



**ENVIRONMENT PROTECTION LICENCE NO: 21029**

**November 2018 Monthly Report**

FOR

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**Princes Highway Upgrade  
between Berry and Bomaderry**

## Document control

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## Contents

1	Introduction .....	3
2	Non-compliances .....	4
3	Rainfall and weather .....	4
4	Sediment basin discharge .....	5
5	Air monitoring results.....	6
6	Noise monitoring results .....	6
7	Environmental Complaints .....	8

## Tables

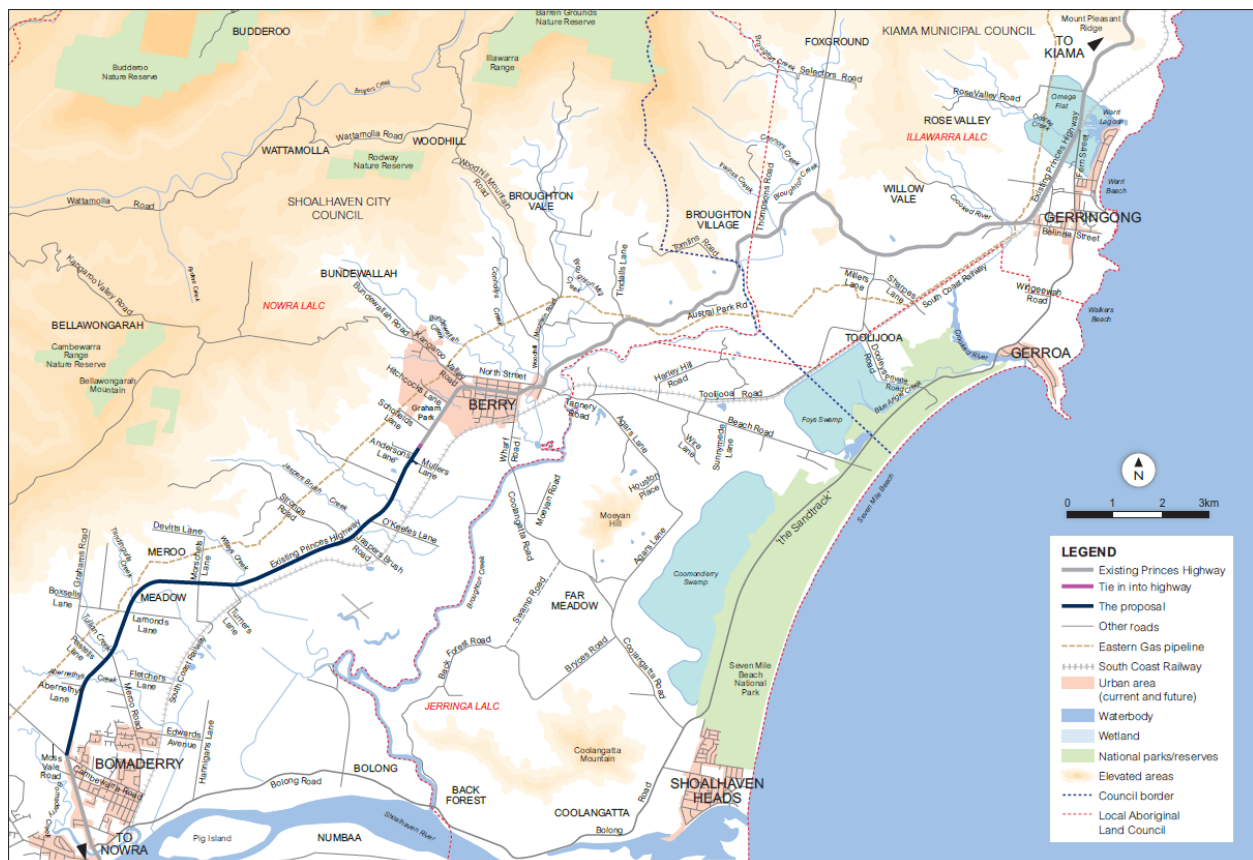
Table 3-1	November 2018 Rainfall monitoring results.....	4
Table 4-1	November 2018 Sediment basin discharge.....	5
Table 5-1	November 2018 Air quality monitoring results .....	6
Table 6-1	November 2018 Noise Monitoring Results .....	6
Table 7-1	November 2018 Environmental Complaints .....	8

