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Via Email: hayden@mostyncopper.com.au

Dear Hayden

**ATC ROSEHILL GARDENS / BACKGROUND MONITORING AND EIS FEEDBACK**  
**REFERENCE NUMBER: MOC-01-17575.L01**

SLS was commissioned by Mostyn Copper on behalf of the ATC to undertake a check on the monitoring of vibrations, noise and dust deposition and produce the monitoring data trends for the area of the equine stables within Rosehill Gardens.

Typical traces are attached and show trending levels of between 0.05mm/s and 0.9mm/s for vibration and 41 to 67dB range for noise. Human lower limit perception of vibration is between 0.1 and 0.15 mm/s. For an equine Receptor literature suggests this to be an order of a magnitude lower, placing it from 0.01mm/s.

Monitoring locations were established in the proximity of the stables for the objective of assessing an expected south-east approach beneath the stables, from the acquired Paramatta Raceway site which was anticipated as the dive site, of the tunnel boring machine (TBM). Positioning of the meters had been to record in real time and as far as practicable, the "experience" of the horses under normal conditions, to establish a baseline prior to substantial tunnelling works commencing for the Metro Project. The data would be available to ATC and an Equine Experts to correlate with local site activities and horse stress observations, if not stress monitoring.

In designing the monitoring program, SLS were requested to consider the route of the tunnel boring works which was considered most likely to disturb the horses due to vibration of the ground in very close proximity; the route plan held by ATC effectively showing the TBM passing beneath the stables.

There is limited available literature describing the effects of construction (noise or vibration) on an equine Receptor, however there is widely published understanding that both:

- 1) vibrations are felt at an order of magnitude more sensitively than in humans that can cause the horse stress; and
- 2) sudden noise and changes stress the animal.

The EIS document indicates a trigger level of 60dB, this being an average. Construction work involving piling will result in percussive, sudden onset, audible noise above 60dB in its immediate locality according to 2) above has the potential to stress the Equine Receptors. Further, the piling activity generates significant local vibration from the North and West of these Receptors. How the equine Receptor, of which there are reportedly 400 stabled at Rosehill Gardens, will experience this and at what level of either noise or vibration will cause stress, is not known.

Significantly, the initial scope was to offer monitoring data on the premise of an underground TBM approach and we have sited instruments accordingly, the interim results from which are attached. There remains uncertainty regarding the trigger levels in the EIS, and whether they are protective of the horses stabled within the Site. This requires further, targeted investigation to inform additional requirements and protection measures, including initial discussion with Metro for their work Method, locations, timing to decide optimal monitoring instrumentation siting.

Having said this, setting averages based on the human receptor for outdoor levels as trigger levels, such as the 60dB in the EIS however, is not considered meaningful given concern 2) above, and it is our opinion that Sydney Metro need to consult further with the equine veterinary experts and thoroughbred industry to determine more appropriate trigger levels at which to abate works and improve controls which may need to include observation – based triggers in this scenario.

Yours faithfully



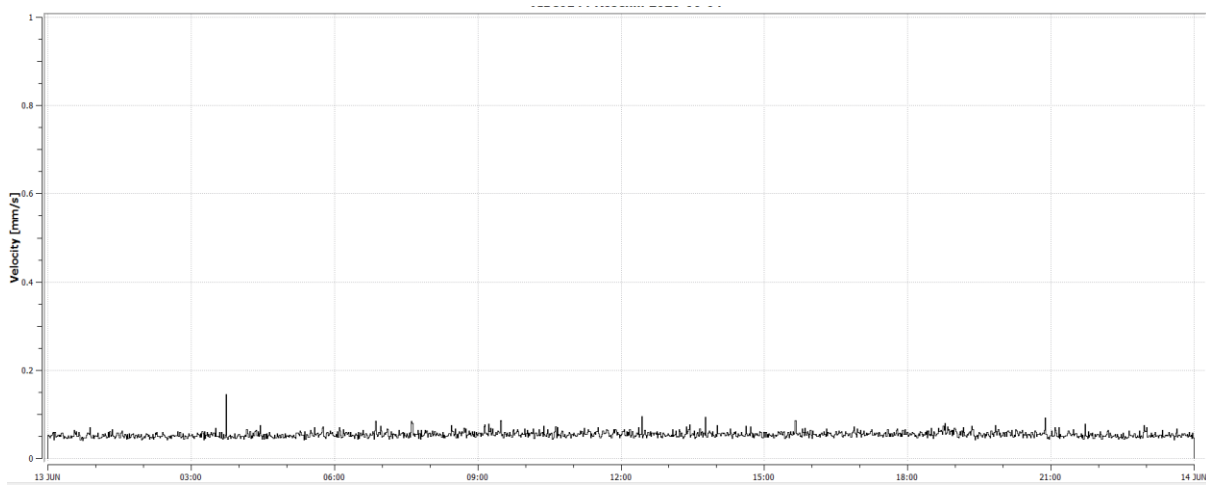
Francesc Gomis  
Principal Occupational Hygienist  
Head- Health & Safety Services



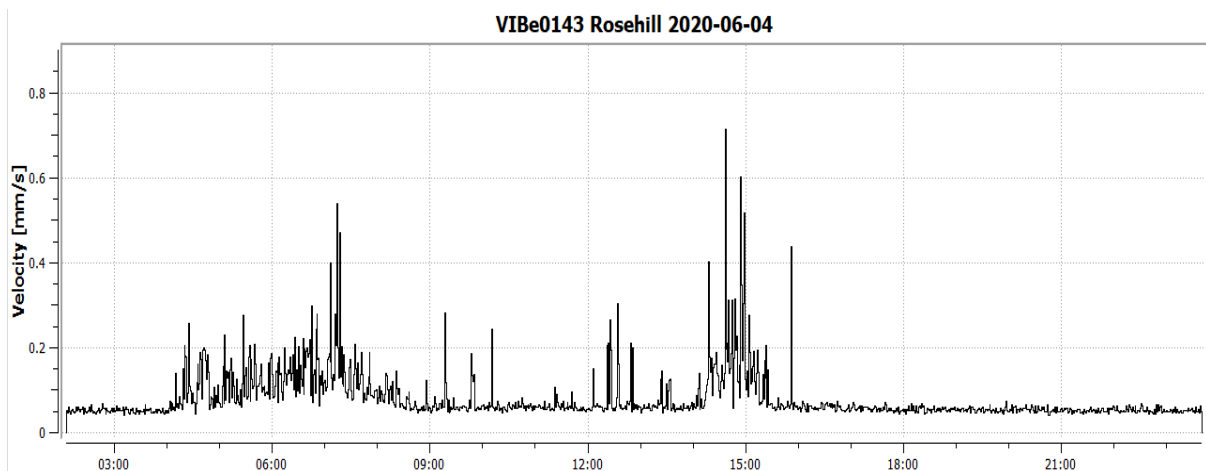
Marjetica McAuley  
Project Director  
Head- Health & Safety Services

