

Rozelle Public School Parents and Citizens Association: Supporting Evidence to WHT Inquiry

17th September 2021

The proposed WHT2 dive site is directly on Victoria Road opposite Rozelle Public School close to the major intersection with Darling Street. The closest government owned air quality monitor is located in Callan Park over 200m away from Victoria Road and surrounded by foliage. The P&C own and operate an air quality monitor located within the school grounds next to Victoria Road and directly opposite WHT2.

Figure 1: Location of school relative to WHT2 Dive Site and Air Quality Monitoring Units



To demonstrate the difference between “background” air quality and the conditions next to one of the busiest intersections in NSW, consider the readings from the government’s AQM unit in Callan Park and the RPS P&C unit adjacent to Vitoria Road.

Below is a screen shot from Department of Planning, Industry and the Environment showing the readings of various units across the state for June 1st which was a weekday before the most recent COVID related Sydney lockdown.

<https://www.dpie.nsw.gov.au/air-quality/air-quality-concentration-data-updated-hourly/daily-air-quality-data>

All readings relating to vehicle emissions for “Rozelle” are in the departments “good” (green) category. These are the maximum hourly averages recorded that day.

Table 1: Data from the Department of Planning, Industry and the Environment AQM Unit

Tuesday 1 June 2021		GOOD	FAIR	POOR	VERY POOR				
Previous Next Select									
Pollutants		Ozone O3	Ozone O3	Nitrogen dioxide NO2	Visibility NEPH	Carbon monoxide CO	Sulfur dioxide SO2	Particles PM10	Particles PM2.5
Averaging Periods		max 1-hour average	max rolling 4-hour average	max 1-hour average	max 1-hour average	max rolling 8-hour average	max 1-hour average	24-hour average	24-hour average
Units		pphm	pphm	pphm	10 ⁻⁴ m ⁻¹	ppm	pphm	µg/m ³	µg/m ³
Sydney East	Cook And Phillip	1.2	0.8	3.9	0.60	0.5	0.3	17.0	6.6
	Chullora	1.4	1.2	3.2	1.03	0.7	0.3	33.3	14.7
	Earlwood	1.4	1.2	2.5	1.03			27.7	15.3
	Lidcombe	1.5	1.3	3.3	1.15	0.7	0.2	27.5	12.8
	Macquarie Park	2.1	2.0	1.7	0.67	0.6	0.1	13.9	10.8
	Randwick	1.8	1.4	2.7	0.68		0.3	24.8	14.8
	Rozelle	2.0	1.6	2.6	0.73	0.6	0.2	25.1	12.2
Sydney North-west	Parramatta north	1.6	1.4	1.9	1.02	0.8	0.3	31.3	14.3
	Penrith	1.8	1.4	1.7	1.18	0.6	0.1	23.0	16.3
	Prospect	1.7	1.4	3.7	0.98	0.8	0.3	38.2	15.3

Comparing the department's data with the unit on Rozelle Public School grounds also on June 1st for both Nitrogen Dioxide and Ozone it can be see that:

- The readings taken next to Victoria Road are higher even taken over the whole day, they average out into what the government considers "fair" (yellow) air quality
- The maximum hourly average on Victoria Road during the morning peak now crosses into the "poor" (amber) zone
- A 10% increase in Ozone on this stretch of Victoria Road would result in air quality regarded as "very poor" (red)
- Heavy vehicle numbers during construction are actually predicted to increase by 30% according to the WHT Environmental Impact Statement

Table 2: Comparison between DPIE and RPS AQ Data

June 1 st Hourly Avg	NO2	O3
DPIE Unit (Max)	2.6	2.0
RPS Unit (Avg)	11.3	9.3
RPS Unit (Max)	12.6	13.6