# 1 INTRODUCTION

The Downer Seymour Whyte Joint Venture (DSWJV) is contracted by Roads and Maritime Services (Roads and Maritime) to upgrade 10.3 kilometres of the Princes Highway between Mullers Lane (south of Berry) and Cambewarra Road, Bomaderry in New South Wales (NSW) (the Project). The project will provide a four-lane divided highway (two lanes in each direction) with median separation.

The project is one of a series of upgrades to sections of the Princes Highway which aims to provide a four-lane divided highway between Waterfall and Jervis Bay Road, Falls Creek. This would improve road safety and traffic efficiency, including for freight, on the NSW South Coast.

Figure 1 provides an overview of the project location.



**Figure 1-1 Project location**

In accordance with Environment Protection Licence (EPL) Condition R4.1, the following report details the required monitoring undertaken over the November 2018 reporting period.

## 2 NON-COMPLIANCES

No non-compliances with EPL conditions occurred during the November 2018 reporting period.

## 3 RAINFALL AND WEATHER

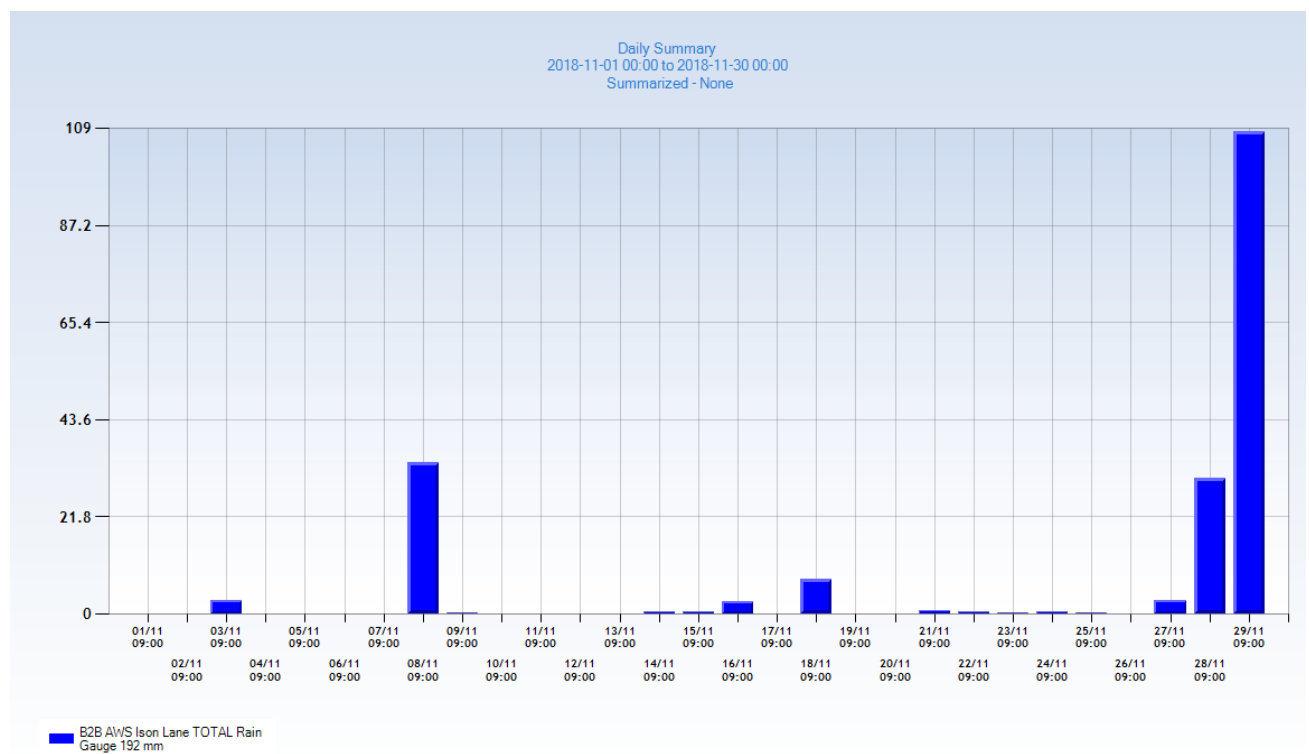
The RMS automatic weather station is situated at Ison Lane, Jaspers Brush, located adjacent to a main ancillary compound (Isons Compound) for the project. The results of rainfall monitoring for November 2018 are provided in Table 3-1 and Figure 2 below.

