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Suite 5 / 35 Smith Street Charlestown

# HYDRAULIC SERVICES PROPOSED SIGNIFICANT BUILDING SERVICING REPORT

**FOR** 

## **APPLICATION NUMBER SSD-10400**

**AT** 

# ST PATRICK'S COLLEGE EDGAR STREET, STRATHFIELD

Date: 7th April, 2020

**Revision: 1** 

**Reference No: 3881-719H1** 



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#### **PROJECT OVERVIEW**

The preliminary hydraulic services infrastructure connection drawings and authorities connection approvals are based on the information obtained from Sydney Water and Jemena in relation to the location and capacity of the water, sewer and gas services required to be connected to the proposed building to enable adequate functionality in compliance with the relevant current Building Codes and Australian Standards.

Each Authority has been contacted and applications to make connection to the proposed building along with the required expected building loading information have been submitted for formal assessment and approval.

Responses and approvals have been received from Sydney Water for new connections to their mains for drinking (Potable) water and wastewater. Similarly, Jemena have provided approval for a new connection from the site to their existing gas main infrastructure to service the new building.

Additionally, Sydney Water have provided a Statement of Available Pressure and flow for the water supply main in Fraser Street that it is deemed as satisfactory for the purpose of providing both drinking (Potable) water and water for the required combined fire systems flows.

Preliminary drawings have been prepared by McCallum PFCA in conjunction with BVN architects to lay out the required hydraulic services mains and equipment for the purpose of ensuring that all necessary valve sets, pumps, hot water units, trade waste arrestors and the like can be incorporated withing the building fabric and surrounds.

The equipment layouts on the pages following are preliminary and are not intended to indicate the final locations of all items but to nominate the approximate location of each item and the items associated dimensions.

The final location of all items is to be determined during the design development works in conjunction with the project team to ensure that each item is sited in the most service appropriate and aesthetically sympathetic position.

The installation of an 18 kilolitre rainwater reuse tank nominated by Northrop Consulting Engineers is proposed for the purpose of providing a primary water supply to the building for toilet flushing, maintenance washdown and irrigation purposes.



#### ITEM 14. UTILITIES

# 14 A) DRINKING (POTABLE) WATER AND FIRE SYSTEM WATER SUPPLY CONNECTION – APPROVED BY SYDNEY WATER

Sydney Water have been contacted and application has been made for the connection of the proposed building via a new (additional) connection point to the existing school due to:

- 1) The substantial distance from the existing water supply connection in Francis Street to the proposed building.
- 2) The close proximity and ease of connection to the existing 100mm water main in Fraser Street.
- 3) The potential detrimental effect to the existing potable water supply system within the existing school due to the proposed buildings additional water load requirements.
- 4) The greater capacity of the Fraser Street water main to provide the required combined fire system requirements at a pressure greater than those able to be supplied by the existing Francis Street water main connection.

A response from Sydney Water in regards to the request for connection of the Drinking water connection was received by McCallum PFCA on 13 January, 2020.

The letter has been marked as 'Approved' and nominates that three new and separate connections can be made to the Fraser Street water main as follows:

- 1) Sprinkler System 100mm connection
- 2) Hydrant System 100mm connection
- 3) Drencher System 100mm connection

Refer to Sydney Water document 'Drinking Water Connection Application', Application Number 786369 for property number 3920869 dated 13/01/2020.

No additional requirements or infrastructure amplification measures have been nominated by Sydney Water.



## Drinking water connection application

Application number 786369

Property number 3920869

13/01/2020

Dear Dearne Jupp

Your application to connect the property at Lot 135 Edgar St Strathfield NSW 2135 to our water system has been

#### **APPROVED**

If you follow the conditions in this letter, you are authorised to connect to the services, under section 48A of the Sydney Water Act.

This approval is valid until 13/01/2021 (one year).

#### **NEXT STEPS**

When you are ready to connect, you must apply using Sydney Water Tap in™, "Complete new connection" application, quoting the referral number:REF-12513671

We will send you emails with instructions at each stage of the process.

#### **APPROVED CONNECTION CONDITIONS**

#### **Connection 1**

You are authorised to make a 1 x 100 mm connection to Sydney Water's 100 mm main for the following services:

Service Number	Service Type	Size (mm)
1	Sprinkler	100
2	Hydrant	100
3	Drencher	100



#### **Connection Conditions**

Pumps not approved on this application. Please apply in Tap In for a Booster application before installation

#### **MAKING THE CONNECTION**

Your nominated driller must carry out the connection in accordance with "Instructions and Technical Requirements for Drillers". If the driller you've nominated is an approved supplier, (not Sydney Water), they must submit a Construction Commencement Notice to Sydney Water two days before working on our systems. Sydney Water may audit connections made by approved suppliers.

#### **INSTALLING WATER METERS**

You must install a meter within two working days of making a connection to Sydney Water's water main.

You must not use any water from this service until a meter is fitted.

You can apply for Sydney Water to install your approved meter/s through Sydney Water Tap in™.

Alternatively, a licensed plumber or their authorised representative can collect your approved meter/s from **Skilltech** at –

Unit S/10-16 South Street Rydalmere between 8.30 am and 4.00pm Monday to Friday.

A copy of this letter must be presented when collecting your approved meter/s.

#### **GENERAL CONDITIONS**

All fire hose reels must be connected to the metered service.

Other fire services (sprinklers, drenchers and hydrants) may be unmetered.

No other water using appliance or fixture may be connected to an unmetered fire service.

This letter does not give approval for pressure boosting pumps to be installed on any of the approved service/s. If pumps are required, a Pressure Boosting and Pumps application must be lodged through **Sydney Water Tap in**™.

All connections must be made in accordance with <u>Sydney Water's policy Connecting to Sydney</u> Water Systems and the Customer Connections Guide.



All plumbing work must comply with the Plumbing Code of Australia and AS/NZS 3500.

If your connection does not comply with these conditions it will be an **unauthorised connection**. Non-compliance may result in restriction of your water supply or disconnection of your service.

#### **BACKFLOW**

All watermain connections, including those used for construction activities and fire services must have backflow prevention containment devices appropriate for the hazard rating of the property.

Backflow prevention containment must comply with AS/NZS 3500 and Sydney Water Backflow Containment requirements.

