and relevant legislation.

- Ensuring stormwater and drainage requirements are fully implemented and not secondary to construction activities.
- Providing adequate resources (personnel, financial and equipment) to support effective waste management.
- Reviewing and authorising stormwater and drainage procedures, controls and revisions to this SDMP.
- Monitoring compliance with site stormwater management requirements, schedules and targets.
- Ensuring stormwater-related risks are identified, assessed and managed in accordance with the Project risk management framework.
- Ensuring subcontractors submit appropriate Work Method Statements (WMS) and environmental documentation addressing stormwater and drainage management prior to commencement.
- Ensuring subcontractor compliance with the requirements of this WMP and other relevant documentation.
- Reviewing stormwater-related incidents, hazards and near misses and ensuring corrective actions are implemented within agreed timeframes.
- Upholding an active interest in workplace environmental issues.

6.2. Field Supervision

- Implementing all stormwater and drainage requirements and control measures in accordance with this SDMP.
- Daily inspections of sediment control protection measures and co-ordination of maintenance as required.
- Ensuring all site personnel and subcontractors are aware of the environmental protection measures outlined in the environmental management plans.
- Ensuring that all required sediment and drainage controls are in place prior to commencement of site activities.
- Working with the wider Project team to identify staging and delivery methodologies to reduce exposed areas and prioritise stabilisation
- Ensuring subcontractors comply with BMD stormwater and drainage requirements and taking immediate action where non-compliance is identified.
- Reporting stormwater-related incidents, spills, contamination or non-conformance to the Environmental Representative or Project Manager.
- Participating in toolbox talks and pre-start meetings to communicate stormwater management requirements.
- Upholding an active interest in workplace drainage and environmental management.

6.3. Project Engineer

- Familiarising themselves with their responsibilities under this SDMP and BMD's Environmental Management System.
- Ensuring stormwater and drainage requirements are considered in construction planning and sequencing of works to minimise impacts
- Developing, reviewing and approving WMS and activities that address stormwater management and drainage risks.
- Reviewing subcontractor WMS to ensure that stormwater and drainage risks are adequately addressed.
- Undertaking risk assessments where changes to activities may affect site drainage or stormwater management.
- Liaising with the Environmental Representative on drainage-related matters, including stormwater retention and site runoff.
- Conducting inspections to identify stormwater-related environmental risks or non-conformances.
- Raising any stormwater or drainage issues or concerns with the Environmental Representative or Project Manager.

6.4. Environmental Representative (or delegate)

- Establishing, maintaining and reviewing this SDMP and associated stormwater management documentation
- Implementing stormwater and drainage monitoring, inspection and reporting requirements.
- Providing stormwater and drainage awareness to all staff, subcontractors, and visitors to the site.
- Coordinating and gaining all approvals, permits and licences relevant to stormwater and drainage.
- Liaising with the South Australian EPA, regulators and environmental consultants on stormwater-related matters.
- Maintaining records of stormwater-related incidents, complaints and corrective actions.
- Monitoring compliance with stormwater legislation, policies and standards and updating this SDMP as required.
- Assisting subcontractors with understanding and applying BMD stormwater and drainage management requirements.
- Participating in audits, inspections and reviews relating to stormwater and drainage management, for example pre and post rainfall inspections
- Advising the Project Manager of any stormwater or drainage issues that may pose a risk to the environment, personnel or compliance obligations.

6.5. All site personnel

- Familiarising themselves with the requirements of this SDMP and site stormwater management procedures.
- Attending site inductions, pre-start meetings and toolbox talks addressing stormwater management.
- Complying with site stormwater and drainage management requirements.
- Using stormwater controls identified in WMS, procedures and work instructions.
- Preventing stormwater leaving site, litter obstructing drains and maintaining tidy work areas.
- Stopping work and notifying supervision if site activities pose a risk to the environment.
- Reporting stormwater-related hazards, incidents and near misses immediately.
- Actively participating in stormwater and drainage management reviews and continuous improvement initiatives.
- Upholding an active interest in workplace stormwater and environmental management.

7. MITIGATION AND MANAGEMENT MEASURES

Specific measures and requirements to meet the objectives of this sub-plan and to manage stormwater and drainage impacts are outlined in the table below. These measures have been developed in line with the requirements in the Project Approvals (refer to Attachment 1 Compliance Matrix). Where a measure has been duplicated across multiple sub plans, the measure number and plan reference identification are in brackets.

