

## TECHNICAL MEMORANDUM

**DATE** 08 April 2020

**Project No.** 19135652-009-Rev0

**TO** Enviroguard Pty Ltd

**CC**

**FROM** Jacinta McMahon; Todd Robinson

### LOT 4 OFF QUARRY ROAD, ERSKINE PARK - WASTE MANAGEMENT PLAN

Golder Associates has prepared this Waste Management Plan (WMP) on behalf of ENVIROGUARD PTY LTD (Enviroguard) in support of a modification application for a proposed Mechanically Stabilized Earth (MSE) retaining wall around the west, south and south-east of an existing landfill (the Project) located at Lot 4 DP1094504, Quarry Road, Erskine Park (the Site).

Waste management operations at the Site will not change as a result of the Project and will continue to operate consistent with the existing approval and regulations.

This document presents the WMP in accordance with *Penrith Local Environment Plan 2010* and "Penrith DCP 2014 - Part C5 - Waste Management: Waste Management Guidelines for Industrial, Commercial and Mixed Use" (the DCP).

In accordance with the DCP requirements the WMP includes:

- The types and volumes of wastes and recyclables likely to be generated as a result of the development;
- How waste and recyclables will be stored and treated on site;
- How the residual non-reusable or non-recyclable wastes and recyclables are to be disposed of; and
- How ongoing waste management will operate once the development is complete (for the life of the development).
- Details on waste storage and/or collection areas.

### 1.0 PROPOSED SITE ACTIVITIES

The purpose of the Project is to enable additional landfill airspace and extend the life of the landfill at the Site.

Elements of the Project comprise:

- Mechanically Stabilised Earth (MSE) Wall supporting new landfill liner system;
- Revised final landfill profile and increased airspace associated with the MSE wall;
- Surface water drains; and
- Ancillary – construction of temporary and permanent haul roads, temporary weighbridge, temporary wheel wash and relocation of existing wheel wash.

The Project does not change the operational activities at the site, therefore this Waste Management Plan addresses waste management during construction only, as Waste Management at the site will continue to operate consistent with the existing approval and regulations.

## 2.0 ANTICIPATED WASTE STREAMS DURING CONSTRUCTION

Waste Streams likely to be generated as a result of site construction activities includes:

- General waste and recycling from staff i.e. lunch wrappers, paperwork
- Existing landfill material to be excavated
- Geosynthetic offcuts
- Wire offcuts, concrete and Construction and Demolition waste from construction

**Table 1: Waste Volumes**

	Estimated Volume of Waste per week	Proposed Receptacle
General Waste and Recycling from the construction workforce and construction office	2 cum	1 x General Waste Skip Bin 1 x Recycle Bin Skip Bin
Excavated Waste	5000 cum	Excavated waste will be relocated to the active tipping face at the landfill.
Geosynthetic offcuts	5 cum	Managed by supplier for recycling
Wire offcuts, minor concrete etc from construction	2 cum	1 x Skip Bin

## 3.0 WASTE COLLECTION

The Project will be serviced by a private waste contractor.

Waste management at the construction Site during construction will involve a three bin system (general waste, recycling and C&D waste) collected on a weekly schedule.

The location of waste storage will be near the construction site office and plant and material laydown areas as shown in the Figure 1 below. This will allow for ease of access for site users and be separated from the car parking area(s). The locations will also provide for sufficient manoeuvring area on-site to allow collection vehicles to enter and leave the site in a forward direction.