Visit <u>www.sydneywater.com.au</u> and go to the Backflow Prevention page in the Building, Plumbing & Developing section for information on Backflow Prevention Information for Plumbers.

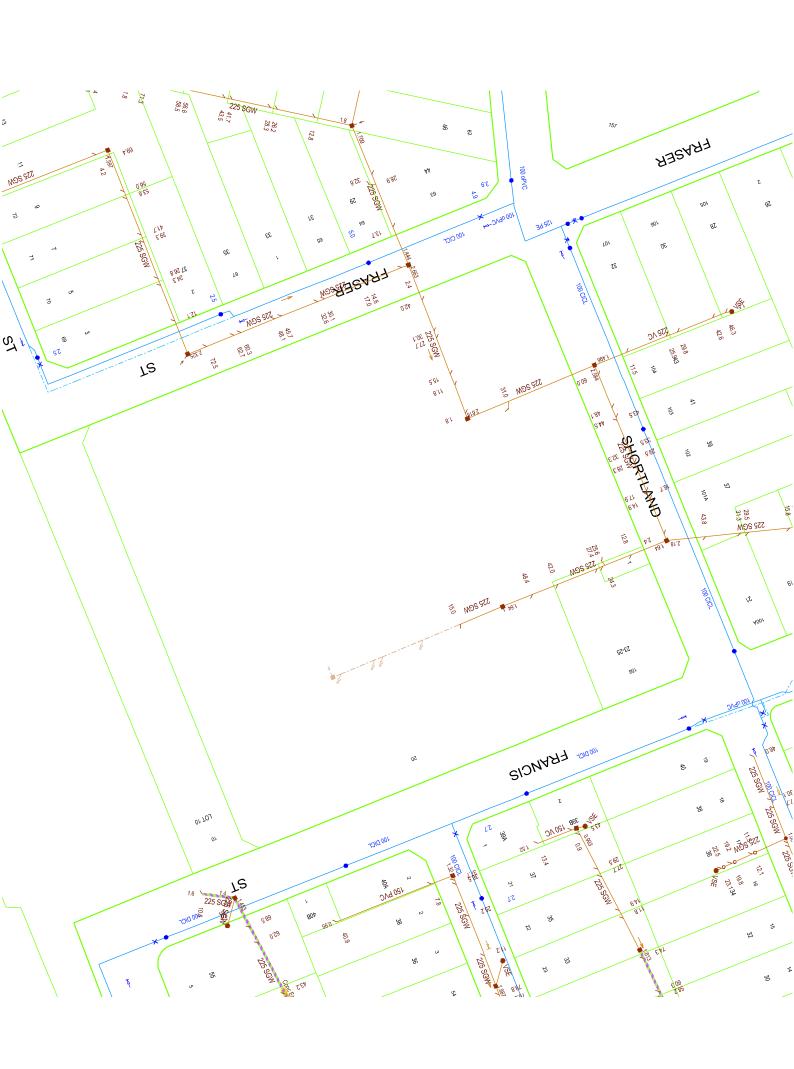
Backflow prevention devices must be fitted as close to the property boundary as possible, and no further than **10 metres** inside the property boundary. Devices must be fitted upstream of any booster on or off take from the fire service. There shall be no off-takes in between the double check detector assembly and the booster assembly.

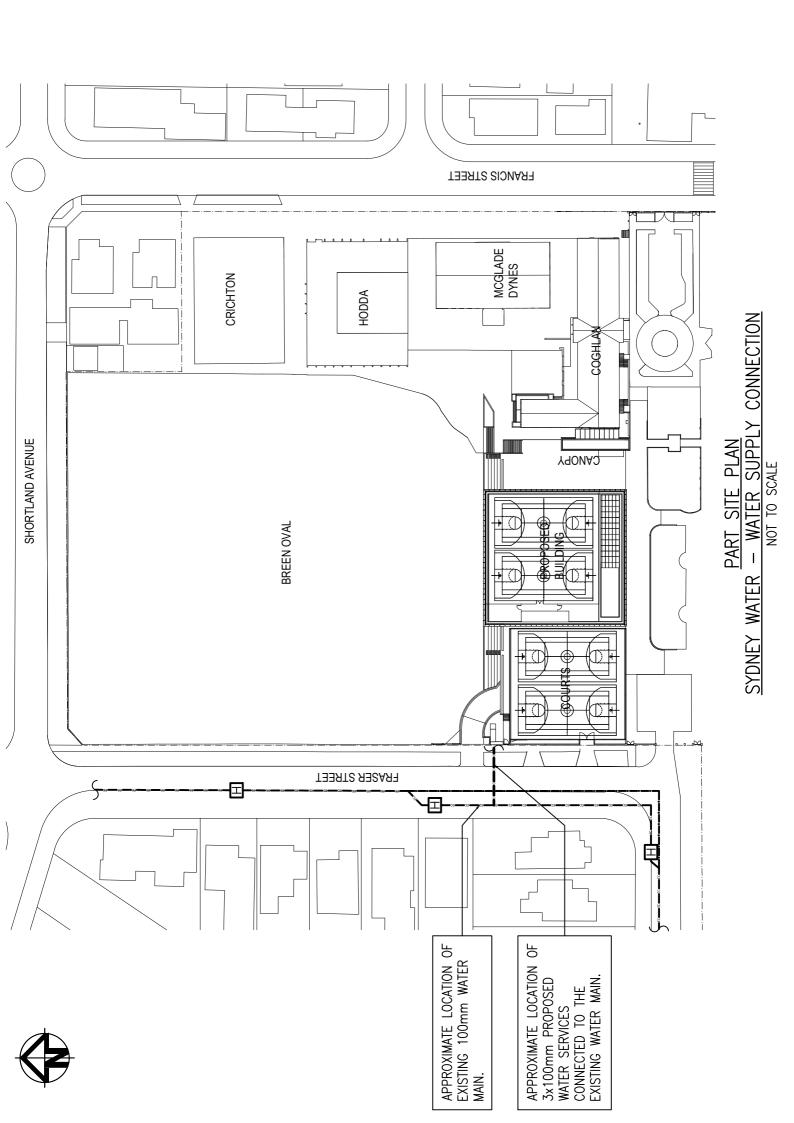


#### **ANY QUESTIONS?**

Email us connections@sydneywater.com.au

Call us 1300 082 746







#### 14 B) SYDNEY WATER – STATEMENT OF AVAILABLE PRESSURE AND FLOW

The proposed buildings fire system requirements has been assessed in accordance with the requirements of the 2019 version of Volume One of the Building Code of Australia, AS2419.1:2005 and AS 2118.1-2017.