Water to be discharged on and offsite will be tested prior to and during the dewatering process. Discharging is only to be completed with a valid permit approved by the environmental representative or a suitably trained delegate (refer to Attachment 2 Discharge Permit).

All works are to be accompanied by an Environmental Control Plan (ECP). The ECP is to be created by the environmental representative and implemented by field supervision.

A sample ECP is in Attachment 3.

ID	Measure / Requirement	Responsibility	Timing	Evidence
SD1	During works or construction activities associated with the development, the subject land must be managed in a manner as to prevent erosion and pollution of the site and the environment, including keeping the area in a tidy state and ensuring any waste materials are appropriately contained to ensure no pollutants (including excavation or fill material) enter the River Murray system.	Field Supervision / Environmental Representative	Construction	Environmental Control Plans Weekly inspections
SD2	Stormwater run-off will be collected on-site and discharged without impacting the safety and integrity of any adjacent public roads. To facilitate this, alterations to road drainage infrastructure will be undertaken as required in accordance with a Section 221 permit.	Field Supervision / Environmental Representative	Pre-construction and construction	Discharge Permit Weekly inspections
SD3	Any erosion and sedimentation (ESC) structures will be installed in accordance with any manufacturer's requirements and maintained for the construction phase of the Project until the completion of reinstatement activities has created a safe and stable landform.	Field Supervision / Environmental Representative	Pre-construction and construction	Environmental Control Plans Weekly inspections
SD4	Implemented ESC measures will be inspected daily by the Contractor during rain events and weekly during dry periods.	Field Supervision / Environmental Representative	Pre-construction and construction	Pre and Post Wet Weather Inspections Weekly inspections
SD5	Scheduling of development activities will consider significant rainfall events and will only be undertaken where planning and design of the activities demonstrate no potential for impacts or sedimentation to waterways.	Project Engineer / Environmental Representative	As required	Weekly inspections Pre-start records
SD6	Where a high rainfall event (20 mm or greater) is anticipated to occur, appropriate a pre-rainfall review of ESC measures is to be undertaken and any inadequate controls to be rectified at least 24 hours prior, to reduce the risk of damage to watercourse beds and banks. A post-rainfall inspection will be conducted to assess the effectiveness of site controls within 24 hours of safe access to the Project Area.	Field Supervision / Environmental Representative	As required	Weekly inspections Pre-start records Pre and Post Wet Weather Inspections
SD7	If excavation and soil storage are to occur over longer than a one-month period, permanent ESC measures will be implemented based on guidance in the International Erosion Control Association (IECA), this may include sediment basins for long-term operation of facilities.	Field Supervision / Environmental Representative	Construction	Weekly inspections Stockpile management records Photos

ID	Measure / Requirement	Responsibility	Timing	Evidence
SD8 (WM10) (ES10)	Where relevant, the stockpiling of soil and materials will follow requirements of the SA EPA Guideline for Stockpile Management (dated October 2020), including: - Any materials with a potential to produce leachate and contaminated runoff will be stored in a sealed and bunded area - Limiting stockpile height, with stockpiles being no greater than 3 metres in height - Materials must be stored away from drains and watercourses to prevent environmental harm to water - Locating designated fill stockpiles away from vegetation and drainage lines, with a minimum of 10 metres separation from stormwater drains - No stockpiling within the drip lines of trees to minimise compaction of root zones - Maintaining separate stockpiles for different materials	Field Supervision / Environmental Representative	Construction	Weekly inspections Stockpile management records Environmental Control Plans Photos
SD9 (ES11)	Topsoil is not permitted to be transported across property boundaries.	Field Supervision / Environmental Representative	Construction	Weekly inspections Material tracking Stockpile management records
SD10 (ES12)	Disturbed areas will be stabilised and reinstated progressively by the Contractor as part of the construction works to meet specific revegetation success criteria.	Field Supervision / Environmental Representative	Construction / post-construction	Weekly inspections
SD11	An environmental authorisation / licence will be obtained from the SA EPA by the Contractor in relation to Part 6 of the Environment Protection Act 1993 with respect to concrete batching works if required.	Project Manager / Environmental Representative	Pre-construction	Licence record
SD12	All concrete batching works will be undertaken in accordance with any environmental authorisation and design and management of concrete batching activities will be undertaken in accordance with the water quality considerations outlined in the SA EPA <i>Air and Water Quality Guideline – Concrete Batching (EPA 427/16; March 2016)</i> , or most recent version.	Project Manager / Environmental Representative	Construction	Work Method Statement Toolbox talks Workshops

