



ENVIRONMENT PROTECTION LICENCE NO: 21029

December 2018 Monthly Report

FOR

**Princes Highway Upgrade
between Berry and Bomaderry**

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Approved by:




Brad Binns

Laurene Coetzee

Downer Seymour Whyte
Project Director

Downer Seymour Whyte
Environmental Site
Representative

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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 December 2018 reporting period.

2 NON-COMPLIANCES

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

3 RAINFALL AND WEATHER

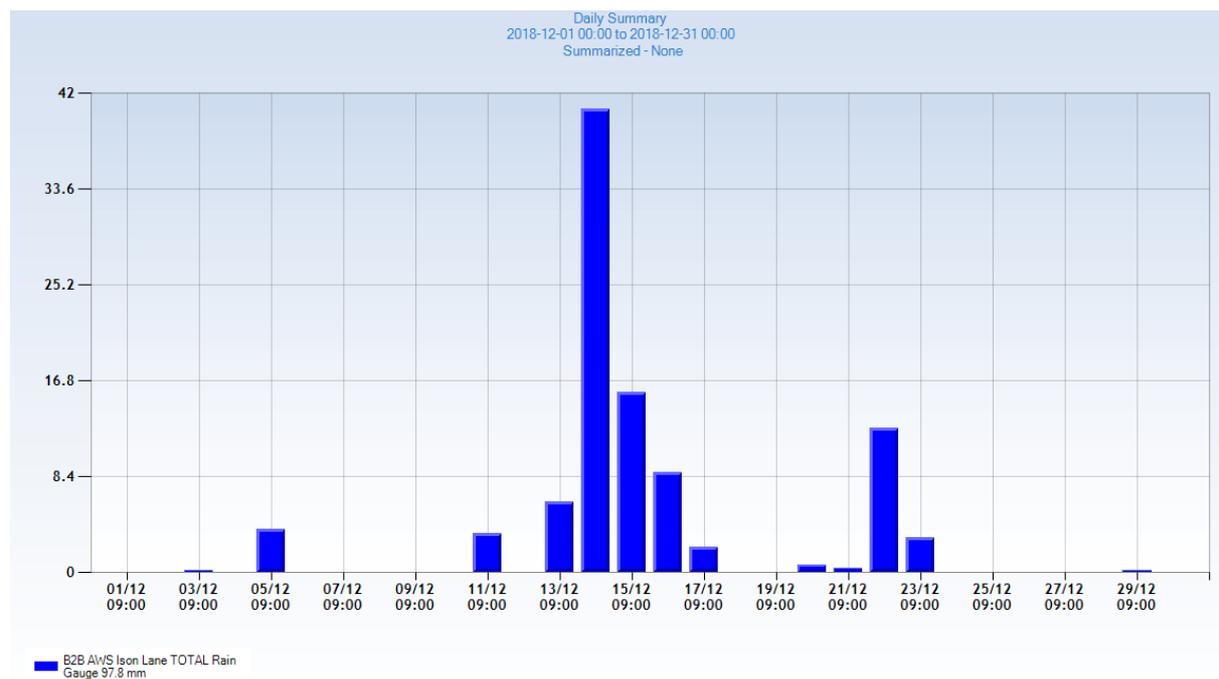
The RMS automatic weather station is situated at Ison Lane, Jaspers Brush, located adjacent to a main ancillary compound (Isons Compound) for the project. The results of rainfall monitoring for December 2018 are provided in Table 3-1 and Figure 2 below.

Table 3-1 December 2018 Rainfall monitoring results

Location	Monthly rainfall recorded (mm)
Ison Lane, Jaspers Brush (RMS automatic weather station)	97.8mm

