

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – April 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 April 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	05.04.2019	n/a	27	8.02	Nil	Discharged
	06.04.2019	n/a	29	8.11	Nil	Discharged
	26.04.2019	43	59.4	8.21	Nil	Discharged
1940L	15.04.2019	n/a	75.5	7.44	Nil	Discharged
	16.04.2019	n/a	71.3	7.52	Nil	Discharged
	30.04.2019	n/a	40.7	7.62	Nil	Discharged
Basin B	08.04.2019	n/a	36.7	8.15	Nil	Discharged
	09.04.2019	n/a	34	8.22	Nil	Discharged
	29.04.2019	n/a	39.5	7.86	Nil	Discharged
2780L	17.04.2019	18	43.2	8.41	Nil	Discharged
	18.04.2019	18	41.1	8.33	Nil	Discharged
	29.04.2019	n/a	92.5	8.21	Nil	Discharged
2960L	04.04.2019	n/a	43.3	8.2	Nil	Discharged
	26.04.2019	n/a	41.4	7.06	Nil	Discharged
4600R	26.04.2019	n/a	18.9	7.91	Nil	Discharged

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 March 2019 – April 2019.

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

- NCA 1 – Sensitive receiver, Ellerton Drive
- 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

Note: At collection, DMG 04 at NCA 4 was found to be broken. No result is available for this period.

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 9	
		EPL identifier	2	4	5	6	7	8	9	10	11	
		Start date of sampling	21/03/2019	22/03/2019	21/03/2019	22/03/2019	21/03/2019	21/03/2019	19/03/2019	22/03/2019	25/03/2019	
		End date of sampling	18/04/2019	18/04/2019	18/04/2019	18/04/2019	18/04/2019	18/04/2019	18/04/2019	24/04/2019	24/04/2019	
Analyte	Unit	Level of concern	LOR									
Ash content	g/m ² .month	4	0.05	0.66	2.32	2.09	No result	0.6	0.45	1.35	0.94	2.72
Combustible matter	g/m ² .month	n/a	0.2	0.3	0.5	0.7	No result	0.6	0.2	0.4	0.5	0.9
Total insoluble matter	g/m ² .month	4	0.2	1	2.8	2.8	No result	1.2	0.7	1.8	1.4	3.6
Total insoluble matter (annual average to date)	g/m ² .month	4		2.4	2.8	2.4	2.1	2.2	2.4	4.3	2.9	3.7

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 April 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:	30/04/2019	55.6	58.0	46.0	79.6	Y		Trucks travelling into and out of site Light vehicles through Gate 1 Excavator working in Cut A Vehicle entering parking area with trailer (max)
Thomas Royal Gd	Start time:	2:34 PM							
EPL ID: 3	Run time (min):	15:00							
	Wind speed:	3-4 m/s							
	Wind direction:	NW							
	Temp (°C):	20							
	Cloud cover:	3/8							
NCA 2	Date:	30/04/2019	47.1	50.0	43.5	61.2	Y		Sidetippers travelling along Ellerton Drive
Stonehaven Cct	Start time:	15:41							
EPL ID: 12	Run time:	15:00							
	Wind speed:	3-4 m/s							
	Wind direction:	NW							
	Temp (°C):	20							
	Cloud cover:	4/8							
NCA 3	Date:	29/04/2019	53.7	57.5	41.5	75.5	Y		Sidetippers moving through site Site traffic, service trucks, water carts Backhoe moving materials
Taylor Place	Start time:	10:52							
EPL ID: 13	Run time (min):	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	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:	29/04/2019	42.6	43.5	35.0	65.6	Y	Birds	Excavator working, and reversing alarm Sidetippers moving through site Light traffic
Severne Street	Start time:	11:44							
EPL ID: 14	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	Temp (°C):	17							
	Cloud cover:	1/8							
NCA 5	Date:	18/04/2019	48.9	50.5	44.5	69.7	Y		Soil nailing at the bridge site (excavator) Bridge formwork preparation Crane
Loneragan Drive	Start time:	12:39:00							
EPL ID: 15	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	Temp (°C):	23							
	Cloud cover:	0/8							
NCA 6	Date:	29/04/2019	52.0	53.5	42.0	77.3	Y	Birds	Sidetippers moving through site Site traffic, service trucks, water carts Backhoe moving materials
Severne Street	Start time:	10:21							
EPL ID: 16	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NE							
	Temp (°C):	13							
	Cloud cover:	0/8							
NCA 7	Date:	30/04/2019	53.1	55.0	47.0	78.6	Y	Birds (max)	Excavator at Abutment B track rolling Crane at the bridge Excavator at the bridge Soil nailing works at bridge Watercart
Doeberl Pl	Start time:	11:04							
EPL ID: 17	Run time:	15:00							
	Wind speed:	1-2 m/s							
	Wind direction:	NW							
	Temp (°C):	16							
	Cloud cover:	2/8							

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:	29/04/2019	58.2	60.5	47.0	78.1	Y	Traffic on Old Cooma Road Traffic on Edwin Land Parkway Dog barking directly next door	Machines warming up Bulldozer working on Fill 9
Alfred Place	Start time:	7:23							
EPL ID: 18	Run time:	15:00							
	Wind speed:	Calm							
	Wind direction:	Calm							
	Temp (°C):	5							
	Cloud cover:	0/8							
NCA 8 (B)	Date:	29/04/2019	42.7	44.0	37.5	70.1	Y		Sidetippers and haul trucks through site Watercart Excavators working in distance
Barracks Flat Dr	Start time:	14:49							
EPL ID: 19	Run time:	15:00							
	Wind speed:	1 m/s							
	Wind direction:	NW							
	Temp (°C):	20							
	Cloud cover:	0/8							