

Schools Infrastructure NSW

14 January 2021

Ref: 1022436

Jordan Springs Public School

ESD Statement of Compliance

Cundall were engaged to provide an independent ESD review of the design and construction of Jordan Springs Public School.

Please find attached an ESD Statement of Compliance in accordance with conditions B9 and E14 of SSD 9354.

For and on behalf of Cundall Johnston and Partners Pty Ltd



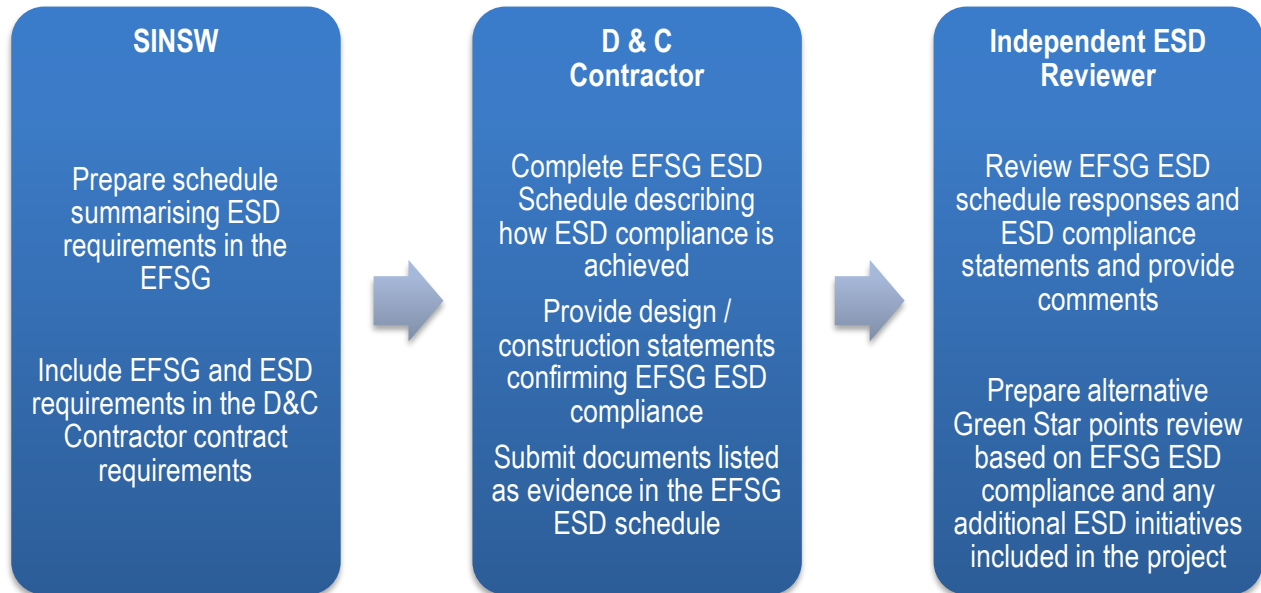
David Clark

Director

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Alternative ESD Certification Process & Compliance Review

The alternative ESD certification process for the project is summarised in the diagram below. This is based on the project complying with the ESD requirements set out in School Infrastructure NSW (SINSW)'s Educational Facilities Standards and Guidelines (EFSG) and comparing this to a 4 star Green Star benchmark.



To benchmark the EFSG ESD requirements against a 4 star Green Star Design & As-Built v1.2 rating to meet SSD 9354 condition B9 the following methodology was used:

1. Identify the Green Star credit compliance requirements that are covered, in part or full, by the ESD requirements in the EFSG Design Guides. For each credit identified establish the "EFSG equivalence in stringency" from 25% to 100%. For example, if the EFSG requirements address approximately half of the Green Star compliance requirements then the equivalent stringency factor would be 50%. These stringency factors were agreed following discussions with SINSW.
2. The points available for a credit based on complying with the relevant EFSG ESD requirements is then calculated as follows: Green Star Credit Points Available x EFSG Stringency Factor (%).
3. If the EFSG ESD requirements are achieved on the project (as described in the EFSG ESD Schedule completed by the D&C Contractor) then the points available, as calculated in item 2, are assumed to be achieved.
4. These points are then summed to give the total achieved through EFSG compliance.
5. If the project has delivered ESD initiatives beyond the minimum required by the EFSG, and these would be recognised in a formal Green Star rating, then additional points (up to the total available for that credit) can be added to the total.
6. If the total points achieved is greater than 45 points then the project is assumed to have achieved the required ESD performance benchmark for the purposes of demonstrating compliance with SSD condition B9.

