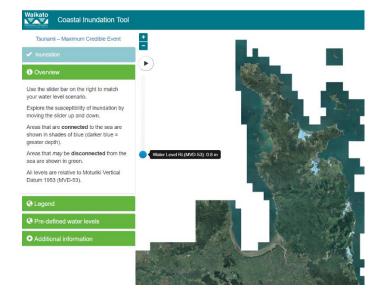
How to Use Regional Council's Inundation Tool

What is the Coastal Inundation Tool?

The Regional Council has provided a very useful online sea-flooding / inundation tool which can be found at http://coastalinundation.waikatoregion.govt.nz/. The purpose of this tool is to see what low lying coastal areas in Thames -Coromandel may be subject to inundation (sea flooding) from tides, storms and projected sea level rise. The tool only shows 'static' water levels. It does not include the effects of currents or waves which may add to the flood risk.

Step 1 Go to Website

http://coastalinundation.waikatoregion.govt.nz/



Step 2 Zoom in to Area of Interest

Zoom in by choosing a region from the top right corner – eg. Firth of Thames, East coast or West coast. Or double click the map or use the + or – buttons.

Step 3 Choose Water level

Click on the "Pre-defined water levels" button. Then choose the region and sub region you are interested in. eg. Firth of Thames / Thames Tararu. Tidal and storm tide levels vary between regions/towns so it is important to select the area you are interested in. A pop up a table like this will appear -

Thames/	Tararu			
Location				Thames (Tararu)
		MHWS (m)		1.79
Present Day		Max Tide (m)		2.11
		Storm Tide Range (Estimate)	Lower (m)	2.20
			Upper (m)	3.22
Future Projected	0.5 m projected Sea Level Rise	MHWS (m)		2.29
		Max Tide (m)		2.61
		Storm Tide Range (Estimate)	Lower (m)	2.70
			Upper (m)	3.72
	1.0 m projected Sea Level Rise	MHWS (m)		2.79
		Max Tide (m)		3.11
		Storm Tide Range (Estimate)	Lower (m)	3.20
			Hanna (m)	4.22

Step 4 Choose a Scenario from the Table.

In the Pre-defined Table you are presented with 3 scenarios – Present Day, Future Projected 0.5m of sea level rise, and 1.0m of sea level rise.

Within each scenario you can then choose Mean High Water Springs (MHWS), Maximum Tide ("King Tide"), or a Low or High Storm Tide. A Storm Tide or Storm Surge: may occur when a low-pressure system causes the tide/water to rise and onshore winds 'push' water from deep water towards the coastline. eg. for a "Low" Storm Tide and 0.5m of sea level rise for Thames choose 2.70m.

Storm Tide Frequency

The Parliamentary Commissioner for the Environment has reported that extreme "1-in-100-year" storm tides will occur every 6-12 months with just 0.5m of sea level rise and daily with 1m of sea level rise



Step 5 Move the Slider to Chosen Water Level

Move the slider to the nearest match of your chosen water level and explore.

More Information - FAQ

https://www.waikatoregion.govt.nz/assets/PageFiles/41257/3700622-Coastal Inundation Tool Guidance.pdf