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NSW Department of Education

Quarterly Site Inspection Report – Q4 2024

Cringila Public School –
35 Sheffield Street,
Cringila NSW

wsp




January 2025

Question today *Imagine tomorrow* Create for the future

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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 Greencap 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 Greencap Project Managers (Sydney & Wollongong).</p>
Was any evidence of deteriorating vegetation observed within the former north-western hotspot area?	✓		<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 Greencap 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 Greencap 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 Greencap 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 Greencap 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 6 December 2024 (Q4) 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. IW20 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 5 December 2024 (Q4) 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 for 5 December 2024 (Q4) did not indicate the presence of an unacceptable risk associated with hazardous ground gasses on-site.

The calculated Gas Screening Values for methane (CH₄) and carbon dioxide (CO₂) indicated a Characteristic Gas Situation of CS1 (“Very Low Risk”) in all monitoring wells. Results also indicated that gas emissions from service pits were below relative criteria and 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 Greencap and approved by the Auditor.

2.5 Site Maintenance Works

During **January 2024** (as informed by email from Rachel Crispin received on 12 January 2024), general site maintenance works were undertaken by an unknown contractor within the hotspot area, including:

- Trimming of overgrown vegetation to heights of approximately 300 mm above ground level;
- General removal of rubbish and litter throughout the area;

- Removal of fibre cement (presumed asbestos) debris from the ground surface of the northern portion of the site;
- Installation of erosion control barriers within the north portion of the site;
- Installation of jute matting and fresh soil to cap exposed sections of stockpiles; and
- Installation of exclusion zoning (barrier mesh and warning signage) around all asbestos contaminated zones.

WSP recommends general site maintenance works be undertaken periodically as required, based on vegetation growth and other factors that may affect the condition of the former hotspot area.

As of 6 December 2024 (Q4) Quarterly inspection, vegetation growth in various areas of the site has occurred.

Maintenance works are recommended to trim vegetation.

2.6 Ongoing Monitoring

The remediation works appear to have had a positive cooling effect across the hotspot. As of 6 December 2024 (**Q4**), the remediation temperature monitoring points were observed to be within an acceptably cool range (approximately 30°C or less). This, combined with consistent low-risk results in ambient air, indoor air and ground gas monitoring, indicates that the risk to human health posed by the former hotspot remained in low and acceptable levels.

Temperature monitoring is taking place on a Quarterly basis, with reporting quarterly, and indoor air and ground gas monitoring and reporting are also undertaken quarterly. Ambient air monitoring is no longer be conducted.

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Appendix A

Site Photographs





Photo A.1 Former hotspot site as of 6 December 2024



Photo A.2 Former hotspot site as of 6 December 2024



Photo A.3 Former hotspot site as of 6 December 2024



Photo A.4 Former hotspot site as of 6 December 2024



Photo A.5 Northern stockpile prior to maintenance works



Photo A.6 Northern stockpile following maintenance works



Photo A.7 Northwest section of site prior to maintenance works

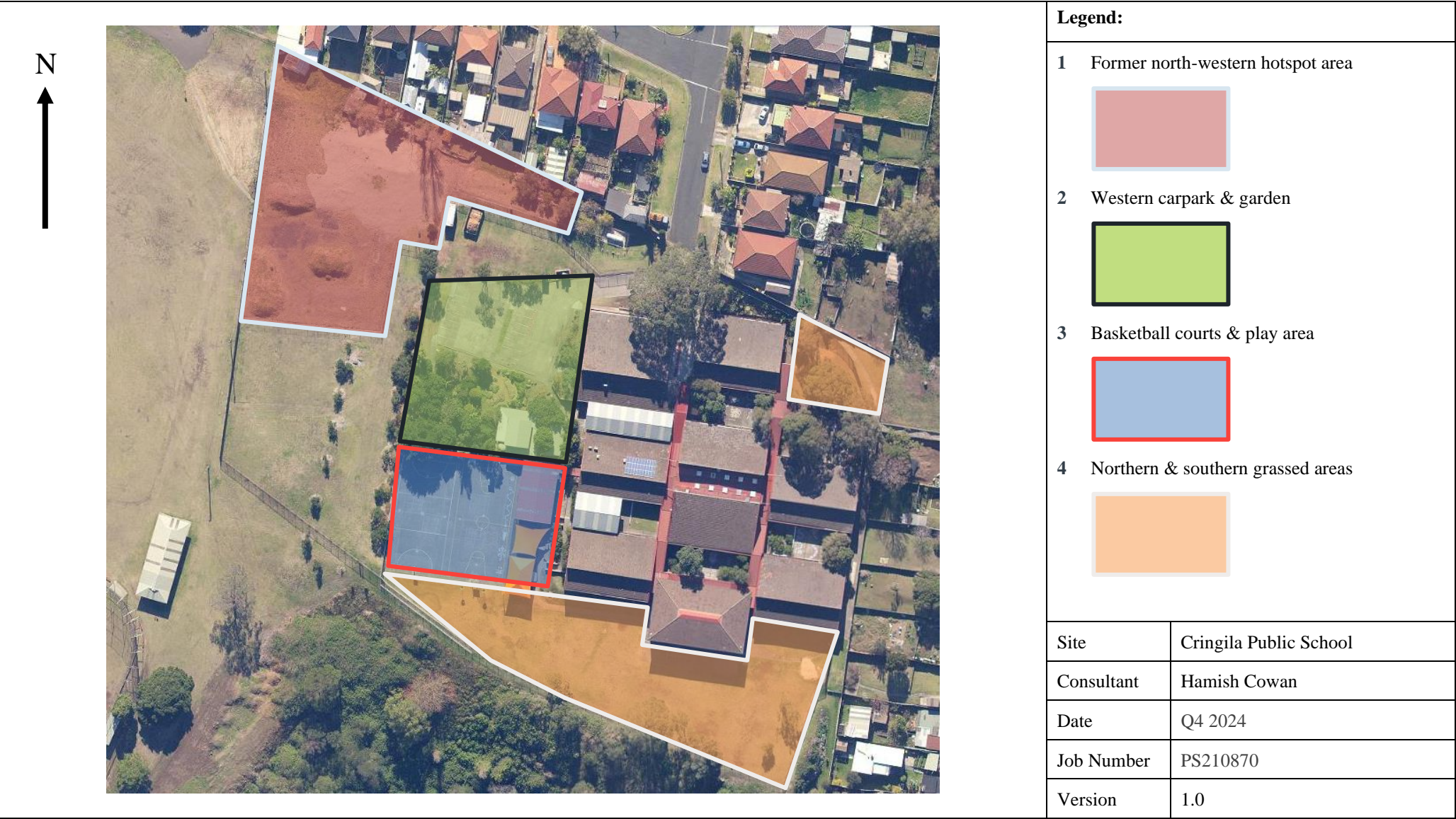


Photo A.8 Northwest section of site following maintenance works

Appendix B

Site Map





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