**Encl:**

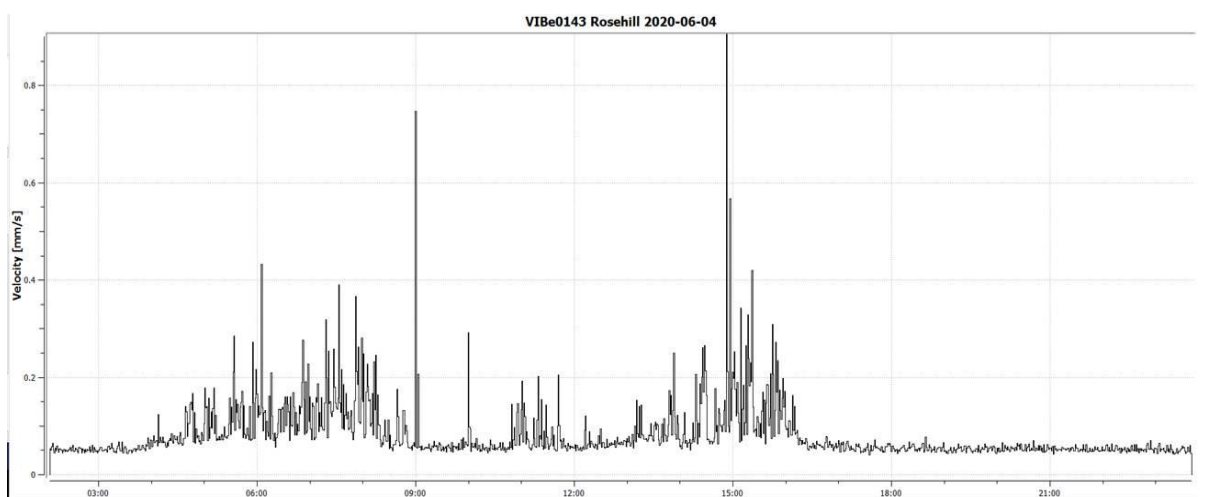
Vibration monitoring trends  
Sound level trends



Vibration Trend for 13<sup>th</sup> June 2020



Vibration Trend 16<sup>th</sup> June 2020



Vibration Trend 11<sup>th</sup> June 2020

The approximate values expected for piling are from 1 to 3 mm/s at distances of 25 m to 50 m

**Table 15.1**  
**Approximate generated vibration levels for various sources**

Activity	Typical levels of ground vibration
Vibratory rollers	Up to 1.5 mm/s at distances of 25 m Higher levels could occur at closer distances; however, no damage would be expected for any building at distances greater than approximately 12 m (for a medium to heavy roller)
Hydraulic rock breakers (levels typical of a large rock breaker operating in hard sandstone)	4.50 mm/s at 5 m 1.30 mm/s at 10 m 0.4 mm/s at 20 m 0.10 mm/s at 50 m
Compactor	20 mm/s at distances of approximately 5 m, 2 mm/s at distances of 15 m. At distances greater than 30 m, vibration is usually below 0.3 mm/s
Pile driving/removal	1 to 3 mm/s at distances of 25 m to 50 m depending on soil conditions and the energy of the pile driving hammer  These levels are well below the threshold of any possibility of damage to structures in the vicinity of these works. At closer distances to the piling operations, some compaction of loose fill would occur due to vibratory effects
Bulldozers	1 to 2 mm/s at distances of approximately 5 m. At distances greater than 20 m, vibration is usually below 0.2 mm/s
Air track drill	4 to 5 mm/s at a distance of approximately 5 m, and 1.5 mm/s at 10 m. At distances greater than 25 m, vibration is usually below 0.6 mm/s, and at 50 m or more, vibration is usually below 0.1 mm/s
Truck traffic (over normal (smooth) road surfaces)	0.01 to 0.2 mm/s at the footings of buildings located 10 to 20 m from a roadway
Truck traffic (over irregular surfaces)	0.1 to 2.0 mm/s at the footings of buildings located 10 m to 20 m from a roadway

**Table 15.2**  
**Vibration and human perception of motion**

Approximate vibration level (mm/s)	Degree of perception
0.10	Not felt
0.15	Threshold of perception
0.35	Barely noticeable
1.0	Noticeable
2.2	Easily noticeable
6.0	Strongly noticeable

*Note: The approximate vibrations (in floors of buildings) are for vibration having frequency content in the range of 8 Hz to 80 Hz.*

