Prepared For

horizons REGIONAL COUNCIL

Prepared By

wsp

NIWA Taihoro Nukurangi

Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 5% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

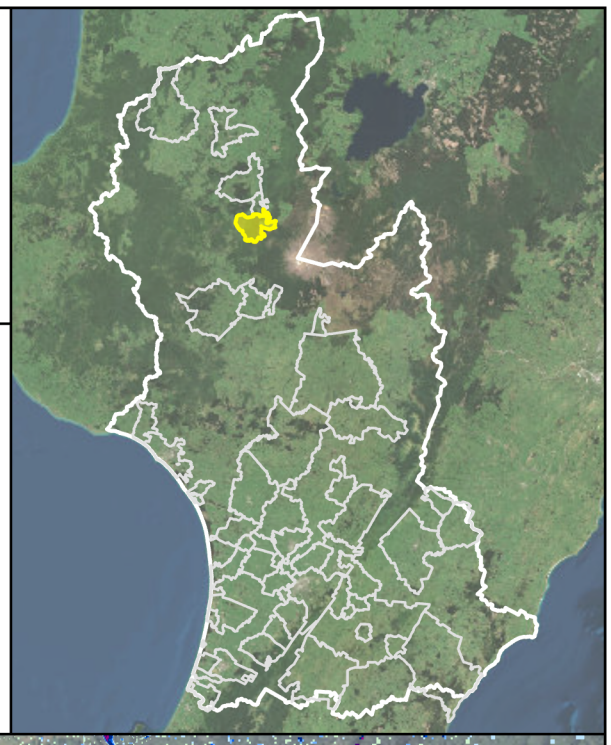
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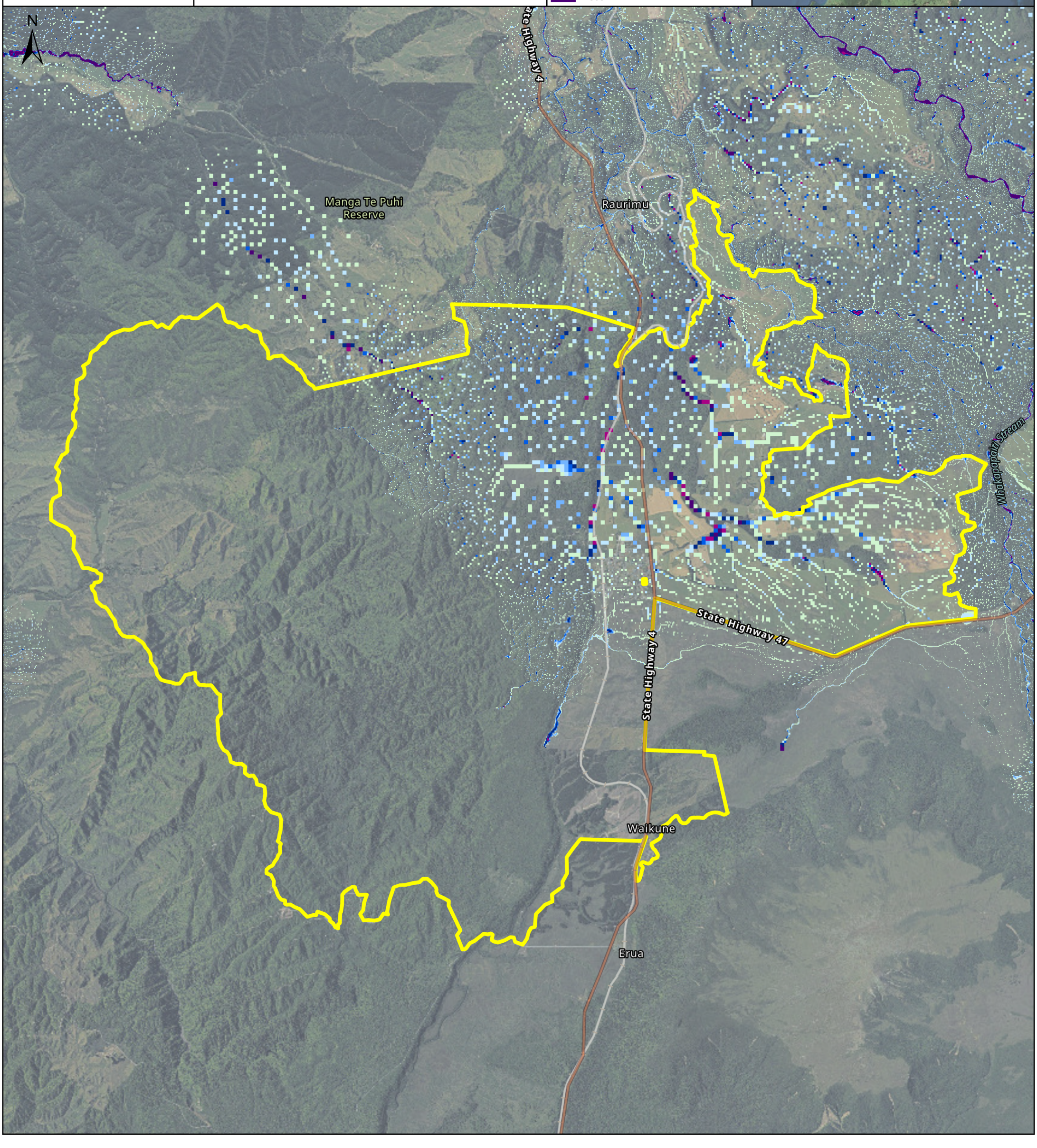
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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NIWA Taihoro Nukurangi

Prepared On

01/07/2025

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Flood scenario: 2% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

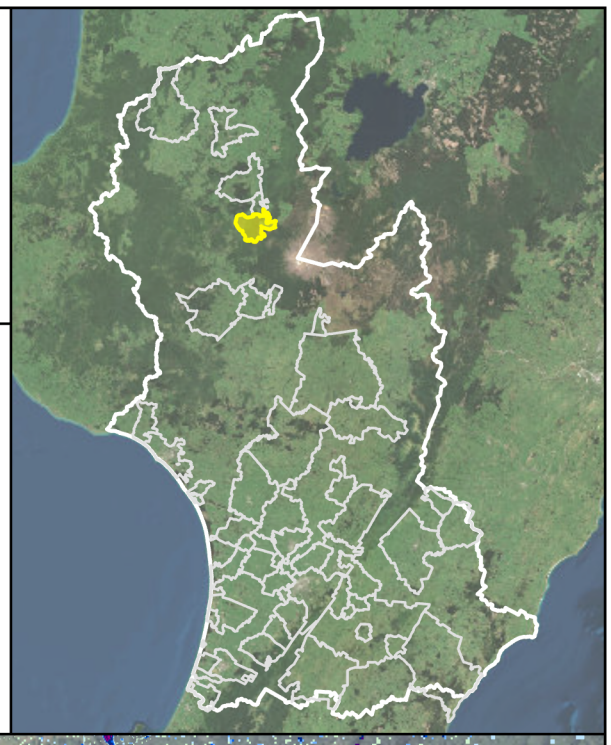
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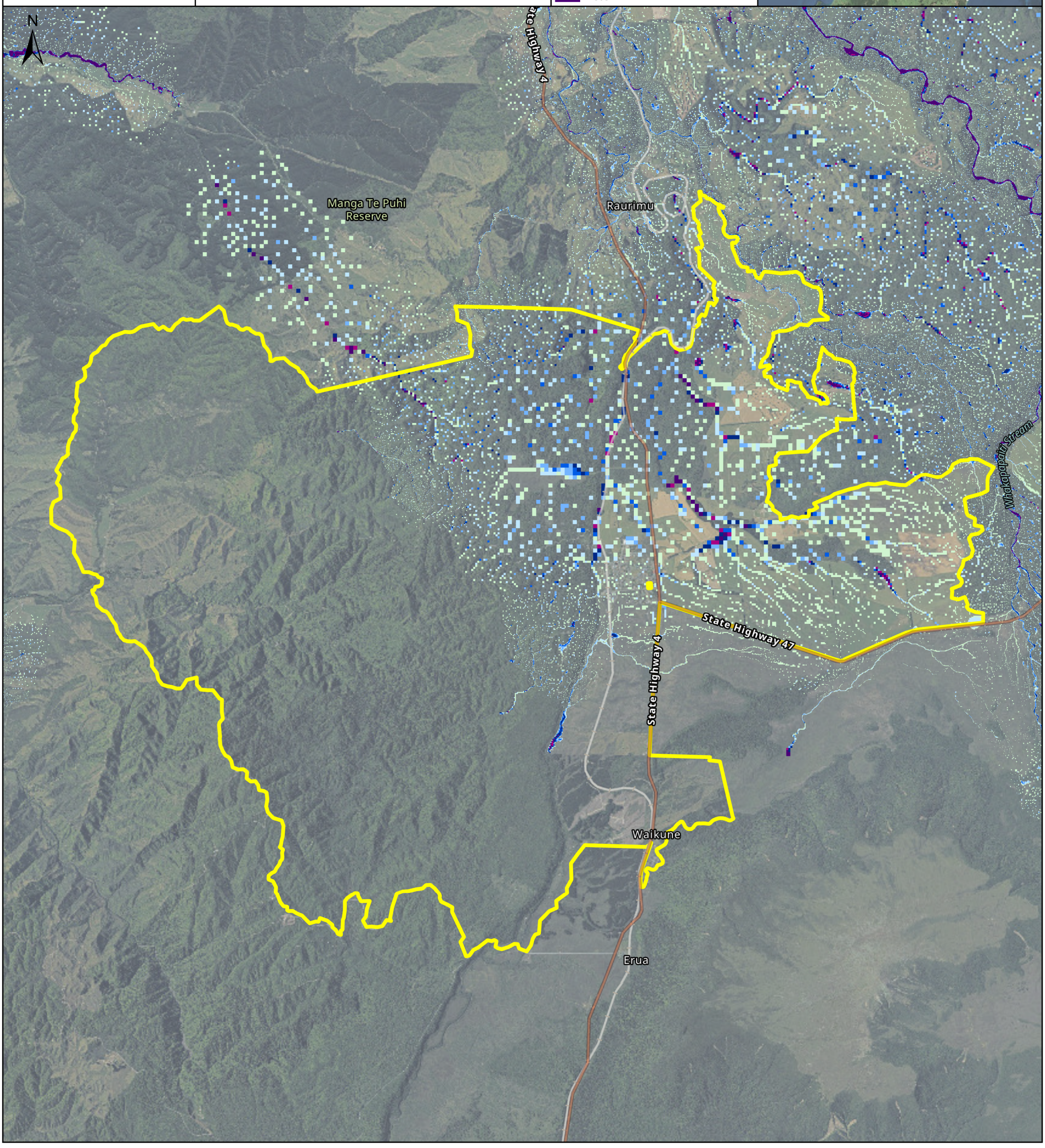
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Flood scenario: 1% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

