



**ENVIRONMENT PROTECTION LICENCE NO: 21029**

**January 2019 Monthly Report**

FOR

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**Princes Highway Upgrade  
between Berry and Bomaderry**

## Document control

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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 January 2019 reporting period.

## 2 NON-COMPLIANCES

No non-compliances with EPL conditions occurred during the January 2019 reporting period.

## 3 RAINFALL AND WEATHER

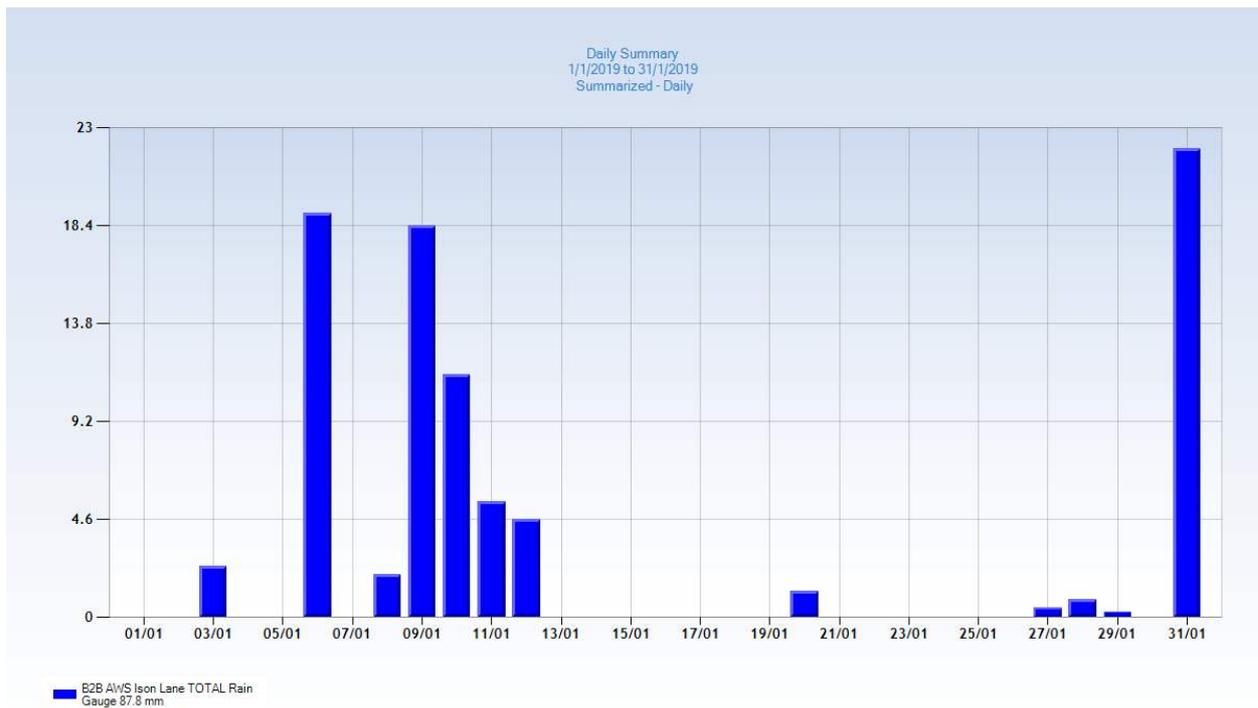
The RMS automatic weather station is situated at Ison Lane, Jaspers Brush, located adjacent to a main ancillary compound (Isons Compound) for the project. The results of rainfall monitoring for January 2019 are provided in Table 3-1 and Figure 2 below.

**Table 3-1 January 2019 Rainfall monitoring results**

Location	Monthly rainfall recorded (mm)
Ison Lane, Jaspers Brush (RMS automatic weather station)	87.8mm