The Building Code of Australia confirms that the building is a combined class 7a Carpark, Class 9b School and has a rise of 4 storeys.

It has been determined by referencing the standards nominated that the following water flows are required to ensure continuity of water supply to the fire fighting systems in the event of a fire occurrence.

Fire Hydrant System – 10 litres / second

Fire Sprinkler System – 12 litres / second

Combined Required Fire System Flows – 22 litres / second

Following the determination of appropriate fire system water supply parameters, application was made to Sydney Water to provide a Statement of Available Pressure and Flow Certificate for the water mains in both Francis Street (existing school connection point remote from the proposed building) and in Fraser Street (proposed new connection point adjacent to the proposed building).

Both Statements of Available Pressure and Flow were received by McCallum PFCA on 8 October, 2019.

Review of the statements confirmed the following:

#### 1) Application 718558 - Francis Street

The 100mm Sydney Water main is <u>UNABLE</u> to provide the combined fire system water supply requirements and system pressures and will be unable to open the existing property boundary valve set to supply a new pumpset. Connection of the fire systems for the new building via the existing Francis Street water main connection would require the installation of fire system water storage tanks and dual pumpsets and is not an economically viable option.

#### 2) Application 718538 - Fraser Street

The 100mm Sydney Water main is able to provide the combined fire system water supply requirements with sufficient water pressure to open the proposed property boundary valve set and supply a pumpset without requiring the installation of onsite fire services water storage tanks.

A new connection to the Fraser Street water main is the most economically viable water supply option.

The new water supply connection to the Fraser Street water main is supported / approved by Sydney Water without any infrastructure amplification measures.

#### Statement of Available Pressure and Flow



Dearne Jupp 35 Smith Street Charlestown NSW 2290

Attention: Dearne Jupp Date: 08/10/2019

Pressure & Flow Application Number: 718538 Your Pressure Inquiry Dated: 2019-08-30

Property Address: Lot 135 Edgar Street Strathfield NSW 2135

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

#### **ASSUMED CONNECTION DETAILS**

Street Name: Fraser Street	Side of Street: West	
Distance & Direction from Nearest Cross Street	30 metres North from Edgar Street	
Approximate Ground Level (AHD):	27 metres	
Nominal Size of Water Main (DN):	100 mm	

#### **EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT**

Normal Supply Conditions	
Maximum Pressure	80 metre head
Minimum Pressure	39 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	39
Fire Hydrant / Sprinkler Installations	5	45
(Pressure expected to be maintained for 95% of the time)	10	43
	15	40
	20	37
Fire Installations based on peak demand	5	37
(Pressure expected to be maintained with flows	10	34
combined with peak demand in the water main)	15	31
	20	28
Maximum Permissible Flow	26	22

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email:

swtapin@sydneywater.com.au

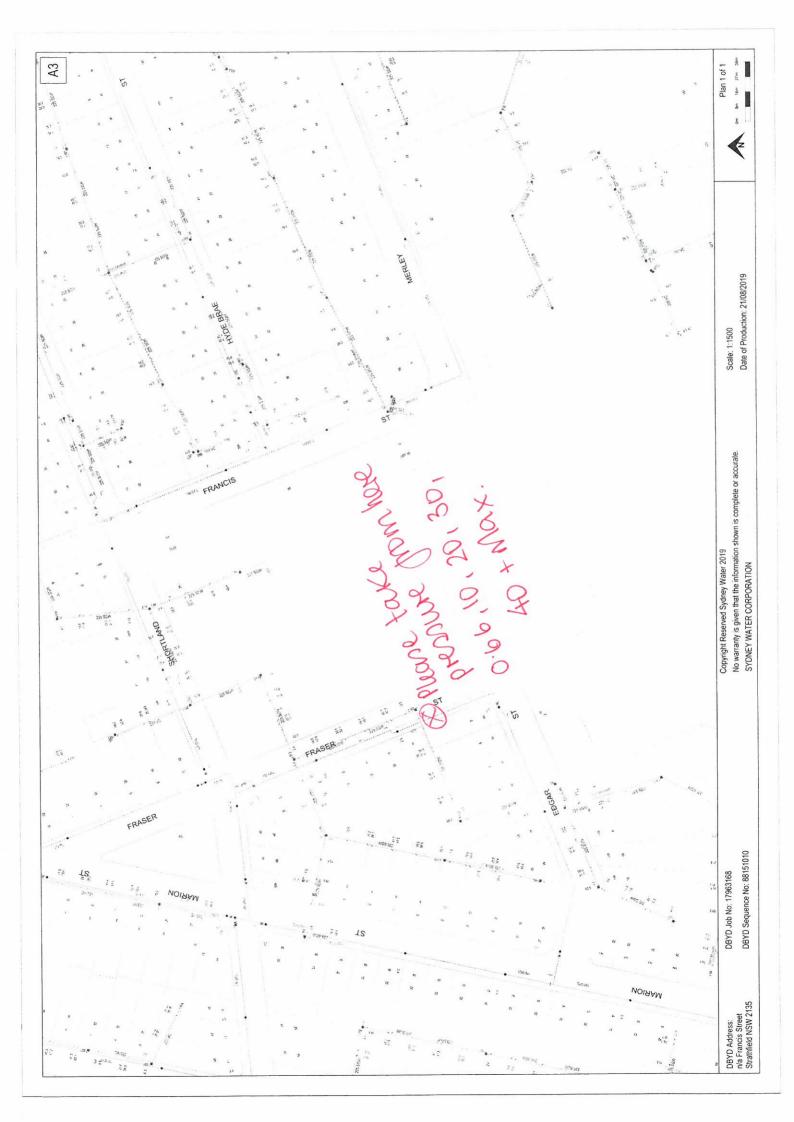
#### **General Notes**

This report is provided on the understanding that (i) the applicant has fully and correctly supplied the information necessary to produce and deliver the report and (ii) the following information is to be read and understood in conjunction with the results provided.