ID	Measure / Requirement	Responsibility	Timing	Evidence
SD13 (ES13)	A site-specific environmental control plan will be developed for concrete batching works, including a detailed site layout for the concrete batching, and specific management measures, considering: • Siting of temporary concrete batching plant outside of potential flood areas • Maintaining the quality of local water resources by incorporating a wastewater management system that will be regularly inspected and maintained • The wastewater collection system will be designed to collect contaminated water from the concrete batching systems and surrounding areas • Wastewater generated on the premises will not be discharged into any local waterways or onto land from a place which is reasonably likely to enter any waters • Concrete agitator bowls and chutes will not be washed out into the stormwater system or onto roadways.	Environmental Representative	Construction	Environmental Control Plans Weekly inspections
SD14	Refuelling of any site vehicles, plant or machinery utilised during construction is to be a minimum of 50 metres from any watercourse or drainage line	Field Supervision / Environmental Representative	Pre-construction and construction	Weekly inspections Toolbox talks Pre-start records
SD15	Any works over a creek crossing will not commence without the appropriate permit, a dedicated erosion and sediment control plan and the establishment of a monitoring regime to demonstrate effective controls.	Project Manager / Environmental Representative	As required	Work Method Statement Environmental Control Plans Permit register
SD16 (WM12)	Any excavation or fill material surplus to the requirements of the development must be disposed of such that it will not: • be located within the floodplain of any watercourses; • impede the natural flow of any surface waters; • allow sediment to enter any water body; • adversely impact native vegetation; • facilitate the spread of pest plant and pathogenic material.	Field Supervision / Environmental Representative	Construction	Weekly inspections Environmental Control Plans Toolbox talks

8. COMPLIANCE MANAGEMENT

8.1. Training and Awareness

Personnel will receive training appropriate to their role in stormwater and drainage management on the project. Ongoing toolbox talks covering the requirements for the management of stormwater will be used to raise awareness to the wider project team. Timing and content of such meetings will be aligned with project works, programme and the significant risks at that time.

The site induction will also be utilised to train all staff in the general requirements of stormwater and drainage management. Specific environmental training courses may also be facilitated as required for relevant personnel.

Further details regarding staff induction and training are outlined in Section 10 of the CEMP.

8.2. Monitoring, Inspections and Auditing

8.2.1. Monitoring and inspection

Regular site inspections and visual monitoring of construction activities and areas susceptible to stormwater intrusion will be undertaken to ensure the environmental controls detailed within this SDMP are being implemented. Weather will be monitored weekly, and any forecast high rainfall events (>20mm) will be documented and accompanied by a Pre-Wet Weather Inspection of the active ESC measures and a Post-Wet Weather Inspection. The forecast will also be communicated to the wider project team so that site works may be planned accordingly. Environmental monitoring requirements will be carried out as per project requirements and specifications.

Project environmental monitoring requirements shall be summarised on the BMD Compliance Obligations Register.

8.2.2. Auditing

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental controls, compliance with this sub-plan, Planning consent and other relevant licenses, and guidelines. These audits will be undertaken at planned intervals to provide information on whether the Project:

- Is meeting its compliance obligations
- Conforms to this sub-plan
- Determines if this sub-plan is effectively implemented and maintained.

The approach to audits is outlined further in Section 8.3 of the CEMP.

8.2.3. Reporting

The Project will communicate relevant water quality performance information both internally and externally, as identified in its communication processes and as required by its compliance obligations. Project water quality information will be captured and provided to the principal on a monthly basis including, but not limited to:

- Summary of environmental monitoring relating to water quality
- Summary of environmental incidents relating to water quality
- Detail of works relating to Water Affecting Activities Permit

This information will be made available to Mid Murray Council within a reasonable timeframe following any written request.

