

13 November 2020

Sally Munk

Principle Planning Officer

Industry Assessments

Department of Planning, Industry and Environment

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RE: State Significant Development Application for Western Sydney Energy Resource and Recovery Centre at 339 Wallgrove Road, Eastern Creek (SSD-10395)

Thank you for notifying Sydney Water of the abovementioned SSD application, which proposes the construction of an energy-from-waste facility capable of generating 58 megawatts of power by thermally heating up to 500,000 tonnes of waste per year. Sydney Water has reviewed the application based on the information supplied and provides the following comments to assist in planning the servicing needs of the proposed development.

Water Servicing

- The development proposes to connect to DN250 water main on Wallgrove Road.
- The development has an average domestic demand of 0.3 l/s and peak demand of 1.51 l/s. The DN250 main on Wallgrove Road has capacity to supply proposed demands to the development.
- The development proposed to source the process demand (constant 9.0 l/s flow) required to serve the process requirements of the EfW facility from recycled water. Until the time when recycled water or an alternative supply is available to the development, this constant flow of 9.0 l/s can be drawn from the same DN250 main. Any increase in this demand must be consulted with Sydney Water. Whenever there is recycled available, the demand must be sourced from recycled water.
- All works need to comply with WSA code.

Recycled Water Servicing

- Sydney Water is currently undertaking a feasibility study to investigate potential solutions to provide a recycled source of water.
- Recycled water servicing may therefore become available in future, however there is no guarantee nor timeframe for its delivery. More information on this will be provided at the Section 73 stage.

Wastewater Servicing

- The development proposed to discharge average domestic wastewater flow of 0.25 l/sec and peak flow of 1.51 l/s. via a pump and rising main to an existing DN225 main on Roussell Road (asset no 9120871). The development is located south of Quakers Hill STS.
- The existing DN225 main on Roussell Road has capacity to take the additional average flow of 0.25 l/sec and peak flow of 1.51 l/s. Any increase in the discharge flow must be consulted with Sydney Water prior to discharge.

- The design and construction of pump and rising main must comply with WSA code.

Trade Waste

- Due to the anticipated trade waste generated by this proposed development's operations, Sydney Water requests the proponent adhere to our trade waste requirements. This may include the provision of sufficient on-site storage of wastewater so it can be treated to our specifications before it is discharged into our wastewater network. The exact type and sizing of any required on-site storage is to be determined through the trade waste process following confirmation of dedicated disposal routes for wastewater. Details of these requirements and the process for progressing applications are found in Attachment 2.

This advice is not formal approval of our servicing requirements. Detailed requirements, including any potential extensions or amplifications, will be provided once the development is referred to Sydney Water for a Section 73 application. More information about the Section 73 application process is available on our web page in the [Land Development Manual](#).

Further advice and requirements for this proposal are in the Attachments 1 & 2. If you require any further information, please contact the Growth Planning Team at urbangrowth@sydneywater.com.au.

Yours sincerely,

A handwritten signature in black ink, appearing to read "KL", enclosed within a large, loopy, horizontal oval shape.

Kristine Leitch

Growth Intelligence Manager

City Growth and Development, Business Development Group

Sydney Water, 1 Smith Street, Parramatta NSW 2150

Attachment 1

Sydney Water Servicing

A Section 73 Compliance Certificate under the Sydney Water Act 1994 must be obtained from Sydney Water.

The proponent is advised to make an early application for the certificate, as there may be water and wastewater pipes to be built that can take some time. This can also impact on other services and buildings, driveways or landscape designs.

Applications must be made through an authorised Water Servicing Coordinator. For help either visit www.sydneywater.com.au > Plumbing, building and developing > Developing > Land development or telephone 13 20 92.

Building Plan Approval

The approved plans must be submitted to the Sydney Water [Tap in™](#) online service to determine whether the development will affect any Sydney Water sewer or water main, stormwater drains and/or easement, and if further requirements need to be met.

The Sydney Water [Tap in™](#) online self-service replaces our Quick Check Agents as of 30 November 2015.