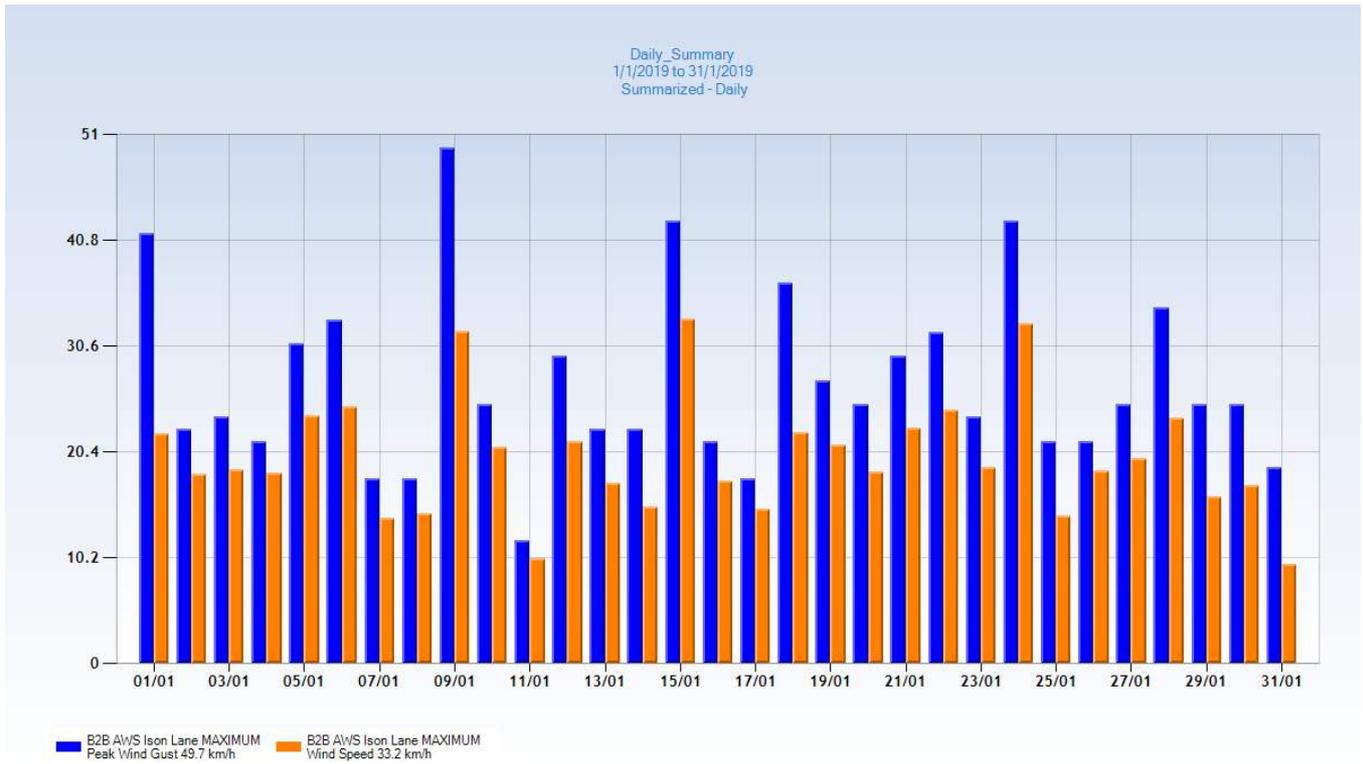
January 2019 recorded eleven rainfall events at the project specific weather station (Ison Lane, Jaspers Brush (RMS automatic weather station)). The largest rainfall event was continuous over the 9-12/01/19 recording 39.8 mm.

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



The predominate wind conditions recorded in January were south-south easterly. The highest wind gust recorded was 58km/h and maximum wind speeds of 46m/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 January 2019 Wind Results Isons Compound Weather Station**



## 4 SEDIMENT BASIN DISCHARGE

The project currently has nine sediment basins commissioned and licensed under the EPL. The list of basins is outlined in Table 4-1 below. The latest basin to be commissioned was TB21150N opposite O’Keeffe’s Lane on the 5 December 2019

**Table 4-1 January 2019 Sediment basin discharge(s)**

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	17/01/2019	7.75	6	None visible
TB21150.S	Opposite O'Keeffe's Lane	07/01/2019	8.07	13	None visible
		09/01/2019	7.23	30	None visible
		11/01/2019	8.42	10	None visible
TB22250.S	Opposite Strong's Road	No discharges in January 2019			
TB22650.S	Opposite Isons Compound	07/01/2019	6.82	6	None visible
		11/01/2019	7.57	<5*	None visible
		14/01/2019	6.99	7	None visible
		21/01/2019	8.2	<5	None visible
		21/01/2019	7.12	<5	None visible
TB23400.S	Jaspers Brush North of Wileys Creek	14/01/2019	6.71	7	None visible
TB23450.S	Jaspers Brush North of Wileys Creek	15/01/2019	6.6	6	None visible
TB23800.S	Wileys side track compound	15/01/2019	6.88	<5	None visible
		21/01/2019	7.87	<5	None visible
TB25.10N	Devitts Lane	No discharges in January 2019			
TB28900.N	Abernethy's Lane	15/01/2019	6.89	7	None visible
		29/01/2019	7.2	22	None visible
		30/01/2019	7.06	10	None visible

*\*Lab results for Total Suspended Solids limit of reporting = 5 mg/L*

## 5 AIR MONITORING RESULTS

Dust deposition gauges for the project were installed on 27 December 2018 and changed on the 29 January 2019 which is within the NATA accredited window (30 days +/- 2 days). Results are summarised in Table 5-1 below. No exceedances were recorded during this period.