# ATC Rosehill Gardens (L<sub>Aeq</sub>-15min)

08-05-2020 to 15-06-2020



	Fri 8/05/2020	Sat 9/05/2020	Sun 10/05/2020	Mon 11/05/2020	Tue 12/05/2020	Wed 13/05/2020	Thu 14/05/2020
00:00 to 00:15	0	57.5	48.9	47.9	60.8	58.4	58.9
00:15 to 00:30	0	57.6	50.4	54.8	60.1	62.6	60.7
00:30 to 00:45	0	60.8	49.2	50.6	60.7	60.8	60.9
00:45 to 01:00	0	59.3	48.3	54	0	59.2	60
01:00 to 01:15	0	56.6	48.2	46.1	0	57.5	61.3
01:15 to 01:30	0	57.9	51.6	53.4	0	56.2	58.8
01:30 to 01:45	0	58.7	55.9	55.1	0	57.3	58.2
01:45 to 02:00	0	59.3	50.2	55.7	0	58	62.5
02:00 to 02:15	0	59.3	51.7	51.3	0	58.2	55.4
02:15 to 02:30	0	60.2	51.2	55.4	0	58.8	60.7
02:30 to 02:45	0	60.6	51.1	49.4	0	54.3	57.1
02:45 to 03:00	0	61	51.8	55.5	0	57.6	59.9
03:00 to 03:15	0	59.4	53.4	49.9	0	58.4	59.3
03:15 to 03:30	0	55.8	55.4	55.8	0	60.2	58.7
03:30 to 03:45	0	55.9	48	53.2	0	57.8	58.5
03:45 to 04:00	0	56.2	53.7	60	0	58.7	58
04:00 to 04:15	0	58.1	47.7	55.8	0	58.1	58.6
04:15 to 04:30	0	58	54.6	59.1	0	59.2	60.4
04:30 to 04:45	0	58.3	48.2	60.2	0	59.5	60.5
04:45 to 05:00	0	53.1	52.2	60.8	0	61.4	59.9
05:00 to 05:15	0	59	52	62	0	62.2	61.9
05:15 to 05:30	0	57.5	53	61.3	0	61.7	61
05:30 to 05:45	0	56.1	57.1	62.3	0	61.6	62.5
05:45 to 06:00	0	56.9	56.4	62.6	0	62.9	62.3
06:00 to 06:15	0	61.7	53.7	64.6	0	64	62.4
06:15 to 06:30	0	59.4	51.6	63.7	0	64.4	63.1
06:30 to 06:45	0	58.5	55.2	62.8	0	0	63.5
06:45 to 07:00	0	59.9	64.1	64.1	0	0	64.6
07:00 to 07:15	0	59.9	60	64.2	0	0	63.7
07:15 to 07:30	0	60.3	54.1	64.7	0	0	62.5
07:30 to 07:45	0	62.6	56	64.9	0	0	64
07:45 to 08:00	0	62	56.9	64.7	0	0	63.3
08:00 to 08:15	0	61.4	57.9	64.3	0	0	63.2
08:15 to 08:30	0	62.7	58.1	65.5	0	0	64.3
08:30 to 08:45	0	62	58.4	64.1	0	0	64.6
08:45 to 09:00	0	62.2	60.4	66.5	0	0	64.2
09:00 to 09:15	0	64.3	59	63.8	0	0	66
09:15 to 09:30	0	62.4	60.5	65	0	0	62.3
09:30 to 09:45	0	62.4	58.8	64.6	0	0	64.8
09:45 to 10:00	0	63.5	59.9	65	0	0	64.9
10:00 to 10:15	0	63.5	59	66.6	0	0 n.a	
10:15 to 10:30	0	62	58.4	64.4	0	0 n.a	
10:30 to 10:45	0	58.1	57.4	64.2	0	63.8 n.a	
10:45 to 11:00	0	60.4	57	64.7	0	65.2 n.a	
11:00 to 11:15	0	60.3	55.4	64.6	0	63 n.a	
11:15 to 11:30	0	58.8	55.3	64.9	0	63.3 n.a	
11:30 to 11:45	0	62.3	56.2	64.7	0	62.8 n.a	
11:45 to 12:00	0	58.6	55.7	65.2	64	63.4 n.a	
12:00 to 12:15	63.8	58.1	54.9	64.1	64.6	65	63.2
12:15 to 12:30	64.3	60.6	55.1	64.2	64.3	63.5	64.6
12:30 to 12:45	63.8	61.6	58.9	64.7	62.3	65.4	65
12:45 to 13:00	62.6	61	59.7	62.7	63.1	63.8	61.8
13:00 to 13:15	64.8	60.5	59.5	64.2	62.7	63.1	64
13:15 to 13:30	65	59.6	60.1	64.2	63.3	63.9	64.8
13:30 to 13:45	63.1	59.5	60	61.9	64.5	63.1	64.3
13:45 to 14:00	64.5	61.6	60.1	63.3	62.9	63.3	64.2
14:00 to 14:15	63.9	61.3	59.7	61.4	63.2	63.1	64.7
14:15 to 14:30	62.2	62.2	59	63.8	61.1	63.7	64.8
14:30 to 14:45	62.5	57.7	59.4	62.9	62.9	62.5	63.4
14:45 to 15:00	61.2	59.1	59.5	63.2	63.9	62.8	64.8
15:00 to 15:15	63.8	57.8	59.6	64.3	64.2	62.8 n.a	
15:15 to 15:30	63.4	60.1	60.5	62.9	63.1	69.5 n.a	
15:30 to 15:45	62.8	59.9	60.3	62.6	63.3	62.3 n.a	
15:45 to 16:00	64.4	57.4	61	63.3	60.8	65.1 n.a	
16:00 to 16:15	62.4	55.4	60.5	61	61.7	62.2	64.8
16:15 to 16:30	61.1	58.4	59.8	60.7	61.1	61.8	64.4
16:30 to 16:45	61.7	58	61.5	63.4	72.8	61.2	63.8
16:45 to 17:00	60.5	57.2	59.6	61.6	62.7	61.1	63
17:00 to 17:15	60.3	55.8	57.1	61.7	61.1	62.9	62.4
17:15 to 17:30	60.9	55.6	55.5	63.3	61.1	63.4	62.9
17:30 to 17:45	66.6	55.1	55.3	60.8	59.2	61.3	60.9
17:45 to 18:00	59.1	55.6	54.9	59.9	60.3	61.6	62.3
18:00 to 18:15	59.3	55	56.1	58.9	58.8	59.5	59.9
18:15 to 18:30	58.2	54.5	55.7	58.2	58	60.8	59.5
18:30 to 18:45	56	51.7	61	57.4	57.5	60.4	57.8
18:45 to 19:00	59.5	53.8	59.4	57.4	58.4	58.2	59
19:00 to 19:15	56	53.7	58.8	57.6	58.8	58.1	53.8
19:15 to 19:30	56	53.1	59.1	59.6	59.1	56.8	55.5
19:30 to 19:45	57.8	49.8	59.2	58.8	58.3	58.1	57.3
19:45 to 20:00	57.5	48.9	57.8	61.2	61	61.4	60.9
20:00 to 20:15	60.6	54	60.7	60	59.6	61.1	60.5
20:15 to 20:30	59.4	52.4	59.2	60.6	58.9	61.7	60.9
20:30 to 20:45	58.4	53.1	63.4	59.6	58.4	59.6	59.5
20:45 to 21:00	58.5	53	59.5	61.2	61.4	62.1	60.3
21:00 to 21:15	57.7	51.7	58.7	61	60	61.4	59.2
21:15 to 21:30	57	52.8	59.1	57.9	60.4	60.8	56.4
21:30 to 21:45	56.9	51.2	56.6	60	58.2	60.2	53.1
21:45 to 22:00	55.2	52.1	57	59.3	58.1	63	53.8
22:00 to 22:15	57.7	50.3	57	59.8	62	59.8	56.4
22:15 to 22:30	58.5	50.6	56.8	63	60.3	60.8	57.5
22:30 to 22:45	57.6	52.2	51.5	62.1	62.9	61.8	58.3
22:45 to 23:00	55.5	52.3	51.9	61.2	62.7	60.7	58.2
23:00 to 23:15	56.7	48	54.9	60.7	62.8	62.3	57.2
23:15 to 23:30	56.6	47.1	50.1	58.4	62	61.3	57.9
23:30 to 23:45	56.3	50.4	53.3	61.7	60.1	61.4	56.7
23:45 to 00:00	57.5	53	47.1	61.3	58.8	60.5	55.1