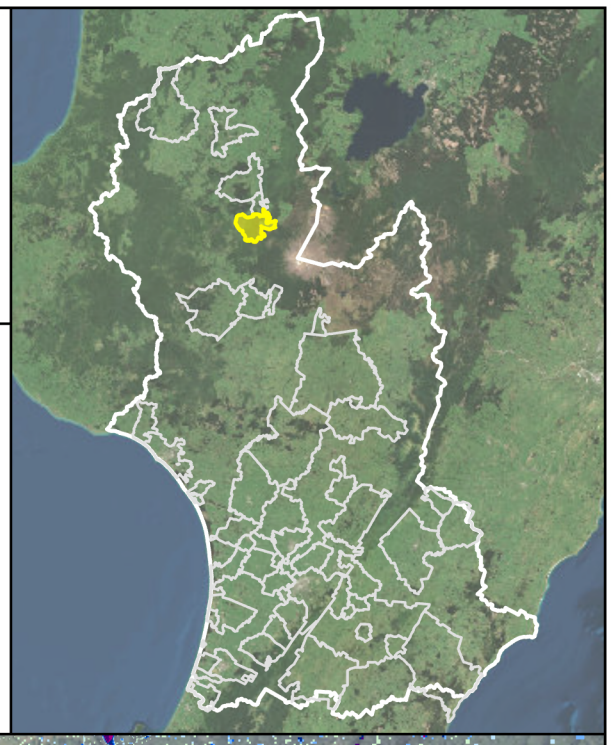
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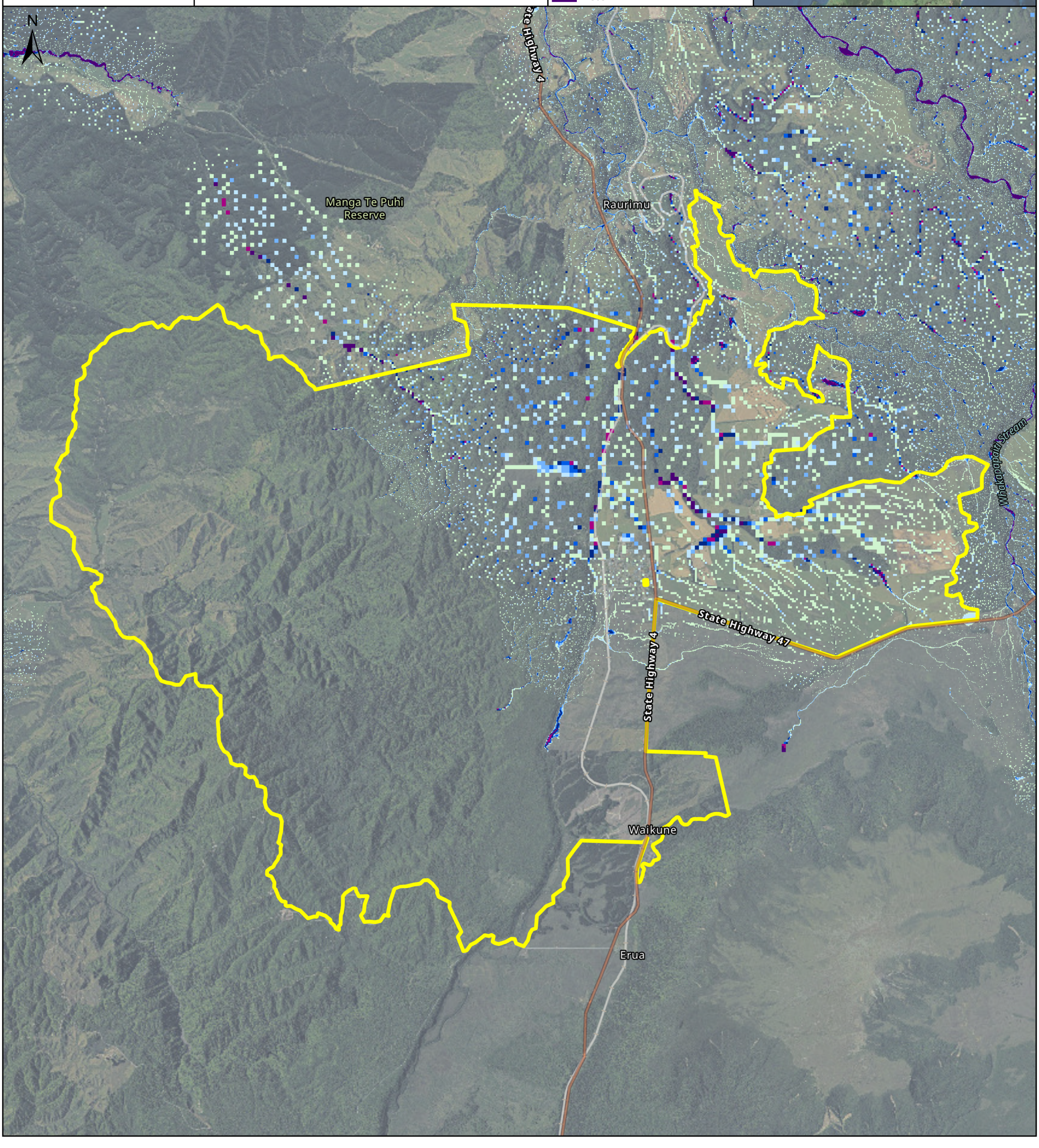
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Flood scenario: 0.5% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

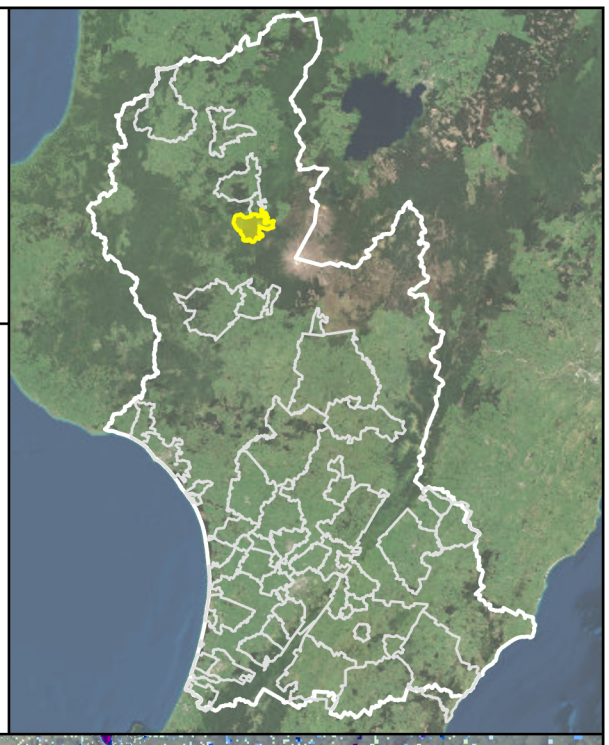
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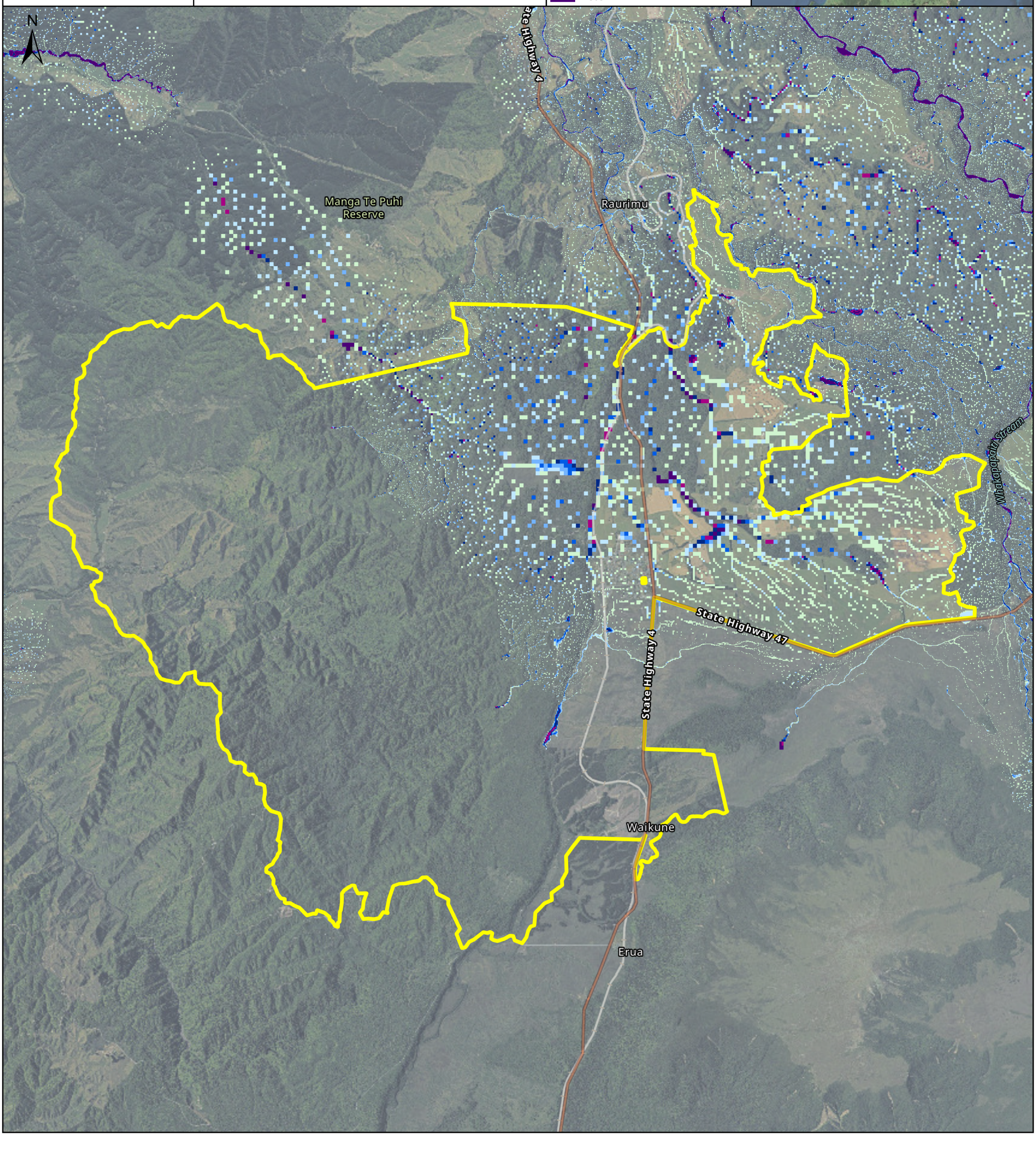
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