- Under its Act and Operating Licence, Sydney Water is not required to design the water supply specifically for fire fighting. The
  applicant is therefore required to ensure that the actual performance of a fire fighting system, drawing water from the supply,
  satisfies the fire fighting requirements.
- Due to short-term unavoidable operational incidents, such as main breaks, the regular supply and pressure may not be available all of the time.
- 3. To improve supply and/or water quality in the water supply system, limited areas are occasionally removed from the primary water supply zone and put onto another zone for short periods or even indefinitely. This could affect the supply pressures and flows given in this letter. This ongoing possibility of supply zone changes etc, means that the validity of this report is limited to one (1) year from the date of issue. It is the property owner's responsibility to periodically reassess the capability of the hydraulic systems of the building to determine whether they continue to meet their original design requirements.
- 4. Sydney Water will provide a pressure report to applicants regardless of whether there is or will be an approved connection. Apparent suitable pressures are not in any way an indication that a connection would be approved without developer funded improvements to the water supply system. These improvements are implemented under the Sydney Water 'Urban Development Process'.
- 5. Pumps that are to be directly connected to the water supply require approval of both the pump and the connection. Applications are to be lodged online via Sydney Water Tap in<sup>™</sup> system Sydney Water Website <a href="www.sydneywater.com.au/tapin/index.htm">www.sydneywater.com.au/tapin/index.htm</a>. Where possible, on-site recycling tanks are recommended for pump testing to reduce water waste and allow higher pump test rates.
- 6. Periodic testing of boosted fire fighting installations is a requirement of the Australian Standards. To avoid the risk of a possible 'breach' of the Operating Licence, flows generated during testing of fire fighting installations are to be limited so that the pressure in Sydney Water's System is not reduced below 15 metres. Pumps that can cause a breach of the Operating Licence anywhere in the supply zone during testing will not be approved. This requirement should be carefully considered for installed pumps that can be tested to 150% of rated flow.

#### **Notes on Models**

- Calibrated computer models are used to simulate maximum demand conditions experienced in each supply zone. Results have not been determined by customised field measurement and testing at the particular location of the application.
- Regular updates of the models are conducted to account for issues such a urban consolidation, demand management or zone change.
- 3. Demand factors are selected to suit the type of fire-fighting installation. Factor 1 indicates pressures due to system demands as required under Australian Standards for fire hydrant installations. Factor 2 indicates pressures due to peak system demands.
- 4. When fire-fighting flows are included in the report, they are added to the applicable demand factor at the nominated location during a customised model run for a single fire. If adjacent properties become involved with a coincident fire, the pressures quoted may be substantially reduced.
- 5. Modelling of the requested fire fighting flows may indicate that local system capacity is exceeded and that negative pressures may occur in the supply system. Due to the risk of water contamination and the endangering of public health, Sydney Water reserves the right to refuse or limit the amount of flow requested in the report and, as a consequence, limit the size of connection and/or pump.
- 6. The pressures indicated by the modelling, at the specified location, are provided without consideration of pressure losses due to the connection method to Sydney Water's mains.



#### Statement of Available Pressure and Flow



Dearne Jupp 35 Smith Street Charlestown NSW 2290

Attention: Dearne Jupp Date: 08/10/2019

Pressure & Flow Application Number: 718558 Your Pressure Inquiry Dated: 2019-08-30

Property Address: Lot 135 Edgar Street Strathfield NSW 2135

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

#### **ASSUMED CONNECTION DETAILS**

Street Name: Francis Street	Side of Street: East
Distance & Direction from Nearest Cross Street	40 metres South from Hydebrae Street
Approximate Ground Level (AHD):	29 metres
Nominal Size of Water Main (DN):	100 mm

#### **EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT**

Normal Supply Conditions	
Maximum Pressure	78 metre head
Minimum Pressure	36 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow I/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	35
Fire Hydrant / Sprinkler Installations	5	41
(Pressure expected to be maintained for 95% of the time)	10	38
	15	33
	20	26
Fire Installations based on peak demand	5	33
(Pressure expected to be maintained with flows	10	28
combined with peak demand in the water main)	15	23
	20	16
Maximum Permissible Flow	26	5

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email:

swtapin@sydneywater.com.au

#### **General Notes**

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- Under its Act and Operating Licence, Sydney Water is not required to design the water supply specifically for fire fighting. The
  applicant is therefore required to ensure that the actual performance of a fire fighting system, drawing water from the supply,
  satisfies the fire fighting requirements.
- Due to short-term unavoidable operational incidents, such as main breaks, the regular supply and pressure may not be available all of the time.
- 3. To improve supply and/or water quality in the water supply system, limited areas are occasionally removed from the primary water supply zone and put onto another zone for short periods or even indefinitely. This could affect the supply pressures and flows given in this letter. This ongoing possibility of supply zone changes etc, means that the validity of this report is limited to one (1) year from the date of issue. It is the property owner's responsibility to periodically reassess the capability of the hydraulic systems of the building to determine whether they continue to meet their original design requirements.
- 4. Sydney Water will provide a pressure report to applicants regardless of whether there is or will be an approved connection. Apparent suitable pressures are not in any way an indication that a connection would be approved without developer funded improvements to the water supply system. These improvements are implemented under the Sydney Water 'Urban Development Process'.
- 5. Pumps that are to be directly connected to the water supply require approval of both the pump and the connection. Applications are to be lodged online via Sydney Water Tap in<sup>™</sup> system Sydney Water Website <a href="www.sydneywater.com.au/tapin/index.htm">www.sydneywater.com.au/tapin/index.htm</a>. Where possible, on-site recycling tanks are recommended for pump testing to reduce water waste and allow higher pump test rates.
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#### **Notes on Models**

- Calibrated computer models are used to simulate maximum demand conditions experienced in each supply zone. Results have not been determined by customised field measurement and testing at the particular location of the application.
- Regular updates of the models are conducted to account for issues such a urban consolidation, demand management or zone change.
- 3. Demand factors are selected to suit the type of fire-fighting installation. Factor 1 indicates pressures due to system demands as required under Australian Standards for fire hydrant installations. Factor 2 indicates pressures due to peak system demands.
- 4. When fire-fighting flows are included in the report, they are added to the applicable demand factor at the nominated location during a customised model run for a single fire. If adjacent properties become involved with a coincident fire, the pressures quoted may be substantially reduced.
- 5. Modelling of the requested fire fighting flows may indicate that local system capacity is exceeded and that negative pressures may occur in the supply system. Due to the risk of water contamination and the endangering of public health, Sydney Water reserves the right to refuse or limit the amount of flow requested in the report and, as a consequence, limit the size of connection and/or pump.
- 6. The pressures indicated by the modelling, at the specified location, are provided without consideration of pressure losses due to the connection method to Sydney Water's mains.



