

Minutes:

**Takutai Kāpiti: Our community-led coastal adaptation project - Coastal Science and Engineering Services
Coastal Hazard and Risk Assessment Data Meeting**

Date: Wednesday 4 November 2020

Time: 12.45 – 1-45pm.

Location: Online via Microsoft Teams

Attendees: Lyndsey Craig (KCDC Coastal Manager), Miriam Randall (KCDC Coastal Advisor), Liana Cook-Auckram (KCDC Coastal Advisor), Keith Miller (KCDC GIS intelligence Manager), Serge Peeters (KCDC GIS Consultant), Iain Dawe (GWRC Senior Policy Advisor, Hazards and Coasts), Derek Todd (Jacobs Technical Team Leader), Anthony Kubale (Jacobs Project Manager), Damian Debski (Jacobs Flood Risk Technical Advisor), Kate MacDonald (Jacobs Coastal Scientist).

Data Type required by Jacobs	Priority	Consequence of not acquiring data	Status	Questions for KCDC in meeting	Resolution/Notes/Actions
LiDAR	Need	NA	Received		
Most Recent Aerial Imagery	Need	NA	Received		
Georeferenced Imagery	Need	Time + cost for Jacobs to source and georeferenced the imagery	1948, 1998 and 2000's imagery provided by KCDC. We will still need imagery between 1948-1998 (every 10 years).	Do KCDC want us to georeferenced it or their GIS team to do it? Will be extra time + cost	KCDC don't have any other imagery. Jacobs to proceed with accessing and geo referencing the imagery

Data Type required by Jacobs	Priority	Consequence of not acquiring data	Status	Questions for KCDC in meeting	Resolution/Notes/Actions
Flood model and results and river cross sections River Cross Sections	Need	Have to make a series of assumptions about the fluvial inputs.	Jacobs need to confirm data is right Jacobs to check appendix 3-6 and see if that data it is what we need. Jacobs to download and see if it is the data we need https://gwrc.maps.arcgis.com/apps/webappviewer/index.html?id=06c8d6c3b3be49d4a4d55a8d4f973ea3	Is it possible to download the river cross-section data from there?	Jacobs will liaise with GWRC to get data.
Bathymetry	Nice to have – higher priority	Can use hydro charts. This is not as accurate and has many assumptions tied to it (e.g. they were made in the 1960's).	Not received – Need to get from NIWA	Are KCDC or Jacobs contacting NIWA for this information? Discuss the use of bathymetric charts – can use these but not as accurate.	KCDC don't have direct contacts at NIWA. There is potential that we will have to pay for this data. Jacobs to contact NIWA. If we need to pay for this data, Jacobs to get a quote from NIWA and send to KCDC to see if they would like to get the data.

Data Type required by Jacobs	Priority	Consequence of not acquiring data	Status	Questions for KCDC in meeting	Resolution/Notes/Actions
Records from any tidal water level gauges	Nice to have	Assume that the NIWA storm surge reports are done properly and accept the data.	Not received – Need to get from NIWA	Are KCDC or Jacobs contacting NIWA for this information?	<p>Storm surge reports recently done are fit for purpose – updated ones on the northern coast are good.</p> <p>Alternative if we can't get this data – We make the assumption that what has been done is robust. Jacobs to ask NIWA about this data</p> <p>If we need to pay for this data, Jacobs to get a quote from NIWA and send to KCDC to see if they would like to get the data.</p>

Data Type required by Jacobs	Priority	Consequence of not acquiring data	Status	Questions for KCDC in meeting	Resolution/Notes/Actions
GIS data of the NIWA inundation modelling results (2012 & 2019)	Nice to have	We don't compare their results to ours.	Not received – Jacobs have asked GWRC for this.		Data would be helpful to inspect in parallel with report. GWRC has this data. Jacobs to send GWRC the Ftp site. GWRC will upload Raster files into DropBox.
Details of any formal flood defences	Need	Can't add Defence structures (e.g. stopbanks) into the inundation model. Assume banks down approach or make assumptions about structures.	Not received - GWRC has put a request into the flood protection team for this info. Jacobs have reached out to GWRC.		Cross sections provided should cover the stopbanks. Jacobs to let GWRC know if data is sufficient and go from there.
Digital data from previous coastal erosion assessments	Nice to have	Jacobs have to redigitise the historical shorelines – extra time + cost.	Not received - KCDC have provided predicted shorelines, Jacobs still waiting for historical shorelines.	Discuss implications of not getting these lines – significantly more time and cost.	Jacobs to digitise shorelines and geo reference imagery – Extra time + Cost

Data Type required by Jacobs	Priority	Consequence of not acquiring data	Status	Questions for KCDC in meeting	Resolution/Notes/Actions
KCDC Beach profile surveying/ monitoring data	Need	Can get morphology from lidar – less accurate.	Received – raw data for 2008-2018 profiles.	Is it possible to get Lumsden’s survey data? These likely go over a larger time period.	KCDC to provide additional data on beach profile surveys.
Any wave data relevant for the Kapiti Coast	Nice to have	Assume that work done by MetOcean and NIWA is correct. Use their setup/runup numbers for our work.	Not received	Are KCDC or Jacobs contacting NIWA for this information?	MetOcean work done – GWRC not involved in any wave modelling work. GWRC may have had some involvement in the John Lumsden work. Alternatively - If we make the assumption that NIWA setup is correct and use that. Jacobs to contact NIWA for any data and include this in the request to NIWA.
InfraRed imagery	Do not need	NA	We don’t think we will need this anymore.		

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Council Asset Data	Need	We have to make assumptions around where these are.	Received – KCDC sent link to open data of water supply, stormwater, wastewater and building outlines. We will contact KCDC if we have any trouble pulling the data off this link.		What has been provided is sufficient. We will have a conversation with KCDC later in the project to discuss other assets to include in the risk assessment.

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<p>Any digital information on coastal seawall positions, elevations and drain inverts.</p>	<p>Need</p>	<p>We have to make assumptions around where these are and other information associated with the structures.</p>	<p>Received</p>	<p>The photohyperlinks dont work in the excel files sent through – is there any online database for the images or a quick way for us to view them? Might not be necessary to send all the photos but they would be really useful.</p> <p>Potential for this to be loaded on a harddrive and we pick up at inception meeting?</p>	<p>KCDC/ GWRC to document changes in the seawalls since last database was done – We could potentially record this during the site visit.</p> <p>KCDC to add photo database of structures online for Jacobs to access – this is not urgent.</p>

Data Type required by Jacobs	Priority	Consequence of not acquiring data	Status	Questions for KCDC in meeting	Resolution/Notes/Actions
Any records or database of coastal storm events to provide storm wave inputs into short term storm erosion models	Nice to have	We have to make assumptions around effects of storms.		Do they have a database which has records of large storm events and metocean conditions? And resulting beach runup and structure damage.	GWRC is going to send through storm surge modelling work which used 3-4 different storm events.
Any local historical images of the coastline	Nice to have	Less local context.	Jacobs to liaise with KCDC staff.	Potential for this to be loaded on a harddrive and we pick up at inception meeting?	<p>KCDC have 1976 and 2003 have photos after 2 storms – oblique aerials – KCDC to give Jacobs this data at the inception meeting.</p> <p>GWRC – to send through storm event photos/ give them to Jacobs at Inception meeting.</p> <p>KCDC may have local pictures from residents coming through over the next few months, they will give Jacobs access when it is available.</p>