

Reference No.: PLD-E01

**“Penrith Lakes”
Environmental Management Plan**

Revision Date: 20/07/15



Penrith Lakes Project

Environmental Management Plan

Client Contract Number: C0643

Kingsfeld Contract Number: PLDC

Distribution and Revision

All copies are distributed in accordance with the distribution table below. Draft copies of this document are identified by revision A, B, C etc. Documents issued following contract award commence at revision 0, 1, 2, etc. On receipt of a revision, the copyholder is to incorporate the revised pages into this document.

The document may be subject to reissue after a practical number of changes.

[illegible][illegible]

Table of Contents

1	INTRODUCTION	4
1.1	Project Title.....	4
1.2	Purpose of this Document	4
1.3	Key Environmental Issues	4
2	PROJECT	5
2.1	Project Details.....	5
2.2	Work Hours & Roster.....	5
2.3	Responsibilities and Authorities.....	5
2.3.1	<i>Responsibilities</i>	6
3	IMPLEMENTATION	6
3.1	Training.....	7
3.2	Work Site Monitoring and Inspection.....	7
3.3	Construction Controls to Minimise Dust	7
3.4	Construction Controls to Minimise Mud Tracking.....	8
3.5	Plant and Equipment	8

1 INTRODUCTION

1.1 Project Title

This Environmental Management Plan (EMP) has been prepared by Kingsfeld Contracting Pty Ltd for importation of VENM into the Penrith Lakes Development.

1.2 Purpose of this Document

This EMP is the overarching environmental control document within the Project Management System for the Project. This Plan was written consistent with the intent of ISO 14001 – Environmental Management Systems in order to undertake procedures that will deliver projects to the satisfaction of the client.

The purpose of this EMP is to:

- Outline the intent of the environmental management system
- Establish and work processes control through the use of environmental work method statements
- Establish the planning and execution of monitoring to verify that the work processes are environmentally compliant and that all work complies with the Contract
- Describe the plans, procedures, methods and forms to be used in implementing the environmental management system for the Contract.
- Define non-conformities and exhibit a system of identification and documentation, propose rectification measures and change or improve work processes to prevent recurrence.
- Identify the records to be kept to demonstrate that the Works comply with the environmental provisions of the Contract
- Improve work procedures when opportunities are identified to minimise or eliminate environmental non-conformance.

1.3 Key Environmental Issues

Kingsfeld has identified the following main environmental issues within the scope of the contract.

- Potential for uncontrolled discharge from site.
- Decline in water quality caused by soil erosion and/ or sedimentation.
- Impacts of dust, noise and/ or vibration on nearby residents

2 PROJECT

2.1 Project Details

Client	Penrith Lakes Development Corporation Limited		Contract Number	C0643
Project Name	Penrith Lakes Development			
Office Email	admin@kingsfeld.com.au			
Address / Location	Cranebrook NSW			
Phone	(02) 9601 6666	Fax	(02) 9601 2399	
Scope of Work	Cartage of material to Penrith Lakes Scheme site and unloading in areas designated by PLDC Placement and compaction of the imported material in accordance with the technical specification Principal Contractor – Kingsfeld Contracting			
Project Start Date	20 July 2015	Project Finish Date	2 years from date of execution	

2.2 Work Hours & Roster

Employment type	Work Hours	Weekend Roster
Staff	6.30am to 6.00pm Monday to Friday except public holidays	Rotational as agreed
Wages	6.30am to 6.00pm Monday to Friday except public holidays	6.30am to 1.00pm Saturdays No work Sundays

2.3 Responsibilities and Authorities

The Civil Manager is responsible to ensure that project responsibilities and reporting channels for the project are identified, documented and communicated.

A project organisation chart shall be developed and will identify project personnel and reporting lines.

Job descriptions shall be developed for all personnel and include environmental requirements, minimum training requirements, responsibilities and authorities. Job descriptions shall be reviewed and signed by all personnel.