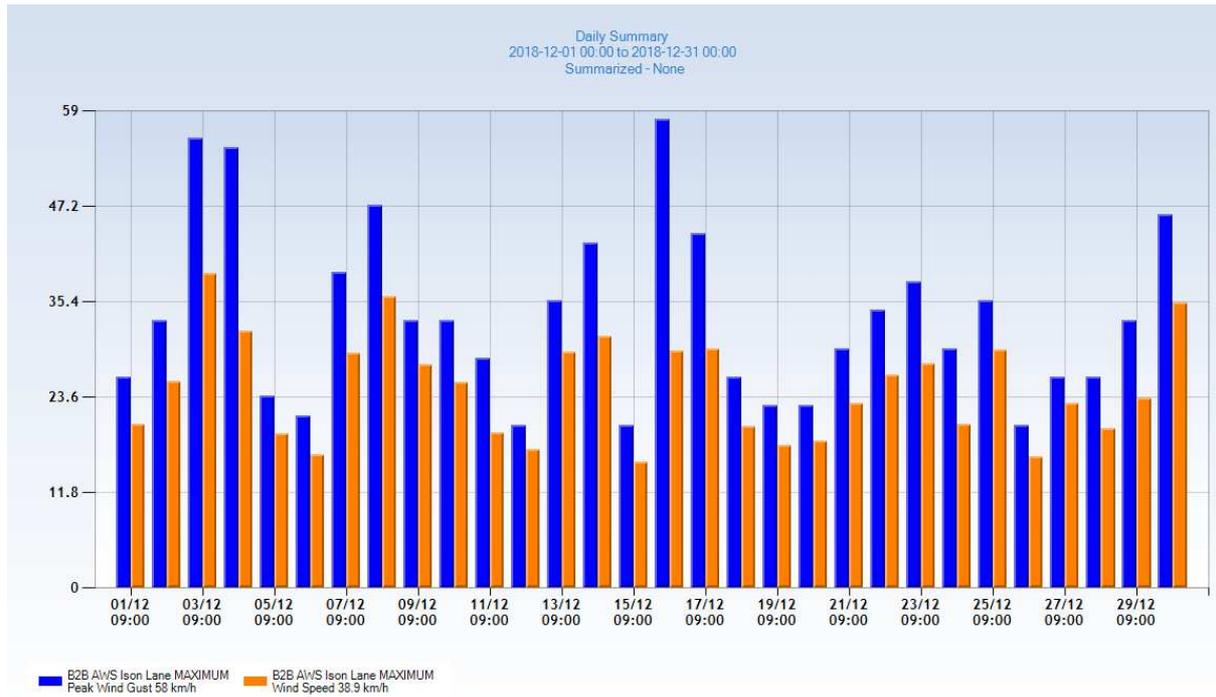
December 2018 recorded twelve rainfall events at the project specific weather station (Ison Lane, Jaspers Brush (RMS automatic weather station)). The largest rainfall event was continuous over the 13-17/12/18 recording 71.4 mm.

Figure 2 – December Rainfall Results Ison Compound Weather Station



The predominate wind conditions recorded in December were north easterly. The highest wind gust recorded was 58km/h and maximum wind speeds of 38.9m/h. DSWJV continue to monitor site activities, apply polymer dust suppressants across the site and maintain a fleet of water carts during site hours. Refer to Figure 3 below.

Figure 3 December 2018 Wind Results Isons Compound Weather Station



4 SEDIMENT BASIN DISCHARGE

The project currently has nine sediment basins commissioned on the EPL. The list of basins is outlined in Table 4-1 below. The latest basin to be commissioned was TB21150N at O’Keeffes Lane on the 5 December 2018.

Table 4-1 December 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 visible)
TB22.80N	Ison Compound	10/12/2018	6.84	10.0	None visible
		11/12/2018	6.77	11.0	None visible
		13/12/2018	6.78	20.0	None visible
		20/12/2018	6.80	30.0	None visible
TB21150.S	Opposite O’Keeffes Lane	4/12/2018	7.70	20.0	None visible
		17/12/2018	8.38	17.0	None visible
TB22250.S	Opposite Strong’s Road	10/12/2018	8.34	20.0	None visible
		11/12/2018	8.02	14.0	None visible
		18/12/2018	7.68	8.0	None visible

EPA Identification No.	Location (adjacent address)	Discharge Date	pH (6.5-8.5)	Total Suspended Solids (50mg/L)	Oil and Grease (none)
		19/12/2018	7.70	30.0	None visible
TB22650.S	Opposite Isons Compound	3/12/2018	7.10	<5.0	None visible
		12/12/2018	7.74	10.0	None visible
		18/12/2018	6.70	18.0	None visible
		21/12/2018	7.78	38.0	None visible
TB23400.S	Jaspers Brush North of Wileys Creek	3/12/2018	7.07	12.0	None visible
		18/12/2018	7.94	11.0	None visible
TB23450.S	Jaspers Brush North of Wileys Creek	3/12/2018	6.92	18.0	None Visible
		18/12/2018	7.29	23.0	None visible
TB23800.S	Wileys side track compound	4/12/2018	7.31	18.0	None visible
		17/12/2018	7.17	17.0	None visible
TB25.10N	Devitts Lane	10/12/2018	6.95	7.0	None visible
		19/12/2018	6.80	9.0	None visible
TB28900.N	Abernethy's Lane	3/12/2018	6.62	21.0	None visible
		11/12/2018	6.55	8.0	None visible
		20/12/2018	6.78	<5	None visible

