FLOOD INFORMATION SERVICE
EXPLANATORY NOTES

Part 2

- Searching for a property by address
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- Limitations of the data
Example 1 – 41 Gulliver Street, Mundingburra (Anderson Gardens)

Part 1 – Search for a property by address

The result should be the page shown in Figure 2.1 below.

Figure 2.1 – Default flood map for 41 Gulliver Street
Some points to note:

- The property is within the extent of a flood study (indicated by light grey hatching)
- The property is affected by the 1% AEP flood to a depth of up to 2 m (dark blue, light blue, green and yellow shading)
- The name of the flood study is Ross Creek (pink text in the middle left of the screen)
- Most of this property is quite flat and has few flood height contours (red squiggles) which are quite spread out, however there are some steeper sections (upper left hand corner and in the bottom right corner) where the flood contour lines are closely spaced.

**In order to see the labels on the flood height contours** it is necessary to zoom in further to 1:2500, or closer, see Figure 2.2 below.

**Figure 2.2:** 43 Gulliver Street at 1:2,500 scale

Across this property, the flood height ranges from approximately 5.0 – 6.3 m AHD (black writing with white background on red squiggly lines).

For more detailed flood height information please see Part 2 of this example.
Part 2 – Finding detailed flood heights

Step 1 - Ensure the box in front of the flood height layer is ticked as shown in Figure 2.3. We are using the 1% AEP Height as this is the Defined Flood Event in the Townsville planning scheme.

Figure 2.3: Legend showing the available flood map layers
Step 2 - Click on the information button see Figure 2.4

![Selection window](Image)

Click here first

Click here second

Step 3 - Click on the flooded area of interest within the property, see Figure 2.5.

Step 4 - Wait 10 – 20 seconds as it takes time for the software to process the request. The flood model combines grids with the same value so when you click on a flooded area, an irregular area will be selected in aqua see Figure 2.6.

![Map showing flood extent](Image)

Figure 2.5
Step 5 - Click on the folder which has the information you are interested in, here RossCreek_1%AEP_H, see Figure 2.6.

Step 6 – Detailed flood information for the area selected (irregular area outlined in aqua) only

If the property has a range of flood heights, repeat the process to find the maximum modelled flood height for the 1% AEP flood for your area of interest.
Step 7 – Interpreting flood height information

To determine the magnitude of flooding in your property, the flood heights should be compared to the topographical height (or ground level) of your property. Please see Explanatory Notes Part I for a diagram.

OBTAINING TOPOGRAPHICAL DATA

Topographical data can be obtained in two ways:

1. For a 250 mm interval contour map of the property, please contact council's Customer Service Centre on 1300 878 001 or email enquiries@townsville.qld.gov.au.
   
   The cost of this map was $12.50 in December 2014.

2. Alternatively, for more precise information, you may wish to engage the services of a qualified surveyor to establish the ground levels of your property and the habitable floor level of your dwelling.

LIMITATIONS OF THE DATA

If, after the topographical data for the flood study was collected, substantial changes were made to the topography of your property of interest, the flood information may not be accurate. One way to check this is to compare the modelled flood heights with the topography of the property.

Example 2: Lot 13 on T11869 (Cutheringa Park, West End)

Part 1 – Search for a property by Lot on Plan number

Click here
The result should be similar to Figure 2.8.

Figure 2.8 – Excerpt of the default map for Lot 13 on T11869
Some points to note:

- The property is in the area of a flood study (indicated by light grey hatching)
- The name of the flood study is Ross Creek (pink text in the middle left of the screen)
- The property is at the edge of the Ross Creek flood study. Captains Creek is the adjacent flood study.
- The property is affected by the 1% AEP flood
- This property is quite steep and has many flood height contours (red squiggles)
- The flood height ranges from approximately 5.7 – 10.0 m AHD (black writing with white background on red squiggly lines)
- The flood heights for a steep property such as this one change significantly over a short distance. This is generally due to runoff having followed the steep grade of the topography within the model. For properties with steep slopes, interrogation of flood depth can be a more appropriate means of understanding the inundation within the property. This scenario is explored in more detail in the below example.

**Part 2 – Finding the flood depth – how severely is this property flood affected?**

**Step 1** - Click on the information button (see Figure 2.9)

**Step 2** - Click on an area of flooding (see Figure 2.9). The flood model combines grids with the same value so when you click on a flooded area, an irregular area will be selected in aqua.

![Figure 2.9](image-url)
Step 3 - Wait 10 – 20 seconds as it takes time for the software to process the request.

Step 4 - Click on the folder which has the information you are interested in, here RossCreek_1%AEP_D, see Figure 2.10.

![Figure 2.10](image)

Step 5 - Detailed flood information for the area selected (irregular area outlined in aqua) only.

![Figure 2.11](image)

If the property has a range of flood depths, repeat the process to find the maximum depth.
Step 8 – Interpreting flood information

The flood heights for a steep property can change significantly over a short distance. In these instances, it may be more suitable to assess the inundation at a specific location of interest on the property by reviewing the flood depth.

In this example, in the area selected in Figure 2.12 below, the flood height ranges from 7.0 – 8.0 metres whereas the flood depth is fairly consistent at 80 – 90 mm.

LIMITATIONS OF THE DATA

If, after the topographical data for the flood study was collected, substantial changes were made to the topography of your property of interest, the modelled flood information may not be accurate.

One way to check this is to compare the modelled flood heights with the topography of the property.

This topographical data can be obtained in two ways:

1. For a 250 mm interval contour map of the property, please contact council's Customer Service Centre on 1300 878 001 or email enquiries@townsville.qld.gov.au

   The cost of this map was $12.50 in December 2014.

2. Alternatively, for more precise information, you may wish to engage the services of a qualified surveyor to establish the ground levels of your property and the habitable floor level of your dwelling.