#### 14 C) WASTEWATER CONNECTION APPROVED BY SYDNEY WATER

Sydney Water have been contacted regarding the connection of the buildings wastewater to their sewage system.

Review of the limited information available on the existing school sanitary drainage system has determined that a new connection to the Sydney Water system is the most appropriate option to facilitate the proposed building due to the following reasons:

- 1) The current loading of fixtures through the existing site discharge pipe is not known.
- 2) The size and grade of existing sanitary drains through the site is unknown.
- 3) Due to items 1) and 2) above, the ability of existing sanitary pipelines to be able to convey the wastewater from the new building to the site connection point, whilst being in full compliance with the requirements of AS/NZS 3500.0-2017 cannot be verified.
- 4) The level of the building may not allow connection to the existing site sanitary pipelines.
- 5) Connection to existing site sanitary drains (if calculated as possible) may require substantial demolition and renewal of existing paved and landscaped areas.

Therefore, an application has been made to Sydney Water for a new property connection specifically for the proposed building. The location requested is to an existing Sydney Water sewer main at the northern end of the existing sports ground. The sewer junction is located on the western extremity of the sanitary drain within the site and immediately adjacent Fraser Street.

This location enables connection to the proposed building via a new trench to the side of the sporting field. This will result in minimal disruption to the field during the Construction Phase.

Sydney Water have assessed the proposal and have returned the Wastewater Connection Application No. 808665 for Property Number 3920869 dated 7/2/2020.

The connection application has been marked as 'Approved' for authorisation to make the connection requested. No additional requirements or infrastructure amplification measure have been nominated by Sydney Water.



# Wastewater connection application

Application number 808665

Property number 3920869

07/02/2020

Dear Dearne Jupp

Your application for the property at Lot 135 Edgar St Strathfield NSW 2135 to our gravity wastewater system has been

#### **APPROVED**

If you follow the conditions in this letter, you're authorised to connect to the service and use it, under section 48A of the Sydney Water Act.

This approval is valid until 07/02/2021 (one year).

#### **NEXT STEPS**

We will send you emails with instructions at each stage of the process.

#### **STANDARD CONDITIONS**

The connection must be made to the existing wastewater connection point (junction). A licensed plumber must connect your property plumbing to our connection point.

You must not discharge stormwater or groundwater to your wastewater connection, or connect any pipe carrying stormwater or groundwater to your wastewater connection.

This letter gives you permission to discharge domestic quality wastewater only. If you want to discharge trade wastewater from business activities you must lodge a Trade Waste Application through **Sydney Water Tap in™ – Discharge Trade Wastewater**.

The letter does not provide approval to pump wastewater into Sydney Water's Wastewater network. If you want to pump wastewater into our network you must lodge a Pump to Wastewater application through **Sydney Water Tap in™ – Pressure Boosting and Pumps**.

If there is no wastewater connection point (junction) in our pipe or if it is not serviceable you must apply to insert a new connection point through **Sydney Water Tap in™ – Connection Approvals**. A listed constructor, including Sydney Water, must insert the wastewater connection point. Refer to <a href="https://www.sydneywater.com.au">www.sydneywater.com.au</a> and go to the Providers page in the Plumbing, building and developing section for a list of suppliers.

#### **SPECIAL CONDITIONS**



Boundary trap required	Yes
Watercharged / tidal area	No
Partial drainage area	No
Aggressive soil area	No
Cast iron pipe area	No
Sewer surcharge area	Unknown
Minimum gully height area	No
Sewer available	Yes
Connection type	Gravity

You must contact Sydney Water to clarify the property special conditions where:

- 1. the property special conditions are not shown
- 2. are shown as "unset", "unknown" or "not available"
- 3. the proposed development is being built over more than one existing property.

Please note that boundary traps must be fitted for all commercial and industrial properties and you must ensure that all plumbing/drainage and building works are carried out in accordance with the relevant codes and standards.

If your connection does not comply with these conditions it will be regarded as an unauthorised connection. We may ask you to rectify the unauthorised connection, or we may restrict your services or disconnect you until you rectify any faults.

Customers with approved connections are covered by the conditions of our Customer Contract. If you have special conditions of connection, they will be covered in an Additional Services Agreement.

#### **PLUMBING INSPECTIONS**

Private plumbing is regulated by NSW Fair Trading.

#### **ANY QUESTIONS?**

Email us <a href="mailto:connections@sydneywater.com.au">connections@sydneywater.com.au</a>

