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AIR MONITORING RISK ASSESSMENT CRINGILA PUBLIC SCHOOL - NW HOTSPOT 35 SHEFFIELD STREET CRINGILA NSW 2502

Weekly Report 08/10/18 - 12/10/18

Cringila Public School

October 2018 C107826: J153825: RC

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# **Document Control**

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Client Number:	C107826									
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Signatures:	hellare									
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	Property Risk Consultant	Property Risk Consultant								

# **Issue Status**

Version No.	Date	Creator	Reviewer	Comments
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# **Document Circulation**

No	Туре	Customer Name	Position & Title
1	Electronic	NSW Department of Education	Greg Mott Senior Group Leader



# **Air Monitoring Risk Assessment**

Cringila Public School NW Hotspot – 35 Sheffield Street, Cringila NSW 2502

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### 1. INTRODUCTION

At the request of the Department of Education, Greencap were engaged to undertake air monitoring utilising real-time monitoring devices at Cringila Public School, 35 Sheffield Street Cringila NSW 2502. The aim of this monitoring program was primarily to investigate concerns raised by school employees and those of the general public regarding the potential exposure to air pollutants originating from the pre-identified subsurface hotspot occurring in this particular area of the school.

Based on the correspondence provided by the NSW Department of Education, the objectives of this assessment are as follows:

- Undertake an assessment of the air quality at the source of the subsurface hotspot and to determine the extent of associated atmospheric pollutants (gases) distribution within Cringila Public School;
- Pollutants to be monitored using real-time monitors to provide a profile of air quality i.e. carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), volatile organic compounds, sulphur dioxide (SO<sub>2</sub>), hydrogen sulphide (H<sub>2</sub>S), methane (CH<sub>4</sub> – LEL), oxygen (O<sub>2</sub>), nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>).
- Real time monitoring was to provide a snapshot to determine the extent of atmospheric pollutant levels on School grounds.

This report presents the results relating to an ongoing air monitoring investigation carried out in the North-Western Hotspot, situated on the Cringila Public School grounds, located at 35 Sheffield Street, Cringila NSW 2502.

#### 2. ASSESSMENT CRITERIA

As demonstrated in Table 1 below, the assessment criteria referenced as part of this project is based on several sources as this monitoring assessment had to consider numerous factors including outside air exposure, indoor air quality exposure and personal worker exposure. These reference sources included *Approved Methods for Modelling and Assessment of Air Pollutants in NSW* (NSW EPA 2016), *Workplace Exposure Standards for Airborne Contaminants* (SWA, 2013), *ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality* (2016), or equivalent publications as a point of reference.

For the purpose of this assessment, these criteria values highlighted in bold will be referenced in this report as they are deemed to be the most conservative levels based on the multifaceted monitoring works undertaken. It is however important to note that WES do not apply to children. Reference to WES is purely for guidance purposes only.



Table 1 Air Quality Monitoring Assessment Criteria

POLLUTANT	AVERAGING PERIOD	CRITERIA	SOURCE
Carbon monoxide (CO)	8-hours	9 ppm	NSW EPA 2016 <sup>a</sup>
		9 ppm	ASHRAE Standard 62.1-2016
		30 ppm	SWA 2013 <sup>b</sup>
Carbon dioxide (CO²)	8-hours	5000 ppm	SWA 2013 <sup>b</sup>
		Not greater than 700 ppm above local outdoor concentration levels	ASHRAE Standard 62.1-2016
Sulphur dioxide (SO <sup>2</sup> )	24-hours	0.08 ppm (8 ppm)	NSW EPA 2016 <sup>a</sup>
	8-hours 2 ppm (5 ppm STE		SWA 2013 <sup>b</sup>
Hydrogen sulphide (H <sup>2</sup> S)	8-hour	10 ppm (15 ppm STEL) <sup>d</sup>	SWA 2013
		0.9 ppm (Peak)	NSW EPA 2016
Nitric oxide (NO)	8-hour	25 ppm	SWA 2013
Nitrogen dioxide (NO²)	1-hour	0.12 ppm (12 ppm)	NSW EPA 2016 <sup>a</sup>
	8-hours	3 ppm (5 ppm STEL) <sup>d</sup>	SWA 2013 <sup>b</sup>
Oxygen (O²)	-	19.5-23.5%	SWA 2011 <sup>c</sup>
Volatile organic compounds (VOC)	-	Contaminant specific	-
Methane (as LEL)	-	<5%	SWA 2011 <sup>c</sup>