5 AIR MONITORING RESULTS

Dust deposition gauges for the project were installed on 29 November and changed on the 27 December 2018 which is within the NATA accredited window (30 days +/- 2 days). Results are summarised in Table 5-1 below. As reported in November 2018, DDG-H at Lamonds Lane was vandalised and stolen. The project had a repeat experience of this in December 2018, and this was reported to the EPA on the 19 December 2018. A new calibrated funnel is being sort from the laboratory and will be installed as soon as possible.

Minor exceedances were recorded at five locations across the project. DSWJV notes that the gauges on collection, contained notable volumes of rainwater and drowned insects that may have contributed to skewed results. Furthermore, results are unusual as December did contain a number of wet weather days as discussed in Section 3 of this report. DSWJV also continued with its ongoing dust

management regime of polymer application of open areas and stockpiles, hydro mulching of stockpiles and continual use of water carts.

Table 5-1 December 2018 Air quality monitoring results

EPA Identification No.	Location (adjacent address)	Ash Content g/m ² ,month	Combustible Matter g/m ² ,month	Total Insoluble Matter g/m ² ,month
1-DDG A	10 Croziers Lane, Jaspers Brush	7.5	5.9	13.4
2-DDG B	10A Jaspers Brush Road, Jaspers Brush	1.5	1.2	2.7
3-DDG C	20C Strongs Road, Jaspers Brush	1.1	0.4	1.5
4-DDG D	10C Jaspers Brush Road, Jaspers Brush	1.6	2.3	3.9
5-DDG E	30 Ison Lane, Jaspers Brush	1.1	0.6	1.7
6-DDG F	Lot 209 DP 1210788	1.6	3.6	5.2
7-DDG H	10 Lamonds Lane, Meroo Meadow		NO RESULTS DUST GAUGE VANDALISED	
8-DDG I	19 Boxsells Lane, Meroo Meadow	1.2	0.7	1.9
9-DDG J/K	265 Princes Highway, Meroo Meadow	1.2	1.7	2.9
10-DDG L	1028 Meroo Meadow, Meroo Meadow	3.3	2.0	5.3
11-DDG M	32 Elvin Drive, Bomaderry	0.9	0.7	1.6
12-DDG N	9 Devitt's Lane, Meroo Meadow	1.6	2.9	4.5
13-DDG P	24 Abernethys Lane, Meroo Meadow	4.1	4.1	8.2

6 NOISE MONITORING RESULTS

Monthly noise monitoring in accordance with the CNVMP was scheduled to occur over the final working week of December 2018 prior to Christmas Shutdown, as limited works were being undertaken in early December due to scheduled site shutdowns. Minimal works were occurring in mid-December due to heavy rainfall across the site (refer to Section 3 of this report). Monitoring was partially completed across the project at the required locations however due to drizzle rain conditions monitoring was not possible to be completed at all locations. Noise monitoring was also undertaken during out of hours construction works at the during the traffic switch at Wileys Creek on the 10-12 December 2018. A noise assessment for this activity was modelled prior to the works and there were no exceedances above the predicted levels recorded. Noise monitoring results are summarised in Table 6-1 below.

Table 6-1 December 2018 Noise Monitoring Results

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) _{eq(15min)}	Comments
18	Noise monitoring	L5 - 15 Turner Lane, Jaspers Brush	Bridge piling	18/12/2018	8:04 – 8:19	57.1	Piling rig working, engine revving and shaking out auger between drilling. Reversing beeper from excavator. Also continuous traffic from the highway with a