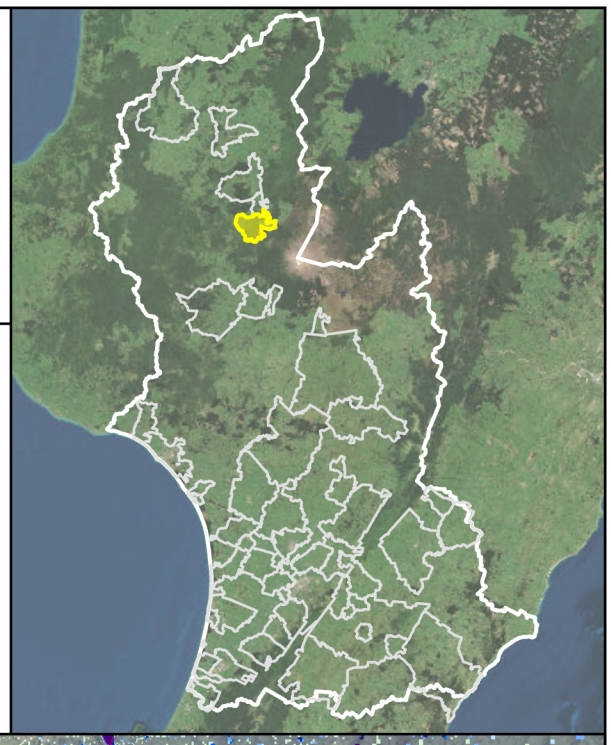
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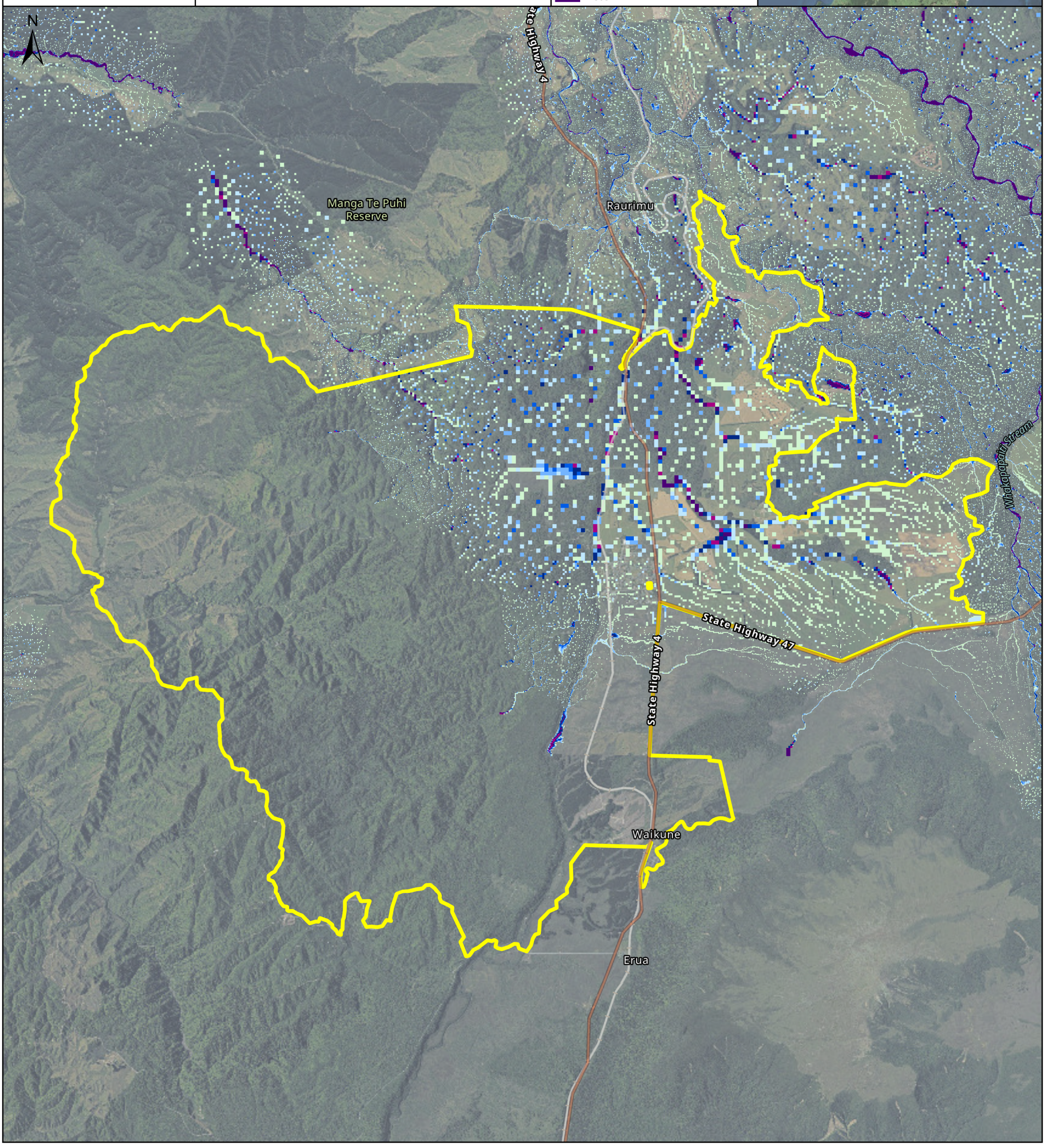
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
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- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
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Flood scenario: 0.5% annual exceedance probability, flood defences up, 2 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

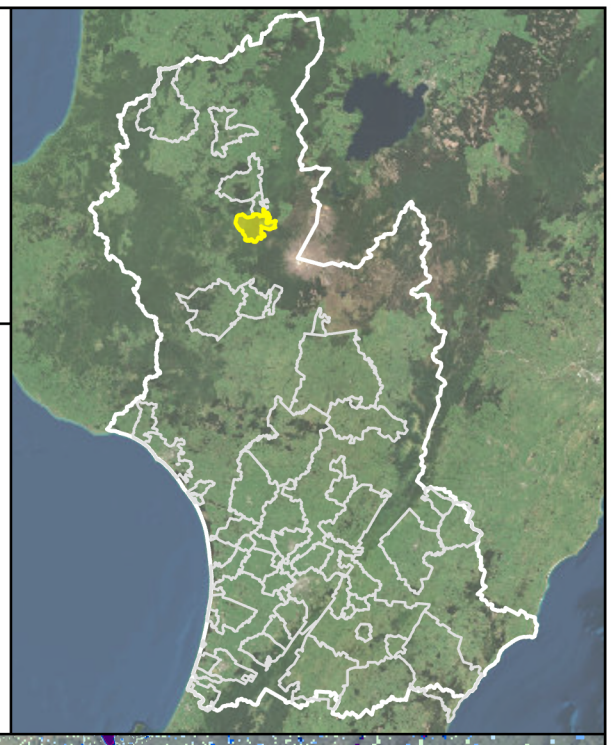
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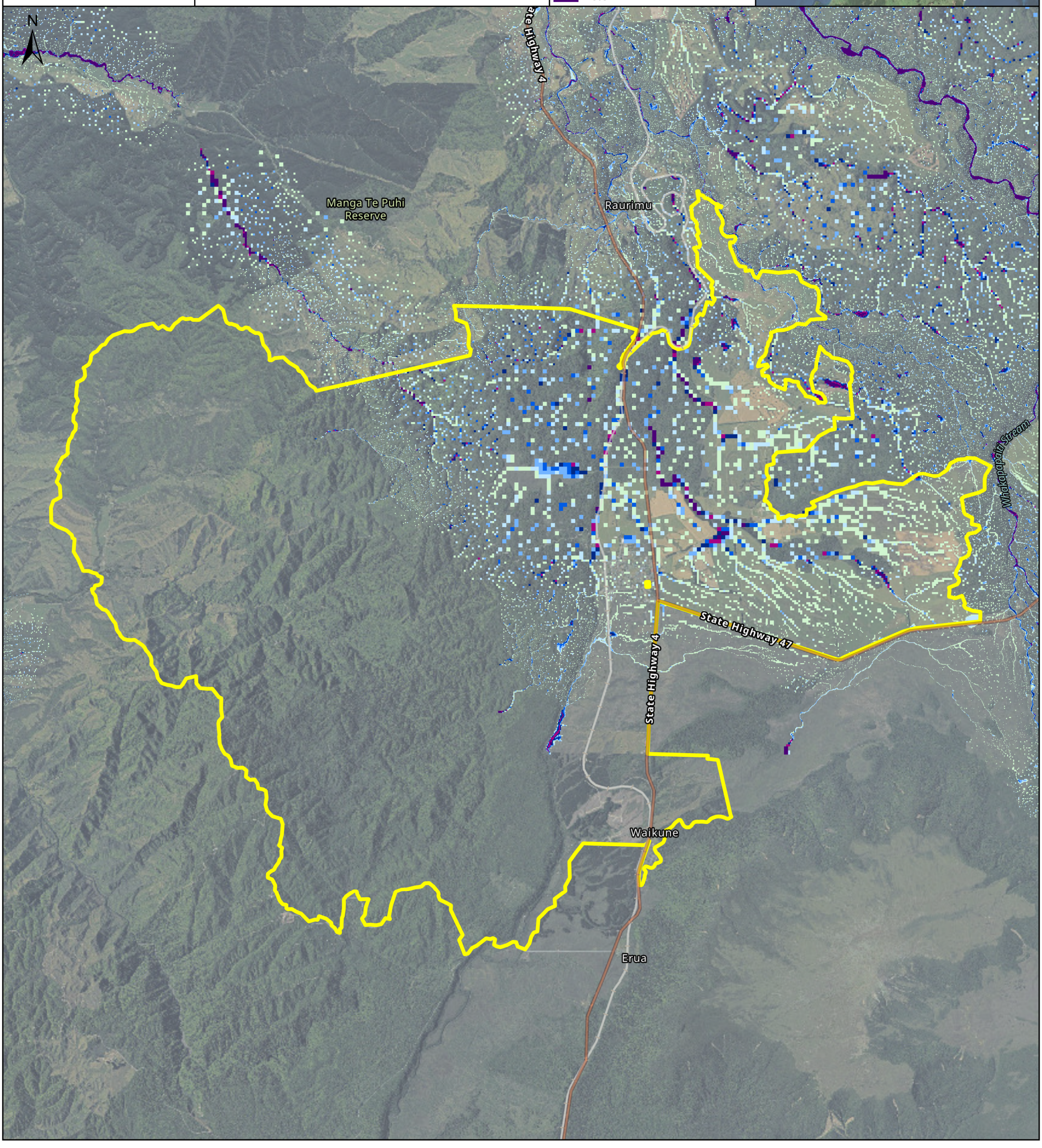
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
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- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
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Flood scenario: 0.5% annual exceedance probability, flood defences up, 3 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

