



Westbourne Grammar School

Middle Years 5 – 8 Learning Centre

Sustainability Management Plan / prepared for Westbourne Grammar School



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Introduction 1

1.1 Purpose

Waterman has been engaged to prepare Sustainability Management Plan for the proposed educational development.

This Sustainability Management Plan lists the sustainable initiatives and attributes currently considered for the design of the project. The project team will endeavour to ensure that all aspects of the design listed within this report are fully implemented into the design documents and the constructed building.

1.2 General Scope of Work

The project involves the development of a new Middle Years Learning Centre (Years 5 to 8) at Westbourne Grammar School in Truganina.

Westbourne Grammar School is situated over three separate allotments. The proposed new building will be located at the centre of the school site (referred to as Lot 2) and shall be accessible via Sayers Road.

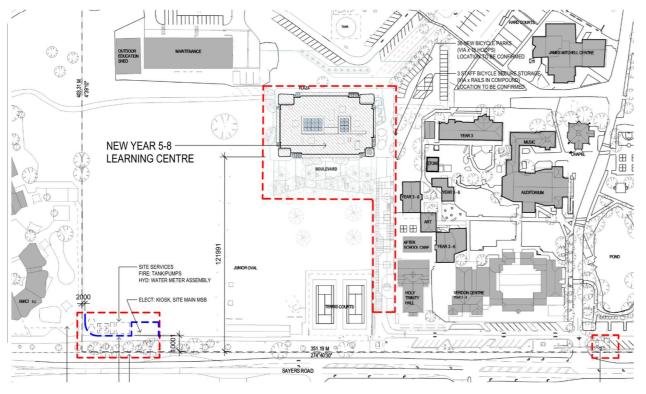


Figure 1.1 – Site Location Plan(from Baldasso Cortese, A-TP101 Rev B)

The facility shall contain approximately 5,800m² of new learning, collaboration, staff and wellbeing areas located over three floors:

Ground Floor

- > General learning areas.
- > Collaboration and breakout areas.
- > Staff offices and meeting rooms.
- > Health and wellbeing centre.
- > Student café.
- > Staff and student amenities.
- > New main communications room.





Level 1

- > General learning areas.
- > Innovation Hub.
- > Collaboration and breakout areas.
- > Staff offices and meeting rooms.
- > Health and wellbeing centre.
- > Multipurpose room.
- > Staff and student amenities.



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Figure 1.3 – Proposed Level 1 Plan (from Baldasso Cortese, A-TP202 Rev B)

Level 2

- General learning areas. >
- Innovation Hub. >
- Collaboration and breakout areas. >
- > Staff offices and meeting rooms.
- Staff lounge. >
- Staff and student amenities. >

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Figure 1.4 – Proposed Level 2 Plan (from Baldasso Cortese, A-TP203 RevB)

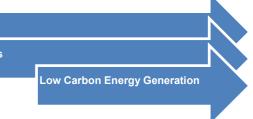
1.3 **Design Philosophy**

Sustainability has been integrated into the heart of this development with careful consideration given to sustainable outcomes from the initial siting, massing and orientation of the building.

In addition to these core features, this project has included wide ranging initiatives to ensure the building is a healthy, energy and water efficient building with a minimal ecological footprint.

Site, Orientation and Building Form	
	Efficient Building Systems

The proposed building services arrangements presented within this report have been based on the above briefing information, discussions / directions from the Client, and our relevant experience in comparable facilities.





Planning Control

Statutory Framework 1.4

This Sustainability Management Plan benchmarks the project against the relevant planning requirements of the relevant authority.

For this project, the relevant authority is the City of Wyndham and the following benchmarks are required to be satisfied.

Planning Control	Project Response		20 re
PP 15.01-2L-01 Environmentally ustainable development		This copied document to be made available for the sole purpose of enabling its consideration and review as	a a re
The application requirements apply to the development of a non-residential building" which including;	The project achieves a score of 52% under the BESS scorecard, which achieves the overall minimum required score for the Best Practice outcomes for the project sustainable design.	part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach any convright	
 A Sustainability Management Plan including an assessment using 	The BESS report is attached as Appendix A.	CONVEIGNT	ra
BESS/Green Star, STORM/Music or other methods.A Green Travel Plan	The BESS IEQ requires a minimum 33% of regular use floor area achieving a target Daylight Factor of not less than 2% as one of the mandatory requirements.		A T P w
	A preliminary daylight modelling assessment has been undertaken and is currently indicating 31% of the regular use areas are achieving a Daylight Factor of 2.0 or more. This is in line with general expectations given the room depth requirements of modern education facilities.	1.5 Sources of Information and Limitation	
	As the design is further refined in conjunction	This report has been based on the following	g archite
	with the thermal performance modelling for the building, it is expected that the additional 2% required to achieve the compliance threshold of 33% will be achieved.	 > Baldasso Cortese Architecture. Job Num B. Date: 24.05.2023. 	ber: 202
/ERTISED PLAN	It is expected that these refinements will include aspects such as shading design, resolution of the final glass specification and internal material selections and colours.	This Sustainability Management Plan is documentation and project briefing require understanding of the key design considerat this type and size in order to reduce the dev from the school has also been considered a	ements is ions that elopmen
	All roof and exposed flooring forming the thermal envelope are to achieve an increase of 10% from the minimum Section J requirements.	This report has been specifically prepared f	or the or
		No responsibility or liability to any third par- use of this report by any third party. Any th this report should confer with Waterman particular requirements.	ird party
		This report is not to be used for any other p	roject.

Α

Project Response

A summary of the NCC Section J DTS assessment results and BESS Energy minimum requirements to the building fabrics is attached as Appendix B.

0% of non-trafficable roof area, 1,500m², is ecommended for solar PV panel installation nd as such, a minimum of 28kW solar PV rray is recommended to the project on-site enewable energy generation.

STORM rating assessment has been ndertaken. The report is attached as ppendix C and a minimum of 36,000L of ainwater tanking is recommended.

