

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – March 2018

1 ENVIRONMENT PROTECTION LICENCE – DETAILS

The Environment Protection Licence for the Ellerton Drive Project (No. 20852) can be viewed on the EPA website [here](#).

The Licensee is:

WBHO Infrastructure Pty Ltd
580 St Kilda Road
Melbourne VIC 3004

2 SEDIMENT BASIN DISCHARGE – WATER MONITORING

One sediment basin was discharged during the month of March 2018. Concentration limits are outlined below. The details of monitoring undertaken are provided in Table 1.

Concentration limits: pH: 6.5 – 8.5
 TSS: 50 mg/L
 Oil and grease: Not visible

Table 1 Sediment basin discharge monitoring

Basin ID	Date	Total Suspended Solids (TSS) (mg/L)	Turbidity (NTU)	pH	Oil and grease	Comments
700 R	01/03/2018	32	63	6.59	Not visible	No discharge on this day
700R	02/03/2018	-	61	6.64	Not visible	Discharged
700R	03/03/2018	-	58	6.63	Not visible	Discharged

3 DUST MONITORING

Under Condition M2.2 of EPL 20852, dust must be monitored monthly at each monitoring point.

Ten (10) dust monitoring gauges (DMGs) were in operation during the period February 2018 – March 2018. Dust jars were collected on 13 March 2018 for laboratory analysis.

Dust samples were collected from gauges at the following locations in March 2018:

- NCA 2 – Sensitive receiver, Stonehaven Circuit
- NCA 3 – Sensitive receiver, Taylor Place
- NCA 4 – Sensitive receiver, Severne St
- NCA 5 – Sensitive receiver, Lonergan Drive
- NCA 6 – Sensitive receiver, Severne St
- NCA 7 – Sensitive receiver, Doeberl Place
- NCA 8 – Sensitive receiver, Barracks Flat Drive
- NCA 8 – Sensitive receiver, Alfred Place

The result of the dust monitoring is provided in Table 2 below.

Table 2 – Dust Monitoring

DMG ID		DMG 01	DMG 02	DMG 03	DMG 04	DMG 05	DMG 06	DMG 07	DMG 08	DMG 09	DMG 10*		
NCA (catchment area)		NCA 1	NCA 2	NCA 3	NCA 4	NCA 5	NCA 6	NCA 7	NCA 8	NCA 8	NCA 5		
EPL identifier		2	4	5	6	n/a	8	9	10	11	7		
Start date of sampling		9/2/2018	9/2/2018	9/2/2018	9/2/2018	9/2/2018	9/2/2018	9/2/2018	9/2/2018	9/2/2018	9/2/2018		
End date of sampling		13/3/2018	13/3/2018	13/3/2018	13/3/2018	13/3/2018	13/3/2018	13/3/2018	13/3/2018	13/3/2018	13/3/2018		
Analyte	Unit	Levels of concern	LOR										
Ash content	g/m ² .month	4	0.05	0.96	0.74	2.97	0.54	0.79	0.68	0.53	0.58	0.84	26.4
Combustible matter	g/m ² .month		0.2	0.6	0.3	0.3	0.4	0.7	0.2	0.3	0.2	0.6	4.2
Total insoluble matter	g/m ² .month	4	0.2	1.6	1	3.3	0.9	1.5	0.9	0.8	0.8	1.4	30.6
Total insoluble matter (annual average to date)	g/m ² .month	4		1.45	1.1	2.7	1	1.3	1.4	0.9	1	1.25	16.1

LOR = Limit of reporting

EPL = Environment Protection Licence

* The results for DMG 10 are not consistent with the results obtained from adjacent dust monitoring points for this monitoring period. WBHO are investigating this result and are consulting with the Environment Protection Authority (EPA).

4 NOISE MONITORING

Under Condition M2.4 of EPL 20852, noise monitoring at each monitoring point must be conducted monthly.

Noise monitoring was conducted at nine (9) sensitive receivers, within eight (8) Noise Catchment Areas (NCAs) during March 2018. The noise monitoring results are summarised in Table 3 below.

