



Centennial Coal



Ivanhoe North Rehabilitation Project
EPL 13063

Environmental Monitoring Data

November 2017

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1. INTRODUCTION

As per conditions M1 to M5 of EPL 13063, this report summarises environmental monitoring results for the Ivanhoe North Rehabilitation Project for the period **November 2017**. Monitoring sites are shown in **Appendix 1**.

A summary of the licence information is provided in the following tables. **Table 1** shows the licence information and **Table 2** summarises the dates and units for monitoring data for the reporting period.

Table 1. Licence Information.

Environment Protection Licence Number	13063
Licensee's Name	Ivanhoe Coal Pty Limited
Licensee's Address	Level 18, BT Tower, 1 Market Street Sydney NSW 2000
Link to full licence on the EPA website	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31064&SYSUID=1&LICID=13063

Table 2. Supporting Information for Monitoring Points.

Location and Parameter	Monitoring Frequency	Unit of Measure	Sampling Date
Depositional Dust INDD-C (Point 3)	Monthly	g/m ² /month	3/10/2017 – 2/11/2017
Depositional Dust INDD-G (Point 4)	Monthly	g/m ² /month	3/10/2017 – 2/11/2017
Depositional Dust INDD-K (Point 5)	Monthly	g/m ² /month	3/10/2017 – 2/11/2017
LDP001 (Point 1) Oil & Grease	Monthly during discharge	mg/L	No Discharge
LDP001 (Point 1) pH	Monthly during discharge	pH	No Discharge
LDP001 (Point 1) Total Suspended Solids	Monthly during discharge	mg/L	No Discharge
LDP001 (Point 1) Conductivity	Monthly during discharge	µS/cm	No Discharge
LDP002 (Point 2) Oil & Grease	Monthly during discharge	mg/L	No Discharge

Location and Parameter	Monitoring Frequency	Unit of Measure	Sampling Date
LDP002 (Point 2) pH	Monthly during discharge	pH	No Discharge
LDP002 (Point 2) Total Suspended Solids	Monthly during discharge	mg/L	No Discharge
LDP002 (Point 2) Conductivity	Monthly during discharge	µS/cm	No Discharge
LDP006 (Point 6) Oil & Grease	Monthly during discharge	mg/L	No Discharge
LDP006 (Point 6) pH	Monthly during discharge	pH	No Discharge
LDP006 (Point 6) Total Suspended Solids	Monthly during discharge	mg/L	No Discharge
LDP006 (Point 6) Conductivity	Monthly during discharge	µS/cm	No Discharge

2. AIR QUALITY MONITORING

The air quality monitoring results for the reporting period are summarised below.

Depositional Dust

Depositional dust results (deposited matter recorded as insoluble solids) for **October** are shown in **Table 3**. Due to the extended turn-around time on analysis, results for dust gauges are reported a month in arrears.

Sampling is conducted in accordance with "Methods for sampling and analysis of ambient air. Method 10.1: Determination of particulate matter - Deposited matter-Gravimetric method" Standards Australia, 2003 (Australian Standard 3580.10.1.2003), as required by Condition M2.2 of EPL 13063.

Table 3. Depositional Dust Monitoring Results, October 2017.

Dust Deposition Gauge (EPA identification number)	Insoluble Solids (g/m ² /month)
INDD-C (Point 3)	0.8
INDD-G (Point 4)	1.3
INDD-K (Point 5)	0.6

EPL 13063 does not apply a depositional dust limit; however, a rolling average air quality criterion of 4 g/m²/month is commonly used for comparison purposes.

3. WATER QUALITY

Surface water pH, Total Suspended Solids (TSS mg/L), Electrical Conductivity (EC $\mu\text{s/cm}$) and Oil and Grease (mg/L) are monitored at LDP001 (IN_SD-1), LDP002 (IN_SD-2B) and LDP006 (IN_SD-3) as indicated on the Environmental Monitoring location figure, that can be found in **Appendix 1** and on the Centennial website. As required by conditions M2.1 and M2.3, monitoring must be conducted monthly during discharge.

There were no discharges from LDP001, LDP002 or LDP003 in **November 2017**.

Table 4 provides a summary of the monitoring data for the reporting period.

Table 4. Water Quality Monitoring Results, November 2017.

Parameter	Unit of Measure	LDP001 (Point 1)		LDP002 (Point 2)		LDP006 (Point 6)	
		Result	Sample Date	Result	Sample Date	Result	Sample Date
Total Suspended Solids	mg/L	NA	NA	NA	NA	NA	NA
pH	pH units	NA	NA	NA	NA	NA	NA
Oil & Grease	mg/L	NA	NA	NA	NA	NA	NA
Electrical Conductivity	$\mu\text{S/cm}$	NA	NA	NA	NA	NA	NA

4. INCIDENTS

No incidents occurred at Ivanhoe North Rehabilitation Project during the reporting period.

5. COMPLAINTS

No complaints were received in regard to Ivanhoe North Rehabilitation Project during the reporting period.

6. CORRECTION LOG

No corrections to previously published data are required.

Appendix 1

Monitoring Site Locations

Environmental Monitoring Results Summary – Ivanhoe North Rehabilitation Project – November 2017

