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

Summary Report 03/06/19 - 14/06/19

Cringila Public School

NSW Department of Education

Cringila Public School

35 Sheffield Street Cringila NSW 2502

June 2019

C107826: J153825: RC/TO

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ABN 76 006 318 010



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Document Control

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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 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 (CO₂), volatile organic compounds, sulphur dioxide (SO₂), hydrogen sulphide (H₂S), methane (CH₄ – LEL), oxygen (O₂), nitric oxide (NO) and nitrogen dioxide (NO₂).
- 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 between 3rd June 2019 and 14th June 2019, 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 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 ^a
		9 ppm	ASHRAE Standard 62.1-2016
		30 ppm	SWA 2013 ^b
Carbon dioxide (CO²)	8-hours	5000 ppm	SWA 2013 ^b
		Not greater than 700 ppm above local outdoor concentration levels	ASHRAE Standard 62.1-2016
Sulphur dioxide (SO ²)	24-hours	0.08 ppm (8 ppm)	NSW EPA 2016 ^a
	8-hours	2 ppm (5 ppm STEL) ^d	SWA 2013 ^b
Hydrogen sulphide (H ² S)	8-hour	10 ppm (15 ppm STEL) ^d	SWA 2013
		0.9 ppm (Peak)	NSW EPA 2016
Nitric oxide (NO)	8-hour	25 ppm	SWA 2013
Nitrogen dioxide (NO ²)	1-hour	0.12 ppm (12 ppm)	NSW EPA 2016 ^a
	8-hours	3 ppm (5 ppm STEL) ^d	SWA 2013 ^b
Oxygen (O²)	-	19.5-23.5%	SWA 2011 ^c
Volatile organic compounds (VOC)	-	Contaminant specific	-
Methane (as LEL)	+	<5%	SWA 2011 ^c

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 (CO₂), volatile organic compounds (VOCs), sulphur dioxide (SO₂), hydrogen sulphide (H₂S), methane (CH₄) as LEL, oxygen (O₂), nitric oxide (NO) and nitrogen dioxide (NO₂).

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 **RANGE RESOLUTION SENSOR** Multi RAE Lite - Unit 1 SO₂0 to 20 ppm 0.1 ppm NO 0 to 250 ppm 0.5 ppm NO_2 0 to 20 ppm 0.1 ppm To 30% (Volume) 0.1% (Volume) O_2 VOCs 0 to 1,000 ppm 1 ppm Multi RAE Lite - Unit 2 CO 0 to 200 ppm 0.1 ppm CO₂ 0 to 50,000 ppm 100 ppm H₂S 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 in the tables below, and monitoring locations can be viewed in **Appendix A**.

Date o	f Monitoring: Tuesday	4 th June 2019	9								
Locat	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO ²) (ppm)	Sulphur dioxide (SO ²) (ppm)	Hydrogen sulphide (H ² S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO ²) (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	0.1	20.9	0	0	√
A-02	NW Hotspot – Adjacent Concrete Cap	0	300	0	0	0	0.1	20.9	0	0	√
A-03	NW Hotspot – Small Mound	0	300	0	0	0	0.1	20.9	0	0	√
A-04	NE Fence Line Adjacent Hotspot	0	300	0	0	0	0.1	20.9	0	0	√
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	300	0	0	0	0.1	20.9	0	0	√
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	300	0	0	0	0.1	20.9	0	0	√
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	300	0	0	0	0.1	20.9	0	0	√
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	300	0	0	0	0.1	20.9	0	0	√



Date o	f Monitoring: Thursday	13 th June 20	019								
Loca	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO ²) (ppm)	Sulphur dioxide (SO ²) (ppm)	Hydrogen sulphide (H ² S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO ²) (ppm)	Oxygen (O²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	500	0	0	0	0	20.9	0	0	✓
A-02	NW Hotspot – Adjacent Concrete Cap	0	500	0	0	0	0	20.9	0	0	√
A-03	NW Hotspot – Small Mound	0	500	0	0	0	0	20.9	0	0	√
A-04	NE Fence Line Adjacent Hotspot	0	500	0	0	0	0	20.9	0	0	√
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	500	0	0	0	0	20.9	0	0	✓
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	500	0	0	0	0	20.9	0	0	√
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	500	0	0	0	0	20.9	0	0	✓
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	500	0	0	0	0	20.9	0	0	√



Loca	tion	Carbon monoxide	Carbon dioxide	Sulphur dioxide	Hydrogen sulphide	Nitric oxide	Nitrogen dioxide	Oxygen (O²) (%)	Volatile organic	Methane (as LEL) (%)	Within Acceptable
		(CO) (ppm)	(CO ²) (ppm)	(SO ²) (ppm)	(H ² S) (ppm)	(NO) (ppm)	(NO ²) (ppm)		compounds (VOC) (ppm)		Limits?
A-01	General Background – West of Site Fence	0	300	0.1	0	0	0	20.9	0	0	√
A-02	NW Hotspot – Adjacent Concrete Cap	0	300	0.1	0	0	0	20.9	0	0	✓
A-03	NW Hotspot – Small Mound	0	300	0.1	0	0	0	20.9	0	0	√
A-04	NE Fence Line Adjacent Hotspot	0	300	0.1	0	0	0	20.9	0	0	✓
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	300	0.1	0	0	0	20.9	0	0	√
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	300	0.1	0	0	0	20.9	0	0	✓
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	300	0.1	0	0	0	20.9	0	0	✓
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	300	0.1	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 conclusion is 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 (CO₂), volatile organic compounds, sulphur dioxide (SO₂), hydrogen sulphide (H₂S), methane (CH₄ – LEL), oxygen (O₂), nitric oxide (NO) and nitrogen dioxide (NO₂), 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 air quality monitoring summary report from 3rd June 2019, to 14th June 2019. It is recommended that weekly assessments are conducted to continually monitor the potential risk to human health whilst further investigation of the site is undertaken.