Green Travel Plan has been prepared by &TS Transport and Traffic Solutions. lease refer to sperate document included ithin the Town Planning submission.

ctural information:

20008. Town Planning Drawing Set – Revision

on our interpretation of the architectural ssued to us to date. It is also based on our we believe are beneficial to a development of t's impact on the environment. Initial feedback this assessment.

ganisation noted on the cover of the report.

epted for any loss or damage arising from the wishing to act upon any material contained in iled advice to take into account that party's



Summary and Conclusions 2

This report outlines a number of sustainable design initiatives which are to be integrated into the design and specification of the proposed development in order to reduce the development's environmental impact.

The performance outcomes presented in this report demonstrate that the proposed development meets the City of Wyndham standard for sustainable development.

2.1 BESS

The project achieves a score of 52% under the BESS scorecard, which achieves the overall minimum required score.

The project does however fail to achieve the Mandatory daylighting target as outlined within Section 1.4 of this report.

The project is currently achieving compliance for 31% of the regular use areas. This is in line with general expectations given the room depth requirements of modern education facilities.

As the design is further refined in conjunction with the thermal performance modelling for the building, it is expected that the additional 2% required to achieve the compliance threshold of 33% will be achieved which will demonstrate compliance with the Mandatory Credit Criteria.

It is expected that these refinements will include aspects such as shading design, resolution of the final glass specification and internal material selections and colours.

Project Commitments 2.2

A list of the initiatives proposed to be included within the design has been provided in the Implementation Plan section of this report.

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Water Resources 3

3.1 Water Balance

A carefully designed, holistic water strategy can reduce the reliance of a building on potable water supply and local water catchment areas, while improving the local biodiversity. A typical water strategy will include the following objectives.

- Reduce water demand through efficient fittings and fixtures. >
- Collect and reuse rainwater for irrigation in lieu of potable water supply. >
- Treat outflows from the site to minimise pollutants in the local stormwater systems. >

3.2 Water Efficiency

This project will incorporate efficient fittings and fixtures designed to minimise water use within the building.

Kitchen Taps	6 Star WELS
Vanity Taps	6 Star WELS
WC's	5 Star WELS
Urinals	6 Star WELS

3.3 Rainwater Collection and Reuse

This project includes various non-trafficable roof areas suitable for rainwater collection. This rainwater will be collected for reuse in a rainwater tank and used in landscape irrigation and toilet flushing to the building.

If a rainwater tank is too small for the collection area, it will often overflow and will not provide sufficient rainwater collection. If it is too large for the water demand, the extra water collected will not be used. The recommended size for this building is based on a holistic water balance where the water supply and water demand has been analysed and the optimal tank size has been selected.

Based on the results of the analysis in the STORM rating assessment, the optimal tank size for this building is 36,000L at the minimum, which is expected to meet approximately 80% of the building's demand for non-potable water.

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TransactionID:

Municipality: Rainfall Station:

Address:

1586609	
WYNDHAM (North/East of Skeleton C	Ck)
WYNDHAM (North/East of Skeleton C	Ck)
300 Sayers Road	

	Truganina	
	VIC	3029
Assessor:		
Development Type:	Other	
Allotment Site (m2):	2,488.00	
STORM Rating %:	101	
		Transforment Trans
Description	Impervious Area (m2)	Treatment Type
Description Skylight Roofing West		Rainwater Tank
500 80 8 10 10 10 800	(m2)	
Skylight Roofing West	(m2) 150.00	Rainwater Tank

Description	Impervious Area (m2)	Treatment Type	Treatment Area/Volume (m2 or L)	Occupants / Number Of Bedrooms	Treatment %	Tank Water Supply Reliability (%)
Skylight Roofing West	150.00	Rainwater Tank	4,000.00	10	170.00	82.00
Skylight Roofing East	80.00	Rainwater Tank	2,000.00	10	170.00	81.00
Roofing North	366.00	Rainwater Tank	7,000.00	30	162.80	78.00
Roofing East	202.00	Rainwater Tank	6,000.00	20	170.00	82.00
Roofing South	309.00	Rainwater Tank	7,000.00	30	167.30	80.00
Roofing West	229.00	Rainwater Tank	6,000.00	20	170.00	82.00
North-West Tower Roofing	55.00	Rainwater Tank	1,500.00	5	170.00	82.00
North-East Tower Roofing	51.00	Rainwater Tank	1,500.00	5	170.00	82.00
South-East Tower Roofing	25.00	Rainwater Tank	500.00	5	164.00	78.00
South-West Tower Roofing	36.00	Rainwater Tank	500.00	5	150.20	70.00
Other imperious surface	985.00	None	0.00	0	0.00	0.00

Date Generated:

26-May-2023



Program Version:

1.0.0



Summary of Initiatives and Implementation Plan 4

This development includes a wide range of holistic sustainability measures, which have been carefully integrated into the preliminary design of the development so that the occupants will have the opportunity to reduce their environmental footprint without compromising quality of life.

The initiatives in the Implementation Plan have been committed to as part of the planning process. In a typical design process, each initiative will need to be incorporated into the project at the project stages nominated in the table. The nominated Project Manager needs to ensure that all parties are aware of the project requirements and that the documentation reflects the design intent at each project stage. We note that all projects are delivered differently and the project manager may alter the responsibilities to ensure the plan remains relevant to the project.

Typically, the following activities need to occur at each stage to ensure all initiatives are carried through to construction.

Town Planning Documents - ESD Consultant is appointed, drawings show relevant information Tender Documents - drawings / contract includes all sustainability initiatives so that the builder prices accordingly.

Construction Documents – drawings and specifications are consistent with the design intent. **Construction & Completion** – the builder is to carry out the design intent during construction.

4.1 Implementation Plan

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Initiative
CONSTRUCTION AND BUILDING MANAGEMENT
Utility meters to be provided for energy, water and gas (if supplied) for the office tenancy.

