

# 01 | Introduction



## Glossary, Abbreviations and Units

Abbreviation	Definition
DEEDI	Department of Employment, Economic Development and Innovation (DEEDI)
DERM	Department of Environment and Resource Management
EIS	Environmental Impact Statement
HCPL	Hancock Coal Pty Ltd
SEIS	Supplementary Environmental Impact Statement
SIA	Social Impact Assessment
SIMP	Social Impact Management Plan
TOR	Terms of Reference
TSF	Tailings Storage Facility

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## Section 01 Introduction

### 1.1 Background to Project

Hancock Coal Pty Ltd (HCPL), the Proponent, prepared an Environmental Impact Statement (EIS) in accordance with Part 4 of the *State Development and Public Works Organisation Act 1971* (Queensland), the *Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth) and Terms of Reference (TOR) issued by the Queensland Coordinator-General in June 2009 (Queensland Government, 2009). The EIS (November 2010) assessed the environmental, social, and economic impacts associated with developing an open-cut mine that is targeting the thermal coal seams in the Upper Permian coal measures of the Galilee Basin in Queensland, Australia and the development of a standard gauge 495 kilometre (km) railway line for transporting processed coal to the Port of Abbot Point in North Queensland for exporting to international customers.

The EIS was made available for public comment and review from 5 November 2010 through 20 December 2010. In response, a total of 63 submissions were received from 56 different respondents comprising members of the public, advisory agencies, regulatory bodies, and organisations. A Supplementary EIS (SEIS) report was prepared in response to the submissions made and included additional information related to amendments made to the Project Description since the release of the EIS and was released to all respondents and the public on 5 September 2011 (September 2011).

### 1.2 Purpose of the Addendum

Following the SEIS, government agencies requested more detail on certain aspects of the project. Further information also became available as a result of ongoing engineering studies. This Addendum provides these additional studies to EIS respondents and government agencies involved in the assessment process.

A summary of the contents of the Addendum to the Project SEIS is provided in Table 1-1 below.

Table 1-1: Reports provided within the Project Supplementary Environmental Impact Statement (SEIS) Addendum

Appendix Number	Report Title	Phase of Report	Report Purpose
A	Updated Social Impact Management Plan	Update of SEIS Volume 2, Appendix E	As an evolving document the Social Impact Management Plan (SIMP) has undergone further revisions and development since the original version contained in the Project's EIS. This version of the SIMP builds on the SIA presented in the EIS, the SIA update presented in the SEIS and feedback from multiple stakeholders regarding potential social impacts and opportunities arising from the project.

Appendix Number	Report Title	Phase of Report	Report Purpose
B	Alpha Coal Mine Project Air Quality Assessment - Model Refinements	Update to SEIS Volume 2, Appendix P	<p>As part of HCPL's ongoing development of technical assessments, the SEIS Air Quality report has been reviewed and the modelling refined. Three key factors have been identified in relation to emissions and assumptions made in the EIS and SEIS:</p> <ul style="list-style-type: none"> <li>• New data on soils moisture content indicates higher moisture content than previously thought</li> <li>• Dust mitigation strategies have been reviewed and some aspects of operation amended to reduce dust emissions</li> <li>• Corrections to the dust emission sources have been made</li> <li>• The conservatism of earlier modelling has reviewed.</li> </ul> <p>This report has been produced with a third party technical reviewer to ensure an increased level of rigour is included in the outcomes.</p>
C	Out-of-Pit Tailings Storage Facility: Hydrogeological Assessment	New Report	<p>A geological and hydrogeological assessment of the proposed Project 30 year life of mine out-of-pit tailings storage facility (TSF) has been undertaken.</p> <p>This report describes the underlying geology including the nature of the boundary between the Colinlea Sandstone and the Joe Joe Group.</p> <p>An evaluation of groundwater recharge potential and groundwater occurrence and the nature of the groundwater resources within and adjacent to the TSF footprint has been undertaken.</p>
D	Out-of-Pit Tailings Storage Facility: Geotechnical Assessment	New Report	<p>A geotechnical assessment of the suitability of the proposed Project TSF has been undertaken.</p> <p>The main objective was to satisfy DERM's request for additional information on:</p> <ul style="list-style-type: none"> <li>• The potential for tailings liquor to migrate through surface and/or near surface soils into Lagoon Creek.</li> <li>• The potential for tailings liquor to seep through the floor of the TSF and contaminate groundwater.</li> <li>• The requirement for a lining of the TSF.</li> </ul>
E	Updated Stream Morphology Technical Report	Updated of SEIS Volume 2, Appendix J	<p>This report was updated to include information requested during consultation sessions with assessment agencies.</p>
F1 – F6	Rail Flood Plain Hydrology Reports	New Reports	<p>These reports analyse the impact of construction of the Alpha Coal Railway on creek/river systems along the alignment.</p>
G	Alpha Coal Project Rail - Flood modelling landowner packages	Supplementary Information	<p>A set of maps that show the impact of construction of the Alpha Coal Railway on the extent of flood inundation at an individual property level was prepared for distribution to individual landowners.</p>