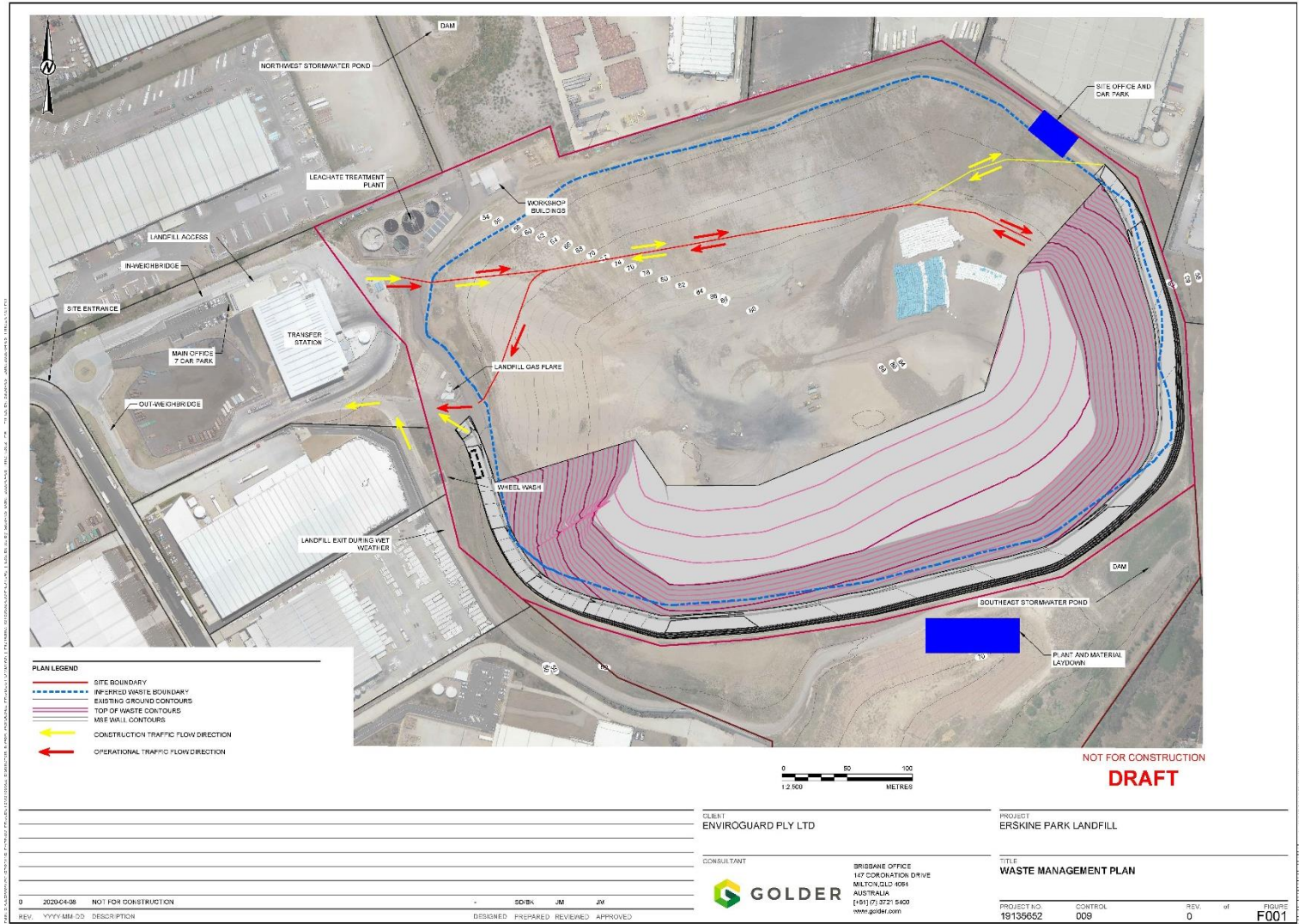


Figure 1: Waste Storage Locations

## 4.0 ENVIRONMENTAL ASPECTS AND IMPACTS

The potential environmental impacts associated with the mismanagement of waste streams include:

- Generation and or spread of contaminated waste/soil through inadequate collection and storage.
- Contamination of air, soil, surface water and or groundwater through the inappropriate storage, transport and disposal of waste.
- Excessive waste being disposed to waste facilities.
- Inappropriate disposal of waste through incorrect classification.

## 5.0 MITIGATION AND MANAGEMENT MEASURES

Mitigation and management measures to address waste management include:

- Prepare and maintain a Waste Management Plan
- Adopt the Waste Management Hierarchy
- Waste Management to be included on the Site Induction
- Signs erected around the Site providing direction for waste management and adopting the waste management hierarchy.
- Planning to efficiently manage delivery and storage of materials, reduce waste and spoilage
- Agreements with suppliers for 'take back' to be arranged where possible.
- All skips made available and emptied regularly so as not to overflow
- All wastes to be managed and properly disposed of in accordance with an appropriately licensed contractor.