# ATC Rosehill Gardens (L<sub>Aeq-15min</sub>)

08-05-2020 to 15-06-2020



	Fri 15/05/2020	Sat 16/05/2020	Sun 17/05/2020	Mon 18/05/2020	Tue 19/05/2020	Wed 20/05/2020	Thu 21/05/2020
00:00 to 00:15	54.4	54.1	47.8	57.2	59	59.2	59.1
00:15 to 00:30	57.6	55.4	48.6	53.6	60	55.2	58.1
00:30 to 00:45	58.5	54.4	46.7	53.5	61	57.6	58.9
00:45 to 01:00	53.4	50.3	49.7	50.7	61.7	58.1	56.3
01:00 to 01:15	52.6	48.8	46.5	56.1	n.a	58.2	58.5
01:15 to 01:30	50.2	55.9	51.5	57.1	n.a	58.9	56.6
01:30 to 01:45	58.4	51.5	51.4	52.1	n.a	58.7	58.6
01:45 to 02:00	54.6	54.5	54.4	58.5	n.a	57.4	58.4
02:00 to 02:15	60.4	61.1	49.3	58.4	60.4	53.1	59.6
02:15 to 02:30	53.8	56	49.1	57.6	62.4	55.6	58.4
02:30 to 02:45	54.8	54.3	49.2	57.3	59.1	60.3	59.3
02:45 to 03:00	58.2	60.5	50.2	60.5	61	53	56.8
03:00 to 03:15	60.5	n.a	49	58.2	60.9	59.6	60.2
03:15 to 03:30	57.5	n.a	52.7	55.5	60.1	58.1	58
03:30 to 03:45	60.7	n.a	45.4	57.3	56.4	59.3	62.4
03:45 to 04:00	57.1	n.a	44.1	58.8	60.8	58.1	59.3
04:00 to 04:15	58.4	54.3	52.8	55.8	63	57.6	57.6
04:15 to 04:30	63	59.2	52.5	58.4	60.2	63.4	58.5
04:30 to 04:45	61.5	60	46.6	59.6	60.5	60	59.2
04:45 to 05:00	61.4	57.3	46.5	60.5	59.5	59.9	59.8
05:00 to 05:15	62.7	58.7	54.5	61.2	64	63.6	61.5
05:15 to 05:30	59.9	55.3	53.7	58.8	63	62.1	61
05:30 to 05:45	62.7	54.5	52	60.6	61.6	61.8	61.1
05:45 to 06:00	61.9	55.7	49	62.3	63.6	61.5	62
06:00 to 06:15	61.7	61.9	56.1	63.6	62.7	62.4	59.9
06:15 to 06:30	63.6	58.8	53.1	64	64.1	63.7	63.4
06:30 to 06:45	63.6	55.3	58.9	63	63.9	62.6	61.1
06:45 to 07:00	64.7	60.7	58.6	63.6	62.7	63.8	63.5
07:00 to 07:15	65.8	59.8	52.7	64.7	62.9	63.5	62.4
07:15 to 07:30	65.6	60.1	52.7	63.8	63	64.3	62.4
07:30 to 07:45	65.3	59	53.8	65.7	62.2	64.4	64.2
07:45 to 08:00	65.1	57.5	50.5	65	64	65.6	64.6
08:00 to 08:15	64.6	60.2	51.5	66.3	63.9	64.2	63.8
08:15 to 08:30	64.5	61.7	49.3	66	64.3	63.8	64.4
08:30 to 08:45	63.5	60.1	53.5	65.5	63.2	65.2	62.5
08:45 to 09:00	64.9	61.8	57.7	64.7	62.7	64.1	63.6
09:00 to 09:15	63.3	61.4	54.7	66.9	63.7	65.2	63.4
09:15 to 09:30	64.2	63.9	57.6	64.6	63.3	65	62.8
09:30 to 09:45	63.3	62.5	54.1	63.6	63	62.9	63.7
09:45 to 10:00	64.5	64.5	53.5	64	65.2	61.7	63.8
10:00 to 10:15	65.1	60.3	55.1	64.2	n.a	64.4	n.a
10:15 to 10:30	62.3	61	53.7	63.2	n.a	61.5	n.a
10:30 to 10:45	62	59.8	53.8	62.5	n.a	63.4	n.a
10:45 to 11:00	62.2	58.8	57.7	62	n.a	62.4	n.a
11:00 to 11:15	64.3	61.4	n.a	64	61.8	64.1	n.a
11:15 to 11:30	63.6	62	n.a	62.6	64.3	62	n.a
11:30 to 11:45	63.2	58.5	n.a	60.8	61.6	63.5	n.a
11:45 to 12:00	75.1	59.9	n.a	63.1	64.5	64.3	n.a
12:00 to 12:15	65.7	57.6	54.2	63.7	62.7	64.8	n.a
12:15 to 12:30	64.2	62.2	58.1	63.2	64.9	64.4	n.a
12:30 to 12:45	64.2	61.5	57.5	62.9	63.4	63.6	n.a
12:45 to 13:00	66.4	59.9	53.6	62.3	66.3	65.2	n.a
13:00 to 13:15	66.1	60.2	52.7	n.a	67.7	64.2	n.a
13:15 to 13:30	65.2	59.6	57.1	n.a	63.4	65.5	n.a
13:30 to 13:45	63.7	59.9	50.9	n.a	63.5	64.7	n.a
13:45 to 14:00	61.1	58.9	54.9	n.a	64.2	65.2	n.a
14:00 to 14:15	n.a	57.9	55.2	n.a	63.7	63.2	63.5
14:15 to 14:30	n.a	57	58.3	n.a	63	63	62.5
14:30 to 14:45	n.a	58.1	55.8	n.a	62.3	64.1	61.2
14:45 to 15:00	n.a	55.2	52.3	n.a	63.3	64.7	61.7
15:00 to 15:15	n.a	54.5	54.7	63.4	63.7	62.1	63.9
15:15 to 15:30	n.a	52.8	55	62.8	63.3	63.7	62.2
15:30 to 15:45	n.a	52.1	49.9	62.7	62.3	61.6	59.8
15:45 to 16:00	n.a	53.3	56.6	61.9	61.2	61.5	62
16:00 to 16:15	n.a	55	57.8	62.4	67.5	60.3	62.9
16:15 to 16:30	n.a	54.3	57	59	61.6	62.4	62.7
16:30 to 16:45	n.a	55.8	55.8	61.8	62.2	61.8	59.7
16:45 to 17:00	n.a	57.8	57.2	62.1	61.7	62.6	59.7
17:00 to 17:15	n.a	56.4	55.3	62.2	63.4	59.7	59.1
17:15 to 17:30	n.a	52.6	55	60.3	61.3	64	61.5
17:30 to 17:45	n.a	55.5	56.6	59.6	62.5	59.6	59.2
17:45 to 18:00	n.a	53.1	51	57.9	59.6	58.2	60.4
18:00 to 18:15	n.a	55.3	53.6	58.3	59.2	59.4	n.a
18:15 to 18:30	n.a	50.6	49.1	58.4	59.4	59.2	n.a
18:30 to 18:45	n.a	54.6	53.4	58.8	61.3	59	n.a
18:45 to 19:00	n.a	55.1	59.2	60.4	58.9	57.2	n.a
19:00 to 19:15	58.3	56.1	58.5	58.7	56.6	56.6	n.a
19:15 to 19:30	59.2	54.9	54.9	60.5	62.4	58.7	n.a
19:30 to 19:45	59.3	52	57.4	58.1	59.1	57.6	n.a
19:45 to 20:00	63.2	51	57.1	60	58.3	59.5	n.a
20:00 to 20:15	n.a	52.4	58.6	59.1	57.2	58.5	n.a
20:15 to 20:30	n.a	55.2	61	60.8	58	58.2	n.a
20:30 to 20:45	n.a	54.9	58.5	64.2	58.8	60.8	n.a
20:45 to 21:00	n.a	53.2	58.9	58.8	57.3	57.6	n.a
21:00 to 21:15	55.7	53.9	59.5	60.5	58.3	58.2	n.a
21:15 to 21:30	54.9	57.6	58.8	60	59.6	55.5	n.a
21:30 to 21:45	61.4	51.8	53.5	57.6	58.2	59	n.a
21:45 to 22:00	54.3	53.6	53.4	60.6	58.3	59.4	n.a
22:00 to 22:15	n.a	52.5	56.8	60.9	59.6	56.1	58.6
22:15 to 22:30	n.a	53.3	55.6	59.6	58.4	56.5	57.2
22:30 to 22:45	n.a	53.4	51.7	61.5	58	57.8	57.7
22:45 to 23:00	n.a	52.7	55.1	60.8	57.8	58.7	59
23:00 to 23:15	49.4	53.6	56.3	58.6	59.3	53.7	57.3
23:15 to 23:30	55.8	54.5	62.3	59.7	57.7	57.4	54.7
23:30 to 23:45	57.5	52	58.5	60	59.2	52.1	56.5
23:45 to 00:00	58.7	52.8	58.8	57.2	57.9	56	56.4