8.3. Environmental Incidents

The procedure for the management of environmental incidents will be undertaken in accordance with Section 7 of the CEMP. All environmental incidents are to be investigated, reported, documented, actioned and closed out as per the details provided in the CEMP. Examples of incidents and non-compliances as they relate to stormwater and drainage management may typically include:

- Unauthorised stormwater discharge from site
- Non-compliance with any permits and approvals
- Erosion and sediment control (ESC) measures absent or ineffective

Following an incident, corrective and preventative actions will be identified, assigned to the appropriate person/s and closed out in accordance with the appropriate time frames set in response to the circumstances.

8.4. Non-Conformance Reports (NCRs)

Non-conformance with any environmental project requirement will be managed and reported on in accordance with the BMD Incident and Accident Management Standard. In the event of any non-conformance with any regulatory or other compliance obligation, as set out the SDMP, corrective action/s shall be raised. All corrective actions shall be entered into the Corrective or improvement Actions Database.

8.5. Environmental Complaints

All complaints made by the community and stakeholders will be managed in accordance with the Complaints Management Plan.

9. REVIEW AND IMPROVEMENT

This Plan, its operation and implementation, will be periodically reviewed during project delivery to ensure it remains current, effective and responsive. A formal review of the SDMP will be implemented at least once every 6 months. Other triggers for review may include:

- Corrective or Preventative Actions are raised through the incident reporting process requiring amendments to the SDMP;
- Changes to relative legislative, regulatory or compliance obligations;
- Significant changes to any constituent of project construction;
- Request from Mid Murray Council or any regulatory authority;
- Significant changes to the site conditions or surrounding land use;
- Updates to recognised stormwater and drainage management best practise; or
- Identification of new or increased environmental risks.

Where this review leads to a revision of the SDMP, the revised SDMP will be submitted to the SPC and/or Mid Murray Council for approval if required.

9.1 Minor Amendments to the SDMP

The Environmental Representative/Project Manager may consider minor amendments to be made to the SDMP which will be approved by the Principal.

'Minor amendments' are defined as those that involve updating a document of an administrative nature and do not increase impacts to the environment or nearby dwellings, and may typically include those that:

- Are editorial in nature e.g. staff and agency/authority name changes;
- Do not increase the magnitude of impacts on the environment when considered individually or cumulatively;

- Do not compromise the ability of the project to meet approval conditions or legislative requirements;
- Are required as a result of monitoring, inspection and audit results;
- Result from consideration of recent and relevant incidents and any lessons learnt;
- Are required because of any new regulatory requirements;
- Are identified as needed based on a review of the effectiveness of environmental controls;
- Are required because of changes in operational needs such as resourcing; and/or
- Are required because of feedback from regulators and other relevant stakeholders.

The Environmental Representative (or Project Manager nominee) will be responsible for review and amendment of the SDMP. The updated SDMP will be provided to all relevant site personnel and stakeholders and provided to relevant authorities, such as the Mid Murray council, as appropriate.

ATTACHMENT 1 – COMPLIANCE MATRIX

Project Approval Requirements

Condition Number	Condition	Document Reference	How Addressed
Reserved Matters			
RM4	A final Stormwater and Drainage Plan detailing stormwater quantity and quality measures will be prepared in consultation with the Mid Murray Council and submitted to the satisfaction of the State Planning Commission.	This Plan	Stormwater and drainage management and controls are addressed within this Plan. Summary of consultation with Mid Murray Council is included in Section 1.5.
Conditions			
C1	The development authorisation granted herein shall be undertaken in accordance with the stamped approved plans, drawings, specifications and other documents submitted to the State Planning Commission, except where varied by conditions below (if any).	This Plan	This SDMP has been prepared to align with the approved project documentation, including the Statement of Commitments and Project Approval conditions. Compliance is addressed through implementation of this plan.
C33	Stormwater run-off will be collected on-site and discharged without impacting the safety and integrity of the adjacent roads. Any alterations to the road drainage infrastructure required to facilitate this will be at the applicant's expense.	Section 6 Section 7 ECPs	Approach to management of stormwater is detailed in Sections 5 and 7. Details will also be in the Traffic Management Plan (TMP)
C34	During works or construction activities associated with the development, the subject land must be managed in a manner as to prevent erosion and pollution of the site and the environment, including keeping the area in a tidy state and ensuring any waste materials are appropriately contained to ensure no pollutants (including excavation or fill material) enter the River Murray system.	Section 3 Section 6 Section 7 ECPs	Stormwater runoff shall be managed in accordance with relevant legislative framework detailed in Section 3. Approach to management of stormwater is detailed in Sections 5 and 7.
C35	Any excavation or fill material surplus to the requirements of the development must be disposed of such that it will not: be located within the River Murray 1956 flood extent;	Section 5 Section 7 ECPs	Approach to fill material not impacting the surrounding environmental is detailed in