### 5.1 RECORDING AND REPORTING

- Procedures shall be implemented and maintained to verify and record licenses and permits for the handling, transportation and disposal of waste.
- Waste disposal volumes should also be recorded. (It should be noted that waste generated from imported materials used for construction activity will be recorded whilst waste generated onsite, such as excavation of already placed waste is not required to be recorded).
- Weekly monitoring and inspection shall be undertaken to ensure all environmental management measures are being followed and a record maintained.
- Site Induction Records should be maintained.

### 5.2 ROLES AND RESPONSIBILITIES

It is the responsibility of the Site Manager to implement the Waste Management Plan and the Mitigation Measures.

**ATTACHMENT 1**

# Important Information

The document ("Report") to which this page is attached and which this page forms a part of, has been issued by Golder Associates Pty Ltd ("Golder") subject to the important limitations and other qualifications set out below.

This Report constitutes or is part of services ("Services") provided by Golder to its client ("Client") under and subject to a contract between Golder and its Client ("Contract"). The contents of this page are not intended to and do not alter Golder's obligations (including any limits on those obligations) to its Client under the Contract.

This Report is provided for use solely by Golder's Client and persons acting on the Client's behalf, such as its professional advisers. Golder is responsible only to its Client for this Report. Golder has no responsibility to any other person who relies or makes decisions based upon this Report or who makes any other use of this Report. Golder accepts no responsibility for any loss or damage suffered by any person other than its Client as a result of any reliance upon any part of this Report, decisions made based upon this Report or any other use of it.

This Report has been prepared in the context of the circumstances and purposes referred to in, or derived from, the Contract and Golder accepts no responsibility for use of the Report, in whole or in part, in any other context or circumstance or for any other purpose.

The scope of Golder's Services and the period of time they relate to are determined by the Contract and are subject to restrictions and limitations set out in the Contract. If a service or other work is not expressly referred to in this Report, do not assume that it has been provided or performed. If a matter is not addressed in this Report, do not assume that any determination has been made by Golder in regards to it.

At any location relevant to the Services conditions may exist which were not detected by Golder, in particular due to the specific scope of the investigation Golder has been engaged to undertake. Conditions can only be verified at the exact location of any tests undertaken. Variations in conditions may occur between tested locations and there may be conditions which have not been revealed by the investigation and which have not therefore been taken into account in this Report.

Golder accepts no responsibility for and makes no representation as to the accuracy or completeness of the information provided to it by or on behalf of the Client or sourced from any third party. Golder has assumed that such information is correct unless otherwise stated and no responsibility is accepted by Golder for incomplete or inaccurate data supplied by its Client or any other person for whom Golder is not responsible. Golder has not taken account of matters that may have existed when the Report was prepared but which were only later disclosed to Golder.

Having regard to the matters referred to in the previous paragraphs on this page in particular, carrying out the Services has allowed Golder to form no more than an opinion as to the actual conditions at any relevant location. That opinion is necessarily constrained by the extent of the information collected by Golder or otherwise made available to Golder. Further, the passage of time may affect the accuracy, applicability or usefulness of the opinions, assessments or other information in this Report. This Report is based upon the information and other circumstances that existed and were known to Golder when the Services were performed and this Report was prepared. Golder has not considered the effect of any possible future developments including physical changes to any relevant location or changes to any laws or regulations relevant to such location.

Where permitted by the Contract, Golder may have retained subconsultants affiliated with Golder to provide some or all of the Services. However, it is Golder which remains solely responsible for the Services and there is no legal recourse against any of Golder's affiliated companies or the employees, officers or directors of any of them.

By date, or revision, the Report supersedes any prior report or other document issued by Golder dealing with any matter that is addressed in the Report.

**Any uncertainty as to the extent to which this Report can be used or relied upon in any respect should be referred to Golder for clarification**