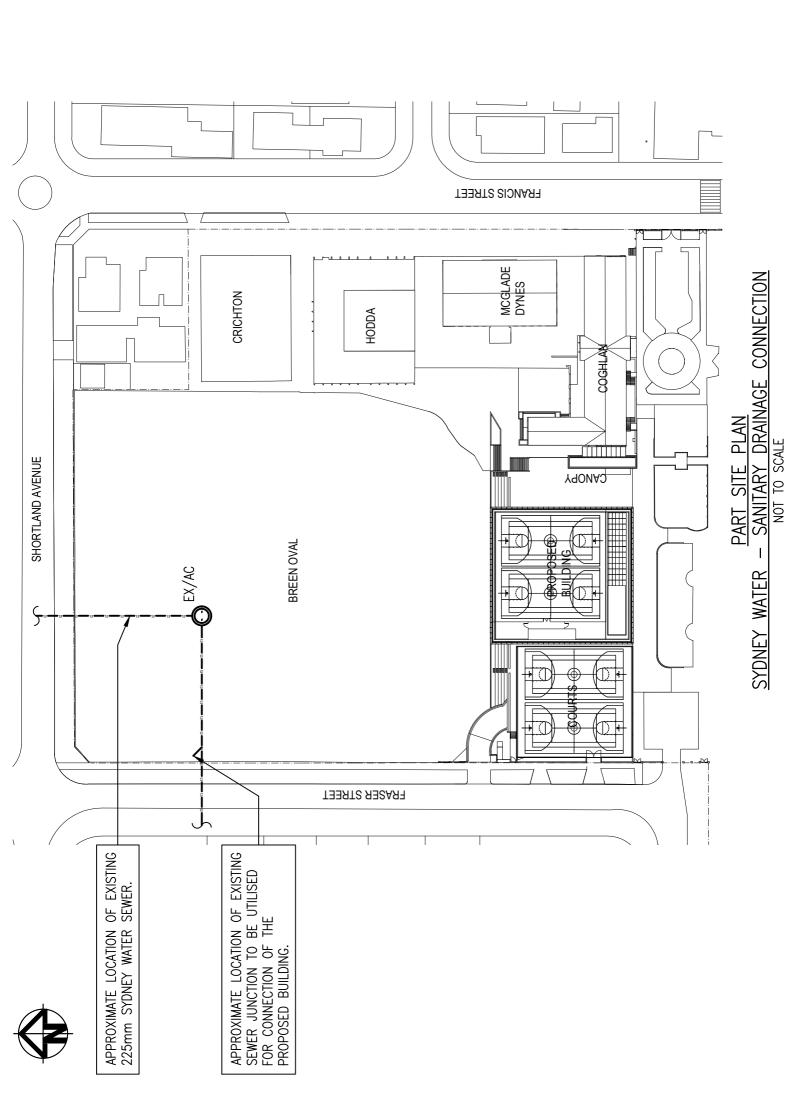
Call us 1300 082 746

**X** Terms of Use Report a map error Map data @2020 Sydney Water Tap in - Wastewate X This is the property Plumbing & Fire Cons. X M Fwd: 48 Lawrence St, Freshwater X Select a wastewater asset n/secure/application/getDetails Satellite 14 G00016 Map

You have selected:

ID: 3633478, 225 SGW Re., culation







#### 14 D) BUILDING PLAN ASSESSMENT APPLICATION – APPROVED BY SYDNEY WATER

Application was made to Sydney Water for a Building Plan Assessment.

The purpose of the assessment is for Sydney Water to review the location, size and level of the building in order to determine if its construction is likely to impact upon any existing water supply, sanitary drainage or stormwater drainage infrastructure they may have in the area of the proposed works.

The application was made through the Sydney Water 'Tap In' online portal.

McCallum PFCA received the Building Plan Assessment notification letter dated 19/12/2019 for Application No. 784100 for Property Address 135 Edgar Street, Strathfield.

The application letter has been marked as 'Approved' and nominates specifically 'This structure will not impact Sydney Water Infrastructure.'

No additional requirements or infrastructure amplification have been nominated by Sydney Water.



## Building plan assessment application

Application number: 784100

Property address: Lot 135 Edgar St Strathfield NSW 2135

Lot details: Lot 20, Deposited Plan 1203221

19/12/2019

Dear Dearne Jupp

Your building plan assessment application has been

#### **APPROVED**

This Approval is provided subject to the Conditions and Important Information issued to you by Sydney Water, which you are taken to have accepted by using the approval.

This Approval is based on the information you provided to us through Sydney Water Tap in.

If any of the information you have provided is incorrect or incomplete, Sydney Water may revoke this Approval.

This approval is valid until 18/12/2020 (one year).

#### **ANY QUESTIONS?**

Email us swtapin@sydneywater.com.au

Call us 1300 082 746

#### **STRUCTURES**

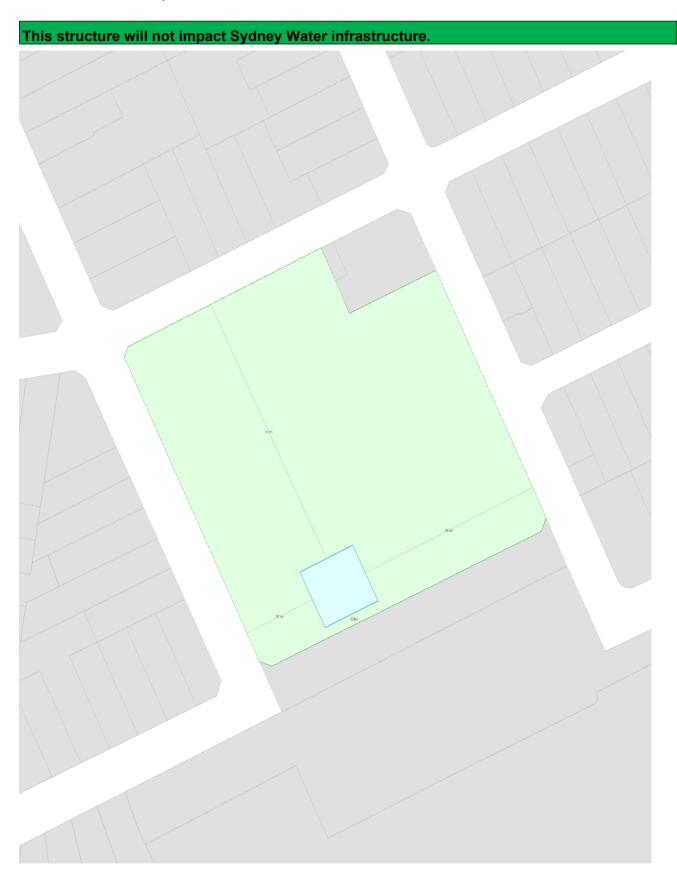
The structures and information you supplied are displayed below.