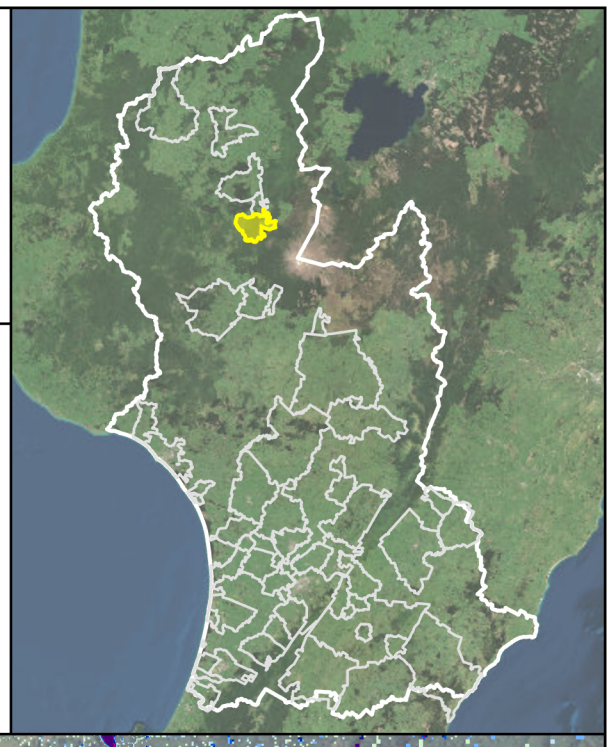
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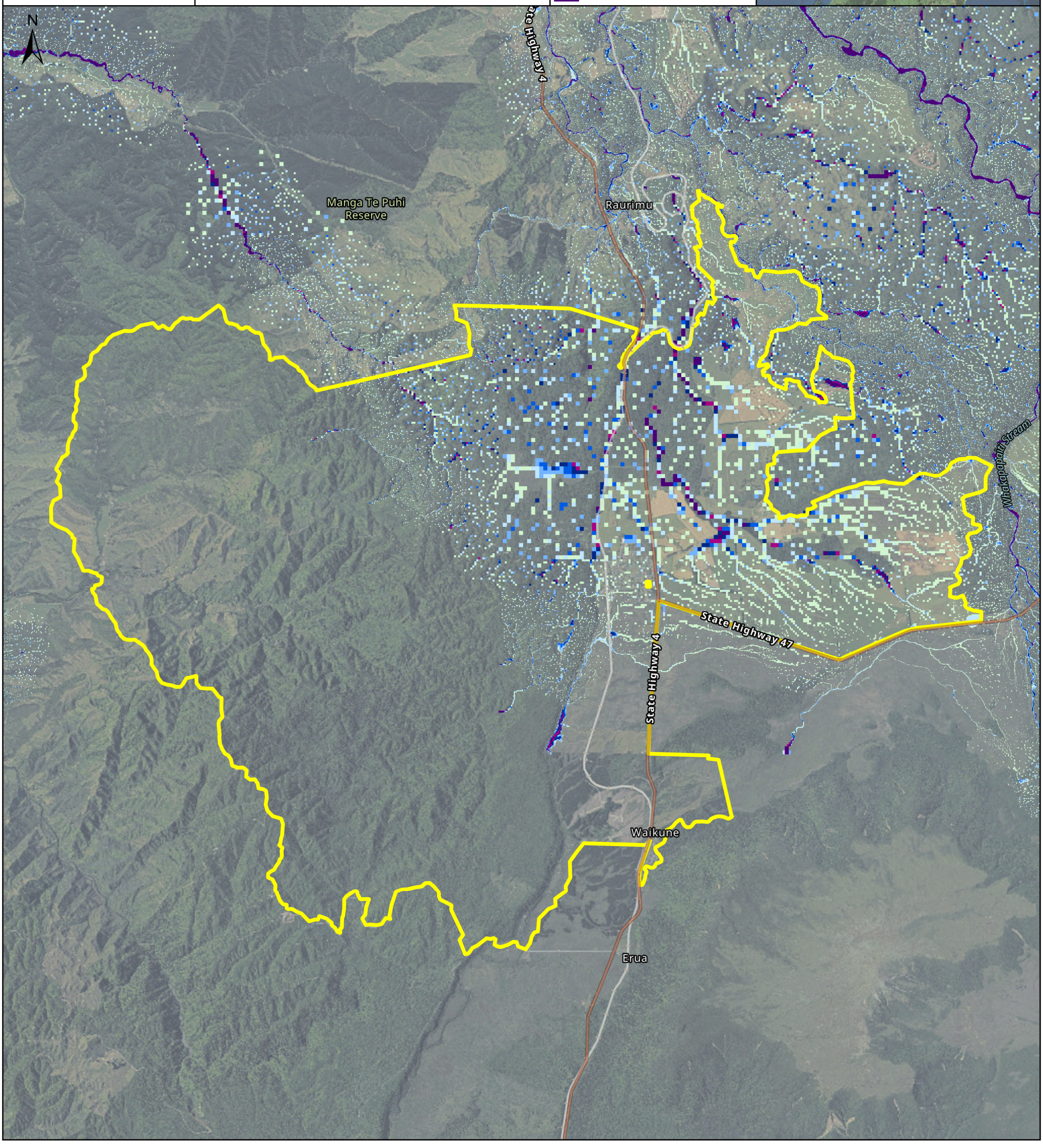
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Flood scenario: 0.2% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

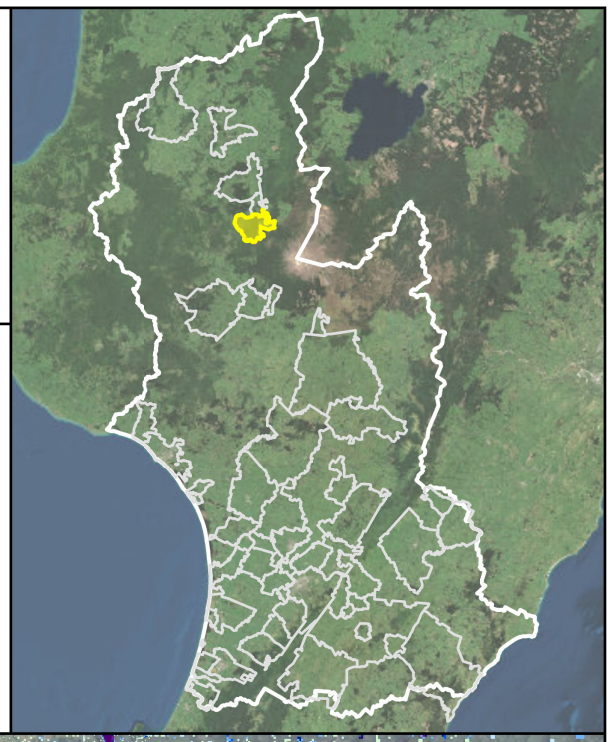
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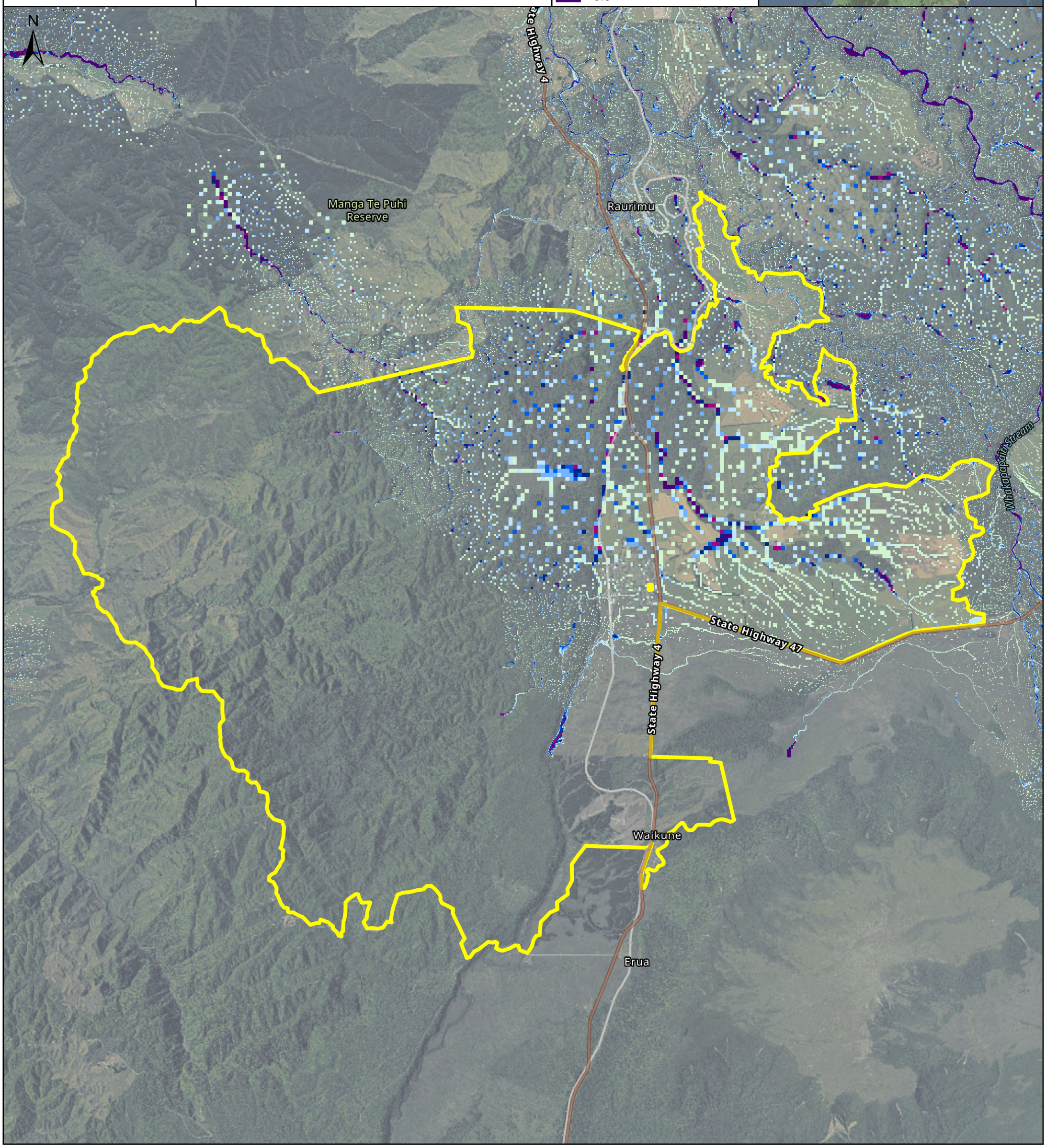
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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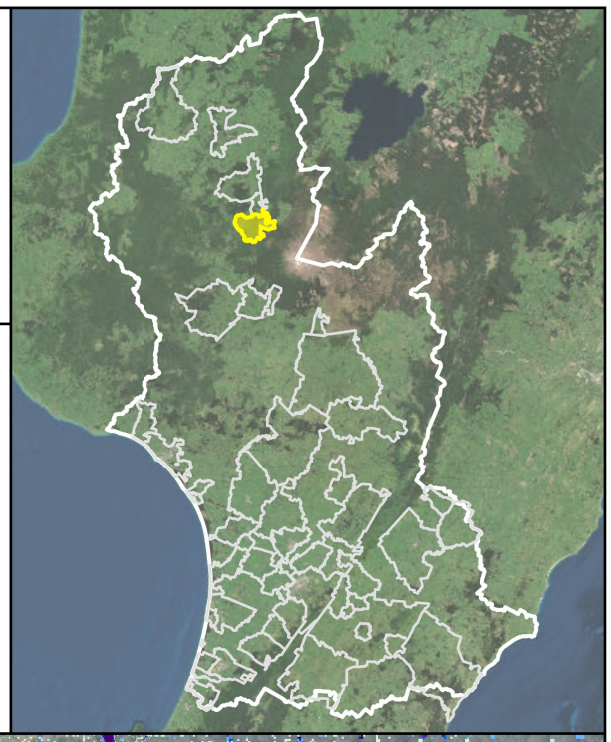
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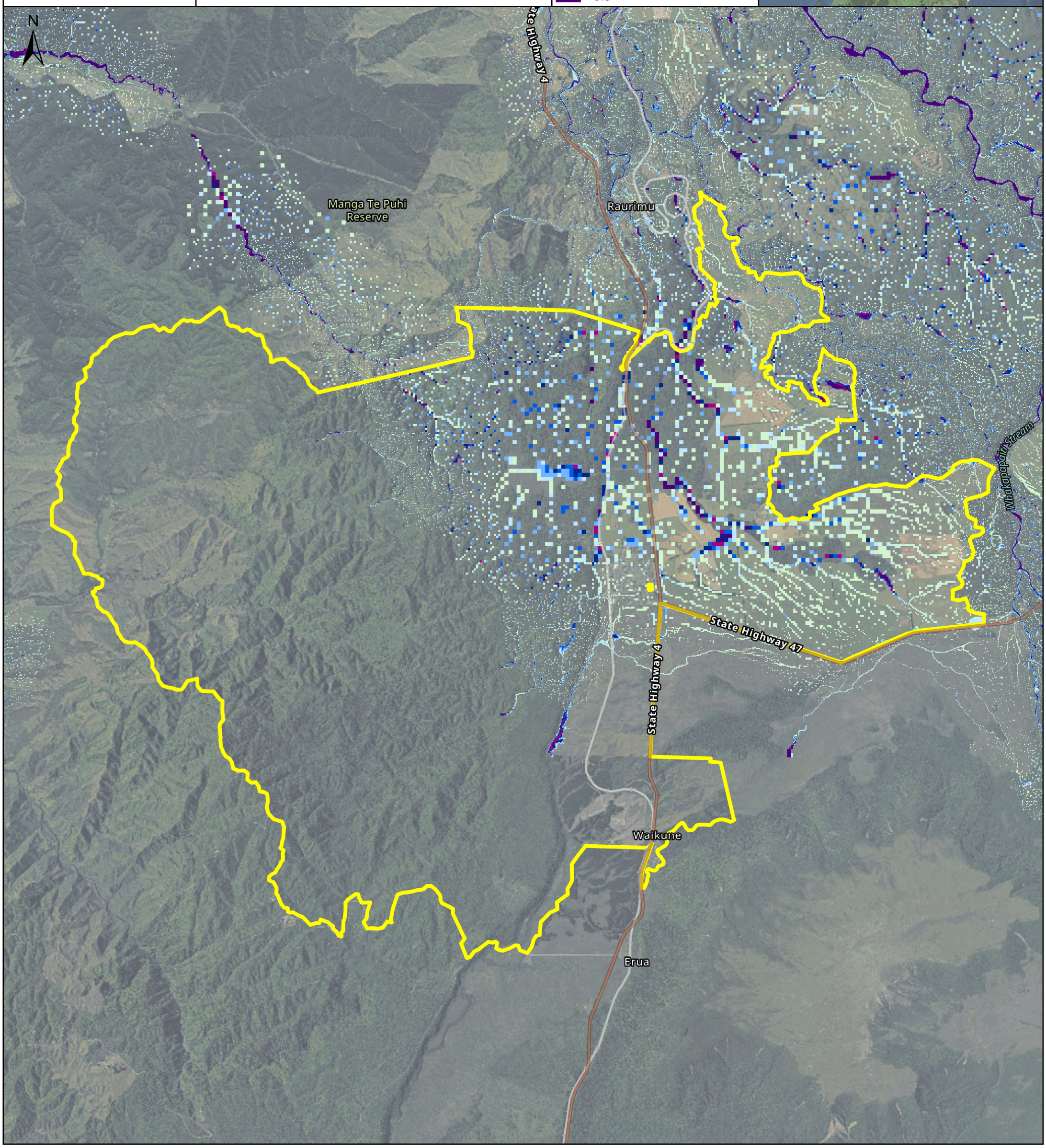
Legend

