

## Hamilton 0.05m Urban Aerial Photos (2020-2021)

Title	Hamilton 0.05m Urban Aerial Photos (2020-2021)
Creator	Toitū Te Whenua Land Information New Zealand
Date	2021
Description	<p>Orthophotography of Hamilton City captured in the flying season of 2020-2021. Coverage encompasses urban areas within the Hamilton City District. Imagery was captured for Hamilton City Council by AAM NZ Ltd, 6 Ossian St, Napier, New Zealand. Data comprises:</p> <ul style="list-style-type: none"><li>• 1470 ortho-rectified RGB GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:1000 tile layout</li><li>• Tile layout in NZTM projection containing relevant information. The supplied imagery is in terms of New Zealand Transverse Mercator (NZTM) map projection. Please refer to the tile index layer for specific details, naming conventions, etc. Imagery supplied as 5cm pixel resolution (0.05m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is <math>\pm 0.15</math> at 90% confidence level in clear flat areas. Index tiles for this dataset are available as layer [Hamilton 0.05m Urban Aerial Photos Index Tiles (2020-2021)](<a href="http://data.linz.govt.nz/layer/110134">http://data.linz.govt.nz/layer/110134</a>)</li></ul>
Source	<p>PROJECT DESIGN ACCURACY Project specifications and technical processes were designed to achieve data accuracies as follows: *Orthophotos* Measured Point +/- 0.15m Basis of Estimation: Project design *Control* Measured Point +/- 0.15m Basis of Estimation: Survey methodology used NOTES ON EXPECTED ACCURACY Values shown are at 90% confidence interval. LIMITATIONS OF DATA Field/survey validation has not been undertaken DATA VALIDATION Imagery in the volume has been compared to control points obtained by field survey that were also used in the aero-triangulation process. The points were distributed across the area. Comparison of the field points with positions measured on the imagery result in: No. of sites: 6 RMS X (m) 0.04 RMS y (m) 0.03 XY RMS (m) 0.05 90% Accuracy (m) 0.08 Required Accuracy (m) 0.15 SOURCE DATA Item, Source, Description, Ref No, Date Sensor, AAM, A3, PRJ37987, 28/12/2020 - 30/01/2021 GPS Base Data, GeoNET, CORS, PRJ37987, 28/12/2020 - 30/01/2021 Base Stn Coords, LINZ, Static RTK, PRJ37987, 28/12/2020 - 30/01/2021 Field Survey, WSP, RTK GPS, PRJ37987, 16/02/2021 DATA CHARACTERISTICS Device Name: A3 Resolution: 5 cm Type: 8-bit RGB File Format: GeoTIFF Map Projection: NZTM Spatial Accuracy Specification: 0.15m Capture Constraints: &gt;40 degrees sun angle REFERENCE SYSTEMS Horizontal: NZGD2000 Datum, NZTM Projection Vertical: NZVD2016/Moturiki 1953, Geoid Model: NZ Geoid 2016</p>
Coverage	-37.906896640476084 175.12729091470774 -37.63693051746194 175.39576472890116
Identifier	<a href="https://data.linz.govt.nz/layer/110193-hamilton-005m-urban-aerial-photos-2020-2021/">https://data.linz.govt.nz/layer/110193-hamilton-005m-urban-aerial-photos-2020-2021/</a>
Type	grid
Language	eng
Subject	imageryBaseMapsEarthCover