All major common area services to be sub-metered separately for energy. Major uses in this project are considered to be:

- General Power (each floor) -
- Lighting (each floor)
- Mechanical Services
- Domestic Hot Water

The builder will be required to implement a site specific Environmental Management Plan (EMP) for the project. The EMP will be required to include measures to limit stormwate impacts during construction, including but not limited to thos listed in the WSUD Response section of this report.

Building Users' Guide to be developed and provided to occupants.

A 12 month building tuning process will be adopted for this project.

INDOOR ENVIRONMENT QUALITY

All areas are to have sufficient artificial lighting to achieve th minimum lighting levels in AS1680:2006.

All windows to occupied spaces are to include an internal blind where direct sunlight is expected during occupied hour

All paints, adhesives, sealants and carpets are to be low VOC, in accordance with the latest Green Star criteria.

All engineered wood products are to be E0.

		Project Stage			
	Discipline(s)	Town Planning Documents	Tender Documents	Construction Documents	Construction & Completion
	Electrical		Y	Y	Y
	Electrical Mechanical		Y	Y	Y
e er se	Builder		Y		Y
	Builder		Y		Y
he	Electrical		Y	Y	Y
ırs.	Architect		Y	Y	Y
	Architect		Y	Y	Y

Architect

Υ

Υ

Υ



			Projec	t Stage	
Initiative	Discipline(s)	Town Planning Documents	Tender Documents	Construction Documents	Construction & Completion
ENERGY					
20% non-trafficable roof area, 1,500m ² , is recommended for solar PV panel installation and as such, a minimum 28kW solar PV array is recommended to the project on-site renewable energy generation.	Electrical	Y	Y	Y	Y
All roof and exposed flooring will achieve an increase of 10% from the minimum Section J requirements. If a JV3 performance solution is used the 'reference building' will incorporate an increase of 10% from the minimum Section J requirements	Architect ESD		Y	Y	Y
Wall-glazing performance to meet the minimum Section J requirements.	Architect ESD		Y	Y	Y
Lighting power density is to improve on the maximum allowance in the NCC by 10%.	Electrical		Y	Y	Y
 All heating and cooling systems are to achieve one of the following benchmarks: COP/EER not less than 85% that the most efficient equivalent capacity unit available. 	Mechanical		Y	Y	Y
- Energy rating within one star of the most efficient equivalent capacity unit available.					
All common area lighting is to be controlled via motion sensors and/or a timer.	Electrical		Y	Y	Y
All external lighting will be controlled via a time clock and daylight sensors. Motion sensors will be installed in applicable areas.	Electrical		Y	Y	Y
All lifts will incorporate controls to power off the majority of systems when not in use.	Lift		Y	Y	Y
The design will incorporate after hours control with minimum 2 zones, CO2 or occupancy based ventilation controls and full outside air economy cycles to base building air handling systems.	Mechanical		Y	Y	Y
Domestic hot water will be provided by an electric source central heat pump hot water system	Hydraulic		Y	Y	Y

Initiative
All new lights will be LED type.
Daylight and movement sensors will be included to external areas and internal areas such as storerooms, corridors, and other common areas in addition to other switching.
Lighting in perimeter zones of higher daylight will be controlled by daylight sensors.
TRANSPORT

A minimum of 3 bicycle spaces to the staff members are required by the BESS Transport Credit. These will form part of the overall school Green Travel Plan activities.

A Green Travel Plan has been prepared by the Traffic Consultant. The Green Travel Plan considers the campus in holistic manner and is not limited to the scope of the propose building in isolation

WATER / STORMWATER

The following fixtures and fitting benchmarks are to be met:

- Kitchen Taps: 6 Star WELS
- Bathroom Taps: 6 Star WELS -
- WC's: 5 Star WELS
- Urinals: 6 Star WELS

The following initiatives will be implemented in the design:

- Water will be collected from the non-trafficable roof -1,500m².
- Water will be treated via a minimum 36,000L rainwater tank, connected to all toilets in the building
- Water falling on other surfaces may be discharged directly to the council stormwater system without treatment.

All landscaping is to consist of low water use plant selection where practical, include mulching and use an efficient irrigation system (surface or sub-surface drip irrigation with moisture sensors).



			Projec			
	Discipline(s)	Town Planning Documents	Tender Documents	Construction Documents	Construction & Completion	
	Electrical		Y	Y	Y	
al d	Electrical		Y	Y	Y	
	Electrical		Y	Y	Y	
rt	Architect	Y	Y	Y	Y	
n a sed	Traffic	Y	Y	Y	Y	
			1			
:	Architect		Y	Y	Y	
f, ng.	Hydraulic Civil Landscape	Y	Y	Y	Y	
ns	Landscape	Y	Y	Y	Y	
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			Projec	t Stage	
Initiative	Discipline(s)	Town Planning Documents	Tender Documents	Construction Documents	Construction & Completion
MATERIALS & WASTE MANAGEMENT					
All timber used onsite will be reused, recycled or from a sustainably managed forestry operation (<i>i.e.</i> FSC or PEFC certified timber).	Architect		Y	Y	Y
Preference will be given to sustainable materials, and materials with a recycled content.	Architect		Y	Y	Y
Preference is to be given to products with a third-party environmental certification such as Ecospecifier or GECA.	Architect		Y	Y	Y
Waste storage to include a dedicated food and/or garden waste disposal.	Waste	Y	Y	Y	Y
Recycling is to be at least as convenient as general waste disposal.	Waste	Y	Y	Y	Y
The project will adopt a 90% diversion from landfill target during demolition and construction will be adopted.	Builder		Y	Y	Y
URBAN ECOLOGY					
A Light roof colour is recommended to be provided where the roof upper surface is required to have a solar absorptance not more than 0.45.	Architect		Y	Y	Y

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Appendix A

BESS Report



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BESS Report

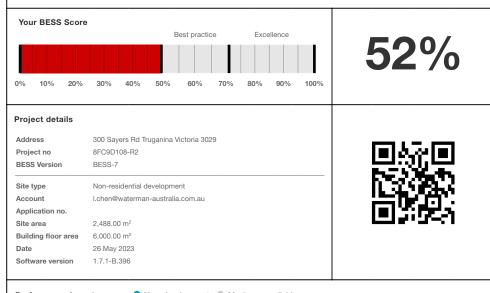
Built Environment Sustainability Scorecard

This BESS report outlines the sustainable design commitments of the proposed development at 300 Sayers Rd Truganina Victoria 3029. The BESS report and accompanying documents and evidence are submitted in response to the requirement for a Sustainable Design Assessment or Sustainability Management Plan at Wyndham City Council.