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Community
National Park,
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Scale 1:57,000 at A3

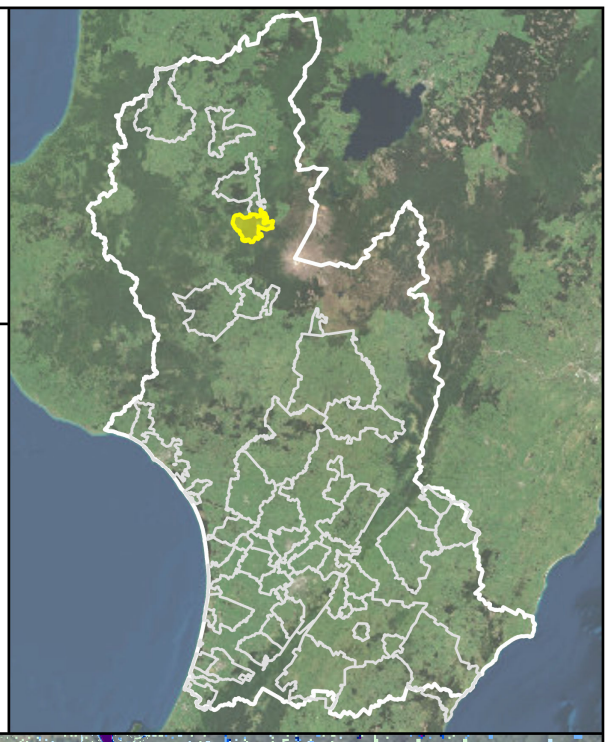
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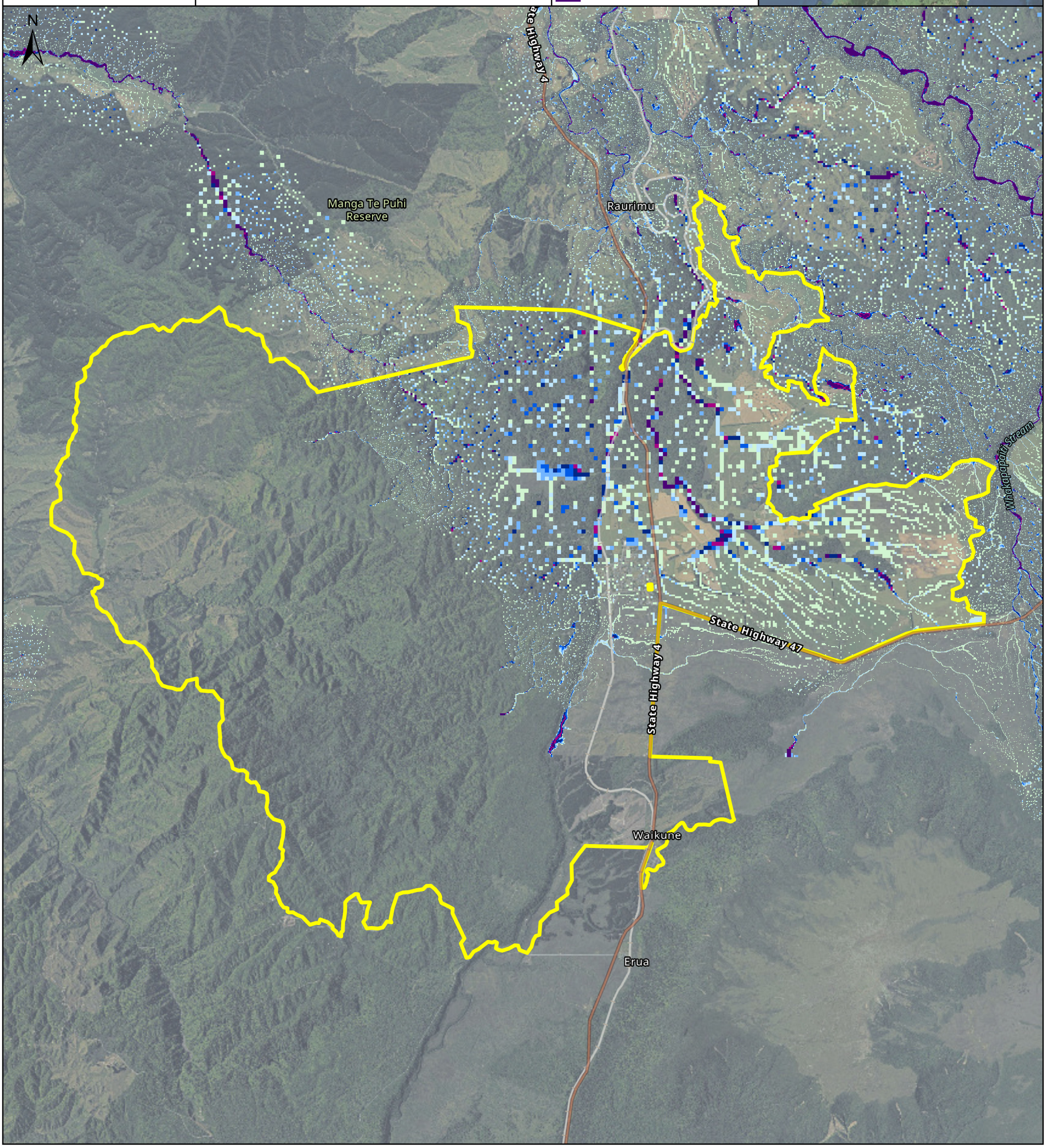
Legend

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Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
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- 1.5 - 2.5
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Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