#### Structure(s) that will not impact Sydney Water infrastructure

Ctructure 1	Cahaal Duilding	20.0 m y 20.1 m y 2.0 m
Structure 1	School Building	28.0 m x 28.1 m x 2.9 m

#### Structure 1 of 1: School Building

Application number: 784100 Property address: Lot 135 Edgar St Strathfield NSW 2135 Lot details: Lot 20, Deposited Plan 1203221



#### CONDITIONS AND IMPORTANT INFORMATION

#### **Conditions and Important Information**

#### Attention: You must read the information below.

- 1 The approval of your building plan by Sydney Water (Approval) has been generated by an automated system based on the information you have provided to Sydney Water through the Sydney Water Tap in. Sydney Water does not make any representation or give any guarantee, warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Approval.
- 2 It is your responsibility to ensure that the information is correct and complete when submitting your building plan for approval through Sydney Water Tap in and, if any of the information is incorrect or incomplete, to resubmit information that is correct and complete. If any of the information that you have provided is incorrect or incomplete, this may result in the revocation of the Approval.
- 3 The Approval is provided on each of the following conditions which you are taken to have accepted by using the Approval. To the fullest extent permitted by law:
  - (a) all conditions and guarantees concerning the Approval (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded and to the extent that those statutory guarantees cannot be excluded, the liability of Sydney Water to you is limited to either of the following as nominated by Sydney Water in its discretion, which you agree is your only remedy:
    - i. the supplying of the Approval again; or
    - ii. payment of the cost of having the Approval supplied again;
  - (b) in no event will Sydney Water be liable for, and you release Sydney Water from all Losses arising out of or in connection with you providing incorrect or incomplete information to Sydney Water in connection with the Approval:
    - i. whether arising under statute or in contract, tort or any other legal doctrine, including any negligent act, omission or default (including wilful default) by Sydney Water; and
    - ii. regardless of whether Sydney Water is or ought to have been aware of, or advised of, the possibility of such loss, costs or damages;
  - (c) you will indemnify, defend and hold harmless Sydney Water from and against all Losses of Sydney Water in respect of, or in connection with loss or damage to any property, personal injury (including death or illness of any person), arising out of or in connection with:
    - i. you providing incorrect or incomplete information to Sydney Water in connection with the Approval; or
    - ii. any third party claim against Sydney Water; and
  - (d) you assume all risks associated with the use of the Sydney Water Tap in and Sydney Water websites, including risk to your computer, software or data being damaged by any virus, and you release and discharge Sydney Water from all Losses which might arise in respect of your use of the websites.



#### 14 E) NATURAL GAS CONNECTION - APPROVED BY JEMENA

McCallum PFCA have contacted Jemena (NSW natural gas infrastructure manager) via their online portal to determine if the proposed building can connect to the local area gas supply.

Jemena have been provided with the location of the proposed building and the probable natural gas demand loads required to adequately supply the buildings kitchens, science and hot water needs.

The application requests a new property connection specifically for the use of the new building.

It is not intended to make connection to the existing school gas reticulation system for the following reasons:

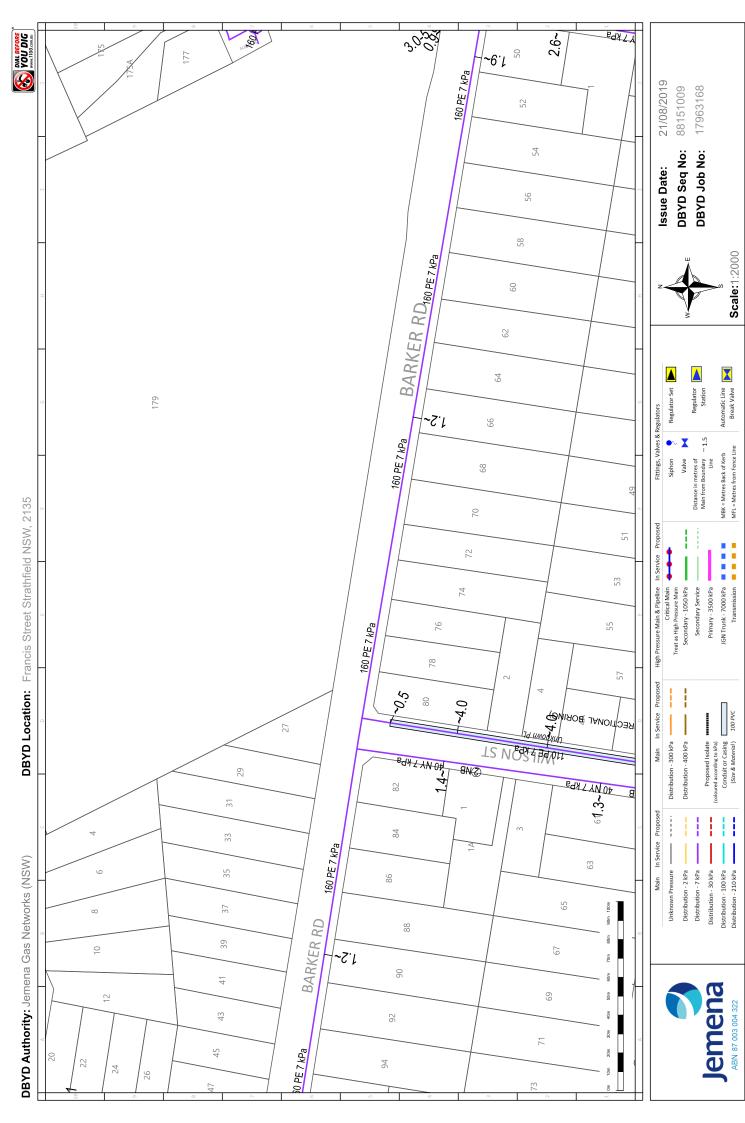
- 1) The extent of the existing school reticulation system is not known.
- 2) The size of the existing gas pipelines within the school is not known.
- 3) The total loading of the existing appliances in the school is not known.
- 4) The new building has a large predicted gas load and it has been determined that it is very unlikely that the existing school reticulation system will be able to facilitate the additional load.

There is an existing gas main located immediately to the south (within a few metres) of the building in Edgar Street. This section of Edgar Street is now owned by the school enabling ease of connection.