**Table 3-1 November 2018 Rainfall monitoring results**

Location	Monthly rainfall recorded (mm)
Ison Lane, Jaspers Brush (RMS automatic weather station)	192

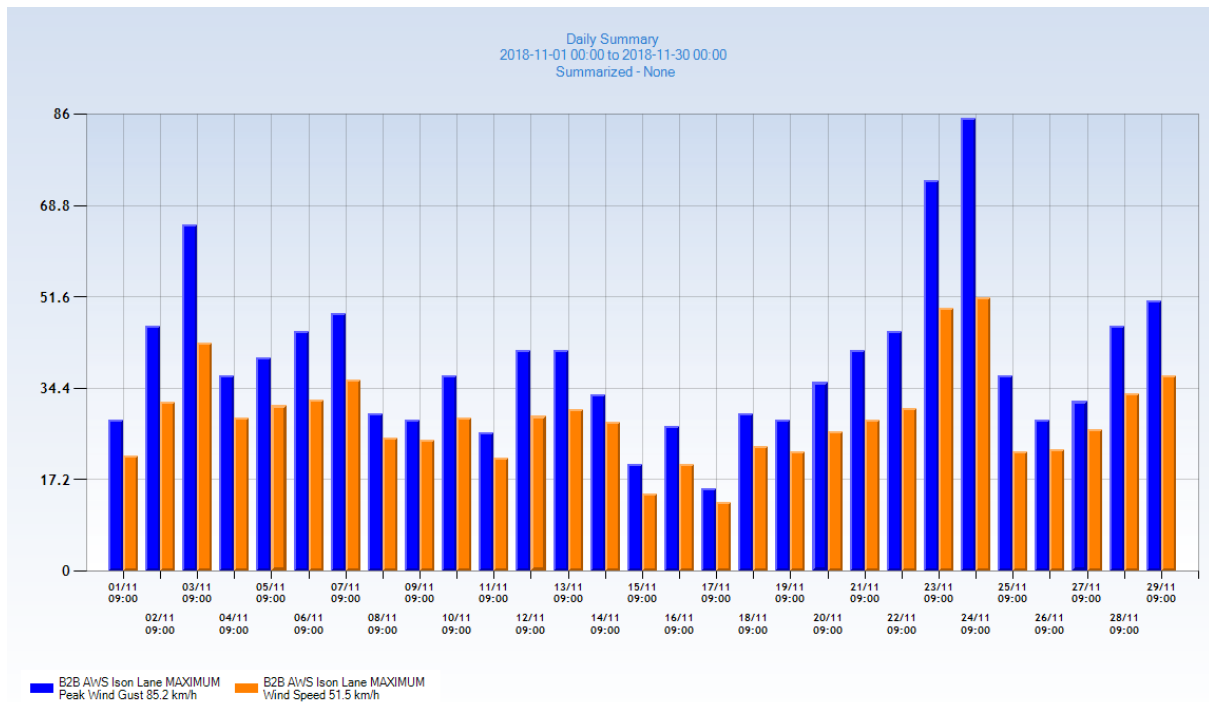
November 2018 recorded fifteen rainfall events at the project specific weather station (Ison Lane, Jaspers Brush (RMS automatic weather station). The largest rainfall event was continuous over the 27-29/11/18 recording 141.6 mm.