**Table 5-1 January 2019 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	2.4	0.7	3.1
2-DDG B	10A Jaspers Brush Road, Jaspers Brush	1.4	0.7	2.1
3-DDG C	20C Strongs Road, Jaspers Brush	1.7	0.6	2.3
4-DDG D	10C Jaspers Brush Road, Jaspers Brush	1.2	1.0	2.2
5-DDG E	30 Ison Lane, Jaspers Brush	1.5	0.9	2.4
6-DDG F	Lot 209 DP 1210788	1.4	0.6	2.0
7-DDG H	10 Lamonds Lane, Meroo Meadow	2.3	0.3	2.5
8-DDG I	19 Boxsells Lane, Meroo Meadow	1.2	0.4	1.6
9-DDG J/K	265 Princes Highway, Meroo Meadow	1.1	0.4	1.5
10-DDG L	1028 Meroo Meadow, Meroo Meadow	2.1	0.4	2.5
11-DDG M	32 Elvin Drive, Bomaderry	1.2	0.3	1.5
12-DDG N	9 Devitt's Lane, Meroo Meadow	1.7	0.8	2.5
13-DDG P	24 Abernethys Lane, Meroo Meadow	1.6	0.3	1.9

## 6 NOISE MONITORING RESULTS

Noise monitoring was undertaken in accordance with the Construction Noise and Vibration Management Plan (CNVMP) for the project in January 2019. Noise monitoring was also undertaken for high noise activities occurring nearby to a residence at Lamonds Lane, Meroo Meadow on the 16/01/2019, and for out of hours construction works for the installation of concrete barriers at Strongs Road, Jaspers Brush on the 23/01/2019. Predicted noise levels for these works had previously been modelled in the CNVMP and a noise assessment produced by Hutchison Weller respectively. Neither of these works generated noise levels above predicted levels for the activities at these locations.

The results of January noise monitoring are summarised in Table 6-1 below.

**Table 6-1 January 2019 Noise Monitoring Results**

EPA ID No.	Location description	Construction activity	Date	Time	L(A) <sub>eq</sub> 15min	Comments
15	L1 - B210 Princes Highway, Jaspers	Nil – no construction activity nearby	17/01/2019	9:33 9:48	71	Traffic noise dominating, cars, trucks and motorbikes. Magpie warbling, crickets chirping.
16	L2 - 20C Strongs Road, Jaspers Brush	Nil – no construction activity nearby	17/01/2019	9:08 9:23	59.6	Traffic noise dominating, cars, trucks and motorbikes.

EPA ID No.	Location description	Construction activity	Date	Time	L(A) <sub>15min</sub> eq	Comments
17	L3 - 30 Ison Lane, Jaspers Brush	Compound operation	17/01/2019	8:45 9:00	50.9	Traffic noise dominating, cars, trucks and motorbikes. Crickets and birds chirping
18	L5 - 15 Turner Lane, Jaspers Brush	Piling, Earthworks	21/01/2019	12:16 12:31	58.9	Franna crane reversing squawker, rock delivery (one occurrence), delivery unload of piling casing, excavator operating. Traffic noise dominating cars, trucks, motorbikes. Birds and insects calling, traffic nearby on Turners Lane (3 occurrences)
19	L6 - B710 Princes Highway, Jaspers Brush	Nil – no construction activity nearby	21/01/2019	11:38 11:58	55.7	Traffic noise dominating, cars, trucks and motorbikes. Crickets and cicadas chirping.
20	L7 - 310C Princes Highway, Jaspers Brush	Nil – no construction activity nearby	21/01/2019	12:55 13:10	67.2	Traffic noise dominating, cars, trucks and motorbikes. Birds and insects calling.
21	BG08 - 19 Boxsells Lane, Meroo Meadow	Nil – no construction activity nearby	21/01/2019	11:10 11:25	56.3	Traffic driving past on roadway 5m away (7 occurrences). Crickets and cicadas calling. Highway traffic barely audible
22	BG09 - 1028 Meroo Road, Meroo Meadow	Earthworks	21/01/2019	13:23 13:38	53.7	Moxy moving in area, reversing beeper, truck and dogs entering/exiting over cattle grid. Traffic from Meroo Road, cars, trucks, motorbikes.
23	L8 - 24 Abernethys Lane, Meroo Meadow	Earthworks – Bulldozer operating, vehicles moving on haul road	21/01/2019	10:44 10:59	59.5	Construction activity noise – bulldozer operating 200m away. Reversing squawker from vehicle on haul road (2 occurrences) Traffic noise dominating, cars, trucks and motorbikes.
24	BG10 - 35 Gardenia Crescent, Bomaderry	Nil – no construction activity nearby	21/01/2019	9:46 10:01	51.1	Residents in area; Talking, mowing lawn, using garden blower. Cars nearby (3 occurrences)
25	BG11 - 38 Elvin Drive, Bomaderry	Nil – no construction activity nearby	21/01/2019	10:17 10:32	58.1	Traffic noise dominating cars, trucks, motorbikes. Birds and insects calling.

