

11 June 2015

KAREN HEATHER STEWART
6 TIRI VIEW PLACE
WAIAKE
AUCKLAND 0630

Dear Sir/Madam

Information Held by Council - Tsunami Flood Zone

Tauranga City Council has undertaken a lot of work over the past few years to better understand how a large tsunami, should it occur, might impact our City.

This letter is to advise you that Council now holds information that shows your property at 11 PALOMINO PLACE is located in a possible tsunami flood zone. A copy of a Property File Note (appended to the end of this letter) relating to this information will be placed on your property file and provided in any Land Information Memoranda supplied in relation to your property.

Additional information regarding tsunami modelling, including the technical reports and maps is available on Council's website www.tauranga.govt.nz/tsunami. Also available is information on tsunami, how to prepare for this possible event, evacuation plans and safe locations.

We have included a flyer with some frequently asked questions about tsunami as well as a map of the tsunami evacuation zones and safe locations for your area.

Council will be running Community Open Days in your area in July 2015 which will provide you with an opportunity to talk with and provide feedback to staff and consultants about tsunami evacuation in Tauranga City. The dates and venues are available on Council's website (www.tauranga.govt.nz/tsunami) and will be publicised.

For more information please visit our website or call Council on 07 577 7000.

Yours faithfully



Paul Baunton
Manager: Emergency Management

Property File Note for inclusion on Land Information Memorandum

In 2004 the National Institute of Water and Atmospheric research (NIWA) identified over the past 4000 years a total of two major regional-impact paleo-tsunami events have been recorded along the Bay of Plenty/Eastern Coromandel area and up to 4 local-impact paleo-tsunami have occurred with run-up heights in excess of 5 m and extending as far as 7 km inland. NIWA identified that extent of tsunami inundation would need to be confirmed using a tsunami wave model with realistic land topography once a credible source-generation scenario is able to be constructed.

In 2011 / 2012 the Institute of Geological and Nuclear Sciences Limited (GNS Science) undertook tsunami modelling and reported on the potential tsunami inundation risk for coastal areas within Tauranga City.

As part of the tsunami modelling GNS Science took into account the knowledge gained from the unexpected large earthquake and tsunami event in Japan in 2011 when determining the largest tsunami event that Tauranga could potentially experience.

In particular it considered the effect of the Kermadec Trench, located north-east of New Zealand. The Kermadec Trench is located on a subduction zone, a similar environment to where the event in Japan took place.

GNS Science modelled the potential levels of inundation that would result from a similar event to the Japan 2011 earthquake (magnitude Mw 9.0) occurring at different locations along the Kermadec Trench. While it is possible that such large earthquakes do not occur in the Kermadec Trench, the possibility cannot be ruled out at present. The average interval between earthquakes that cause such large tsunamis in Tauranga is also uncertain and it is likely to be more than 2500 years, although such an event could potentially occur at any time.

Following receipt of the tsunami modelling report from GNS Science, Council commissioned Tonkin & Taylor Ltd (T&T) to produce inundation maps using the latest LiDAR survey data and tsunami wave information from GNS.

The T&T inundation maps show that this property is within a coastal area that would potentially be inundated if the Kermadec Trench experienced a large earthquake (magnitude Mw 9.0), causing an extreme tsunami event.

The maps identify properties that would potentially be affected if a magnitude Mw 9.0 earthquake event occurred in 2015, and also further properties that would be affected if the event occurred when urbanisation of Wairakei is complete. Information relating to the work undertaken by GNS Science and the relevant maps prepared by Tonkin and Taylor Ltd are available on Council's website (www.tauranga.govt.nz keyword search "tsunami").

In April 2015 Council commissioned NIWA to review the tsunami inundation and evacuation modelling undertaken to date to provide independent feedback that the work undertaken by GNS Science and Tonkin and Taylor Ltd is able to be relied upon by the public for its information, education and safety. NIWA confirmed the work is able to be relied upon by the public.

The reports by compiled by NIWA (2004), GNS Science (2011, 2012) and Tonkin and Taylor Ltd (2013, 2015) referenced above are available online or at Council's Willow Street customer service centre on request.