**Figure 2 – November Rainfall Results Ison Compound Weather Station**



The predominate wind conditions recorded in November were north easterly with highest wind speed from a south westerly direction. Significant wind conditions were recorded on the 23/11/18 and 24/11/18. The highest wind gust recorded was 85.2km/h and maximum wind speeds of 51.5km/h. Site activities were suspended on these days and DSWJV applied polymer dust suppressants across the site and maintained a fleet of water carts during site hours. Refer to Figure 3 below.

**Figure 3 November 2018 Wind Results Isons Compound Weather Station**



## 4 SEDIMENT BASIN DISCHARGE

The project now has seven sediment basins commissioned on the EPL. The list of basins is outlined in Table 4-1 below. Not all the sediment basins required dewatering or to be discharged in November 2018 due to a combination of the basin volumes being constructed oversized for the catchments. Additionally, not all catchments were completely disturbed allowing for some natural infiltration to the existing ground surface and some volumes of water in the basins were below levels able to be pumped out. The large rain event over the 27-29/11/18 has resulted in the 5-day rainfall discharge criteria being extended into early December 2018. These results will be published in the December 2018 EPL report.

**Table 4-1 November 2018 Sediment basin discharge**

EPA Identification No.	Location (adjacent address)	Discharge Date	pH (6.5-8.5)	Total Suspended Solids (50mg/L)	Oil and Grease (none)
TB22.80N	Ison Compound	12/11/2018	6.91	11.0	None visible
TB22250.S	Opposite Strong's Road	No discharge	-	-	-
TB22650.S	Opposite Isons Compound	No discharge	-	-	-
TB23400.S	Jaspers Brush North of Wileys Creek	12/11/2018	7.10	19.0	None visible
TB23450.S	Jaspers Brush North of Wileys Creek	12/11/2018	7.05	26.0	None Visible
TB23800.S	Wileys side track compound	No discharge	-	-	-
TB28900.N	Abernethy's Lane	29/11/2018	6.79	14.0	None visible

## 5 AIR MONITORING RESULTS

Dust deposition gauges for the project were installed on 31 October and changed on the 29 November 2018 which is within the NATA accredited window (30 days +/- 2 days). Results are summarised in Table 5-1 below. It should be noted that dust deposition gauge (DDG) H was reported missing and suspected stolen on the date of collection. It has since been replaced. There was also a minor exceedance noted at DDG-M. However, severe strong winds recorded on the 23/11/18 could have contributed to the slight exceedance of the monthly total in this location.

**Table 5-1 November 2018 Air quality monitoring results**

EPA Identification No.	Location (adjacent address)	Ash Content g/m <sup>2</sup> ,month	Combustible Matter g/m <sup>2</sup> ,month	Total Insoluble Matter g/m <sup>2</sup> ,month
1-DDG A	10 Croziers Lane, Jaspers Brush	0.9	0.7	1.6
2-DDG B	10A Jaspers Brush Road, Jaspers Brush	1.1	0.9	2.0
3-DDG C	20C Strongs Road, Jaspers Brush	1.6	1.4	3.0
4-DDG D	10C Jaspers Brush Road, Jaspers Brush	1.0	1.8	2.8
5-DDG E	30 Ison Lane, Jaspers Brush	0.7	0.8	1.5
6-DDG F	Lot 209 DP 1210788	1.9	1.0	2.9
7-DDG H	10 Lamonds Lane, Meroo Meadow	MISSING NO RESULTS FOR NOVEMBER 2018		
8-DDG I	19 Boxsells Lane, Meroo Meadow	0.9	0.7	1.6
9-DDG J/K	265 Princes Highway, Meroo Meadow	0.6	0.6	1.2
10-DDG L	1028 Meroo Meadow, Meroo Meadow	2.0	0.5	2.5
11-DDG M	32 Elvin Drive, Bomaderry	2.8	1.3	4.1
12-DDG N	9 Devitt's Lane, Meroo Meadow	0.8	1.0	1.8
13-DDG P	24 Abernethys Lane, Meroo Meadow	2.4	0.5	2.9

## 6 NOISE MONITORING RESULTS

Noise monitoring was undertaken in accordance with the Construction Noise and Vibration Management Plan (CNVMP) for the project in November 2018. Noise monitoring results are summarised in Table 6-1 below.