The [Tap in™](#) service provides 24/7 access to a range of services, including:

- building plan approvals
- connection and disconnection approvals
- diagrams
- trade waste approvals
- pressure information
- water meter installations
- pressure boosting and pump approvals
- changes to an existing service or asset, e.g. relocating or moving an asset.

Sydney Water's [Tap in™](#) online service is available at:

<https://www.sydneywater.com.au/SW/plumbing-building-developing/building/sydney-water-tap-in/index.htm>

Attachment 2

Requirements for **Business Customers for Commercial and Industrial Property Developments.**

Trade Wastewater Requirements

If this development is going to generate trade wastewater, the property owner must submit an application requesting permission to discharge trade wastewater to Sydney Water's sewerage system. You must obtain Sydney Water approval for this permit before any business activities can commence. It is illegal to discharge Trade Wastewater into the Sydney Water sewerage system without permission.

The permit application should be emailed to Sydney Water's [Business Customer Services](mailto:businesscustomers@sydneywater.com.au) at businesscustomers@sydneywater.com.au

A Boundary Trap is required for all developments that discharge trade wastewater where arrestors and special units are installed for trade wastewater pre-treatment.

If the property development is for Industrial operations, the wastewater may discharge into a sewerage area that is subject to wastewater reuse. Find out from Business Customer Services if this is applicable to your development.

Backflow Prevention Requirements

Backflow is when there is unintentional flow of water in the wrong direction from a potentially polluted source into the drinking water supply.

All properties connected to Sydney Water's supply must install a testable Backflow Prevention Containment Device appropriate to the property's hazard rating. Property with a high or medium hazard rating must have the backflow prevention containment device tested annually. Properties identified as having a low hazard rating must install a non-testable device, as a minimum.

Separate hydrant and sprinkler fire services on non-residential properties, require the installation of a testable double check detector assembly. The device is to be located at the boundary of the property.

Before you install a backflow prevention device:

1. Get your hydraulic consultant or plumber to check the available water pressure versus the property's required pressure and flow requirements.
2. Conduct a site assessment to confirm the hazard rating of the property and its services. Contact PIAS at NSW Fair Trading on 1300 889 099.

For installation you will need to engage a licensed plumber with backflow accreditation who can be found on the Sydney Water website:

<http://www.sydneywater.com.au/Plumbing/BackflowPrevention/>

Water Efficiency Recommendations

Water is our most precious resource and every customer can play a role in its conservation. By working together with Sydney Water, business customers are able to reduce their water consumption. This will help your business save money, improve productivity and protect the environment.

Some water efficiency measures that can be easily implemented in your business are:

- Install water efficiency fixtures to help increase your water efficiency, refer to WELS (Water Efficiency Labelling and Standards (WELS) Scheme, <http://www.waterrating.gov.au/>
- Consider installing rainwater tanks to capture rainwater runoff, and reusing it, where cost effective. Refer to <http://www.sydneywater.com.au/Water4Life/InYourBusiness/RWTCalculator.cfm>
- Install water-monitoring devices on your meter to identify water usage patterns and leaks.
- Develop a water efficiency plan for your business.

It is cheaper to install water efficiency appliances while you are developing than retrofitting them later.

Contingency Plan Recommendations

Under Sydney Water's [customer contract](#) Sydney Water aims to provide Business Customers with a continuous supply of clean water at a minimum pressure of 15meters head at the main tap. This is equivalent to 146.8kpa or 21.29psi to meet reasonable business usage needs.

Sometimes Sydney Water may need to interrupt, postpone or limit the supply of water services to your property for maintenance or other reasons. These interruptions can be planned or unplanned.

Water supply is critical to some businesses and Sydney Water will treat vulnerable customers, such as hospitals, as a high priority.

Have you thought about a contingency plan for your business? Your Business Customer Representative will help you to develop a plan that is tailored to your business and minimises productivity losses in the event of a water service disruption.

For further information please visit the Sydney Water website at:

<http://www.sydneywater.com.au/OurSystemsandOperations/TradeWaste/> or contact Business Customer Services on 1300 985 227 or businesscustomers@sydneywater.com.au.