# ATC Rosehill Gardens (L<sub>Aeq-15min</sub>)

08-05-2020 to 15-06-2020



	Fri 22/05/2020	Sat 23/05/2020	Sun 24/05/2020	Mon 25/05/2020	Tue 26/05/2020	Wed 27/05/2020	Thu 28/05/2020
00:00 to 00:15	n.a	56.6	51.8	60.9	56.7	58	55.1
00:15 to 00:30	n.a	55.4	49.6	60.2	56.5	55.5	59
00:30 to 00:45	n.a	53.7	49.6	58.5	56	58.1	54.5
00:45 to 01:00	n.a	58.4	51.7	54.8	55.1	59.8	53.9
01:00 to 01:15	n.a	59.6	49.3	56.3	n.a	n.a	59.8
01:15 to 01:30	n.a	55.8	49	54.9	n.a	n.a	59.6
01:30 to 01:45	n.a	58.3	47.1	58.3	n.a	n.a	56.9
01:45 to 02:00	n.a	56.3	50.9	60.7	n.a	n.a	56.8
02:00 to 02:15	n.a	58	50.4	55.9	n.a	n.a	58.9
02:15 to 02:30	n.a	57.4	46.1	55.3	n.a	n.a	58.6
02:30 to 02:45	n.a	55.3	45.9	56.8	n.a	n.a	55.3
02:45 to 03:00	n.a	57.3	46	57.6	n.a	n.a	58.9
03:00 to 03:15	n.a	59.3	50.6	59.7	n.a	57.4	59.7
03:15 to 03:30	n.a	56.6	51.1	57.2	n.a	59.7	56.3
03:30 to 03:45	n.a	60.1	50.5	56.9	n.a	56	57.5
03:45 to 04:00	n.a	59.1	47	59.4	n.a	59.9	60.1
04:00 to 04:15	n.a	61.2	52.6	60.7	n.a	58.9	63.1
04:15 to 04:30	n.a	57.5	47.6	57.5	n.a	60.1	59.4
04:30 to 04:45	n.a	57.6	53	61	n.a	60.8	58
04:45 to 05:00	n.a	56.6	51	61.8	n.a	58.9	62.2
05:00 to 05:15	n.a	58.4	51.5	63	n.a	61.7	64.7
05:15 to 05:30	n.a	59.4	50.8	61.4	n.a	58.4	61.9
05:30 to 05:45	n.a	56	52.5	62.4	n.a	62.2	61.4
05:45 to 06:00	n.a	60.2	52.2	62.4	n.a	62.8	62.1
06:00 to 06:15	n.a	57.5	52.7	65.9	n.a	63.2	63.1
06:15 to 06:30	n.a	59	62.5	63.5	n.a	61.9	61.8
06:30 to 06:45	n.a	58.6	62.3	64.8	n.a	63.3	61.5
06:45 to 07:00	n.a	59.2	58	64.2	n.a	64.8	63.7
07:00 to 07:15	65.5	60.2	60.4	65.9	64.4	64.2	64.1
07:15 to 07:30	65.3	61.5	59.8	63	63.8	64.5	63.2
07:30 to 07:45	65.5	64.3	59.2	63.8	63.2	64.3	63.7
07:45 to 08:00	66	64.1	63.5	64.7	63.4	64.8	63.4
08:00 to 08:15	66.3	68.8	59.7	65.9	n.a	65.2	64.1
08:15 to 08:30	64.7	64.7	58.9	64.9	n.a	64	63.5
08:30 to 08:45	65.4	62.4	60.4	66.2	n.a	63.9	64.1
08:45 to 09:00	66.7	60.2	60.4	65.7	n.a	66.7	64.3
09:00 to 09:15	65.3	59.9	60.3	65.1	n.a	64	67.3
09:15 to 09:30	64.7	60.9	59.3	65.2	n.a	61.9	64.2
09:30 to 09:45	65	61.4	58.1	65.5	n.a	64.7	63.7
09:45 to 10:00	65	60	58.6	66	n.a	63	62.9
10:00 to 10:15	63.8	61.6	58.7	66	n.a	64.3	65.1
10:15 to 10:30	64.9	61.4	60.8	64.4	n.a	63.8	65
10:30 to 10:45	62	60.8	61.3	64.8	n.a	63.5	62.7
10:45 to 11:00	64.3	61.9	61.5	64.6	n.a	63.5	64.4
11:00 to 11:15	62.5	61	60	66.5	61.9	61.7	61.9
11:15 to 11:30	64	59.5	55.2	66.1	63.9	62.2	62.4
11:30 to 11:45	64.5	62.1	55.5	64.3	62	62.7	63.1
11:45 to 12:00	65.9	61.7	58.5	69.9	62.1	64.4	63.6
12:00 to 12:15	65	63.8	59.3	63.3	64.5	63.1	63.5
12:15 to 12:30	65.6	58.7	56	63.9	63.4	64.2	64.2
12:30 to 12:45	66.2	62.7	58.7	65.2	65	64.3	63.8
12:45 to 13:00	64.1	58.2	56.7	65.9	63.1	63.4	64
13:00 to 13:15	62.5	n.a	57.8	64	63.3	63.3	0
13:15 to 13:30	62.7	n.a	58.1	63.3	64.4	64.4	0
13:30 to 13:45	64	n.a	56.1	63.3	64.9	63.6	0
13:45 to 14:00	63.4	n.a	56.1	63.6	62.9	63.3	0
14:00 to 14:15	64.7	77.7	57.3	63.5	61.2	n.a	0
14:15 to 14:30	64	62	56.2	63.8	62.1	n.a	0
14:30 to 14:45	63.4	59.3	54.7	65.1	60.6	n.a	0
14:45 to 15:00	62.3	55.7	57	63.5	61.8	n.a	0
15:00 to 15:15	64.1	n.a	56.3	62.9	n.a	62.8	0
15:15 to 15:30	65.1	n.a	57.2	64.5	n.a	62.4	0
15:30 to 15:45	63.5	n.a	57.8	61.3	n.a	63.1	0
15:45 to 16:00	62.5	n.a	56.2	62.9	n.a	62.4	0
16:00 to 16:15	61.7	56.3	58	n.a	62.4	61.1	0
16:15 to 16:30	64.2	57.7	58.5	n.a	61	62.2	0
16:30 to 16:45	65.3	58.3	57.6	n.a	60.5	61.2	0
16:45 to 17:00	62.2	58.9	60.9	n.a	62.9	62.1	0
17:00 to 17:15	61.7	58.1	55.1	n.a	61.5	61.4	0
17:15 to 17:30	62	57.4	56.4	n.a	64.5	61.9	0
17:30 to 17:45	61.6	58.4	54.2	n.a	58.8	57.2	0
17:45 to 18:00	61.8	57.4	58.2	n.a	59.4	60	0
18:00 to 18:15	59.4	56.6	54.5	n.a	63.6	60.3	0
18:15 to 18:30	60.1	58.9	54.5	n.a	60.2	59	0
18:30 to 18:45	58.8	54.2	57.3	n.a	62.2	57.8	0
18:45 to 19:00	58.8	56.3	58.4	n.a	62.2	59.4	0
19:00 to 19:15	59	55	57.4	n.a	57.9	60.8	0
19:15 to 19:30	63	52.2	59.9	n.a	62.6	58	0
19:30 to 19:45	61.3	53.4	60	n.a	59.9	60.7	0
19:45 to 20:00	62.6	52.2	60.7	n.a	63.2	62.2	0
20:00 to 20:15	60.4	50.2	59.9	n.a	60.4	59.2	0
20:15 to 20:30	62.1	52.9	59.1	n.a	60.5	59.1	0
20:30 to 20:45	60.8	52.5	60.1	n.a	59.9	58.2	0
20:45 to 21:00	60.6	50.1	60.5	n.a	59.2	58.8	0
21:00 to 21:15	61.1	52.1	60.2	n.a	60.4	60	0
21:15 to 21:30	59.9	49.7	59	n.a	59	59.1	0
21:30 to 21:45	60.3	51.5	58.7	n.a	60	58.5	0
21:45 to 22:00	55.3	52	58.2	n.a	61.4	60.2	0
22:00 to 22:15	n.a	53.5	59.7	n.a	60.5	58.5	0
22:15 to 22:30	n.a	52.3	60.1	n.a	59.8	60.6	0
22:30 to 22:45	n.a	49.5	59.9	n.a	59.6	56.6	0
22:45 to 23:00	n.a	53	59	n.a	59.2	59.1	0
23:00 to 23:15	n.a	49	59.8	n.a	59.5	61.9	0
23:15 to 23:30	n.a	50.8	59.9	n.a	61.6	62.5	0
23:30 to 23:45	n.a	52.4	57.5	n.a	56.9	60.1	0
23:45 to 00:00	n.a	48.2	58.1	n.a	57.7	58.8	0

