



**Centennial Coal**



# **Springvale Water Treatment Project**

**SSD 7592**

**Progress Report #2**

**19 December 2017**



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## Introduction

SSD 7592, for the Springvale Water Treatment Project, was granted to Springvale Coal Pty Limited on the 19<sup>th</sup> of June 2017 by the Planning Assessment Commission (under delegation from the Minister of Planning). Veolia Australia & New Zealand (Veolia) have been engaged as the construction and operations contractor to carry out the Springvale Water Treatment Project (Project) for MP Water, who are contracted to Springvale SK Kores Pty Limited, Centennial Springvale Pty Limited (together, the Springvale Joint Venturers) and EnergyAustralia NSW Pty Ltd (EnergyAustralia) for that purpose. The approved Project encompasses the following major elements:

- A mine water transfer system with sufficient hydraulic capacity to allow transfer of 42 ML/day of dewatered mine water from the existing mine water Booster Station 2, forming part of the approved dewatering facilities on the Newnes Plateau, to the Mt Piper Power Station (MPPS) site;
- A new water treatment plant at MPPS incorporating desalination processes to reduce the salinity in mine water to a standard suitable for either industrial reuse or environmental release;
- Transfer of treated water from the water treatment plant for use in the MPPS cooling water system;
- Infrastructure to allow pumping of excess treated water to Thompsons Creek Reservoir;
- Disposal of residuals from the pre-treatment process in the reject emplacement area (REA) at the Springvale Coal Services site;
- Transfer of the saline brine stream to the MPPS for integration with existing fly ash and brine disposal practices; and
- Installing a crystalliser to provide further treatment of the additional salt load generated within the MPPS cooling water blowdown system.

In accordance with Schedule 4, Condition 7 of SSD 7592, reproduced below in Table 1, this progress report has been prepared to address the requirements of this condition.

The reporting period covers the period between the 20<sup>th</sup> of September 2017 to 19<sup>th</sup> of December 2017 (Reporting Period).

**Table 1: Condition Requirements**

Condition No.	Requirement	Section Addressed
7	<b><i>Progress Reporting</i></b> <i>The Applicant must monitor the status of the development and submit a quarterly progress report to the Secretary. The report must:</i>	Noted
(a)	<i>be submitted within 3 months of 19 June 2017 and every 3 months thereafter until the operation of the Water Treatment Plant;</i>	2
(b)	<i>describe the development (including any construction) that was carried out in the past 3 months, and the development that is proposed to be carried out over the next year;</i>	1.1 1.2
(c)	<i>identify any potential delays and describe measures to ensure that the Water Treatment Plant is operational by</i>	1.3

Condition No.	Requirement	Section Addressed
	<i>1 July 2019; and</i>	
(d)	<i>be made publicly available on the Applicant's website;</i>	2.1
	<i>to the satisfaction of the Secretary.</i>	Noted

## 1 Project Status

### 1.1 Works Completed during Reporting Period

During the reporting period the progress made is as follows:

- The Environmental Management Strategy (EMS) has been established for the construction stage of the Project and described in the Construction Environmental Management Plan (CEMP).
- Approval has been obtained from the Department of Planning and Environment (DPE) of the CEMP and management plans required under the Development Consent for the construction stage of the Project.
- Construction work at WTF site was commenced on Tuesday the 31<sup>st</sup> of October 2017, and notification was provided to DPE prior to the commencement of work.
- All flora, fauna and heritage survey validations and protection measures have been completed.
- The detailed design of the Water Treatment Project is ongoing.
- Clearing and grubbing of the vegetation at WTF site has been completed.
- Installation of site sheds, power supply and other amenities for the Project has commenced and is ongoing.
- The installation of silt mitigation measures to reduce runoff from the construction site has been completed.
- A modification to SSD 7592 has been submitted to DPE in accordance with section 96(1A) of the Environmental Planning and Assessment Act to facilitate a number of minor design changes to the approved Project description. The design changes will improve the operational efficiency and reduce the risk profile of the Project. The proposed minor design changes in the modification include an amended brine management process, a change to the pond strategy, additional hydraulic controls and minor changes to the pipeline alignments and an increase in the estimated peak construction workforce.

### 1.2 Works Proposed for Upcoming Year

The following work is scheduled to be completed in the forward 12 month period:

#### Engineering and Procurement

- Completion of detail design; and
- Placement of all orders for equipment and materials.

#### Water Transfer System (WTS)

Selective clearing of the final pipeline route and install new pipeline;

- Directional boring of pipeline under Castlereagh Highway and Coxs River (no clearing required);

- Installation of fibre optic communication cable for pipeline monitoring; and
- Pre-commissioning of the WTS.

#### **Water Treatment Facility (WTF)**

- Connecting pipelines to the power station water systems;
- Civil works, including cut and fill, piles and foundations;
- Receipt of all process equipment and installation;
- Installation of switchboards and power supplies;
- Installation of buildings, offices and associated infrastructure; and
- Pre-commissioning of the WTF.

### **1.3 Identified Potential Delays and Mitigation Measures**

Since the commencement of design and construction activities, there have been no issues related to these aspects of the Project which might cause delay to the Project.

Review of the Project schedule is being undertaken to ensure the correct Project sequence is incorporated not only for the early works, including the detailed design, but also the construction activities. No significant overall schedule variance recorded as at the current update.

## 2 Reporting

A timeline of reporting under Schedule 4, Condition 7 of SSD 7592 is tabulated below.

**Table 2: Reporting Submissions**

Progress Report #	Date	Prepared By	Distribution
-	19 June 2017	NA – SSD7592 Granted.	
1	19 September 2017	Springvale Coal Pty Limited	DPE, Veolia, Centennial website
2	19 December 2017	Springvale Coal Pty Limited	DPE, Veolia, Centennial website, Energy Australia, SSKK

### 2.1 Report Access

Progress Reports can be located on the Centennial website, located at the following website address:

<https://data.centennialcoal.com.au/domino/centennialcoal/cc205.nsf/Published.xsp?site=Springvale&type=Environmental%20Monitoring%20Reports&date=All>



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