**Table 6-1 November 2018 Noise Monitoring Results**

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) <sub>eq(15min)</sub>	Comments
15	Noise monitoring	L1 - B210 Princes Highway, Jaspers	Nil no construction activity	20/11/18	10:04-10:19	70.2	Nil no construction in this area, traffic noise dominating cars, trucks.

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) <sub>eq(15min)</sub>	Comments
Brush -							
16	Noise monitoring	L2 - 20C Strongs Road, Jaspers Brush -	Nil no construction activity	20/11/18	9:41-9:56	56.6	Nil no construction in this area, traffic noise dominating cars, trucks.
17	Noise monitoring	L3 - 30 Ison Lane, Jaspers Brush	Nil no construction activity	19/11/18	15:50-16:05	54.5	Nil no construction in this area, traffic noise dominating cars, trucks.
18	Noise monitoring	L5 - 15 Turner Lane, Jaspers Brush	Earthworks Stockpiling and importing rock	20/11/18	10:37-10:52	56.1	Majority of noise was continuous traffic from the highway with a constant stream of cars, truck approx. every 30-60 secs. Aside from several short peaks of noise (mainly from reversing beepers) the works were inaudible except during breaks in traffic.
19	Noise monitoring	L6 - B710 Princes Highway, Jaspers Brush	Earthworks	20/11/18	9:15 – 9:30	57.0	Traffic noise dominating with cars and trucks. 3 occurrences of construction heavy vehicles driving on a haul road in front of the monitor.
20	Noise monitoring	L7 - 310C Princes Highway, Jaspers Brush	Nil no construction activity	20/11/18	11:00 – 11:15	66.1	Nil no construction in this area, traffic noise dominating cars, motorbikes, trucks.
21	Noise monitoring	BG08 - 19 Boxsells Lane, Meroo Meadow	Nil no construction activity	19/11/18	15:12-15:27	58.4	Nil no construction in this area, traffic noise dominating and birds chirping.
22	Noise monitoring	BG09 - 1028 Meroo Road, Meroo Meadow	Earthworks – unloading and forming material with bulldozer and roller.	20/11/18	11:59 – 11:14	71.0	Construction noise – trucks unloading, bulldozer moving material and vibratory roller operating. Construction noise below level predicted in CNVMP for this activity within this area.
23	Noise monitoring	L8 - 24 Abernethys Lane, Meroo Meadow	Earthworks Trucks unloading rock and being moved by roller	19/11/18	14:50 – 15:05	58.4	Traffic noise dominating with cars and trucks. Only construction noise was reversing squarkers on several occasions.
24	Noise monitoring	BG10 - 35 Gardenia	Nil no construction	19/11/18	16:30-16:45	47.0	Nil no construction in this area, traffic noise



EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) <sub>eq(15min)</sub>	Comments
		Crescent, Bomaderry	activity				dominating cars, trucks.
25	Noise monitoring	BG11 - 38 Elvin Drive, Bomaderry	Earthworks – excavators	20/11/18	8:41 – 8:56	59.7	Traffic noise with cars and trucks dominating. Excavators working some distance away were largely inaudible.

## 7 ENVIRONMENTAL COMPLAINTS

Two environmental complaints were received in November 2018. All complaints were responded to and closed within required timeframes.

**Table 7-1 November 2018 Environmental Complaints**

Complaint No.	Date/time complaint received	Nature of Complaint	Actions and due date	Status/timing
001	01/11/18 12.45pm	Noise complaint that “crashing rocks” being unloaded from trucks had frightened her cattle.	Community Manager rang resident and explained that rocks would be tipped there for the next two – three weeks. She said that the cattle appeared to be used to it already and it was only the initial delivery which had caused a problem.	Closed within two hours
002	13/11/18 3.44pm	Dust from mulching	Community Manager met with resident on site and agreed, due to exceedance at nearby dust gauge, that we would clean exterior of house.	Closed – resident given contact details of cleaner to arrange suitable time