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) _{eq(15min)}	Comments
							constant stream of cars, truck approx. every 30-60 secs.
20	Noise monitoring	L7 - 310C Princes Highway, Jaspers Brush	Nil no construction activity	18/12/2018	8:48 – 9:03	70.9	Nil no construction in this area, traffic noise dominating cars, motorbikes, trucks.
22	Noise monitoring	BG09 - 1028 Meroo Road, Meroo Meadow	Earthworks – unloading and forming material with bulldozer and roller.	18/12/2018	9:18 – 9:33	58.0	Construction noise – trucks unloading, bulldozer moving material and vibratory roller operating. Construction noise below level predicted in CNVMP for this activity within this area. Traffic noise nearby, cars and trucks.
24	Noise monitoring	BG10 - 35 Gardenia Crescent, Bomaderry	Nil no construction activity	18/12/2018	9:55 – 10:10	59.9	Nil no construction in this area, some traffic noise but largely dominated by cicadas.
Out of hours traffic switch Wileys Creek	Noise monitoring	10 Turners Lane, Jaspers Brush	Earthworks – grader and roller forming roadway	10/12/2018	20:30 – 20:45	59.8	Traffic noise dominant noise source, cars, trucks. Construction noise from grader and roller operating, light tower generator.
	Noise monitoring	660 Princes Highway, Jaspers Brush	Earthworks – grader and roller forming roadway	10/12/2018	21:00 – 21:15	62.7	Traffic noise dominant source, cars, trucks. Construction noise from rollers operating including reversing squawkers.
	Noise monitoring	585A Princes Highway, Jaspers Brush	Asphalt removal	10/12/2018	22:07 – 22:22	52.1	Asphalt truck dominant noise source, reversing squawkers. Traffic noise from highway, cars, trucks. Train passing by.
	Noise monitoring	10 Turners Lane, Jaspers Brush	Asphalt removal	10/12/2018	22:42 – 22:57	57.3	Traffic from highway, cars, trucks dominant noise source. Construction noise bobcat excavator operating.
	Noise monitoring	10 Turners Lane, Jaspers Brush	Asphalt removal	10/12/2018	23:18 – 23:33	61.1	Asphalt ripper, workers talking.
	Noise monitoring	585A Princes Highway, Jaspers Brush	Shift start-up	11/12/2018	16:42 – 16:57	54.2	Traffic from highway, cars, trucks dominant noise source. Construction noise bobcat excavator

EPA Identification No.	Type of monitoring point	Location description	Construction activity	Date	Time	L(A) _{eq(15min)}	Comments
							operating, reversing squawkers, water cart refilling, moxy idling.
	Noise monitoring	10 Turners Lane, Jaspers Brush	Asphalting	11/12/2018	19:21 – 19:36	64.9	Traffic from highway, cars, trucks dominant noise source. Asphalt miller, bobcat, trucks operating, light tower generator.
	Noise monitoring	10 Turners Lane, Jaspers Brush	Asphalting	11/12/2018	22:41 – 22:56	60.3	Machinery operating, bobcat, roller, asphalt paver, roller, truck, light tower generator.
	Noise monitoring	660 Princes Highway, Jaspers Brush	Asphalting	11/12/2018	20:30 – 20:45	68.7	Dominant noise source asphalt miller operating, engine revving, Bobcat operating, banging bucket. Traffic noise from highway, cars, trucks.
	Noise monitoring	585C Princes Highway, Jaspers Brush	Asphalting	12/12/2018	19:48 – 20:03	50.3	Traffic from highway, cars, trucks dominant noise source. Trucks delivering to asphalt machine, air brakes from trucks (5 occasions). bobcat and roller operating.
	Noise monitoring	10 Turners Lane, Jaspers Brush	Asphalting	12/12/2018	21:01 – 21:16	55.7	Traffic from highway, cars, trucks dominant noise source. Paver operating, light tower generator.

7 ENVIRONMENTAL COMPLAINTS

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

Table 7-1 December 2018 Environmental Complaints

Complaint No.	Date/time complaint received	Nature of Complaint	Actions and due date	Status/timing
001	06/12/18	Noise complaint of generator at the Ison Compound at night.	Community Manager advised Project team who immediately provided shrouding with echo barriers around the generator and installed reminder signage within the compound of site	Closed within two hours.

Complaint No.	Date/time complaint received	Nature of Complaint	Actions and due date	Status/timing
002	11/12/18	Dust from vehicles turning at Lamonds Lane and out of hours noise from a vehicle float on Saturday 8 December 2018.	Community Manager advised project team who agreed to place gravel in the vicinity of where lose material was causing dust to provide a more stable surface. In regard to the noise complaint, the project was not working on the morning of Saturday 8 December and vehicle float was suspected to be a member of the public.	Closed within two hours.