Condition Number	Condition	Document Reference	How Addressed
	- impede the natural flow of any surface waters; - allow sediment to enter any water body; - adversely impact native vegetation; facilitate the spread of pest plant and pathogenic material.		Section 5 and the mitigation measures in Section 7.
C36	Any excavation or fill material surplus to the requirements of the development must be disposed of such that it will not: - be located within the River Murray 1956 flood extent; - impede the natural flow of any surface waters; - allow sediment to enter any water body; - adversely impact native vegetation; - facilitate the spread of pest plant and pathogenic material.	Section 3 Section 6 Section 7 ECPs	Drainage shall be managed in accordance with relevant legislative framework detailed in Section 3. Approach to management of Drainage areas and Stormwater runoff is detailed in Sections 5 and 7.

Statement of Commitments

Number	Commitment	Document Reference	How Addressed
4.9.1	During construction activities the subject land must be managed in a manner as to prevent erosion and pollution of the subject site and the environment, including keeping the area in a tidy state and ensuring any waste materials are appropriately contained to ensure no pollutants (including excavation or fill material) enter the River Murray system.	Section 3 Section 6 Section 7	Stormwater shall be managed in accordance with relevant legislative framework detailed in Section 3. Approach to management of site drainage is detailed in Sections 5 and 7.
4.9.2	Any fill material brought to development sites must be clean and not contaminated by construction or demolition debris, industrial or chemical matter, or pest plant or pathogenic material.	Section 5 Section 7 ECPs	Approach to ensuring contaminated fill does not enter site is detailed in Section 5 and the mitigation measures in Section 7.
4.9.3	Any excavation or fill material surplus to the requirements of the development must be disposed of such that it will not: a) be located within the floodplain of any watercourses: b) adversely impact native vegetation;	Section 3 Section 6 Section 7	Stormwater shall be managed in accordance with relevant legislative framework detailed in Section 3. Approach to management of site drainage is detailed in Sections 5 and 7.

Number	Commitment	Document Reference	How Addressed
	c) impede the natural flow of any surface waters;		
	d) allow sediment to re-enter any water body;		
	e) facilitate the spread of pest plant and pathogenic material.		

ATTACHMENT 2 – DISCHARGE PERMIT

Water Discharge Permit



Location: *

V108226 - Salaries & Wages

Approx. Volume: *

Permit Start Date: *

Permit Valid To: *

Location of Water Onsite (e.g. drain, excavation, sediment basin):

Proposed Release Location:

Water Quality Testing Equipment Calibrated: *

Yes / No

Parameters	Release Criteria	Recorded Values	Acceptable	Actions Required to Meet Release Criteria
pH	6.5 to 8.5		Yes / No	
Turbidity	< 50 NTU		Yes / No	
Debris / Rubbish	None visible		Yes / No	
Hydrocarbons	No visible films		Yes / No	
Other pollutants			Yes / No	

Retest Time: *	Retest Time: *	Retest Time: *
Retest Values	Retest Values	Retest Values

Tester Name: *

Signature: *

Name: *

Signature: *

☐ Bucket / Rock / Hoist at pump intake

☐ Stabilized Outlet (rock / geotab)

☐ Leave / Remove sludge at bottom

ENSURE PUMP IS MONITORED DURING DISCHARGE TO PREVENT THE RELEASE OF NON-COMPLIANT WATER OR SEDIMENT FROM THE BOTTOM OF THE BASIN.

ATTACHMENT 3 – EXAMPLE ENVIRONMENTAL CONTROL PLAN

SITE ENVIRONMENTAL CONTROL PLAN - **SAMPLE**

STAGE **XX** - **XXXXXXX**

SCOPE OF WORKS

- Vegetation clearing
- Installation of No-Go Zone fencing and signage
- Site establishment works

Refer to Construction Environmental Management Plan for further environmental management information.