Casbe

bess M∧&V

Note that where a Sustainability Management Plan is required, the BESS report must be accompanied by a report that further demonstrates the development's potential to achieve the relevant environmental performance outcomes and documents the means by which the performance outcomes can be achieved.





The Built Environment Sustainability Scorecard is an initiative of the Council Alliance for a Sustainable Built Environment (CASBE). For more details see www.bess.net.au BESS, 5-8 Learning Centre, Westbourne Grammar School 300 Sayers Rd, Truga...

Buildings

Name	Height	Footprint	% of total footprint	
5-8 Learning Centre	3	6,000 m ²	100%	

Dwellings & Non Res Spaces

Non-Res Spaces						
Name	Quantity	Area	Building	% of total area		
Other building						
5-8 Learning Centre	1	6,000 m ²	5-8 Learning Centre	100%		
Total	1	6,000 m ²	100%			

Supporting information

Floorplans & elevation notes

Credit	Requirement	Response	Statu	us
Energy 4.2	Floor plans showing location of photovoltaic panels as described.			
Stormwater 1.1	Location of any stormwater management systems used in STORM or - MUSIC modelling (e.g. Rainwater tanks, raingarden, buffer strips)			
Waste 2.1	Location of food and garden waste facilities -			
Waste 2.2	Location of recycling facilities -			

Supporting evidence

Requirement	Response	Status
Section J glazing assessment		-
Energy Report showing calculations of reference case and proposed buildings		-
ergy 3.7 Provide a written description of the average lighting power density to be installed in the development and specify the lighting type(s) to be used.		-
Energy 4.2 Specifications of the solar photovoltaic system(s).		-
water 1.1 STORM report or MUSIC model		-
	Section J glazing assessment Energy Report showing calculations of reference case and proposed buildings Provide a written description of the average lighting power density to be installed in the development and specify the lighting type(s) to be used. Specifications of the solar photovoltaic system(s).	Section J glazing assessment Energy Report showing calculations of reference case and proposed buildings Provide a written description of the average lighting power density to be installed in the development and specify the lighting type(s) to be used. Specifications of the solar photovoltaic system(s).

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Credit summary

anagement Overall contribution 4.5%	28%		
1.1 Pre-Application Meeting	0%		
2.3 Thermal Performance Modelling - Non-Residential	50%		
3.2 Metering - Non-Residential	N/A 💠 Scoped Out		
No commercial tenants are to be included in the building			
3.3 Metering - Common Areas	0%		
4.1 Building Users Guide	100%		

Water Overall contribution 9.0%

	Minimum required 50%	83%	✓ Pass
1.1 Potable water use reduction		80%	
3.1 Water Efficient Landscaping		N/A	Scoped Out
	No landscaping area is i	ncluded	to the building design.
4.1 Building Systems Water Use Reduction		100%	

Energy Overall contribution 27.5%

	Minimu	m required 50%	60%	✓ Pass
1.1 Thermal Performance Rating - Non-Residential			37%	
2.1 Greenhouse Gas Emissions			100%	
2.2 Peak Demand			100%	
2.3 Electricity Consumption			100%	
2.4 Gas Consumption			N/A	Scoped Out
			No	gas connection in use
2.6 Electrification			0%	
3.1 Carpark Ventilation			N/A	Scoped Out
			No Indo	oor carpark is included.
3.2 Hot Water			100%	
3.7 Internal Lighting - Non-Residential			100%	
4.1 Combined Heat and Power (cogeneration / trigeneration)			N/A	Scoped Out
		No coge	neration or triger	neration system in use.
4.2 Renewable Energy Systems - Solar			100%	
4.4 Renewable Energy Systems - Other			0%	Ø Disabled
		No other (no	n-solar PV) rene	wable energy is in use.

The Built Environment Sustainability Scorecard is an initiative of the Council Alliance for a Sustainable Built Environment (CASBE). For more details see www.bess.net.au

BESS, 5-8 Learning Centre, Westbourne Grammar School 300 Sayers Rd, Truga..

Stormwater Overall contribution 13.5%

	Minimum required 100%	100% 🖌 Pass
1.1 Stormwater Treatment		100%

IEQ Overall contribution 16.5%

	Minimum required 50%	47%	× Not Passed
1.4 Daylight Access - Non-Residential		0%	× Not Achieved
2.3 Ventilation - Non-Residential		83%	 Achieved
3.4 Thermal comfort - Shading - Non-residential		66%	
3.5 Thermal Comfort - Ceiling Fans - Non-Residential		0%	
4.1 Air Quality - Non-Residential		100%	

Transport Overall contribution 9.0%

	0%
1.4 Bicycle Parking - Non-Residential	0%
1.5 Bicycle Parking - Non-Residential Visitor	0%
1.6 End of Trip Facilities - Non-Residential	0% Ø Disabled
	Credit 1.4 must be complete first.
2.1 Electric Vehicle Infrastructure	N/A 💠 Scoped Out
	No carparking facilities are provided.
2.2 Car Share Scheme	N/A 💠 Scoped Out
	No carparking facilities are provided.
2.3 Motorbikes / Mopeds	N/A 💠 Scoped Out
	No carparking facilities are provided.