#### Sources:

- a NSW EPA 2016, Approved methods for the Modelling and Assessment of Air Pollutants in New South Wales, NSW Environment Protection Authority.
- b SWA 2013, Workplace Exposure Standards for Airborne Contaminants, Safe Work Australia. These concentrations are based on Time Weighted Averages (TWA) for an 8-hour shift.
- c SWA 2011, Confined Spaces Code of Practice, Safe Work Australia. These concentrations are based on conditions that do not pose an immediate risk to human health.
- d Short term exposure limit (STEL) means the average airborne concentration of a substance calculated over a 15-minute period. The STEL should not be exceeded at any time during a normal eight hour working day.



#### 3. AIR QUALITY MONITORING METHODOLOGY

# 3.1 SPOT CHECK / REAL TIME AIR QUALITY MONITORING

'Spot-check' air quality monitoring at locations within the vicinity of the subsurface hotspot area was conducted to determine the extent of atmospheric pollutants (gases) associated with the hotspot. Pollutants monitored using real-time Multi-Gas Detectors provided and continue to provide a profile of air quality which include: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), volatile organic compounds (VOCs), sulphur dioxide (SO<sub>2</sub>), hydrogen sulphide (H<sub>2</sub>S), methane (CH<sub>4</sub>) as LEL, oxygen (O<sub>2</sub>), nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>).

These air quality parameters were recorded at specific nominated locations within the northwest hotspot area over an interval of up to 15 minutes at each location. Monitoring included sensitive receptors such as locations within the school boundary and adjacent neighbouring residences in order to effectively delineate the extent and distribution of these atmospheric pollutants. This will be performed at the digression of the Greencap Consultant on site.

In this assessment, RAE Systems Multi RAE Gas Detectors were used with specific sensor configurations to target the nominated pollutants/gases to be assessed against the Air Quality Monitoring Criteria detailed below in Table 2. Each unit will be configured to log data at one second intervals, and upper and lower alarm limits will be set to reflect the adopted air monitoring criteria.

UNIT **SENSOR RANGE RESOLUTION** Multi RAE Lite - Unit 1 SO<sub>2</sub>0 to 20 ppm 0.1 ppm NO 0 to 250 ppm 0.5 ppm  $NO_2$ 0 to 20 ppm 0.1 ppm  $O_2$ To 30% (Volume) 0.1% (Volume) VOCs 0 to 1,000 ppm 1 ppm Multi RAE Lite - Unit 2 CO 0 to 200 ppm 0.1 ppm CO<sub>2</sub> 0 to 50,000 ppm 100 ppm H<sub>2</sub>S 0 to 100 ppm 0.1 ppm LEL (Methane) 0 to 100% 1%

**Table 2 Multi-Gas Detector Sensor Specifications** 

#### 3.2 MONITORING LOCATIONS

Spot measurements were taken within the North-Western Hotspot area and at surrounding locations to determine whether potential air pollutants from the subsurface hotspot were present. These monitoring locations included the following:

- A-01 General Background
- A-02 NW Hotspot Concrete Cap Surface
- A-03 NW Hotspot Small Mound
- A-04 NW Hotspot NE fence line
- A-05 Exclusion Area Fence Line East of Hotspot (Approx. 10m)
- A-06 Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)
- A-07 Exclusion Area Fence Line South of Hotspot (Approx. 30m)
- A-08 Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)



# **4.SPOT CHECK / REAL TIME AIR MONITORING RESULTS**

The atmospheric pollutant results for each monitoring event are summarised below in Table 3, and locations can be viewed in **Appendix A**.

Date o	f Monitoring: Monday	8 <sup>th</sup> October 2	2018								
Loca	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO²) (ppm)	Sulphur dioxide (SO <sup>2</sup> ) (ppm)	Hydrogen sulphide (H <sup>2</sup> S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO <sup>2</sup> ) (ppm)	Oxygen (O²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	300	0	0	0	0	20.9	0	0	✓
A-02	NW Hotspot – Adjacent Concrete Cap	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-03	NW Hotspot – Small Mound	0	300	0	0	0	0	20.9	0	0	✓
A-04	NE Fence Line Adjacent Hotspot	0	300	0	0	0	0	20.9	0	0	✓
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	300	0	0	0	0	20.9	0	0	✓
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	300	0	0	0	0	20.9	0	0	<b>√</b>