# ATC Rosehill Gardens (L<sub>Aeq</sub>-15min)

08-05-2020 to 15-06-2020



	Fri 29/05/2020	Sat 30/05/2020	Sun 31/05/2020	Mon 1/06/2020	Tue 2/06/2020	Wed 3/06/2020	Thu 4/06/2020
00:00 to 00:15	0	0	0	0	58.4	56.6	62.7
00:15 to 00:30	0	0	0	0	58.9	59.3	60.7
00:30 to 00:45	0	0	0	0	56.1	59.9	59.8
00:45 to 01:00	0	0	0	0	55.6	58.4	64.6
01:00 to 01:15	0	0	0	0	59.8	56.3	59.4
01:15 to 01:30	0	0	0	0	51.9	58.9	64.9
01:30 to 01:45	0	0	0	0	59.2	59.7	60.9
01:45 to 02:00	0	0	0	0	52.5	68.2	60.3
02:00 to 02:15	0	0	0	0	55.2	56.7	59.8
02:15 to 02:30	0	0	0	0	55	59	58
02:30 to 02:45	0	0	0	0	56.4	54	61.4
02:45 to 03:00	0	0	0	0	58.7	57.6	60.1
03:00 to 03:15	0	0	0	0	60.4	57.9	57.5
03:15 to 03:30	0	0	0	0	55.5	58.9	59.6
03:30 to 03:45	0	0	0	0	57.5	58.3	65.7
03:45 to 04:00	0	0	0	0	57.5	60.3	60.1
04:00 to 04:15	0	0	0	0	58.4	58.9	58.9
04:15 to 04:30	0	0	0	0	61.4	59.4	61.7
04:30 to 04:45	0	0	0	0	60.7	61	60.2
04:45 to 05:00	0	0	0	0	61.2	60.6	59.1
05:00 to 05:15	0	0	0	0	64.1	63.8	64.1
05:15 to 05:30	0	0	0	0	61.3	62.6	61
05:30 to 05:45	0	0	0	0	62.2	63.9	61.5
05:45 to 06:00	0	0	0	0	61.7	61.6	63.1
06:00 to 06:15	0	0	0	0	62.7	62.8	63.1
06:15 to 06:30	0	0	0	0	62.4	63.2	62.9
06:30 to 06:45	0	0	0	0	64.9	63	62.6
06:45 to 07:00	0	0	0	0	62.9	65.4	63.3
07:00 to 07:15	0	0	0	0	n.a	67	63.5
07:15 to 07:30	0	0	0	0	n.a	64.5	63.5
07:30 to 07:45	0	0	0	0	n.a	65.4	63.3
07:45 to 08:00	0	0	0	0	n.a	64.7	64.5
08:00 to 08:15	0	0	0	0	n.a	65.8	65.6
08:15 to 08:30	0	0	0	0	n.a	64.7	65.6
08:30 to 08:45	0	0	0	0	n.a	66	67
08:45 to 09:00	0	0	0	0	n.a	64	64.8
09:00 to 09:15	0	0	0	0	64.1	64.4	64.6
09:15 to 09:30	0	0	0	0	63.7	64.5	65.1
09:30 to 09:45	0	0	0	0	66.5	65	64.7
09:45 to 10:00	0	0	0	0	66.4	66.2	64.1
10:00 to 10:15	0	0	0	0	64.8	66	63.9
10:15 to 10:30	0	0	0	22.4	64.6	65.4	62.6
10:30 to 10:45	0	0	0	21.6	65.1	64.5	64.5
10:45 to 11:00	0	0	0	22.6	64.4	64.9	63.9
11:00 to 11:15	0	0	0	23.5	63.2	63.6	64.3
11:15 to 11:30	0	0	0	23.5	64.4	63.7	64.2
11:30 to 11:45	0	0	0	70.3	64.5	63.6	64.6
11:45 to 12:00	0	0	0	63.7	63.9	64.3	64.2
12:00 to 12:15	n.a	0	0	n.a	65.3	64.3	64.7
12:15 to 12:30	n.a	0	0	n.a	65.5	63.1	65.3
12:30 to 12:45	n.a	0	0	n.a	65.5	63.7	64.2
12:45 to 13:00	n.a	0	0	n.a	65.5	62.8	65.5
13:00 to 13:15	n.a	0	0	n.a	64.7	66.1	64.1
13:15 to 13:30	n.a	0	0	n.a	66	66.3	64.3
13:30 to 13:45	n.a	0	0	n.a	65.1	65.2	64.6
13:45 to 14:00	n.a	0	0	n.a	64.2	64.6	65.3
14:00 to 14:15	0	0	0	n.a	65	63.9	64.3
14:15 to 14:30	0	0	0	n.a	64.3	65	64.1
14:30 to 14:45	0	0	0	n.a	64.2	64.3	62.5
14:45 to 15:00	0	0	0	n.a	65.5	64.4	61.5
15:00 to 15:15	0	0	0	64.3	65.9	63.9	63
15:15 to 15:30	0	0	0	64.2	63.9	65.4	63.2
15:30 to 15:45	0	0	0	63.5	63.4	65.1	64.9
15:45 to 16:00	0	0	0	62.5	65.8	66.5	63.7
16:00 to 16:15	0	0	0	62.2	64.7	64.5	63.2
16:15 to 16:30	0	0	0	62.7	64.3	64	63.3
16:30 to 16:45	0	0	0	64	63.7	62.6	65.2
16:45 to 17:00	0	0	0	64	63.7	64	63.7
17:00 to 17:15	0	0	0	64.9	62.6	61.7	61.2
17:15 to 17:30	0	0	0	63.4	66.6	62.6	64.9
17:30 to 17:45	0	0	0	64.6	63	60.3	63.6
17:45 to 18:00	0	0	0	62.7	61.2	60.8	59.7
18:00 to 18:15	0	0	0	62.1	63	61	60.7
18:15 to 18:30	0	0	0	62.1	61.8	59.9	61.5
18:30 to 18:45	0	0	0	59.2	62.4	60.8	59.4
18:45 to 19:00	0	0	0	61.5	60.2	70.3	62.6
19:00 to 19:15	0	0	0	61.1	62.2	60.1	60.6
19:15 to 19:30	0	0	0	60.8	58.1	60.4	61.6
19:30 to 19:45	0	0	0	62.2	61.9	60.1	59.8
19:45 to 20:00	0	0	0	60.8	61.9	61	62
20:00 to 20:15	0	0	0	59.2	59.1	59.8	60
20:15 to 20:30	0	0	0	58.9	60.8	61.5	61.2
20:30 to 20:45	0	0	0	59.3	61.1	64.6	60.5
20:45 to 21:00	0	0	0	59.8	60.4	60.2	59.3
21:00 to 21:15	0	0	0	58.6	60.6	60.3	60.4
21:15 to 21:30	0	0	0	61.4	57.8	60.8	59
21:30 to 21:45	0	0	0	60.2	58.9	61.7	59.8
21:45 to 22:00	0	0	0	60.7	60.1	61.2	61.7
22:00 to 22:15	0	0	0	59	57.6	60.7	61.4
22:15 to 22:30	0	0	0	61.7	56.1	62.3	60.4
22:30 to 22:45	0	0	0	60.1	61.1	63	60.2
22:45 to 23:00	0	0	0	57.6	60.9	62.8	60.9
23:00 to 23:15	0	0	0	59.1	58.3	62.8	59.4
23:15 to 23:30	0	0	0	62.3	60.1	62.8	62.2
23:30 to 23:45	0	0	0	57.4	60.9	62	60.3
23:45 to 00:00	0	0	0	59.8	59.2	62.3	57.2