Waste Overall contribution 5.5%

For more details see www.bess.net.au

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	100%
1.1 - Construction Waste - Building Re-Use	N/A 🛛 🔶 Scoped Out
	No existing building on the site.
2.1 - Operational Waste - Food & Garden Waste	100%
2.2 - Operational Waste - Convenience of Recycling	100%

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Urban Ecology Overall contribution 5.5%

	0%
1.1 Communal Spaces	0%
2.1 Vegetation	0%
2.2 Green Roofs	0%
2.3 Green Walls and Facades	0%
3.2 Food Production - Non-Residential	0%

0%

0%

Innovation Overall contribution 9.0%

1.1 Innovation

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Credit breakdown

Management Overall contribution 1%

1.1 Pre-Application Meeting		0%
Score Contribution	This credit contributes 42.9% towards the c	ategory score.
Criteria	Has an ESD professional been engaged to p	provide sustainability advice from schematic
	design to construction? AND Has the ESD p	professional been involved in a pre-
	application meeting with Council?	
Question	Criteria Achieved ?	
Project	No	
2.3 Thermal Performance Modellin	ng - Non-Residential	50%
Score Contribution	This credit contributes 28.6% towards the c	ategory score.
Criteria	Has a preliminary facade assessment been	undertaken in accordance with NCC2019
	Section J1.5?	
Question	Criteria Achieved ?	
Other building	Yes	
Criteria	Has preliminary modelling been undertaken	in accordance with either NCC2019
	Section J (Energy Efficiency), NABERS or G	reen Star?
Question	Criteria Achieved ?	
Other building	No	
3.2 Metering - Non-Residential		N/A 💠 Scoped Out
This credit was scoped out	No commercial tenants are to be included in	n the building.
3.3 Metering - Common Areas		0%
Score Contribution	This credit contributes 14.3% towards the c	ategory score.
Criteria	Have all major common area services been	separately submetered?
Question	Criteria Achieved ?	
Other building	No	
4.1 Building Users Guide		100%
Score Contribution	This credit contributes 14.3% towards the c	ategory score.
Criteria	Will a building users guide be produced and	l issued to occupants?
Question	Criteria Achieved ?	
Project	Yes	

Water Overall contribution 7% Minimum required 50%

Water Approach	
What approach do you want to use for Water?:	Use the built in calculation tools
Project Water Profile Question	
Do you have a reticulated third pipe or an on-site water recycling system?:	No
Are you installing a swimming pool?:	No
Are you installing a rainwater tank?:	Yes
Water fixtures, fittings and connections	
Building:	5-8 Learning Centre
Showerhead:	Scope out
Bath:	Scope out
Kitchen Taps:	>= 6 Star WELS rating
Bathroom Taps:	>= 6 Star WELS rating
Dishwashers:	Scope out
WC:	>= 5 Star WELS rating
Urinals:	>= 6 Star WELS rating
Washing Machine Water Efficiency:	Scope out
Which non-potable water source is the dwelling/space connected to?:	Rainwater Tank 1
Non-potable water source connected to Toilets:	Yes
Non-potable water source connected to Laundry (washing machine):	No
Non-potable water source connected to Hot Water System:	No
Rainwater Tank	
What is the total roof area connected to the rainwater tank?: Rainwater Tank 1	1,485 m²
Tank Size: Rainwater Tank 1	43,000 Litres
Irrigation area connected to tank: Rainwater Tank 1	0.0 m ²
Is connected irrigation area a water efficient garden?: Rainwater Tank 1	Yes
Other external water demand connected to tank?: Rainwater Tank 1	-

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1.1 Potable water use reduction		80%		
Score Contribution	This credit contributes 83.3% towards the category	score.		
Criteria	What is the reduction in total potable water use due to efficient fixtures, appliances,			pliances,
	rainwater use and recycled water use? To achieve p	oints in this crea	dit ther	e must be
	>25% potable water reduction.			
Output	Reference			
Project	4763 kL			
Output	Proposed (excluding rainwater and recycled water u	ise)		
Project	2628 kL			
Output	Proposed (including rainwater and recycled water us	se)		
Project	1884 kL			
Output	% Reduction in Potable Water Consumption			
Project	60 %			
Output	% of connected demand met by rainwater			
Project	64 %			
Output	How often does the tank overflow?			
Project	Never / Rarely			
Output	Opportunity for additional rainwater connection			
Project	443 kL			
3.1 Water Efficient Landscaping		N/A	¢	Scoped Out
This credit was scoped out	No landscaping area is included to the building desi	ign.		
4.1 Building Systems Water Use Redu	uction	100%		
Score Contribution	This credit contributes 16.7% towards the category	score.		
Criteria	Where applicable, have measures been taken to rec	luce potable wa	ter con	sumption by
	>80% in the buildings air-conditioning chillers and v	vhen testing fire	safety	systems?
Question	Criteria Achieved ?			
Project	Yes			

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Energy Overall contribution 16% Minimum required 50%

.	
Use the BESS Deem to Satisfy (DtS) method for Energy?:	Yes
Do all exposed floors and ceilings (forming part of the envelope demonstrate a minimum 10% improvement in required NCC2019 insulation levels (total R-value upwards and downwards)?:) Yes
Does all wall and glazing demonstrate meeting the required NCC2019 facade calculator (or better than the total allowance)?:	Yes
Are heating and cooling systems within one Star of the most efficient equivalent capacity unit available, or Coefficient of Performance (CoP) & Energy Efficiency Ratios (EER) not less than 85% of the CoP & EER of the most efficient equivalent capacity unit available?:	Yes
Are water heating systems within one star of the best available, or 85% or better than the most efficient equivalent capacity unit?:	Yes
Non-Residential Building Energy Profile	
Heating, Cooling & Comfort Ventilation - Electricity Reference fabric & services:	-
Heating, Cooling & Comfort Ventilation - Electricity - proposed fabric and reference services:	-
Heating, Cooling & Comfort Ventilation - Electricity Proposed fabric & services:	-
Heating - Wood - reference fabric and services:	-
Heating - Wood - proposed fabric and reference services:	-
Heating - Wood - proposed fabric and services:	-
Hot Water - Electricity - Reference:	-
Hot Water - Electricity - Proposed:	-
Lighting - Reference:	-
Lighting - Proposed:	-
Peak Thermal Cooling Load - Reference:	-
Peak Thermal Cooling Load - Proposed:	-
Solar Photovoltaic system	
System Size (lesser of inverter and panel capacity): PV Panel Array 1	28.0 kW peak
Orientation (which way is the system facing)?: PV Panel Array 1	North
Inclination (angle from horizontal): PV Panel Array 1	37.0 Angle (degrees)
1.1 Thermal Performance Rating - Non-Residential	37%
Score Contribution This credit contribute	s 40.0% towards the category score.
Criteria What is the % reduct	ion in heating and cooling energy consumption against the
reference acce (NCC	2010 Section N2