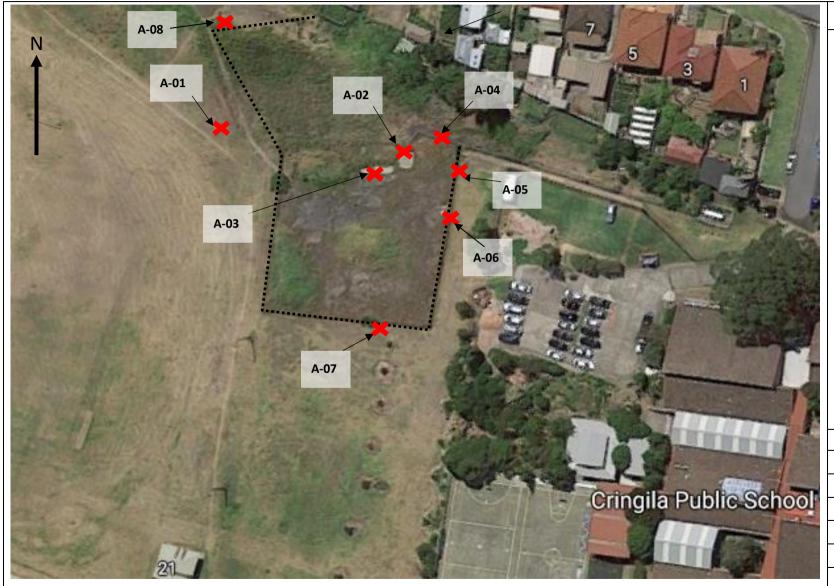


Air Monitoring Risk Assessment

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

Site	Cringila Public School
Area	Northwest Hotspot
Consultant	Tom Oyston/Rowan Clark
Date	Tuesday, 25 June 2019
Job Number	J153825-02
Report	AMR-11
Version	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 – MultiRAE Lite

Company: Active Environmental Solutions Hire Contact: William Pak/Milenko Sisic Address: Unit 16, 191 Parramatta Road

AUBURN NSW 2144

Phone: 02 9716 5966 | **Fax**: 02 9716 5988

Email: hire@aesoultions.com.au

Manufacturer: **RAE Systems** Serial #: M01C005769 Instrument: MultiRAE Lite Hire #: BN2215 PGM6208 Model: Client: Tom Oyston H2S, LEL, SO2, CO, CO2 Configuration: Company: Greencap

Wireless: N/A Project #: PO257461

ltem	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		-	
LEL	LEL	✓	
PID		-	
Toxic 1	H2S	✓	
Toxic 2	SO2	✓	
Toxic 3	CO	✓	
Toxic 4	CO2	✓	
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
Oxygen								
LEL	LEL	-	Methane	2.5% (50% LEL)	D753454		0	50%
PID								
Toxic 1	H2S	-	Hydrogen Sulfide	10ppm	D753454		0	10ppm
Toxic 2	SO2	-	Sulfur Dioxide	5ppm	WO182522-2		0	5ppm
Toxic 3	CO	-	Carbon Monoxide	50ppm	D753454		0	50ppm
Toxic 4	CO2	-	Carbon Dioxide	5000ppm	WO169824-1		0	5000ppm
Toxic 5								

Calibrated/Repaired by: William Pak

Date: 06.06.2019

Next due: 06.12.2019

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Calibration & Service Report Gas Monitor – MultiRAE Lite

Company: Active Environmental Solutions Hire **Contact:** William Pak/Milenko Sisic

Address: Unit 16, 191 Parramatta Road

AUBURN NSW 2144

Phone: 02 9716 5966 | **Fax**: 02 9716 5988

Email: hire@aesoultions.com.au

Manufacturer: Serial #: MAA30065R4 **RAE Systems** BN2215 Instrument: MultiRAE Lite Hire #: PGM6208 Model: Client: Tom Oyston O2, NO, NO2, CO, PID Configuration: Company: Greencap

Wireless: N/A Project #: PO257461

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	O2	✓	
LEL		-	
PID	10.6eV	✓	
Toxic 1	NO	✓	
Toxic 2	NO2	✓	
Toxic 3	CO	✓	
Toxic 4		_	
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
Owigon	02		Fresh Air	20.9%	D753454		20.9%	
Oxygen	02	-	Oxygen	18.0%	D/53454			18.0%
LEL								
PID	10.6eV	-	Isobutylene	100ppm	WO148384-1		0	100ppm
Toxic 1	NO	1	Nitric Oxide	25ppm	WO153855-2		0	25ppm
Toxic 2	NO2	1	Nitrogen Dioxide	5ppm	WO198058-1		0	5ppm
Toxic 3	CO	1	Carbon Monoxide	50ppm	D753454		0	50ppm
Toxic 4								
Toxic 5								

Calibrated/Repaired by: William Pak

Date: 06.06.2019

Next due: 06.12.2019

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