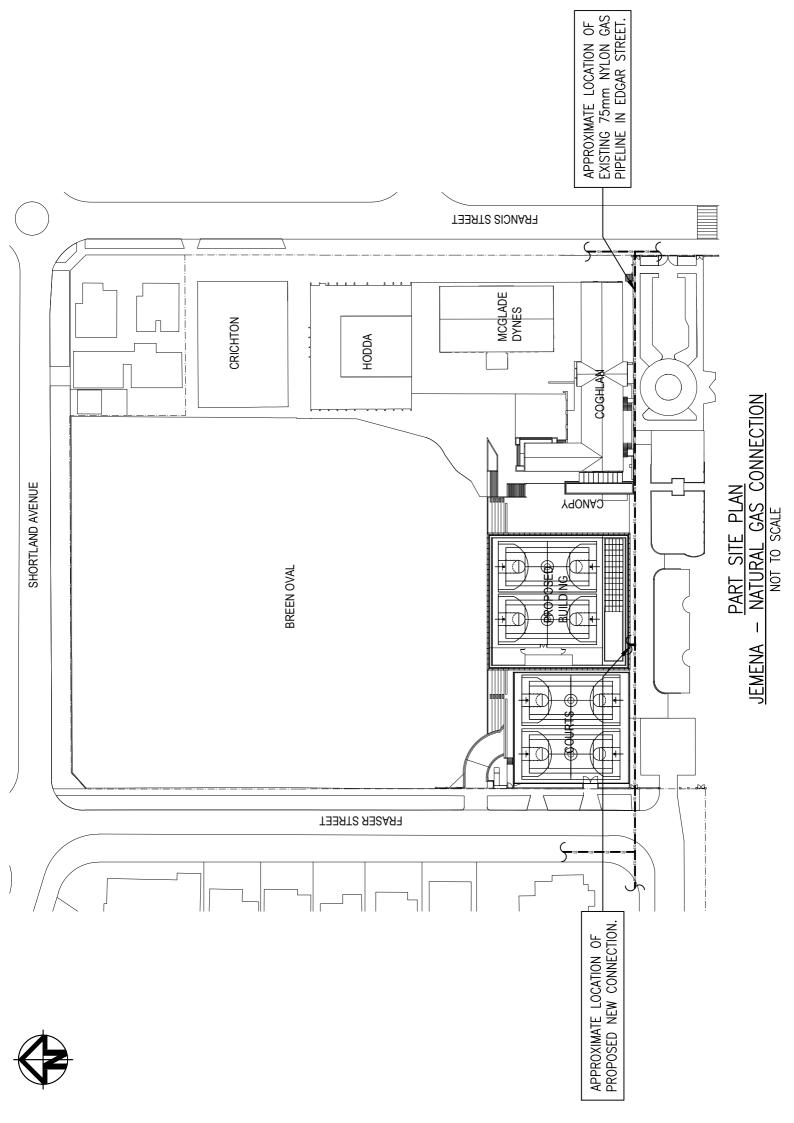
Jemena have assessed the connection proposal and the projected gas loadings and any impact on their main infrastructure.

McCallum PFCA have received the Jemena approval correspondence dated 5-4-2020 for Application No. 00219486.

The application has resulted in Jemena making an offer for the provision of a new connection at No. 1 Edgar Street, Strathfield. This is in accordance with the location requested in our application submission. No additional requirements or infrastructure amplification measures have been nominated by Jemena.



WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagramatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



McCallum Plumbing and Fire Consultants Australia Mrs Dearne Jupp 5/35 SMITH STREET CHARLESTOWN, NSW, 2290

Dear Mrs Jupp,

# Re: Offer for your Application for a new connection to the gas network application #000219486

We have reviewed your Application #000219486 for the provision of **new connection** for a new commercial connection at **1 EDGAR Street**, **STRATHFIELD**, **NSW**, **2135** and we are pleased to make this offer to undertake and complete this work.

#### Quote

Material	Description	Qty	Price	Subtotal	
S68	<b>Customer Contribution GAS</b>	1	\$0.00	\$0.00	
Total				\$0.00	(excl GST)
				\$0.00	(GST)
				\$0.00	(incl GST)

#### Important message

This is a connection to a path valve only. To complete the connection your gas fitter will need to install a path valve located on edgar STREET and provide us with a certificate of compliance and leak test certificate to complianceNC@jemena.com.au using reference: (quote number 23080909). After the offer is accepted, the service orders are raised by the retailer, your plumber will then need to contact Zinfra Meter Centre on 1300 722 914 and give reference of the MFX to facilitate the Metering Equipment.

#### Scope of works

Upon receipt of the certificate we will arrange for a connection from our gas main to the path valve. Jemena will issue the meter, but your gas fitter is also required to install the meter. System Pressure - 7kPa: Delivery

Pressure - 2.75kPa: Peak Load - 2230mj/hr: Annual Load -729GJ: the street supply is coming from - Egdar Street: Meter Size - L40: Service Size: 75mm

The offer number is 0023080909 and it will expire on 27/05/2020 and is offered under the terms of the negotiated commercial connection contract.

After you've accepted our offer, we will allocate your application to a retailer who will contact you to set up a gas account. Once they've set up the gas account, they will let us know and we will start the work to get you connected.

Should you have any further enquiries regarding this offer, please don't hesitate to send a message or call us on 1300 137 078.

Regards,



#### 14 F) WATER MANAGEMENT PLAN

#### Potable Water

The use of potable water from the Sydney Water mains within the building and surrounds is to be limited to the following areas in order to reduce the environmental impact of the building due to water consumption.

- All ablution facilities In accordance with New South Wales Health requirements.
- All science area fixtures In order to maintain the consistency of experiments including the use of water.
- All cooking and related preparation fixtures and equipment In accordance with the pure food act.
- Wet fire services In order to ensure the water being sprayed onto fires does not contain contaminants that could impact the health of fire fighting personnel.

#### Rainwater Reuse (Non-Potable Water)

Rainwater is to be collected from the two roof / court areas and directed to a storage tank. Northrop Consulting Engineers have nominated the tank to have an effective storage capacity of 18 Kilolitres.

Prior to reuse, the collected rainwater will be filtered to remove sediment particles and disinfected using an ultra violet light disinfection unit to remove bacteria. It is intended to utilise the rainwater for the following purposes.

- Supply toilet cisterns within the amenities areas.
- Supply nominated hose taps for washdown purposes.
- Supply any washing machines determined necessary for the food technology area.
- Supply irrigation points for planter boxes on the building roof.
- Supply irrigation to surrounding landscape areas.