To meet SSD 9354 condition E14 the project's ESD response was reviewed by Cundall, an independent ESD Consultant, in accordance with the process described above.

Documents Provided

The following documents were provided for the ESD Compliance review.

ESD compliance documentation prepared by or behalf of Richard Crookes:

- EFSG ESD Schedule
- EFSG Departures Schedule
- ESD Compliance Statement from Richard Crookes
- ESD Compliance Statements from consultants / contractors

As-Built Drawings prepared by or behalf of Richard Crookes:

- Architectural
- Landscape
- Structural
- Civil
- Mechanical
- Electrical
- Hydraulic
- Vertical Transport

Other documentation prepared by or on behalf of Richard Crookes:

- NCC 2016 Section J JV3 report – prepared by Meinhardt (April 2019)
- Electrical Services Specification – prepared by Meinhardt (April 2019)
- Hydraulic Services Specification – prepared by Meinhardt (April 2019)
- NSW EPA Site Audit (contaminated land) – prepared by Zoic Environmental (10 Sep 2019)
- Green Travel Plan – prepared by GTA (April 2020)
- Construction Waste Reports (samples)
 - Nov 2019 – Grasshopper
 - Dec 2019 to May 2020 – Fresh Start Australia

Documentation prepared for D&C Tender:

- Mechanical specification – prepared by WSP (Dec 2018)

Documentation prepared for DA:

- ESD Report – prepared by WSP (25 Jan 2019)
- Preliminary Environmental Site Assessment – prepared by EIS (23 Jan 2019)
- Civil Design Report – prepared by Northrop (14 Feb 2019)
- Aboriginal cultural heritage assessment report – prepared by Biosis (25 Jan 2019)
- DA Access Report – prepared by Certis Access Consultancy (25 Jan 2019)
- Bushfire Assessment – prepared by Peterson Bushfire (25 Jan 2019)

- Flood Risk Assessment – prepared by WSP (25 Jan 2019)
- Environmental Management Plan – prepared by Richard Crookes (January 2019)
- Traffic Impact Assessment – prepared by Bitzios (13 Feb 2019)
- Green Travel Plan – prepared by Bitzios (31 Jan 2019)
- Construction Waste Management Plan – prepared by EcCell (Jan 2019)

The following documents were not reviewed by Cundall but have been provided by Richard Crookes to SINSW:

- Department of Education Reconciliation Action Plan – prepared by SINSW
- NCC Section J compliance reports
- Access Occupation Certificate
- O&M Manuals
- Product Data Sheets
- Commissioning Documents
- Acoustic reports

Review Activity

The EFSG ESD Schedule and the ESD compliance statements provided by Richard Crookes, confirming that the design and construction of the project meets all the ESD requirements set out in the EFSG with no material departures, are complete and comply with the agreed ESD compliance reporting requirements for the project.

The EFSG Departures Schedule prepared by Richard Crookes did not identify any departures from the ESD requirements in the EFSG Design Guides.

Cundall undertook spot checks of the referenced evidence documentation provided by Richard Crookes. No material deviations from the EFSG ESD schedule response or the ESD compliance statements were found during the spot checks.

Alternative ESD Certification Review

Cundall have undertaken a review of the ESD performance of the project based on the information provided by Richard Crookes and in accordance with the agreed alternative ESD certification methodology.

The methodology uses the Green Star Design & As-Built rating tool to establish benchmarks against which the project response is compared.

Under the Alternative ESD Certification Process a minimum of 45 points is required. The breakdown of points achieved on the project based on the independent review is shown in the table below.

	Total Points available in Green Star Rating Tool	Green Star points addressed in part or full in EFSG Design Guides	Equivalent points based on stringency of EFSG ESD requirements		Equivalent Points achieved on this project based on EFSG compliance	Additional ESD initiatives implemented beyond EFSG requirements	Total Equivalent Points achieved on project
Management	14	11	7		7	0	7
Indoor Environment Quality	17	14	11		11	0	11
Energy	22	7	7		7	0	7
Transport	10	3	2		2	0	2
Water	12	6	5		5	0	5
Materials	14	2	2		2	0	2
Land Use & Ecology	6	4	3		3	0	3
Emissions	5	4	2		2	0	2
Innovation	10	7	7		7	0	7
Total	110	58	46		46	0	46

Conclusion

An ESD performance benchmark for the design and construction of the project was established by comparing the EFSG ESD requirements to the credit compliance and points requirements of a 4 star Green Star Design & As-Built v1.2 rating.

Based on this review the project's ESD performance meets the required benchmark using the alternative ESD certification process.