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-				
2.1 Greenhouse Gas Emissions		100%		
Score Contribution	This credit contributes 10.0% towards the category sc	ore.		
Criteria	What is the % reduction in annual greenhouse gas em	issions again	st the	benchmark?
2.2 Peak Demand		100%		
Score Contribution	This credit contributes 5.0% towards the category sco	vre.		
Criteria	What is the % reduction in the instantaneous (peak-ho	our) demand a	against	the
	benchmark?			
2.3 Electricity Consumption		100%		
Score Contribution	This credit contributes 10.0% towards the category sc	ore.		
Criteria	What is the % reduction in annual electricity consumption	tion against th	he ben	ichmark?
2.4 Gas Consumption		N/A	¢	Scoped Out
This credit was scoped out	No gas connection in use			
2.6 Electrification		0%		
Score Contribution	This credit contributes 10.0% towards the category sc	ore.		
Criteria	Is the development all-electric?			
Question	Criteria Achieved?			
Project	-			
3.1 Carpark Ventilation		N/A	¢	Scoped Out
This credit was scoped out	No Indoor carpark is included.			
3.2 Hot Water		100%		
Score Contribution	This credit contributes 5.0% towards the category sco	vre.		
Criteria	What is the % reduction in annual energy consumption	n (gas and ele	ectricity	y) of the hot
	water system against the benchmark?			
3.7 Internal Lighting - Non-Residen	tial	100%		
Score Contribution	This credit contributes 10.0% towards the category sc	ore.		
Criteria	Does the maximum illumination power density (W/m2)	in at least 90	% of t	he area of the
	relevant building class meet the requirements in Table	J6.2a of the N	NCC 2	019 Vol 1?
Question	Criteria Achieved ?			
Other building	Yes			
4.1 Combined Heat and Power (cog	eneration /	N/A	¢	Scoped Out
trigeneration)				
This credit was scoped out	No cogeneration or trigeneration system in use.			

reference case (NCC 2019 Section J)?

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4.2 Renewable Energy Systems - Solar		100%	100%			
Score Contribution	This credit contributes 5.0% towards the categor	y score.				
Criteria	What % of the estimated energy consumption of	the building class it	supplies	does the		
	solar power system provide?					
Output	Solar Power - Energy Generation per year					
Other building	36,485 kWh					
Output	% of Building's Energy					
Other building	21 %					
4.4 Renewable Energy System	s - Other	0%	0	Disabled		
This credit is disabled	No other (non-solar PV) renewable energy is in us	se.				

Stormwater Overall contribution 14% Minimum required 100%

Which stormwater modelling an	e you using?:	Melbourne Water STORM tool
1.1 Stormwater Treatment		100%
Score Contribution	This credit c	ontributes 100.0% towards the category score.
Criteria	Has best pra	ctice stormwater management been demonstrated?
Question	STORM sco	re achieved
Project	101	
Output	Min STORM	Score
Project	100	

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IEQ Overall contribution 8% Minimum required 50%

1.4 Daylight Access - Non-Resident	ial 0% 🗙 Not Achie	eved
Score Contribution	This credit contributes 35.3% towards the category score.	
Criteria	What % of the nominated floor area has at least 2% daylight factor?	
Question	Percentage Achieved?	
Other building	31 %	
2.3 Ventilation - Non-Residential	83% 🗸 Achi	eved
Score Contribution	This credit contributes 35.3% towards the category score.	
Criteria	What % of the regular use areas are effectively naturally ventilated?	
Question	Percentage Achieved?	
Other building	0 %	
Criteria	What increase in outdoor air is available to regular use areas compared to the minin required by AS 1668.2:2012?	num
Question	What increase in outdoor air is available to regular use areas compared to the minin required by AS 1668:2012?	num
Other building	100 %	
Criteria	What CO2 concentrations are the ventilation systems designed to achieve, to moniand to maintain?	tor
Question	Value	
Other building	800 ppm	
3.4 Thermal comfort - Shading - Nor	n-residential 66%	
Score Contribution	This credit contributes 17.6% towards the category score.	
Criteria	What percentage of east, north and west glazing to regular use areas is effectively shaded?	
Question	Percentage Achieved?	
Other building	50 %	
3.5 Thermal Comfort - Ceiling Fans	- Non-Residential 0%	
Score Contribution	This credit contributes 5.9% towards the category score.	
Criteria	What percentage of regular use areas in tenancies have ceiling fans?	
Question	Percentage Achieved?	
Other building	0 %	
4.1 Air Quality - Non-Residential	100%	
Score Contribution	This credit contributes 5.9% towards the category score.	
Criteria	Do all paints, sealants and adhesives meet the maximum total indoor pollutant	
	emission limits?	
Question	Criteria Achieved ?	
Other building	Yes	

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Criteria	Does all carpet meet the maximum total indoor pollutant emission limits?
Question Criteria Achieved ?	
Other building	Yes
Criteria	Does all engineered wood meet the maximum total indoor pollutant emission limits?
Criteria Question	Does all engineered wood meet the maximum total indoor pollutant emission limits? Criteria Achieved ?