Date o	Date of Monitoring: Wednesday 10 <sup>th</sup> October 2018										
Locat	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO <sup>2</sup> ) (ppm)	Sulphur dioxide (SO <sup>2</sup> ) (ppm)	Hydrogen sulphide (H <sup>2</sup> S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO <sup>2</sup> ) (ppm)	Oxygen (O²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-02	NW Hotspot – Adjacent Concrete Cap	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-03	NW Hotspot – Small Mound	0	300	0	0	0	0	20.9	0	0	<b>✓</b>
A-04	NE Fence Line Adjacent Hotspot	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	300	0	0	0	0	20.9	0	0	<b>✓</b>
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	300	0	0	0	0	20.9	0	0	<b>√</b>
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	300	0	0	0	0	20.9	0	0	<b>√</b>



Date o	Date of Monitoring: Friday 12 <sup>th</sup> October 2018										
Locat	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO²) (ppm)	Sulphur dioxide (SO <sup>2</sup> ) (ppm)	Hydrogen sulphide (H <sup>2</sup> S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO <sup>2</sup> ) (ppm)	Oxygen (O²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-02	NW Hotspot – Adjacent Concrete Cap	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-03	NW Hotspot – Small Mound	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-04	NE Fence Line Adjacent Hotspot	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	400	0	0	0	0	20.9	0	0	<b>√</b>
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	400	0	0	0	0	20.9	0	0	✓



## 5. DISCUSSION

Based on the air quality monitoring data obtained as part of this monitoring assessment, the inhalation risk to human health as a result of the subsurface hotspot remains low. The reasons for this conclusions are as follows:

- Real time monitoring results did not indicate the presence of gas in elevated concentrations; even at the source (i.e. the subsurface hotspot vent source). Concentrations of gases commonly associated with combustion (e.g. carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), volatile organic compounds, sulphur dioxide (SO<sub>2</sub>), hydrogen sulphide (H<sub>2</sub>S), methane (CH<sub>4</sub> – LEL), oxygen (O<sub>2</sub>), nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>), were not detected at concentrations that pose a risk to human health in the North-Western Hotspot area, including locations surrounding the hotspot.

This concludes the interim air monitoring report from the 8<sup>th</sup> October 2018, to the 12<sup>th</sup> October 2018. It is recommended that weekly interim assessments are conducted to continually monitor the potential risk to human health whilst further investigation of the site is undertaken.

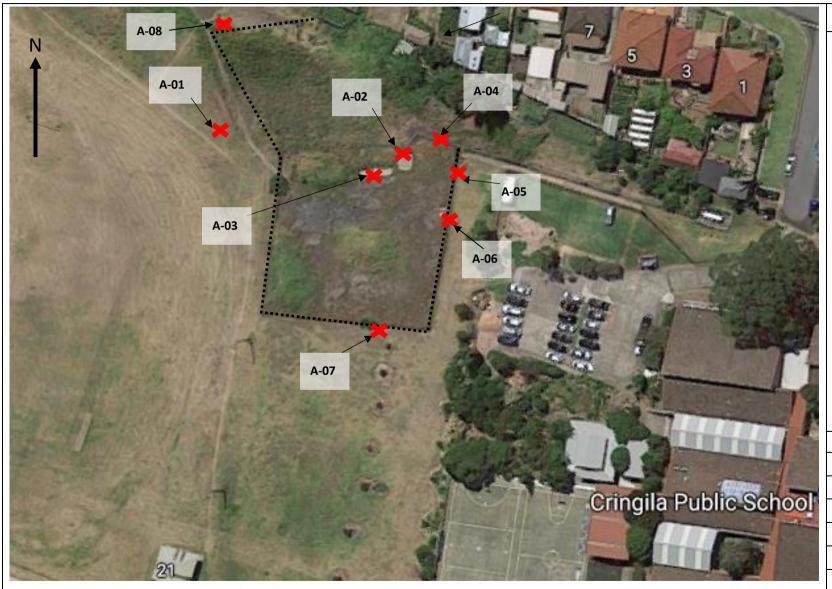


# Air Monitoring Risk Assessment

**Cringila Public School NW Hotspot – 35 Sheffield Street, Cringila NSW 2502** 

**Appendix A: Site Map and Sampling Locations** 





# Legend:



Sampling Location

**A-00** Sample Location ID

Fence-line

Cringila Public School				
Northwest Hotspot				
Ellyssa Angelucci				
Monday, 15 October 2018				
J153825				
AMR-46				
1.0				