Table 3 Noise monitoring results March 2018

Noise monitoring location details	Measurement details		Measured noise levels dB(A) (15 minute sample)				Construction noise dominated?	Description of ambient noise sources	Construction noise generating activities
			LAeq	LA10	LA90	LAMax			
NCA 1	Date:	28/03/2018	48.5	48.5	45.5	69.4	Y	Birds. Traffic along existing Ellerton Drive.	Generator next to site sheds across the road. Trucks/ vehicles coming and going form site (max).
Thomas Royal Gardens	Start time:	3:54 PM							
EPL ID: 3	Run time (min):	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	27							
	Cloud cover:	1/8							
NCA 2	Date:	29/03/2018	46.2	49.5	35.0	62.4	N	Traffic along existing Ellerton Drive. Birds.	Some construction related traffic (but not majority).
Stonehaven Circuit	Start time:	11:38							
EPL ID: 12	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	24							
	Cloud cover:	0/8							
NCA 3	Date:	29/03/2018	49.9	52.5	43.0	62.0	Y	Birds. *Max recorded level was 62.0 but this was operator interference. Max construction noise recorded was 61.6.	Water truck spraying fill. Reverse squawkers on cars. Lv's driving along haul road. Compactor working on fill (dominant noise source). Compactor reversing for long periods (squawker).
Taylor Place	Start time:	9:26							
EPL ID: 13	Run time (min):	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	15							
	Cloud cover:	0/8							

Noise monitoring location details	Measurement details		Measured noise levels dB(A) (15 minute sample)				Construction noise dominated?	Description of ambient noise sources	Construction noise generating activities
			LAeq	LA10	LA90	LAMax			
NCA 4	Date:	29/03/2018	42.6	44.5	34.0	66.5	N	Aeroplanes overhead, particularly engines during takeoff. Cars on Severne street. Cars along nearby residential driveway.	Excavator started working nearby in the last minute of recording: 50-55dB(A). Other construction noise audible but very faint.
Severne Street	Start time:	10:02							
EPL ID: 14	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	18							
	Cloud cover:	0/8							
NCA 5	Date:	29/03/2018	47.3	49.0	45.5	59.1	Y	Birds. Chainsaw at a nearby house.	Large excavator working, filling dump trucks up the hill. Engine noise is loud (dominant noise source). Surveyors were hammering in pegs nearby.
Lonergan Drive	Start time:	10:35:00							
EPL ID: 15	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	20							
	Cloud cover:	0/8							
NCA 6	Date:	27/03/2018	48.4	51.5	43.5	57.1	Y	Birds. Insects.	Dozer and roller working 200m away. Trucks moving along haul roads to the north.
Severne Street	Start time:	1:38							
EPL ID: 16	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NE							
	Temp (°C):	20							
	Cloud cover:	0/8							
NCA 7	Date:	28/03/2018	40.7	43.0	36.5	60.0	N	Birds (max). Noise from a nearby property. Cars on Barracks Flat Drive.	Excavators working over the river - engine noise. Can hear reversing squawkers of plant.
Doeberl Pl	Start time:	9:51							
EPL ID: 17	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	14							
	Cloud cover:	5/8							

Noise monitoring location details	Measurement details		Measured noise levels dB(A) (15 minute sample)				Construction noise dominated?	Description of ambient noise sources	Construction noise generating activities
			LAeq	LA10	LA90	LAMax			
NCA 8 (A)	Date:	29/03/2018	50.2	52.0	46.5	60.3	N	Traffic along Old Cooma Rd. Traffic along Edwin Land Parkway. Magpie Lark calling from nearby (max).	Nil.
Alfred Place	Start time:	4:11							
EPL ID: 18	Run time:	15:00							
	Wind speed:	2.5 m/s							
	Wind direction:	WNW							
	Temp (°C):	30							
	Cloud cover:	0/8							
NCA 8 (B)	Date:	28/03/2018	43.1	38.5	33.5	70.8	N	Dog barking loudly next door (max).	Nil.
Barracks Flat Drive	Start time:	10:18							
EPL ID: 19	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	17							
	Cloud cover:	2/8							