Transport Overall contribution 0%

1.4 Bicycle Parking - Non-Residentia	I	0%			
Score Contribution	This credit contributes 50.0% towards the category score.				
Criteria	Have the planning scheme requirements for employee to by at least 50% (or a minimum of 2 where there is no pl	, ,	0		
Question	Criteria Achieved ?				
Other building	No				
Question	Bicycle Spaces Provided ?				
Other building	2				
1.5 Bicycle Parking - Non-Residentia	Visitor	0%			
Score Contribution	This credit contributes 25.0% towards the category sco	ire.			
Criteria	Have the planning scheme requirements for visitor bicy at least 50% (or a minimum of 1 where there is no planr				-
Question	Criteria Achieved ?				
Other building	No				
Question	Bicycle Spaces Provided ?				
Other building	1				
1.6 End of Trip Facilities - Non-Reside	ential	0%		0	Disabled
This credit is disabled	Credit 1.4 must be complete first.				
2.1 Electric Vehicle Infrastructure		N/A	¢	Sc	oped Out
This credit was scoped out	No carparking facilities are provided.				
2.2 Car Share Scheme		N/A	¢	Sc	oped Out
This credit was scoped out	No carparking facilities are provided.				
2.3 Motorbikes / Mopeds		N/A	¢	Sc	oped Out
This credit was scoped out	No carparking facilities are provided.				

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Waste Overall contribution 6%

1.1 - Construction Waste - Buildi	1.1 - Construction Waste - Building Re-Use		¢	Scoped Out			
This credit was scoped out	No existing building on the site.						
2.1 - Operational Waste - Food &	Garden Waste	100%					
Score Contribution	This credit contributes 50.0% towards the ca	tegory score.					
Criteria	Are facilities provided for on-site management	Are facilities provided for on-site management of food and garden waste?					
Question	Criteria Achieved ?						
Project	Yes						
2.2 - Operational Waste - Conver	nience of Recycling	100%					
Score Contribution	This credit contributes 50.0% towards the ca	tegory score.					
Criteria	Are the recycling facilities at least as convenie	ent for occupants as fa	acilities	for general			
	waste?						
Question	Criteria Achieved ?						
Project	Yes						

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Urban Ecology Overall contribution 0%

1.1 Communal Spaces	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Is there at least the following amount of common space measured in square meters : st
	1m ² for each of the first 50 occupants * Additional 0.5m ² for each occupant between 51
	and 250 * Additional 0.25m ² for each occupant above 251?
Question	Common space provided
Other building	0.0 m ²
Output	Minimum Common Space Required
Other building	212 m ²
2.1 Vegetation	0%
Score Contribution	This credit contributes 50.0% towards the category score.
Criteria	How much of the site is covered with vegetation, expressed as a percentage of the
	total site area?
Question	Percentage Achieved ?
Project	0 %
2.2 Green Roofs	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Does the development incorporate a green roof?
Question	Criteria Achieved ?
Project	No
2.3 Green Walls and Facades	0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Does the development incorporate a green wall or green façade?
Question	Criteria Achieved ?
Project	No
3.2 Food Production - Non-Reside	ontial 0%
Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	What area of space per occupant is dedicated to food production?
Question	Food Production Area
Other building	0.0 m ²
Output	Min Food Production Area
Other building	75 m²

Innovation Overall contribution 0%

1.1 Innovation	0%
Score Contribution	This credit contributes 100.0% towards the category score.
Criteria	What percentage of the Innovation points have been claimed (10 points maximum)?

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Appendix B

NCC Section J DTS Assessment & BESS Fabric Requirements

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NCC Section J Assessment and BESS Fabric Requirements

According to the NCC, the proposed development is a Class 9b school building and located in Climate Zone 6 for the location of Truganina, Victoria.

The proposed design is targeting to achieve compliance over the NCC 2019 Section J minimum requirements, and as such the performance targets recommended for the proposed design and the façade calculator results are summarized as follows,

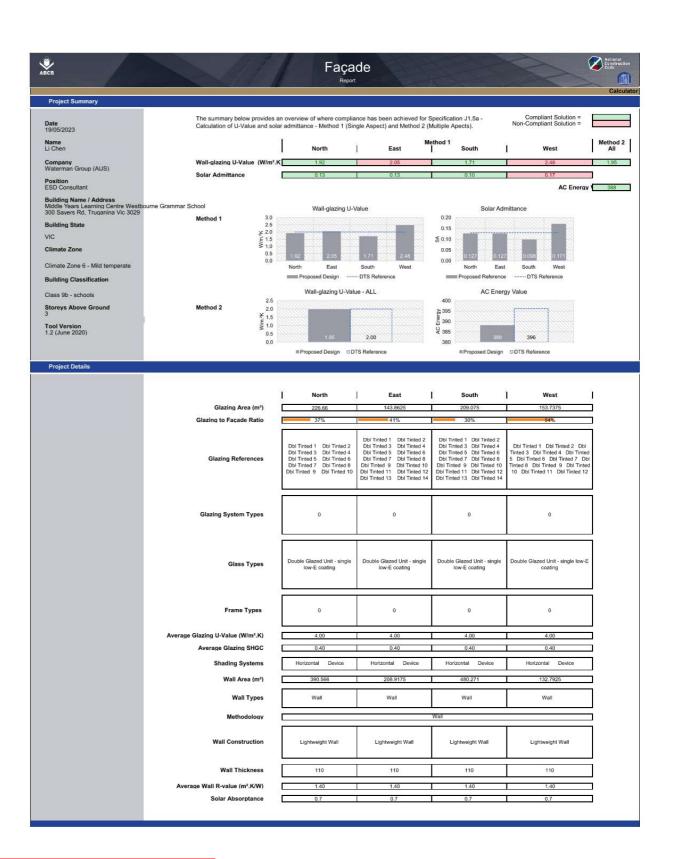
• Thermal performance requirements to be adopted for compliance for the proposed Building façade design assessed via NCC Façade Calculator Method 2:

Facade item	DTS Min. Compliance Requirements	BESS Min. Compliance Requirements
J1.3 Roofing and Ceiling system forming thermal envelope	 R_T3.2 m².K/W Solar absorptance: 0.45 	 RT3.52 m².K/W Solar absorptance: 0.45
J1.4 Skylights forming thermal envelope to Stair Space	 Max. skylight size: 5% floor area served. Skylight: Us3.9 W/m²K & SHGC_s0.29 	 Max. skylight size: 5% floor area served. Skylight: Us3.9 W/m²K & SHGC_S0.29
J1.5 Walls forming thermal envelope including partition walls adjacent non-conditioned spaces	• R_T1.4 m².K/W	• R τ 1.40 m².K/W
J1.5 External Glazing forming thermal envelope including clerestory windows to Voids	• Uw4.0 W/m²K & SHGCw0.40	• Uw4.0 W/m²K & SHGCw0.40
J1.6 Concrete Slab On Ground	No insulation requirements	No insulation requirements
J1.6 <i>Floor slab system</i> above non-conditioned spaces or exposed to ambient forming thermal envelope	• R_T2.0 m².K/W	• R_T2.2 m².K/W

If any part of the building fabric cannot achieve the requirements (and is required to meet full compliance by the building surveyor) it may be possible to offset this element against the following via a JV3 energy modelling assessment.

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Appendix C

STORM Rating Report



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1 WSUD Response

STORM Benchmarking

The initiatives above comply with the councils WSUD requirements as demonstrated by achieving a STORM score of 101%

quality.	Melbourne Water	STOR	M Rating R	leport			
 The objectives of these clauses are: To achieve best practice stormwater quality: Suspended Solids – 80% retention of typical urban annual load. Total Nitrogen – 45% retention of typical urban annual load. Total Phosphorus – 45% retention of typical urban annual load. 	Rainfall Station:		h/East of Skeleton Ck) h/East of Skeleton Ck)				
 Litter – 70% reduction of typical urban annual load. 		Truganina					
- To promote stormwater re-use.		VIC	3029				
 To mitigate the detrimental effect of development on downstream waterways. 	Assessor:						
- To minimise peak stormwater flows and stormwater pollutants.	Development Type:	Other					
- To reintegrate urban water into the landscape to facilitate benefits such as microclimate cooling,	Allotment Site (m2):	2,488.00					
local habitat and provision of attractive spaces for community use and well being.	STORM Rating %:	101					
A development is required to demonstrate that they meet the objectives of the clause by either:	Description	Impervious Area (m2)	Treatment Type	Treatment Area/Volume (m2 or L)	Occupants / Number Of Bedrooms	Treatment %	Tank Water Supply
 Meeting a 100% or higher rating on the STORM rating tool; or 				, ,			Reliability (%)
 Meeting the required discharge quality using the MUSIC rating tool 	Skylight Roofing West	150.00	Rainwater Tank	4,000.00	10	170.00	82.00
	Skylight Roofing East	80.00	Rainwater Tank	2,000.00	10	170.00	81.00
Additionally, adequate maintenance and management procedures are required to ensure the stormwater treatment / reuse measures work as intended.	Roofing North	366.00	Rainwater Tank	7,000.00	30	162.80	78.00
treatment / reuse measures work as mended.	Roofing East	202.00	Rainwater Tank	6,000.00	20	170.00	82.00
Initiatives Proposed	Roofing South	309.00	Rainwater Tank	7,000.00	30	167.30	80.00
	Roofing West	229.00	Rainwater Tank	6,000.00	20	170.00	82.00
The following initiatives will be implemented in the design:	North-West Tower	55.00	Rainwater Tank	1,500.00	5	170.00	82.00
- Water will be collected the non-trafficable roof, 1,500m ² .	Roofing						
 Water will be treated via a minimum 36,000L rainwater tank, connected to all toilets in the building. 	Roofing	51.00 25.00	Rainwater Tank	1,500.00	5	170.00	82.00 78.00
 Water falling on other surfaces may be discharged directly to the council stormwater system 	South-East Tower Roofing	25.00	Rainwater Tank	500.00	5	164.00	78.00
without treatment.	South-West Tower Roofing	36.00	Rainwater Tank	500.00	5	150.20	70.00
	Other imperious surface	985.00	None	0.00	0	0.00	0.00

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All developments in Victoria are required to meet the requirements of VPP 56.07 of the Victorian Planning Scheme, which requires that projects meet current best practice performance objectives for stormwater

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Design Details

Rainwater Tank

A rainwater tank(s) is to be installed for the project with a minimum total storage capacity as noted within the Initiatives Proposed section of this report. This storage capacity is to be in addition to any onsite detention requirements for the project.

Water falling on the surfaces nominated in the Initiatives Proposed section of this WSUD Response are to be directed to the rainwater tank(s), with appropriate overflow measures when the rainwater tank(s) reaches maximum capacity.

A first flush diverter system and fine filter mesh is to be installed to treat water prior to entering the storage tank.

Site Management Plan

The following requirements are to be met during onsite works to prevent excessive pollutants entering the local waterways. Prior to construction, the contractor is to develop these requirements into a site specific management plan, nominating locations of treatment facilities based on proposed construction activities.

- 1. Temporary drains are to be installed to minimise overland water flows and prevent erosion, especially in areas where water is likely to pool.
- 2. Temporary silt fences are to be installed on the lower end of the site to prevent excessive sedimentation from entering the stormwater system.
- Temporary side entry filters to be installed to council stormwater pits to prevent sediment entering 3. the stormwater system at the kerb inlet.
- 4. All stockpiles to be covered to protect from rainfall.
- 5. Stockpiles to be located away from the predominant overland stormwater pathway.
- 6. All site litter to be collected and placed in bins (covered if appropriate) so that it cannot end up in the stormwater systems.
- 7. Waste bins to be provided onsite for workers.

Maintenance Requirements

Rainwater Tank

The following maintenance measures are required to be undertaken at 6 monthly intervals, or when it is evident that a blockage has occurred. The building management is to be responsible for the maintenance of the stormwater system.

- Roof and gutters to be cleaned to remove leaves and other debris. -
- All screens to be checked for blockages and cleaned if necessary.

All pumps or specialist equipment to be installed as part of this system are to be maintained in accordance with the manufacturer's specifications.

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