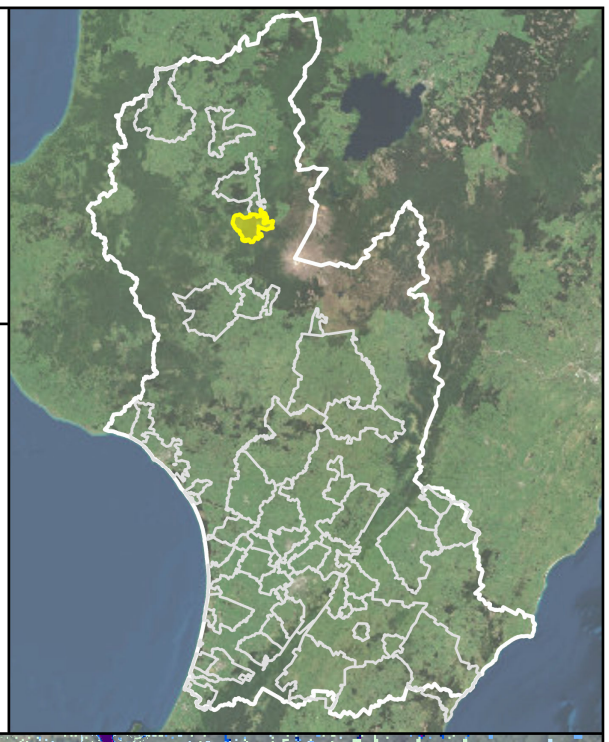
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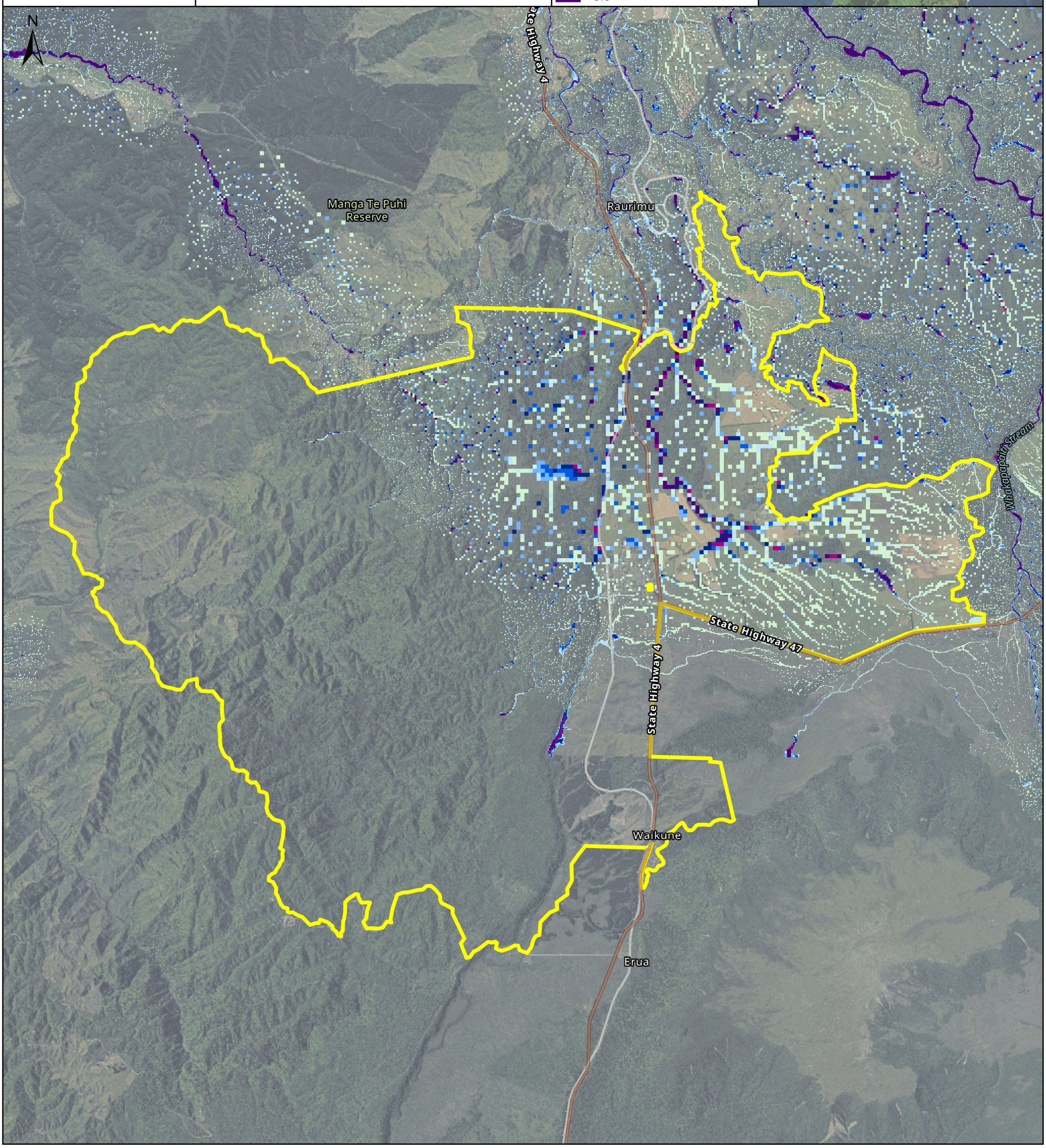
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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05/08/2025

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Flood scenario: 0.1% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

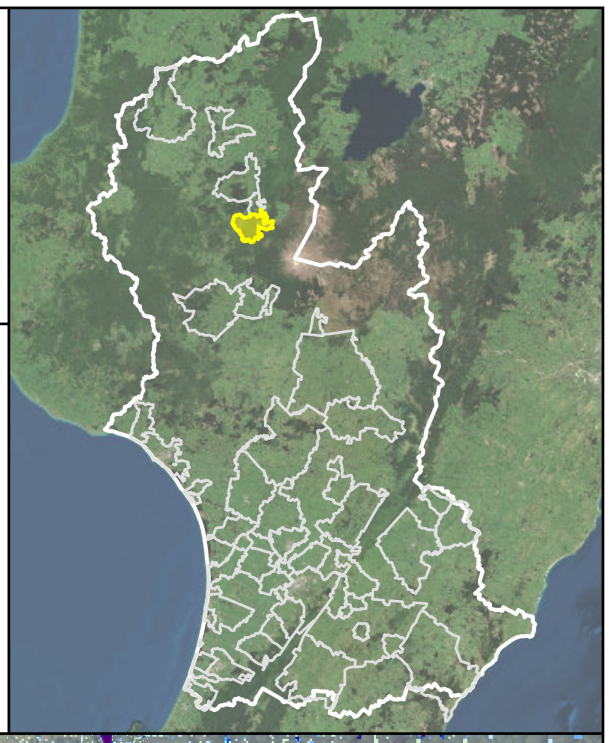
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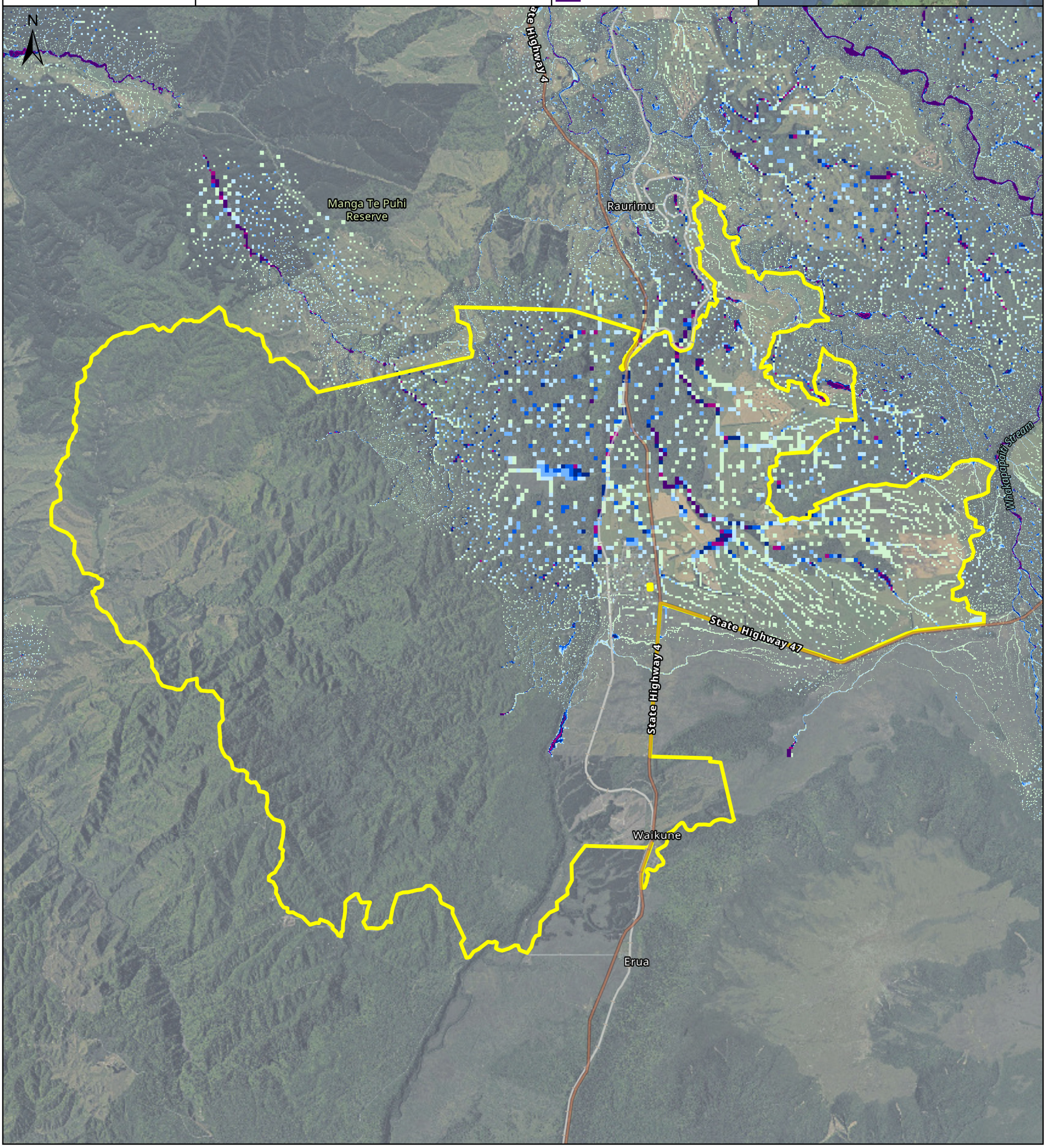
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