ENVIRONMENTAL AWARENESS

Site personnel associated with scope of works to have completed project induction and be toolboxed on requirements outlined in this Site Environmental Control Plan before commencing works.

KEY RISKS	
Pollution of waterways	Loss of amenity due to noise
Non-approved removal of trees that are planned to be retained	Unknown finds of cultural heritage during works
Injury or death to fauna during works	Non-compliance with regulatory approvals/permits/licenses
Tracking of sediment and silt onto neighbouring roadways	Spill of fuels and/or chemicals
Litter dispersal into neighbouring areas	Excavation of contaminated soils

APPROVALS	
Approval	Detail
Development Approval	Comply with all conditions of approval including Reserved Matters
Statement of Commitments	Implement commitments during construction
MACAI Heritage Agreement	Implement controls as per agreement
PAC Heritage Agreement	Implement controls as per agreement.
Water Affecting Activities permit	Permit to construct and work over a water way
Wildlife handling permit (to be held by ecologist)	In the event that works will require the removal or destruction of wildlife.
Noxious weed permit	A permit is required to remove soil, sand, gravel or stone that contains or is likely to contain any part of a noxious weed
Native Vegetation Clearance Approval	Comply with approval conditions

Role	SITE RESPONSIBILITY
Project Manager	Ensuring the project is compliant with the requirements of the relevant Environmental Acts and Regulations and Planning Consent
Field Supervision	Fielding implementation of environmental requirements and control measures. Ensuring works are delivered in accordance with project environmental objectives.
Project Engineer	Planning and risk assessment of works delivery activities in accordance with project environmental objectives.
Environmental Representative	Establishing and maintaining the environmental management plans and documentation.
All Site Personnel	Familiarising themselves with their responsibilities within this plan and BMD's environmental management systems.

	Complying with General Environmental Duty obligations.
Responsibilities	STORMWATER AND DRAINAGE
Environmental Representative	Water quality monitoring program to be implemented during project delivery, as per project specifications
Field Supervision	Potentially harmful substances not to be stored or handled within 50m of an existing water body or drainage channel.
Field Supervision	All hazardous substances will be stored in bunded areas as per the applicable Australian Standard
Field Supervision	Controls to be installed as indicated on this SECP
Environmental Representative	Water to be discharged shall be tested and results recorded on the BMD Water Discharge Permit Form. This form shall be signed off by the site supervisor prior to discharge.
Environmental Representative	Water quality monitoring points will be located in relevant upstream and downstream areas of the worksite.
Field Supervision	Concrete washout shall be undertaken in dedicated washout pits or washout bags. Pits will be lined with plastic or another impermeable material.
Responsibilities	AIR QUALITY AND DUST
Field Supervision	Haul roads will be kept damp or binders/polymers will be employed and street sweepers will be utilised to control dust.
Field Supervision and Environmental Representative	Dust/emission levels will be assessed visually, and mitigation will be assessed as being necessary whenever dust generation has been visually identified.
Field Supervision	In any area where dust generation is on-going, water application will be continued throughout each workday.
All Site Personnel	All vehicles hauling materials will be adequately covered.
Field Supervision	Wherever possible, work activities likely to generate excessive dust will be programmed during mornings when wind speeds are generally lower.
Responsibilities	WASTE
Field Supervision	All waste concrete will be disposed of appropriately in either concrete washout bags, concrete washout pits or similar.
All Site Personnel	Housekeeping in site work areas will be regularly undertaken to ensure no waste materials cause littering.
All Site Personnel	Works undertaken in or near waterways will be cleaned up daily to prevent materials entering waterway in the event of rainfall.
Field Supervision	Waste and recycling materials shall be transported to appropriately licenced facilities for disposal or reuse.
Environmental Representative	Regulated waste materials shall be tracked utilising waste tracking system with a record kept by the project as per regulatory requirements.
Project Engineer	Unsuitable or contaminated soil material shall be managed as per the project's Site Contamination, Haz Chem and Spill Sub-Plan.
Responsibilities	SITE CONTAMINATION, HAZ CHEM & SPILLS
Field Supervision	Refuelling of any vehicles or plant within the worksite will be performed as per Hazardous Chemicals COP.
Field Supervision	Any refuelling of small equipment to be carried out within the worksite must not occur without a fully stocked spill kit available.