# Air Monitoring Risk Assessment

Cringila Public School NW Hotspot – 35 Sheffield Street, Cringila NSW 2502

**Appendix B: Calibration Certificates** 



# Calibration & Service Report Gas Monitor

Company: Active Environmental Solutions Hire Manufacturer: RAE Systems Serial #: MAA30042QB

Contact:Aleks TodorovicInstrument:MultiRAE LiteAsset #:-Address:2 Merchant AvenueModel:PGM 6208Part #:-Thomastown Vic 3074Configuration:PID, OFCHSold:-

Unit ID: - Cal Spec: Std

Item	Test	Pass/Fail	Comments
Battery	Li lon	✓	
Charger	Charger, Power supply	✓	
	Cradle	✓	
Pump	Flow	✓	>300 mL/min
Filter	Filter, fitting, etc	✓	
Alarms	Audible, visual, vibration	✓	
Display	Operation	✓	
PCB	Operation	✓	
Connectors	Condition	✓	
Firmware	Version	✓	1.40
Datalogger	Operation	✓	
Monitor Housing	Condition	✓	
Case	Condition/Type	✓	
Sensors			
Oxygen	02	✓	
LEL	LEL	✓	
PID	10.6eV	✓	
Toxic 1	СО	✓	
Toxic 2	H2S	✓	
Toxic 3			
Toxic 4			
Toxic 5			

# Engineer's Report

Setup, service and calibration for hire

# **Calibration Certificate**

Sensor	Type	Serial No:	Span	Concentration	Traceability	CF	Read	ding
			Gas		Lot#		Zero	Span
Owngon	02	03420555UC	Fresh Air	20.9%	WO163704-3		20.9%	
Oxygen	02	0342033300	Oxygen	18.0%	WO103704-3			18.0%
LEL	LEL	03110703T9	Methane	2.5% (50% LEL)	WO163704-3		0	50%
PID	10.6eV	03A30381QB	Isobutylene	100ppm	689134		0	100ppm
Toxic 1	CO	03060033N5	Carbon Monoxide	50ppm	WO163704-3		0	50ppm
Toxic 2	H2S	03AR0216Q3	Hydrogen Sulfide	10ppm	WO163704-3		0	10ppm
Toxic 3								
Toxic 4								
Toxic 5								

Calibrated/Repaired by: William Pak

Date: 12.07.2018

Next due: 12.01.2019

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# Calibration & Service Report **Gas Monitor**

Active Environmental Solutions Hire Manufacturer: **RAE Systems** Serial #: M01C005735 Company:

Contact: Aleks Todorovic Instrument: MultiRAE Lite Asset #: Model: PGM 6208 Address: 2 Merchant Avenue Part #:

NO, NO2, SO2, CO2 Configuration: Sold: Thomastown Vic 3074 Wireless: Last Cal: -Phone: 03 9464 2300 | **Fax**: 03 9464 3421 Network ID: Job#:

> Unit ID: Cal Spec: Std

Item	Test	Pass/Fail	Comments
Battery	Lilon	✓	
Charger	Charger, Power supply	✓	
	Cradle	✓	
Pump	Flow	✓	>300 mL/min
Filter	Filter, fitting, etc	✓	
Alarms	Audible, visual, vibration	✓	
Display	Operation	✓	
PCB	Operation	✓	
Connectors	Condition	✓	
Firmware	Version	✓	1.40
Datalogger	Operation	✓	
Monitor Housing	Condition	✓	
Case	Condition/Type	✓	
Sensors			
Oxygen			
LEL			
PID			
Toxic 1	NO	✓	
Toxic 2	NO2	✓	
Toxic 3	SO2	✓	
Toxic 4	CO2	✓	
Toxic 5			

## Engineer's Report

Setup, service and calibration for hire

## **Calibration Certificate**

Sensor	Type	Serial No:	Span	Concentration	Traceability	CF	Reading	
			Gas		Lot#		Zero	Span
Oxygen								
LEL								
PID								
Toxic 1	NO	03740026U9	Nitric Oxide	25ppm	WO153855-2		0	25ppm
Toxic 2	NO2	03750052RC	Nitrogen Dioxide	5ppm	WO169855-1		0	5ppm
Toxic 3	SO2	03AF0109T5	Sulfur Dioxide	5ppm	WO155612-5		0	5ppm
Toxic 4	CO2	03610036QC	Carbon Monoxide	5000ppm	WO169824-1		0	5000ppm
Toxic 5								

Calibrated/Repaired by: William Pak

Date: 12.07.2018

Next due: 12.01.2019

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