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NSW Department of Education

Quarterly Site Inspection Report – Q1 2025

Cringila Public School –
35 Sheffield Street,
Cringila NSW

wsp

April 2025

Question today *Imagine tomorrow* Create for the future

Quarterly Site Inspection Report – Q1 2025
Cringila Public School – 35 Sheffield Street, Cringila NSW
NSW Department of Education

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WSP acknowledges that every project we work on takes place on First Peoples lands.
We recognise Aboriginal and Torres Strait Islander Peoples as the first scientists and engineers and pay our respects to Elders past and present.

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1. Site Inspection Checklist (completed by WSP consultant)

Inspection Item	Yes	No	Action Required
<p>Were all areas of the site inspected? (see Appendix B)</p> <p>1 Former north-western hotspot area</p> <p>2 Western carpark & garden</p> <p>3 Basketball courts & play area</p> <p>4 Northern & southern grassed areas</p>	✓		<p>Continue inspections of all areas of the site on a regular basis (quarterly for all areas).</p> <p>Make note of any areas that are inaccessible at time of inspection.</p>
Was the exclusion zone fencing surrounding the former north-western hotspot area intact?	✓		<p>Continue inspections of exclusion zone fencing on a quarterly basis.</p> <p>If exclusion zone fencing is not intact, take a photo and mark the area of concern. Inform the School Principal.</p>
Was any evidence of subsidence or slope failure observed within the north-western hotspot area?		✓	<p>Continue inspections of the former north-western hotspot area on a quarterly basis.</p> <p>If evidence of subsidence or slope failure is observed, take a photo and undertake spot monitoring for gases of concern. Inform the WSP Project Managers (Sydney & Wollongong).</p>
Was any visual or olfactory evidence of combustion (e.g. fumes, smoke, sulphurous smell) observed within the former north-western hotspot area?		✓	<p>Continue inspections of former north-western hotspot area on a quarterly basis.</p> <p>If visual or olfactory evidence of combustion is observed, take a photo and undertake spot monitoring for gases of concern. Inform the WSP Project Managers (Sydney & Wollongong).</p>
Was any evidence of deteriorating vegetation observed within the former north-western hotspot area? (see Section 2.5)	✓		<p>Continue inspections of former north-western hotspot area on a quarterly basis.</p> <p>If evidence of deteriorating vegetation is observed, take a photo and inform the WSP Project Managers (Sydney & Wollongong).</p>
Was quarterly near-surface temperature monitoring conducted within the former north-western hotspot area?	✓		<p>Continue near-surface temperature monitoring on a quarterly basis.</p> <p>If monitoring identifies concerning high temperatures or rapid change in the spatial extent of the underground hotspot, inform the WSP Project Managers (Sydney & Wollongong).</p>
Was quarterly indoor air quality monitoring conducted within school buildings?	✓		<p>Continue indoor air quality monitoring on a quarterly basis.</p> <p>If monitoring identifies concentrations of hazardous gases in exceedance of assessment criteria, inform the WSP Project Managers (Sydney & Wollongong).</p>
Was quarterly subsurface gas monitoring conducted within installed gas wells and service pits?	✓		<p>Continue subsurface gas monitoring on a quarterly basis.</p> <p>If monitoring identifies concentrations of hazardous gases in exceedance of assessment criteria, inform the WSP Project Managers (Sydney & Wollongong).</p>

If at any time a Critical Incident or emergency occurs, follow the protocols set out in Section 9 of the Interim Site Management Plan (ISMP Version 3, December 2018).

2 Discussion

2.1 Near-surface and In-Situ Temperature Monitoring

Near-surface and in-situ temperature monitoring results carried out on 27 March 2025 (Q1) indicated that the spatial extent of the northwest hotspot appears to remain localised. Temperatures were mostly observed to remain within the acceptably cool range (30°C or less) during the period of monitoring. IW4 and IW5 had a temperature reading slightly above 30°C, previous results show that the temperatures fluctuate over the year and this exceedance does not indicate combustion is occurring.

2.2 Indoor Air Quality Monitoring

Indoor air quality monitoring results for 27 March 2025 (Q1) did not indicate the presence of monitored gases in concentrations that may pose risks to health.