# ATC Rosehill Gardens (L<sub>Aeq</sub>-15min)

08-05-2020 to 15-06-2020



	Fri 5/06/2020	Sat 6/06/2020	Sun 7/06/2020	Mon 8/06/2020	Tue 9/06/2020	Wed 10/06/2020	Thu 11/06/2020
00:00 to 00:15	56.6	54.6	49.3	n.a	53	n.a	58.1
00:15 to 00:30	58.9	52.8	48.6	n.a	53.7	n.a	55.5
00:30 to 00:45	58.8	54	49.5	n.a	52	n.a	53.5
00:45 to 01:00	55.7	53.8	47.7	n.a	51.7	n.a	56.6
01:00 to 01:15	54.8	55.8	48.2	n.a	48.9	n.a	60.1
01:15 to 01:30	59	55.4	46.7	n.a	52.9	n.a	56.5
01:30 to 01:45	57.7	55.6	46.4	n.a	51.4	n.a	54.2
01:45 to 02:00	58.6	53.9	48.3	n.a	50.9	n.a	53.4
02:00 to 02:15	58.6	56.9	48.8	n.a	53.5	56.8	59.8
02:15 to 02:30	57.2	52.5	58.2	n.a	49.7	57.9	57.7
02:30 to 02:45	57.9	54.6	51.5	n.a	53	59.3	57.2
02:45 to 03:00	60.3	55	44.1	n.a	56.7	56	56.5
03:00 to 03:15	60.3	56.9	42.4	51.1	59.3	n.a	58.7
03:15 to 03:30	59.5	56	42.2	52.4	56.8	n.a	59.5
03:30 to 03:45	60.1	55.8	41	51.7	59.2	n.a	57
03:45 to 04:00	58.1	57.7	41.6	57	56.5	n.a	57.5
04:00 to 04:15	57.6	55.4	50.7	54.7	56.5	59.8	59.5
04:15 to 04:30	60.7	61.7	51	54.9	59	61.6	57.4
04:30 to 04:45	62.2	59.8	42.7	57.7	60.9	60.6	61.4
04:45 to 05:00	61.3	55.6	52.1	51.3	60.4	62	61.5
05:00 to 05:15	61.3	55.9	54.7	57.4	n.a	n.a	60.8
05:15 to 05:30	60.7	58.5	50.6	56.8	n.a	n.a	60.1
05:30 to 05:45	64	58.2	51.7	54.3	n.a	n.a	63.9
05:45 to 06:00	61.5	58.1	50.4	56.2	n.a	n.a	62
06:00 to 06:15	62.3	56.1	51.7	52.1	64.1	n.a	63.1
06:15 to 06:30	64.8	58	52	53.8	64.3	n.a	65.1
06:30 to 06:45	64.3	57.7	64.7	51.6	63.7	n.a	64
06:45 to 07:00	62.6	59	61	55.6	65.2	n.a	63.8
07:00 to 07:15	64.5	60.5	62.2	55	65	n.a	n.a
07:15 to 07:30	64.3	59.5	57.8	56.1	64.6	n.a	n.a
07:30 to 07:45	63.2	61	60.7	55.3	65.1	n.a	n.a
07:45 to 08:00	64.3	60.9	50.3	56.3	65.6	n.a	n.a
08:00 to 08:15	67.3	59.9	50.4	57.4	63.6	n.a	65
08:15 to 08:30	64.7	61.3	48.7	56.5	64.1	n.a	64.5
08:30 to 08:45	64.4	58.9	56.9	55	65.7	n.a	65.2
08:45 to 09:00	64.6	61.8	58	57	65.3	n.a	64.9
09:00 to 09:15	65.8	59.1	54.6	59.2	64.1	66.3	65.1
09:15 to 09:30	65.2	61.8	57.7	57.3	63	64	65
09:30 to 09:45	62.1	61.6	49.5	57.2	63	65.3	64.3
09:45 to 10:00	64.2	61.8	56	55.6	63.8	65.1	65.1
10:00 to 10:15	64.6	61.3	55.1	58.4	63.1	66.1	64.9
10:15 to 10:30	62.2	61.5	54.1	59.1	64	66.7	64.3
10:30 to 10:45	61.4	59.3	49.9	54.1	62.1	63	64.1
10:45 to 11:00	63.1	61.2	53.1	54.2	64.5	64.4	64.1
11:00 to 11:15	61.8	62.5	53.9	54.1	62	62.7	64
11:15 to 11:30	65.2	62.7	53.8	57	62.8	63.9	64.2
11:30 to 11:45	61.5	59.5	48.9	60.7	60.6	65.7	68.2
11:45 to 12:00	61.1	58.7	53.1	53.3	64.5	64.1	64.2
12:00 to 12:15	64.1	60.3	48.8	52.9	62.4	n.a	64.9
12:15 to 12:30	63.2	59.1	52.8	55	63.1	n.a	65.6
12:30 to 12:45	64.7	60.5	55.8	55	62.9	n.a	63.5
12:45 to 13:00	63.1	59.8	49.5	56	64.2	n.a	64.3
13:00 to 13:15	62.8	55.8	50.3	58.8	61	64.3	63.9
13:15 to 13:30	63.3	57.4	49.9	55.5	64.5	65.1	64.5
13:30 to 13:45	62.7	59.7	54.4	56.2	63.1	65.6	66.2
13:45 to 14:00	64.3	57	52.9	62.1	62.7	66.2	66.2
14:00 to 14:15	64.2	57.9	56.3	57.7	62.2	63.4	65
14:15 to 14:30	62.3	55.8	53.2	58.1	63.3	63.6	66.5
14:30 to 14:45	63.8	53.6	54.2	57.8	62.7	64.7	66.4
14:45 to 15:00	63.8	61.7	59.5	56	62.8	63	65.6
15:00 to 15:15	63.8	57.3	51.9	57.7	64.5	n.a	64.5
15:15 to 15:30	64	54.2	52.4	52.6	64.8	n.a	65.9
15:30 to 15:45	62.4	53.1	56.5	59.1	62.3	n.a	63.5
15:45 to 16:00	62.8	51.9	51.3	58.7	62.6	n.a	63.2
16:00 to 16:15	63.2	55.5	50.2	57.1	61.2	n.a	63.5
16:15 to 16:30	61.1	54.9	53.6	56.9	62.2	n.a	62.7
16:30 to 16:45	63.5	51.3	48.1	56.8	61.7	n.a	63.1
16:45 to 17:00	63.1	56.9	51.5	59.8	61.8	n.a	62.1
17:00 to 17:15	68.3	59.7	n.a	60.4	62.3	n.a	63.7
17:15 to 17:30	62.7	61.3	n.a	58.5	61.6	n.a	66.3
17:30 to 17:45	60.6	54.3	n.a	58.3	62.4	n.a	61.8
17:45 to 18:00	61.6	57	n.a	55.6	63	n.a	61.8
18:00 to 18:15	60.4	54.7	n.a	58.2	61.8	60.7	61
18:15 to 18:30	59.5	53.3	n.a	51.3	62.2	59.8	61.2
18:30 to 18:45	59.3	56.5	n.a	52.8	59.5	58.9	60.1
18:45 to 19:00	60.9	54.5	n.a	53.6	62	60.2	61.8
19:00 to 19:15	60.1	50.4	n.a	n.a	60.3	n.a	61.9
19:15 to 19:30	60.1	50.3	n.a	n.a	61.1	n.a	61.3
19:30 to 19:45	58.4	54	n.a	n.a	60.2	n.a	61.4
19:45 to 20:00	61.2	50.3	n.a	n.a	59.7	n.a	59.2
20:00 to 20:15	57.5	49.7	n.a	n.a	61.4	56.1	60.7
20:15 to 20:30	61.9	50.4	n.a	n.a	60	59.2	60.8
20:30 to 20:45	60.1	50.8	n.a	n.a	59.3	59	62
20:45 to 21:00	59.7	49.7	n.a	n.a	58.9	58.1	61.5
21:00 to 21:15	58.2	54.2	56	57.7	60.6	53.7	62.1
21:15 to 21:30	57.9	64.3	52.9	49.9	58.8	58.6	59.8
21:30 to 21:45	55.7	51.2	51	52.6	59	56.9	58.8
21:45 to 22:00	56.3	50.8	50.8	49.3	59.8	55.9	59.3
22:00 to 22:15	53	52.6	52.4	n.a	57	n.a	59.5
22:15 to 22:30	55.2	51.4	50.9	n.a	58.3	n.a	60.6
22:30 to 22:45	56.3	53.4	53	n.a	58.4	n.a	61.1
22:45 to 23:00	56.3	49.7	50.6	n.a	61.4	n.a	60.9
23:00 to 23:15	56.4	49.8	50.9	n.a	n.a	59.7	59.7
23:15 to 23:30	58.9	50.2	52.6	n.a	n.a	59.6	58.2
23:30 to 23:45	55.5	51.3	53.5	n.a	n.a	61.4	63.4
23:45 to 00:00	54	49.1	49.3	n.a	n.a	59.4	58.8