#### High noise activity monitoring nearby to a residence

N/A	10 Lamonds Lane, Meroo Meadow	Earthworks	16/01/2019	9:32 9:47	68.3	Excavator working, angle grinder (once), sledgehammer (4 times), truck being loaded with rocks (3 times), refuelling truck arriving, star picket being driven (twice). Below predicted case from CNVMP for earthworks at this location.
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EPA ID No.	Location description	Construction activity	Date	Time	L(A) <sub>eq</sub> 15min	Comments
<b>Out of Hours Work (OOHW) Noise Monitoring</b>						
16	20C Strongs Road, Jaspers Brush	Installation of concrete safety barriers.	23/01/2019	22:25 22:50	49.8	Chains from truck rattling as truck was unloaded, reversing squawker from Franna crane reversing semi arriving later in monitoring period. Traffic with light and heavy vehicles, crickets. Activity below LAeq predicted from noise assessment.
N/A	10D Jaspers Brush Road, Jaspers Brush	Installation of concrete safety barriers.	23/01/2019	22:35 22:50	53.7	Semi-trailer arriving, chains from truck rattling as truck was unloaded, reversing squawker from Franna crane reversing. Traffic with light and heavy vehicles. Activity below LAeq predicted from noise assessment and background level (LAeq = 57.3) taken prior at this location.
N/A	10D Jaspers Brush Road, Jaspers Brush	Installation of concrete safety barriers.	23/01/2019	21:15 21:30	55	Semi-trailer arriving, chains from truck rattling as truck was unloaded, reversing squawker from Franna crane reversing. Traffic with light and heavy vehicles. Exceeding NML but traffic noise dominating - refer to previous background level with LAeq (15) higher than construction activities
N/A	10D Jaspers Brush Road, Jaspers Brush	Installation of concrete safety barriers.	23/01/2019	21:02 21:12	57.3	Background level taken during a period of no construction (awaiting arrival of another semi-trailer) Traffic noise with light and heavy vehicles.
16	20C Strongs Road, Jaspers Brush	Installation of concrete safety barriers.	23/01/2019	19:52 20:17	54.2	Construction activities not audible as traffic noise dominating. Traffic noise with light and heavy vehicles.

## 7 ENVIRONMENTAL COMPLAINTS

There were three environmental complaints received in January, all were closed out within the required timeframes and have not been the subject of further complaint at time of submission.

**Table 7-1 January 2019 Environmental Complaints**

Complaint No.	Date/time complaint received	Nature of Complaint	Actions and due date	Status/timing
1	18/01/2019	Dust generation along a haul road near a resident at Strongs Road	Supervisor in area advised of complaint and vehicle movements were reduced. Water cart was sent to haul road to manage with more regular spraying.	Closed – progressively managed.
2	22/01/2019	Resident complained mulch was being stockpiled on land to be transferred to them after the end of the project	Investigation from DSWJV Environmental team found that the area being stockpiled in was outside of approved ancillary facilities although still within EPL boundary. The stockpiles were removed from the area the following day.	Closed following day
3	29/01/2019	Grass/vegetation along verge of road obscuring residents view of road.	Resident at Croziers Road informed that grass cutting taking place on other parts of the project would soon progress to this road. In accordance with Weed Management Plan weeds in this area were to be poisoned on recent recommendations by project ecologists.	Closed within two days