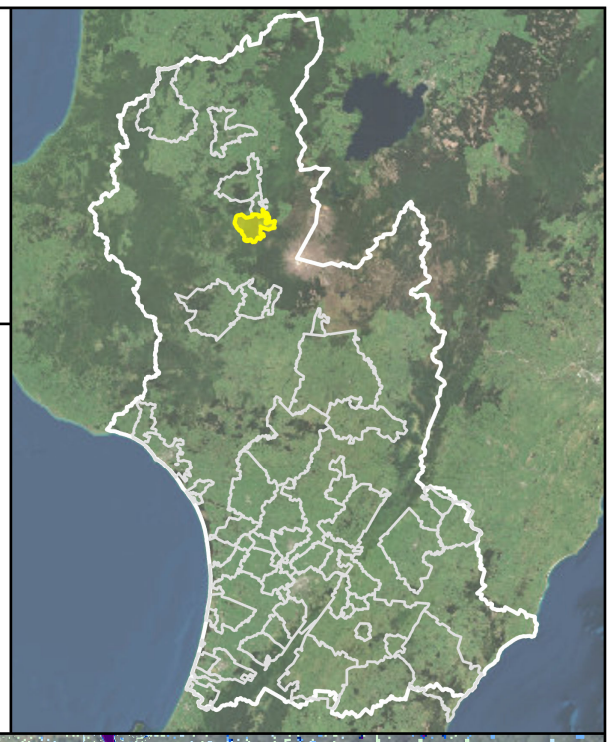
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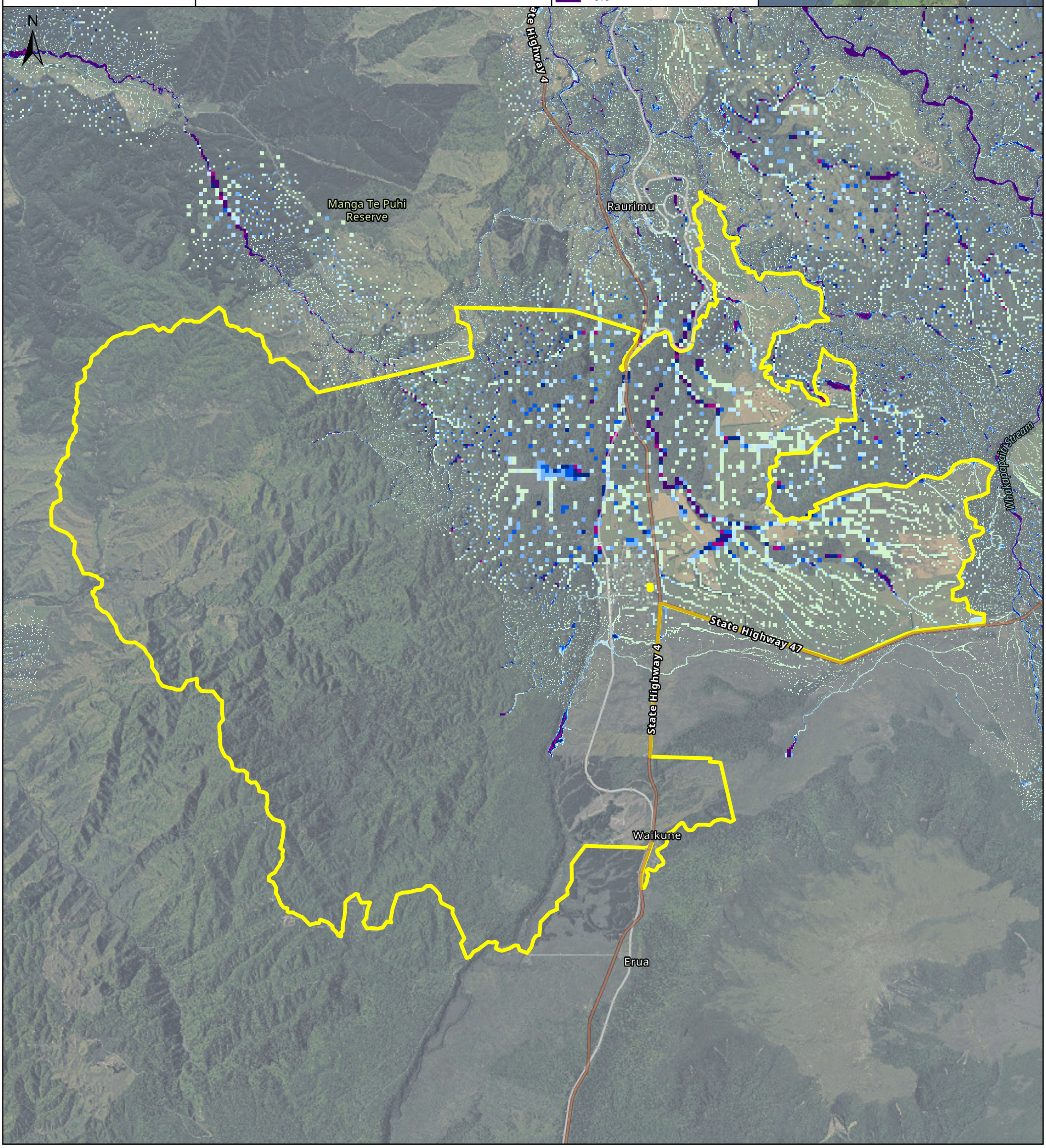
Legend

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- 0.05 - 0.20
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Community
National Park,
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Scale 1:57,000 at A3

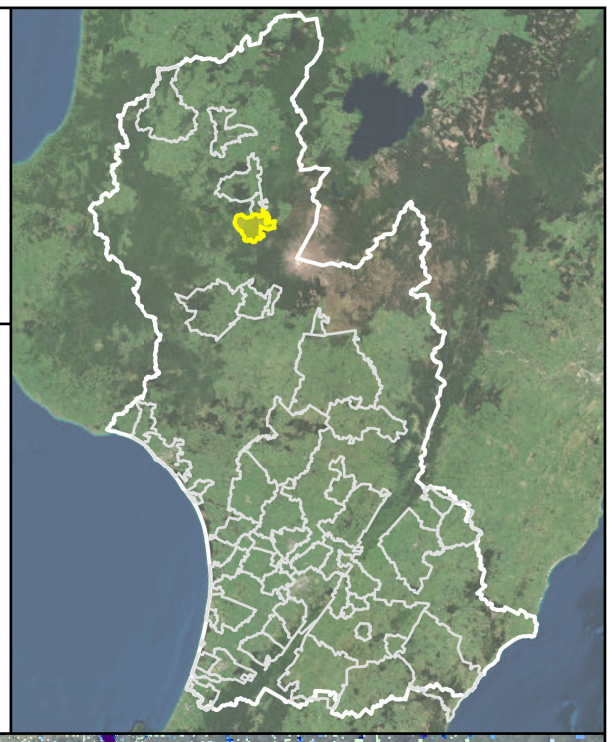
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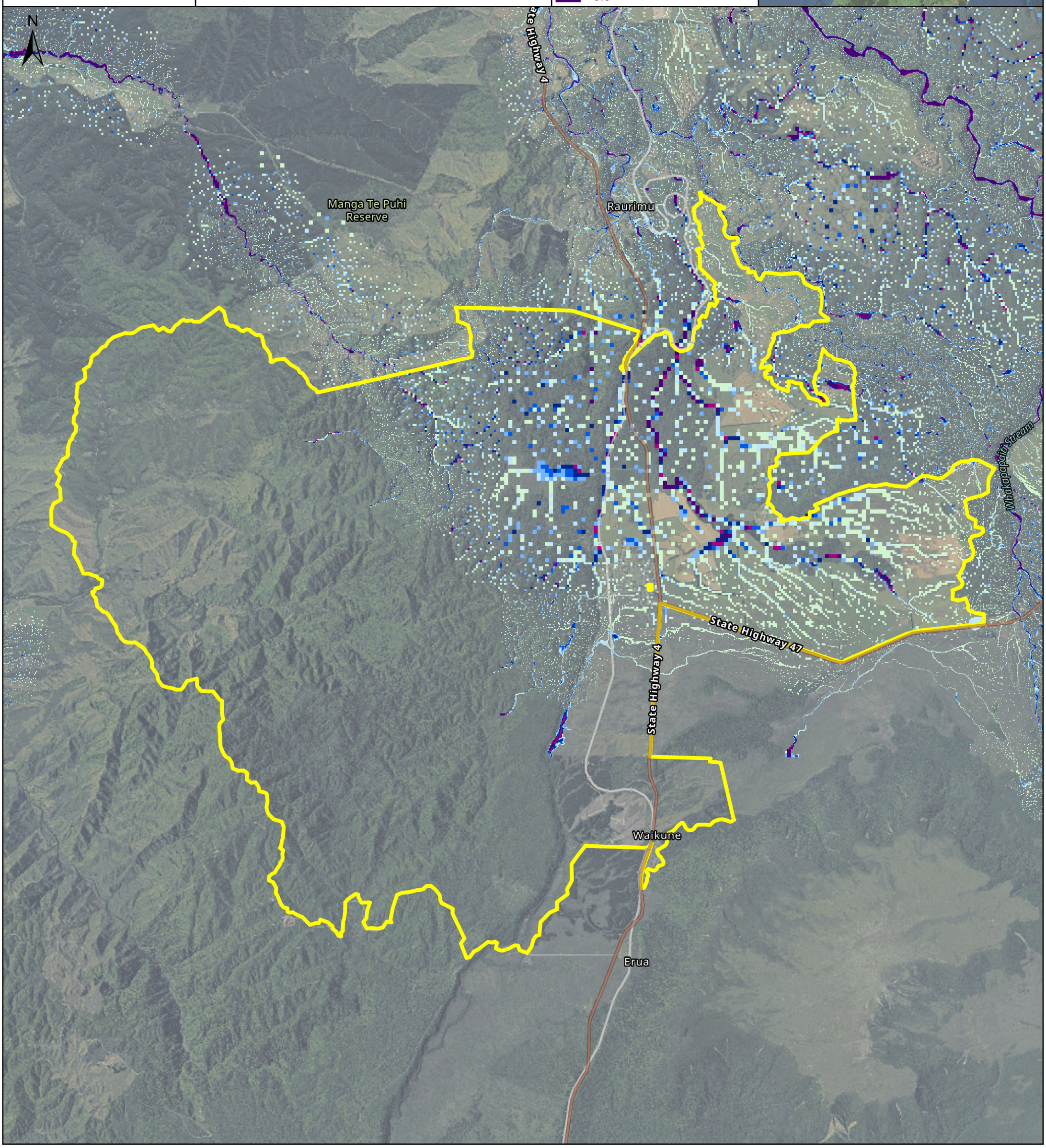
Legend

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- 0.05 - 0.20
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Community
National Park,
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Scale 1:57,000 at A3