2.3.1 Responsibilities

At a minimum the following responsibilities apply for the management of environmental at the project:

RESPONSIBILITY	ACTION
Civil Manager	<p>The Civil Manager for the Project is responsible for construction management and shall establish and maintain the Company's policies for this project and shall be responsible for their effectiveness.</p> <p>The Civil Manager ensures that the Project Team understands and implements the requirements of the Environmental Management Plan for the course of the project. The Civil Manager is the formal point of contact for the Principal and has the authority to stop work processes to prevent environmental non-conformances from occurring.</p> <p>The Civil Manager is also responsible for maintaining the CEMP up to date with changes to legislation and other requirements and checking that work on the project complies with its provisions.</p>
Supervisor	<p>The Project Supervisor for the Project is responsible to the Civil Manager for the day to day co-ordination and site control of direct labour, plant, subcontractors and suppliers for construction works.</p> <p>This especially applies to those activities where adverse environmental impacts may require the installation of specific controls. The Project Supervisor is responsible for the correct installation of the controls and their on-going monitoring and maintenance.</p> <p>The Project Supervisor has authority to stop work processes so that environmental non-compliances can be avoided or rectified.</p>

3 IMPLEMENTATION

3.1 Training

All site staff and workers undergo a site specific induction which includes Environmental awareness. This induction is undertaken prior to commencement. The site specific induction also covers safety and quality.

All personnel will be required to attend a general toolbox talk once a week which will contain further information relating to environmental issues.

A prestart briefing will be undertaken for each activity. All personnel undertaking that activity will be required to participate in the prestart. The prestart briefing will contain, safety, environmental and quality aspects of that particular activity.

3.2 Work Site Monitoring and Inspection

The Civil Manager in addition to the Supervisor shall carry out regular inspections of all work areas to ensure that the following standards and processes are being maintained. All environmental aspects of the site shall be monitored at weekly by the Project Supervisor or ESR and the results recorded on *F-E001 –Environmental Inspection Report*.

A regular fortnightly joint inspection will be carried out by the Kingsfeld and the Principal. Kingsfeld will close out issues identified in the inspection report and respond within 7 days.

During and after each rain event site environmental controls shall be inspected by the Supervisor and any necessary maintenance carried out as soon as practical. A record of the inspection and maintenance shall be kept on *F-E001 - Environmental Inspection Report*.

The Civil Manager shall regularly review environmental reports to confirm that clean up, restoration and corrective actions have been completed and are effective. The General Manager shall review all non-conformances and report significant findings to monthly management review meetings.

Any damage to areas outside the work site shall be immediately reported to the Superintendent who may advise on the nature of appropriate corrective action.

3.3 Construction Controls to Minimise Dust

The following techniques and control measures will be undertaken to manage air quality during construction:

Dust Specific Methods:

- water carts shall be employed when required to reduce dust emissions from trafficable areas, stockpiles and other exposed areas;
- vehicle speeds shall be restricted to 40km/h where unsealed roads are used;
- all loads leaving site will be covered;
- soils adhering to the undercarriage of vehicles leaving site shall be removed prior to departure via a rumble grid / wheel bath on the site exit road.

3.4 Construction Controls to Minimise Mud Tracking

The following techniques and control measures will be undertaken to manage mud tracking onto public roads during construction:

Specific Methods:

- Street sweeper to be utilised along McCarthy's Lane
- Road registered watercart to be available to assist sweeper
- All construction vehicles leaving the work site shall maintain a speed of 40km/hr maximum along McCarthy's Lane

3.5 Plant and Equipment

All plant and equipment that is used on the site is inspected prior to use. These inspections include checking of the mechanical and exhaust components. The engines are started and visual inspection of the exhaust is undertaken. Any plant that is identified as being excessively noisy or emits excessive fumes will not be allowed to commence work. Should a piece of plant that is operating fail to also pass this test then it will either be removed from site or the issue that is effecting its performance will be promptly rectified.

Dust control equipment such as water carts and street sweepers will be correctly maintained to ensure that all spray bars and the like are fully operational.