Carbon dioxide (CO₂) concentrations were compared against the ASHRAE Standard 62-2010 *Ventilation for Acceptable Indoor Air Quality* (American Society of Heating, Refrigeration and Air-Conditioning Engineers). Carbon monoxide (CO) concentrations are compared against the National Environment Protection (Ambient Air Quality) Measure (EPA 2016). Concentrations of carbon dioxide and carbon monoxide did not exceed the thresholds set by the adopted guidelines.

2.3 Subsurface Gas Monitoring

Subsurface gas monitoring results obtained during the Q1 2025 inspection, undertaken on 27 March 2025, did not indicate the presence of an unacceptable risk associated with hazardous ground gases at the site.

The calculated Gas Screening Values for methane (CH₄) and carbon dioxide (CO₂) corresponded to a Characteristic Situation 1 (CS1 – “Very Low Risk”) classification across all monitoring wells.

In addition, gas emissions from service pits were recorded below relevant assessment criteria and were indicative of background concentrations.

2.4 Remediation Works

From February 2021 to January 2022, Synergy Resource Management were engaged to undertake remediation works within the site. These works included minor earthworks, minor demolition works, slope stabilisation works, borehole drilling, the installation of equipment for water injection and temperature monitoring, the commencement of water injection, and the use of targeted water injection. Photographs of the site, both current and during past works, can be seen in **Appendix A**. As of January 2022, Synergy Resource Management are no longer responsible for the remediation works and have vacated the site. Next stage of the works will involve capping of the site as per the RAP Addendum issued by WSP and approved by the Auditor.

2.5 Site Maintenance Works

In January 2024, general site maintenance works were undertaken within the hotspot area by an unidentified contractor, as advised by Rachel Crispin via email on 12 January 2024. The works comprised:

- Trimming of overgrown vegetation and application of herbicide, with vegetation reduced to approximately 300mm above ground level;

- Removal of rubbish and litter throughout the hotspot area;
- Removal of fibre cement debris (presumed asbestos-containing material) from the ground surface in the northern portion of the site;
- Installation of erosion control barriers within the northern portion of the site;
- Placement of jute matting and application of fresh soil to cap exposed sections of stockpiles; and
- Establishment of exclusion zones (barrier mesh and warning signage) around asbestos-impacted areas.

WSP recommends that general site maintenance works continue to be undertaken on a periodic basis, as required, informed by vegetation regrowth and other factors that may impact the condition and integrity of the former hotspot area.

During the Q1 2025 quarterly inspection, undertaken on 27 March 2025, vegetation regrowth was observed in several areas across the site. Accordingly, further vegetation maintenance works are recommended. In addition, deterioration of fencing adjacent to the stockpiles was observed and maintenance works to repair or replace damaged sections are also recommended.

2.6 Ongoing Monitoring

The remediation works appear to have had a positive cooling effect across the former hotspot area. As of the Q1 2025 inspection, undertaken on 27 March 2025, the remediation temperature monitoring points were observed to be within an acceptably low range (approximately 30°C or below).

This observation, together with consistently low-risk results from ambient air, indoor air, and ground gas monitoring, indicates that the risk to human health posed by the former hotspot remains low and within acceptable levels.

Temperature, indoor air, and ground gas monitoring are ongoing and conducted on a quarterly basis, with reporting also undertaken quarterly. Ambient air monitoring has ceased, reflecting the sustained stability of site conditions.

3 Limitations statement

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Appendix A

Site Photographs





Photo A.1 Former hotspot site as of 27 March 2025



Photo A.2 Former hotspot site as of 27 March 2025



Photo A.3 Former hotspot site as of 27 March 2025



Photo A.4 Former hotspot site as of 27 March 2025



Photo A.5 Northern stockpile prior to maintenance works (representative photo)



Photo A.6 Northern stockpile following maintenance works (representative photo)



Photo A.7 Northwest section of site prior to maintenance works (representative photo)



Photo A.8 Northwest section of site following maintenance works (representative photo)

Appendix B

Site Map





Legend:

- 1 Former north-western hotspot area



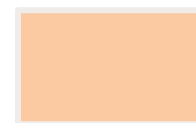
- 2 Western carpark & garden



- 3 Basketball courts & play area



- 4 Northern & southern grassed areas



Site	Cringila Public School
Consultant	Hamish Cowan
Date	Q1 2025
Job Number	PS210870
Version	1.0