# ATC Rosehill Gardens (L<sub>Aeq-15min</sub>)

08-05-2020 to 15-06-2020



	Fri 12/06/2020	Sat 13/06/2020	Sun 14/06/2020	Mon 15/06/2020
00:00 to 00:15	58.7	50.7	50.2	59.9
00:15 to 00:30	59.9	54	48	62.4
00:30 to 00:45	58.6	51.5	48.8	59.5
00:45 to 01:00	59	53.9	46.9	59.1
01:00 to 01:15	58.5	62	49.4	60.7
01:15 to 01:30	52	59.7	47.4	57
01:30 to 01:45	58.9	57.3	46.4	59
01:45 to 02:00	59.3	56	46.9	60.5
02:00 to 02:15	63	56.8	49.9	55.6
02:15 to 02:30	58.2	60.8	44.5	57.3
02:30 to 02:45	58	57.3	46.1	60.9
02:45 to 03:00	57.1	56	46.8	60.5
03:00 to 03:15	58.5	59.7	58.7	55.7
03:15 to 03:30	58.5	58.5	46	58.1
03:30 to 03:45	59.6	58.3	47.9	58.9
03:45 to 04:00	58.3	58.9	47.7	59.7
04:00 to 04:15	58.6	56.8	n.a	59
04:15 to 04:30	61.3	61.4	n.a	57.5
04:30 to 04:45	60.8	55.4	n.a	61.4
04:45 to 05:00	59.2	56.3	n.a	61.1
05:00 to 05:15	62.2	58.7	n.a	61.9
05:15 to 05:30	63.3	59.7	n.a	62.6
05:30 to 05:45	62.8	54.7	n.a	62.3
05:45 to 06:00	63.1	58.1	n.a	62.6
06:00 to 06:15	63.3	61.7	n.a	64.2
06:15 to 06:30	63.6	57.6	n.a	62
06:30 to 06:45	63.2	59.8	n.a	64.6
06:45 to 07:00	64	60.2	n.a	63.8
07:00 to 07:15	64.4	62.5	54.5	64.6
07:15 to 07:30	64.8	61.8	50.6	64.5
07:30 to 07:45	65.5	61.2	52.6	65.3
07:45 to 08:00	65.3	61	56.2	64.7
08:00 to 08:15	68	60.8	52.3	64.5
08:15 to 08:30	66.4	62.2	55.4	64.4
08:30 to 08:45	64.4	61.8	55.1	65.5
08:45 to 09:00	66.4	62.2	56	65.9
09:00 to 09:15	65.4	62	55.8	64.9
09:15 to 09:30	63.2	62.5	56.2	63.7
09:30 to 09:45	64.9	62.6	56.6	65.1
09:45 to 10:00	65.3	63	59.4	67.7
10:00 to 10:15	64.9	63.6	57.2	66.3
10:15 to 10:30	65.6	61.3	55.6	66.2
10:30 to 10:45	65.1	60.9	53.1	63.6
10:45 to 11:00	63.7	60.3	54.5	65.5
11:00 to 11:15	64.1	62.3	58.4	64.5
11:15 to 11:30	64	59.4	60.9	65.7
11:30 to 11:45	64.6	60	58.7	63.5
11:45 to 12:00	63.4	60.7	57.7	65.1
12:00 to 12:15	64.4	61	56.2	65.5
12:15 to 12:30	64.1	67.2	58.5	64.5
12:30 to 12:45	64.1	61.3	60	63.8
12:45 to 13:00	65.4	62.5	58.8	66.5
13:00 to 13:15	n.a	61.2	57.5	66.7
13:15 to 13:30	n.a	62	56.6	65.1
13:30 to 13:45	n.a	60.9	56.4	64.8
13:45 to 14:00	n.a	57.9	58	64.3
14:00 to 14:15	n.a	61.6	55.9	64.3
14:15 to 14:30	n.a	59.3	56.6	64.1
14:30 to 14:45	n.a	58.3	58	64.2
14:45 to 15:00	n.a	55.4	54.2	64
15:00 to 15:15	n.a	61.6	57.7	65.1
15:15 to 15:30	n.a	58.4	56.9	64
15:30 to 15:45	n.a	54.7	57	64.2
15:45 to 16:00	n.a	57.3	56.5	64.9
16:00 to 16:15	64.5	58.2	58.3	65.1
16:15 to 16:30	62.9	58.7	61.6	64.3
16:30 to 16:45	62.4	58.4	56.5	61.3
16:45 to 17:00	62.2	58.1	56.1	62.1
17:00 to 17:15	61.7	58.2	56.3	62.4
17:15 to 17:30	65.6	55.7	57.6	63.7
17:30 to 17:45	63	54.8	55.7	62.9
17:45 to 18:00	60.7	57.6	56.4	63.2
18:00 to 18:15	60.2	54.5	56	61.5
18:15 to 18:30	60.4	62.7	56.8	61.4
18:30 to 18:45	59.4	54.2	58.1	62.9
18:45 to 19:00	66.2	53.3	59.2	60.9
19:00 to 19:15	59	53.6	58.8	61.8
19:15 to 19:30	60.7	53.9	59.2	62.8
19:30 to 19:45	61.1	51.7	58.4	60
19:45 to 20:00	59.3	51.3	57.6	61.3
20:00 to 20:15	59.1	47.4	58.1	62
20:15 to 20:30	60.2	48.1	58.2	61.2
20:30 to 20:45	58.4	49.5	56.4	60.4
20:45 to 21:00	59.4	48.8	62.3	63.3
21:00 to 21:15	58.8	47.5	57.5	62.2
21:15 to 21:30	57.9	49.6	60.9	62.9
21:30 to 21:45	57.4	46.8	64.3	58.1
21:45 to 22:00	58.4	45.8	59.1	61.7
22:00 to 22:15	56.3	47.4	57.6	59.8
22:15 to 22:30	56.1	49.4	60.3	60.5
22:30 to 22:45	57.4	49.6	58.4	60.6
22:45 to 23:00	53	47.9	63.6	60.3
23:00 to 23:15	56.4	47.6	60.4	60.1
23:15 to 23:30	55.4	46.8	61.2	59.2
23:30 to 23:45	54.9	49	57.2	59.8
23:45 to 00:00	55.4	49.4	59.7	55.7

## Deposited Dust

Criteria:

Maximum Increase in Deposited Dust Levels Assessed as Insoluble Solids	Maximum Total Deposited Dust Level Assessed as Insoluble Solids
2 g/m <sup>2</sup> / month	4 g/m <sup>2</sup> / month

