

8 November 2022

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Hounsell Holdings Limited
110 Customs Street West
Auckland Central

Attention: Nicsha Farac

Dear Nicsha,

Rotokauri Greenway and Minor Arterial Fast Track Application

1 Introduction

SLR Consulting NZ Ltd (**SLR**) has been commissioned to undertake an assessment of acoustic effects associated with the construction of the proposed Rotokauri Greenway and Minor Arterial in Hamilton.

The proposed project for which a fast-track application under the **COVID-19 Recovery (Fast-track Consenting) Act 2020** is being applied for is the consenting and construction of:

- the Rotokauri Greenway;
- the Minor Arterial;
- the bulk watermain under the Minor Arterial and other roads;
- the wastewater rising main, and
- strategic wastewater pipeline and pump station.

The purpose of this project is to provide the necessary infrastructure pertaining to stormwater management and discharge along with critical roading connectivity to enable the residential development of the Rotokauri, a 'live' zoned residential growth cell in Hamilton north. The Rotokauri growth cell has a planned capacity of approximately 7,000 homes for approximately 20,000 people (noting this could increase with the recent proposed change under HCC's Plan Change 12). Appropriate and necessary infrastructure is required to enable the balance of this growth cell. The key objective of this project is to design, consent and enable high-quality infrastructure that supports well-functioning urban development that can provide for the social, cultural and economic well-being of the community and wider Waikato region

As highlighted above, there are two key components to this proposal, the Greenway and the Minor Arterial, which integrate and need to be designed and consented in parallel. Both pieces of infrastructure are critical features of the existing Rotokauri Structure Plan contained in the Hamilton City District Plan and certified Rotokauri Integrated Catchment Management Plan (ICMP).

The Greenway is a multi-functioning ecological corridor that will provide for stormwater management, open space and an active transport network, traverses a range of adjacent land use and offering a range of opportunities including ecological restoration, water runoff treatment recreational activities and cultural reinstatement. The Greenway will include a fluvial system of swales, artificial wetlands and ponds, with extensive planting of indigenous species along the length of the corridor. The approximately 4.7km length corridor will run between Lake Waiwhakareke (high point) and Lake Rotokauri (low point) to effectively manage and attenuate stormwater within the area, treating stormwater prior to discharge to enhance the water quality and surrounding natural environments and ecosystems. The overarching purpose of the Greenway is to provide treatment, conveyance and storage of flows from Lake Waiwhakareke at the upper extent of the catchment) to Lake Rotokauri approximately 4km north. Construction of the Greenway includes major re-alignment and re-contouring of the existing Rotokauri Drain, as well as an upgrade to the culvert below Exelby Road and the construction of check dams in the lower reaches to assist in managing flows. The Greenway includes a 5 metre wide shared path on the southern side and a 3 metre wide secondary path on the north side.

The Minor Arterial is a key piece of enabling infrastructure that promotes a housing development within Rotokauri. The Minor Arterial extends 3.8km in length from Te Wetini Drive to the northern boundary of Hounsell Holdings land, including the collector road to the Chalmers Road underpass and the northern boundary of Hounsell Holdings land to the underpass that links to Te Kowhai East Road. Supporting three water infrastructure which is sized to cater for the wider catchment is also proposed which includes:

- the bulk watermain under the Minor Arterial;
- wastewater rising main;
- strategic wastewater pipeline, and
- pump station will also be included in the project.

The Minor Arterial will prioritise and enable active transportation with wide footpaths and separated cycleways, supported by planted medians to improve safety. There will be public transport connections provided, which will connect to the Rotokauri Transport Hub (1 kilometre east of Rotokauri), with bus stops along the length of the corridor.

As part of the resource consent application phase, SLR's role is to evaluate compliance against the Hamilton City Council – Operative District Plan requirements and relevant rules for construction noise and vibration. SLR would identify appropriate additional control measures, if necessary, to result in reasonable noise and vibration effects.

2 Hamilton City Council – Operative District Plan Requirements

The *Hamilton City Council – Operative District Plan* contains noise performance criteria related to amenity impacts on neighbouring properties during construction assessed in accordance with NZS 6803:1999 *Acoustics – Construction Noise*, and vibration performance criteria related to the avoidance of cosmetic damage to neighbouring properties during construction assessed in conformity with the German Standard DIN 4150-3:1999 *Structural vibration – Effects of vibration on structures*.

3 High Level Review

The majority of construction-related noise and vibration generated during the construction phase of the project is anticipated to comply with the *Hamilton City Council – Operative District Plan* given the separation distance to surrounding properties. However, it is not uncommon for short-term exceedances to occur on projects of this scale, particularly for work in close proximity of neighbouring receivers.

Resulting effects associated with these temporary infringements are anticipated to be reasonable and acceptable, typically managed through the adoption of a Construction Noise and Vibration Management Plan (CNVMP). A CNVMP identifies the Best Practicable Option (BPO) mitigation and management measures to reduce effects to reasonable levels. Such measures may include physical screening, plant/methodology limitations (e.g., limiting larger plant to works further removed from receivers), correspondence with neighbours, complaint response procedures and noise/vibration monitoring.

4 Experience and Qualifications

The acoustic assessment will be overseen and managed by Peter Runcie. Peter is an acoustic specialist with over 15 years of experience in the field of acoustic consultancy. He has worked on projects in New Zealand, Australia, the UK, Europe and the Middle East across infrastructure, commercial, residential, healthcare and educational sectors, related to environmental impact assessment (EIA), building services and architectural acoustics within the context of large developments through to smaller bespoke projects.

Peter's experience encompasses a wide range of projects from planning applications for single items of plant through to large scale EIAs for mixed use developments and infrastructure; from inception through to construction and completion, commissioning and peer review. He also has extensive experience in building acoustics providing advice to ensure both occupier comfort and compliance with local standards for residential, commercial, educational and leisure developments.

He undertakes technical peer review work for Auckland Council and is an approved Auckland Council Producer Statement author authorised to demonstrate compliance with the Building Code. Peter has also appeared in the Environment Court as an expert witness.

We trust the above serves to supply the information required, should you have any queries please do not hesitate to contact us.

Yours sincerely,



PETER RUNCIE
Technical Director

Checked/ JR
Authorised by: PR