Field Supervision	Fuel or chemical storage facilities required on site will be self-bunded as per requirements of AS1940 - 2004
Environmental Representative	Spill Kits will be regularly audited to ensure all are adequately stocked.
Field Supervision	Potentially harmful substances not to be stored or handled within 50m of existing water bodies or drainage channels
Responsibilities	FLORA AND FAUNA
Field Supervision and Environmental Representative	Establish the area or trees approved for clearance with markings prior to clearing commencing and remain visible for the period in which clearance is occurring. Clearance of Tree 29 to be confined to maximum of 30% of tree canopy. Minimise impact where possible to significant and mature vegetation and avoid impacts to Peppermint Box grassy woodlands. Pre-clearance by ecologist required prior to removing potentially habitat containing trees.
Project Engineer and Environmental Representative	BMD Ground Disturbance Permit must be completed and approved prior to any soil disturbance works.
Field Supervision	Vegetation to be protected shall be setup as 'No Go Zones'
All Site Personnel	Project staff and contractors must not enter into a no-go zone or perform works within proximity to the no-go zone that have the potential to have an impact of the protected flora or fauna
All Site Personnel	Notify supervisor or enviro rep immediately if a threat to an animal is evident on-site.
All Site Personnel	Notify Foreman immediately of damage to No-Go Zone fencing or signage
All Site Personnel	Notify Foreman or Enviro Site Representative of any unapproved land disturbance immediately.
Responsibilities	HERITAGE
All Site Personnel	Undertake works as per MACAI Heritage Agreement and PAC Heritage Agreement. All personnel will attend a heritage induction prior to commencing works. Refer to Heritage no go zones on SECP. Cultural Heritage Monitoring will be completed for ground disturbance works as required by the MACAI and PAC Heritage Agreements.
Engineer and Environmental Representative	BMD Ground Disturbance Permit must be completed and approved prior to any soil disturbance works.
All Site Personnel	Contact supervisor and enviro rep immediately if a; suspected item of heritage significance has been discovered. Cease works in the vicinity of any uncovered items identified as potentially significant, until a representative from the Traditional Owner group and/or a qualified consultant has assessed the site.

Responsibilities	BIOSECURITY
All Site Personnel	Clean vehicles when moving between land parcels and complete Weed Hygiene Inspection Checklist.
Responsibilities	NOISE AND VIBRATION
All Site Personnel	Limit works between 7am -7pm Monday to Saturday.
Community and Stakeholder representative/ Project Manager	Notify landowners and sensitive receivers of upcoming works that may cause noise and or vibration impacts.
Responsibilities	BUSHFIRE
All Site Personnel	Firefighting equipment available on LV's.
All Site Personnel	Hot works to be undertaken as per BMD Hot Works Permit.
All Site Personnel	Monitor Fire Danger Ratings and Total Fire Ban declarations.
Responsibilities	EARTHWORKS AND SITING
All Site Personnel	No vehicles, stockpiles or material to be placed on native vegetation outside approved clearance area.
All Site Personnel	Topsoil is not permitted to be transported between properties.
All Site Personnel	Material brought onto site must be certified clean fill.
All Site Personnel	Minimise area of disturbance where possible and progressively rehabilitate.
Responsibilities	WASTE WATER
All Site Personnel	Use designated biosecurity washdown areas as per map. Retain wastewater within bunding or impermeable surface.

ENVIRONMENTAL INCIDENTS AND REPORTING

Any environmental incidents will be immediately reported to the environmental manager or construction manager, who will report the incident to the Principal as per project requirements.

