

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – May 2019

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

Under Condition M2.3 of EPL 20852, water must be monitored daily during any discharge.

Several sediment basins were manually discharged during the month of May 2019. 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 (*if a statistical correlation is established between TSS and NTU, NTU may be used in place of TSS)
	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
700R	06/05/2019	38	50.5	8.28	Nil	Discharged
1940L	18/05/2019	n/a	73.1	7.55	Nil	Discharged
	21/05/2019	28	73.4	7.50	Nil	Discharged
Basin B	22/05/2019	n/a	25.9	8.30	Nil	Discharged
2780L	23/05/2019	n/a	84.1	7.31	Nil	Discharged
3390L	01/05/2019	n/a	59	7.81	Nil	Discharged
3520L	01/05/2019	17	55.2	8.15	Nil	Discharged
	09/05/2019	9	23.48	8.11	Nil	Discharged
3580R	22/05/2019	n/a	37.2	7.46	Nil	Discharged (upper pond)
	22/05/2019	n/a	18.7	7.2	Nil	Discharged (middle pond)
4040R	02/05/2019	15	49.4	7.91	Nil	Discharged
	08/05/2019	12	30.7	8.39	Nil	Discharged
	09/05/2019	9	15.68	7.93	Nil	Discharged
4600R	01/05/2019	n/a	86.7	7.81	Nil	Discharged
	08/05/2019	n/a	30.6	8.36	Nil	Discharged

n/a = TSS/NTU correlation applied

3 DUST MONITORING

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

Nine (9) dust monitoring gauges (DMGs) listed on EPL 20852 were in operation during the period April 2019 – May 2019.

Dust samples were collected from gauges at the following locations in May 2019:

- NCA 1 – DMG 01 - Sensitive receiver, Ellerton Drive
- NCA 2 – DMG 02 - Sensitive receiver, Stonehaven Circuit
- NCA 3 – DMG 03 - Sensitive receiver, Taylor Place
- NCA 4 – DMG 04 - Sensitive receiver, Severne St
- NCA 5 – DMG 05 - Sensitive receiver, Lonergan Drive
- NCA 6 – DMG 06 - Sensitive receiver, Severne St
- NCA 7 – DMG 07 - Sensitive receiver, Doeberl Place
- NCA 8 – DMG 08 - Sensitive receiver, Barracks Flat Drive
- NCA 8 – DMG 09 - 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	
		EPL identifier	2	4	5	6	7	8	9	10	11	
		Start date of sampling	18/04/2019	18/04/2019	18/04/2019	24/04/2019	18/04/2019	18/04/2019	18/04/2019	24/04/2019	24/04/2019	
		End date of sampling	17/05/2019	21/05/2019	17/05/2019	27/05/2019	17/05/2019	17/05/2019	17/05/2019	24/05/2019	31/05/2019	
Analyte	Unit	Level of concern	LOR									
Ash content	g/m ² .month	4	0.05	0.94	1.97	0.6	0.41	0.44	0.89	1.04	0.42	3.49
Combustible matter	g/m ² .month	n/a	0.2	0.3	0.3	0.2	0.4	0.2	0.3	0.4	0.2	1.3
Total insoluble matter	g/m ² .month	4	0.2	1.2	2.3	0.8	0.8	0.6	1.2	1.4	0.6	4.8
Total insoluble matter (annual average to date)	g/m ² .month	4		2.3	2.8	2.2	2.1	2.0	2.3	4.2	2.8	3.9

LOR = Limit of reporting

EPL = Environment Protection Licence

4 NOISE MONITORING

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

The noise monitoring results from the nominated monitoring locations are summarised in Table 3 below.

Table 3 Noise monitoring results May 2019

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:	23/05/2019	52.3	54.5	44.5	71.5	Y	Nil	Excavator Backhoe moving equipment Site vehicles entering/ exiting site
Thomas Royal Gd	Start time:	10:10 AM							
EPL ID: 3	Run time (min):	15:00							
	Wind speed:	< 1 m/s							
	Wind direction:	NW							
	Temp (°C):	10.5							
	Cloud cover:	2/8							
NCA 2	Date:	23/05/2019	54.7	57.5	45.5	73.4	Y	Nil	Grader working on existing Ellerton Drive Light vehicles Excavator ~50 away
Stonehaven Cct	Start time:	10:35							
EPL ID: 12	Run time:	15:00							
	Wind speed:	< 1 m/s							
	Wind direction:	NW							
	Temp (°C):	11							
	Cloud cover:	2/8							
NCA 3	Date:	22/05/2019	47.5	54.0	46.5	72.1	Y	Birds	Excavator tracking past Backhoe moving equipment Light vehicles and trucks through the cut
Taylor Place	Start time:	10:36							
EPL ID: 13	Run time (min):	15:00							
	Wind speed:	< 1m/s							
	Wind direction:	NE							
	Temp (°C):	13.5							
	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:	21/05/2019	46.9	49.0	44.0	60.6	Y	Birds Traffic on Severne Street Planes	Grader, excavator Water cart Haul trucks (HBB)
Severne Street	Start time:	7:43							
EPL ID: 14	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NE							
	Temp (°C):	10							
	Cloud cover:	2/8							
NCA 5	Date:	22/05/2019	52.0	54.0	46.5	72.1	Y		Crane moving items Hand tools Light vehicles Earthworks Abutment B audible
Lonergan Drive	Start time:	11:11							
EPL ID: 15	Run time:	15:00							
	Wind speed:	< 1m/s							
	Wind direction:	NE							
	Temp (°C):	14.5							
	Cloud cover:	0/8							
NCA 6	Date:	21/05/2019	55.4	58.5	48.0	70.8	Y	Birds	Grader Backhoe moving equipment Sidetippers Water cart Fuel cart Haul trucks (HBB)
Severne Street	Start time:	8:08							
EPL ID: 16	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	10							
	Cloud cover:	1/8							
NCA 7	Date:	28/05/2019	52.7	55.0	46.0	74.3	Y	Birds	Excavator working upslope on on-ramp Activities at Pier 3 concrete pour
Doeberl PI	Start time:	11:41							
EPL ID: 17	Run time:	15:00							
	Wind speed:	4 - 5 m/s							
	Wind direction:	NW							
	Temp (°C):	9							
	Cloud cover:	1/8							

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:	28/05/2019	51.5	54.5	43.5	69.9	Y	Traffic on Edwin Land Parkway Traffic on Old Cooma Road Old Cooma Road duplication works.	Works occurring at watermain near culvert 12. Vehicles and trucks entering and leaving site. Hand tools.
Alfred Place	Start time:	14:37							
EPL ID: 18	Run time:	15:00							
	Wind speed:	4-5 m/s							
	Wind direction:	NW							
	Temp (°C):	9							
	Cloud cover:	8/8							
NCA 8 (B)	Date:	24/05/2019	59.4	62.0	48.8	79.9	Y	Traffic on Barracks Flat Drive	Excavator working nearby Haul trucks through site Light vehicles Water cart Loader
Barracks Flat Dr	Start time:	9:07							
EPL ID: 19	Run time:	15:00							
	Wind speed:	< 1 m/s							
	Wind direction:	NW							
	Temp (°C):	7							
	Cloud cover:	7/8							