

Ellerton Drive Extension

Environment Protection Licence 20852



EPL Monitoring data – January 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.

Two sediment basins were manually discharged during the month of January 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 |
| 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 | 07.01.2019 | 9 | 27.6 | 8.44 | Not visible | Discharged |
| 1640L | 22.01.2019 | 16 | 24.3 | 7.88 | 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) listed on EPL 20852 were in operation during the period December 2018 – January 2019.

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

- 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 1 below.

Table 1 – Dust Monitoring

| | | DMG ID | DMG 01 | DMG 02 | DMG 03 | DMG 04 | DMG 05 | DMG 06 | DMG 07 | DMG 08 | DMG 09 | DMG 10 | |
|--|-------------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| EPL identifier | | 2 | 4 | 5 | 6 | n/a | 8 | 9 | 10 | 11 | 7 | | |
| Start date of sampling | | 17/12/2018 | 17/12/2018 | 17/12/2018 | 17/12/2018 | 17/12/2018 | 17/12/2018 | 17/12/2018 | 17/12/2018 | 18/12/2018 | 17/12/2018 | 17/12/2018 | |
| End date of sampling | | 18/01/2019 | 21/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | 18/01/2019 | |
| Analyte | Unit | Level of concern | LOR | DMG 01 | DMG 02 | DMG 03 | DMG 04 | DMG 05 | DMG 06 | DMG 07 | DMG 08 | DMG 09 | DMG 10 |
| Ash content | g/m ² .month | 4 | 0.05 | NR | 3.02 | 2.61 | 2.84 | 3.11 | 3.74 | 3.22 | 2.92 | 3.75 | 3.28 |
| Combustible matter | g/m ² .month | n/a | 0.2 | NR | 0.7 | 0.7 | 1 | 0.9 | 1.5 | 0.8 | 0.7 | 1.4 | 1.1 |
| Total insoluble matter | g/m ² .month | 4 | 0.2 | NR | 3.7 | 3.3 | 3.8 | 4 | 5.2 | 4 | 3.6 | 5.2 | 4.4 |
| Total insoluble matter (annual average to date) | g/m ² .month | 4 | | 2.0 | 2.0 | 2.2 | 1.6 | 2.1 | 2.3 | 3.4 | 2.4 | 2.7 | 12.0* |

LOR = Limit of reporting

EPL = Environment Protection Licence

NR = No result. DMG 01 was damaged in transit and the sample could not be retrieved for analysis.

* Outlying results were returned from this monitoring point between February and May 2018, contributing to a high annual average result. Outlying results were investigated in consultation with the EPA and Roads and Maritime Services.

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 2 below.

Table 2 Noise monitoring results January 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: | 23.01.2019 | 51.8 | 55.0 | 41.0 | 71.5 | Y | Birds | Bobcat broom on Ellerton Drive Vehicles entering and leaving site |
| Thomas Royal Gd | Start time: | 12:08 PM | | | | | | | |
| EPL ID: 3 | Run time (min): | 15:00 | | | | | | | |
| | Wind speed: | 2-3 m/s | | | | | | | |
| | Wind direction: | SW | | | | | | | |
| | Temp (°C): | 33 | | | | | | | |
| | Cloud cover: | 7/8 | | | | | | | |
| NCA 2 | Date: | 31.01.2019 | 47.3 | 49.0 | 36.5 | 64.7 | Y | Birds Light rustling of trees | Construction vehicles and trucks along Ellerton Dr Workers talking Compound activity |
| Stonehaven Cct | Start time: | 15:40 | | | | | | | |
| EPL ID: 12 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 4-5 m/s | | | | | | | |
| | Wind direction: | NW | | | | | | | |
| | Temp (°C): | 32 | | | | | | | |
| | Cloud cover: | 6/8 | | | | | | | |
| NCA 3 | Date: | 30.01.2019 | 45.9 | 49.0 | 36.0 | 64.1 | Y | Property owner speaking nearby | Water truck spraying batters Grader on Fill 2 |
| Taylor Place | Start time: | 9:50 | | | | | | | |
| EPL ID: 13 | Run time (min): | 15:00 | | | | | | | |
| | Wind speed: | 2 m/s | | | | | | | |
| | Wind direction: | NW | | | | | | | |
| | Temp (°C): | 26 | | | | | | | |
| | 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: | 23.01.2019 | 39.8 | 42.0 | 35.5 | 54.4 | Y | Birds Cicadas | Grader and scraper working in distance |
| Severne Street | Start time: | 11:10 | | | | | | | |
| EPL ID: 14 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 1 m/s | | | | | | | |
| | Wind direction: | SW | | | | | | | |
| | Temp (°C): | 32 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 5 | Date: | 31.01.2019 | 56.2 | 57.5 | 39.0 | 77.3 | Y | Birds Rustling of tree branches Occasional traffic on Barracks Flat Drive | Crane moving Vehicles moving Workers using hand tool at the bridge site A radio Construction machinery operating over the river |
| Loneragan Drive | Start time: | 13:29:00 | | | | | | | |
| EPL ID: 15 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 5 m/s | | | | | | | |
| | Wind direction: | NW | | | | | | | |
| | Temp (°C): | 32 | | | | | | | |
| | Cloud cover: | 4/8 | | | | | | | |
| NCA 6 | Date: | 23.01.2019 | 55.2 | 57.5 | 50.5 | 67.7 | Y | Birds Cicadas | Scraper, dozer, grader, service truck |
| Severne Street | Start time: | 10:49 | | | | | | | |
| EPL ID: 16 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 1 m/s | | | | | | | |
| | Wind direction: | SW | | | | | | | |
| | Temp (°C): | 31 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |
| NCA 7 | Date: | 30.01.2019 | 68.6 | 73.0 | 54.5 | 82.8 | y | Birds | Rock crushing plant Excavator Dump truck |
| Doeberl Pl | Start time: | 10:36 | | | | | | | |
| EPL ID: 17 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 2-3 m/s | | | | | | | |
| | Wind direction: | NW | | | | | | | |
| | Temp (°C): | 27 | | | | | | | |
| | 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 8 (A) | Date: | 31.01.2019 | 55.0 | 54.0 | 33.0 | 73.2 | Y | Traffic on Old Cooma Road Traffic on Edwin Land Parkway Birds and dogs | Machine being loaded onto truck Vehicles & trucks entering and exiting the site Water cart operating |
| Alfred Place | Start time: | 14:23 | | | | | | | |
| EPL ID: 18 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 5 m/s | | | | | | | |
| | Wind direction: | NW | | | | | | | |
| | Temp (°C): | 33 | | | | | | | |
| | Cloud cover: | 4/8 | | | | | | | |
| NCA 8 (B) | Date: | 31.01.2019 | 57.7 | 59.0 | 55.5 | 62.5 | Y | Birds and dogs next door | Rock screener and excavator Dump truck |
| Barracks Flat Dr | Start time: | 12:54 | | | | | | | |
| EPL ID: 19 | Run time: | 15:00 | | | | | | | |
| | Wind speed: | 3-4 m/s | | | | | | | |
| | Wind direction: | NW | | | | | | | |
| | Temp (°C): | 32 | | | | | | | |
| | Cloud cover: | 0/8 | | | | | | | |