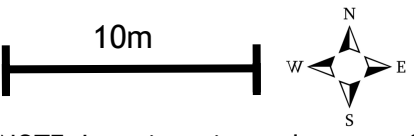
SITE CONTACTS

SUPERINTENDENT - TBC
ENVIRO ADVISOR - TBC
FOREMAN - TBC

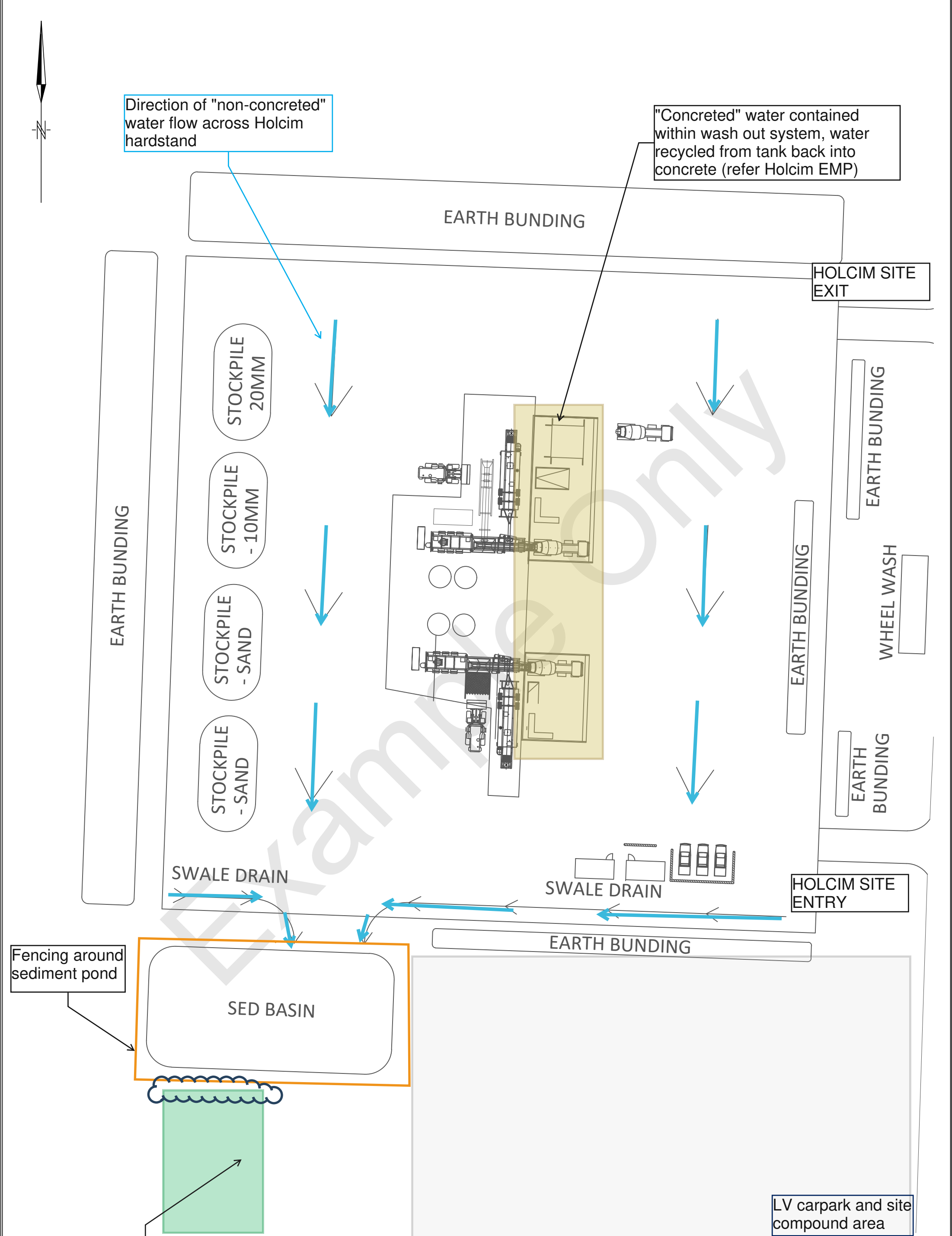


LEGEND

- | | | |
|---|--|--|
|  Project boundary |  Water Course |  Resident |
|  Access Track |  Site Access Point |  Tree to be retained |
|  Indicative Turbine Location |  Sediment Control Fence |  Drain Guard |
|  Randell Road |  Rumble Grid |  Tree Protection Zone |



NOTE: Location, size and extent of site features are indicative only



Rock beaching and grassed area to dewater sed basin as required.

Water would then run through additional controls and join drainage channels surrounding LV Carpark and compound (refer site ESCP)

DESIGNED	ENG CHK	APPROVED	PREPARED BY: Clare McKellar, Environmental Advisor
			REVISION: 3
			DATE: MAY 2023
			Note: Location, size and extent of erosion and sediment controls are indicative only and are to be installed in accordance with site conditions.



ATE - 25/05/2023

REV

THAT'S THE POWER OF