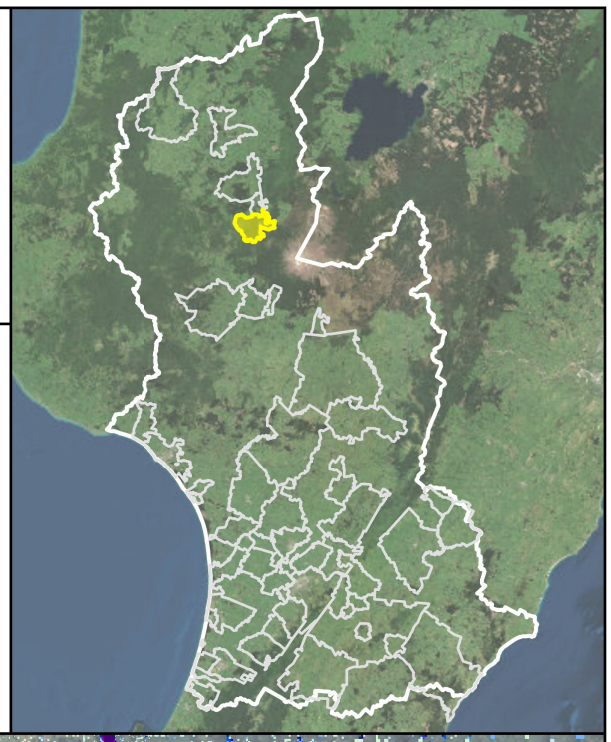
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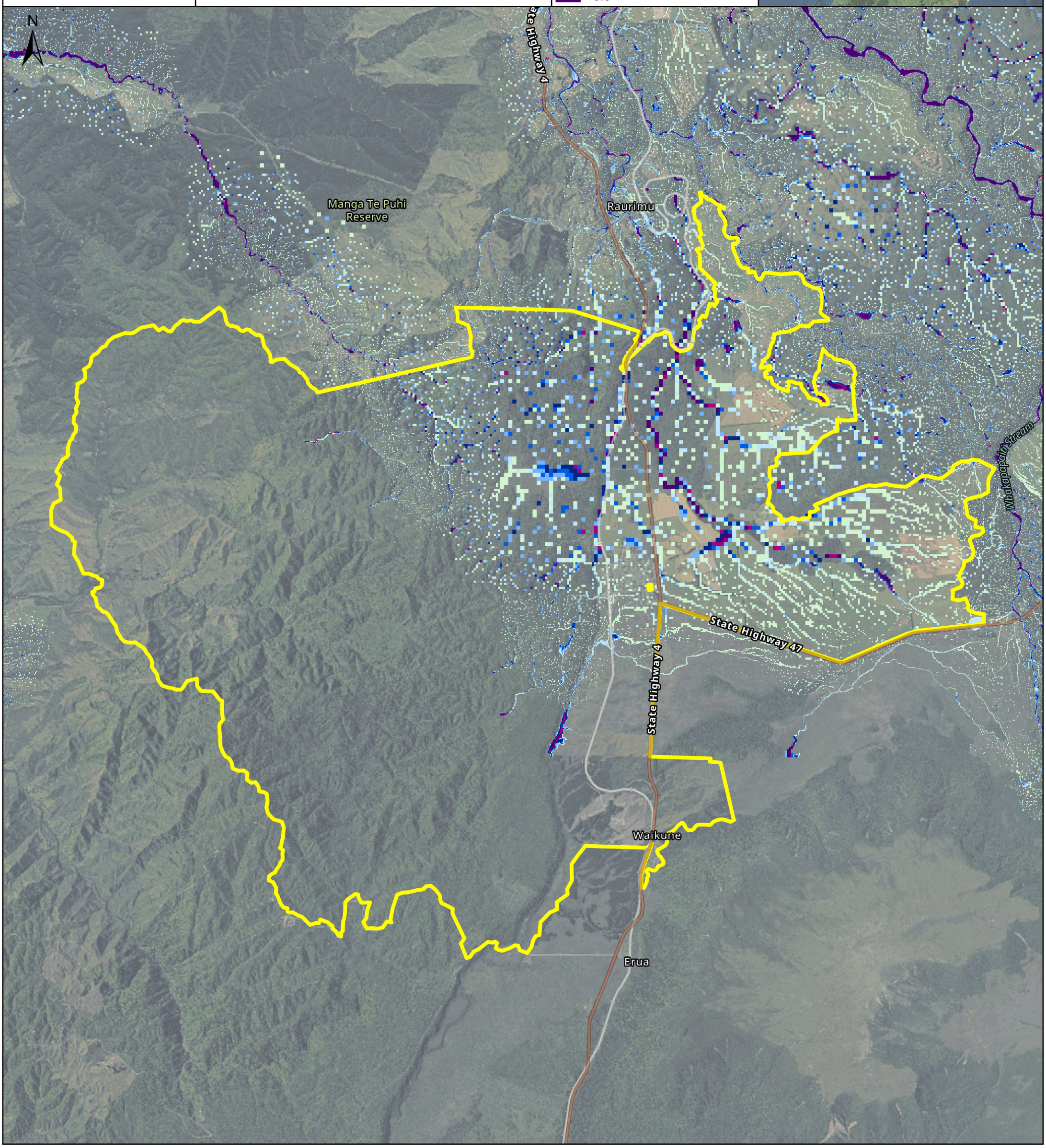
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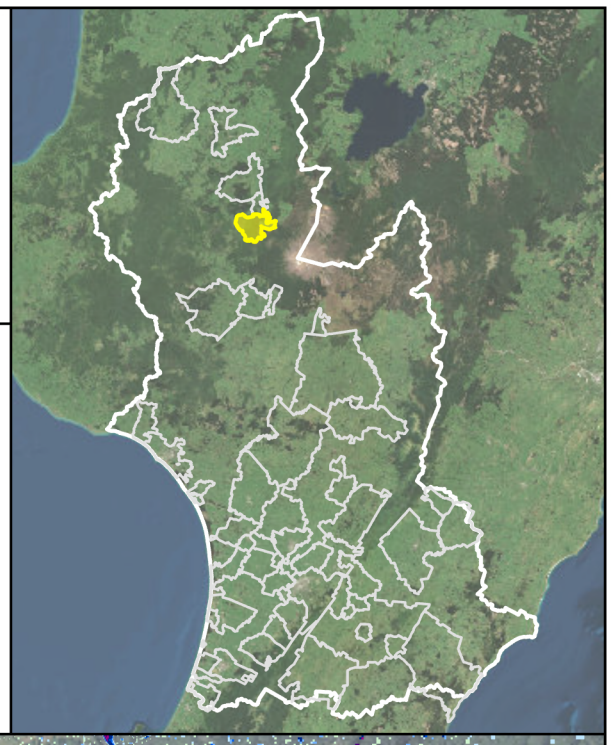
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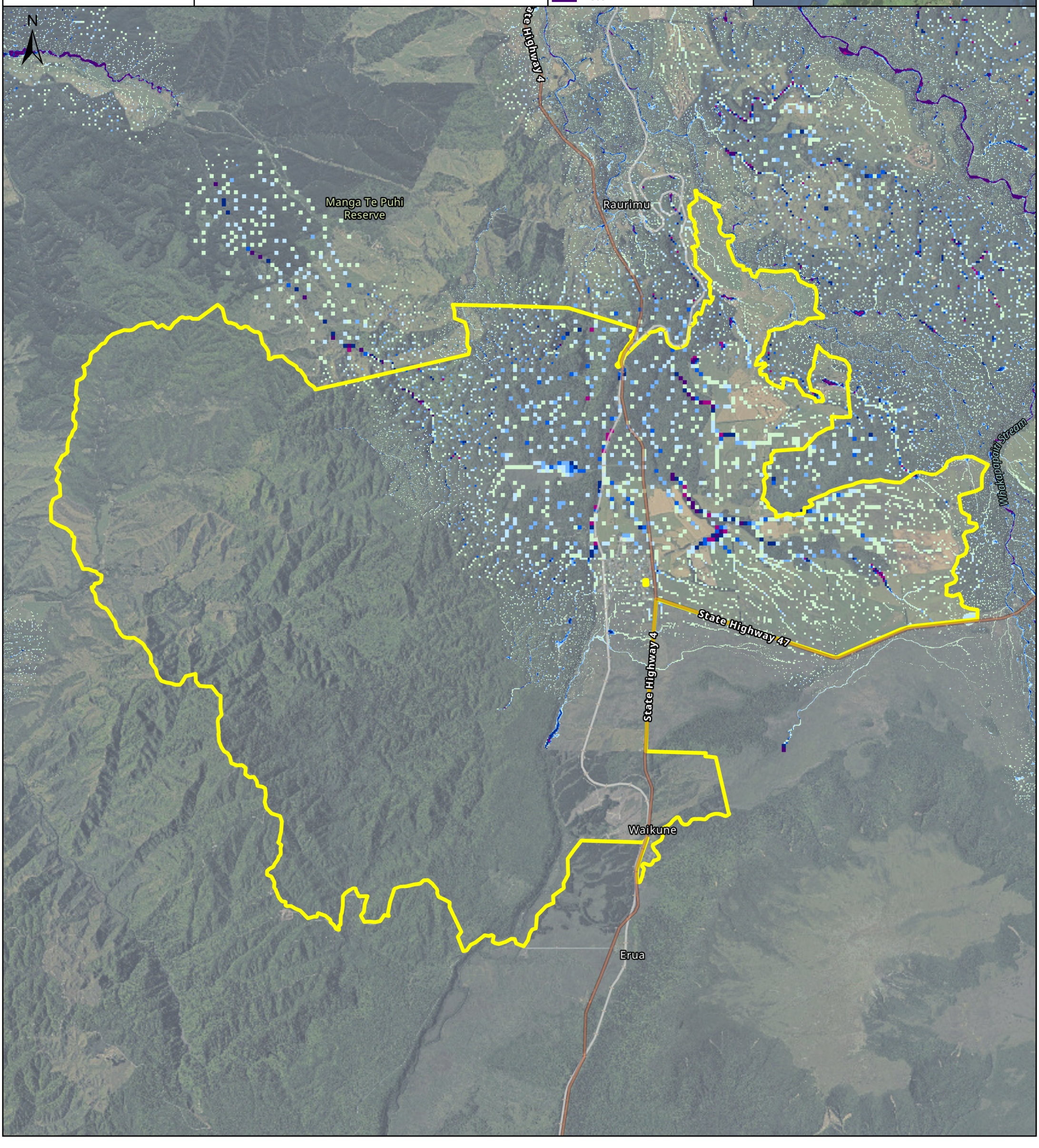
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Flood Depth (m)

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Ruapehu District

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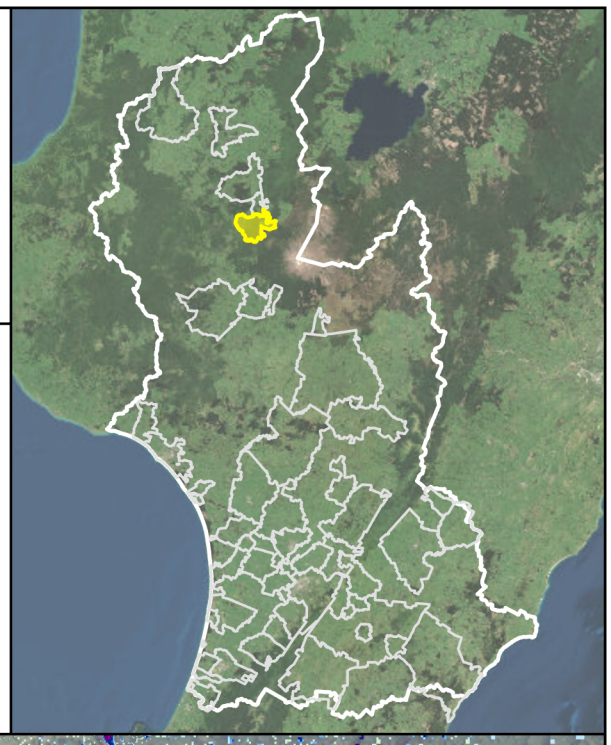
0 1.5 3 Km

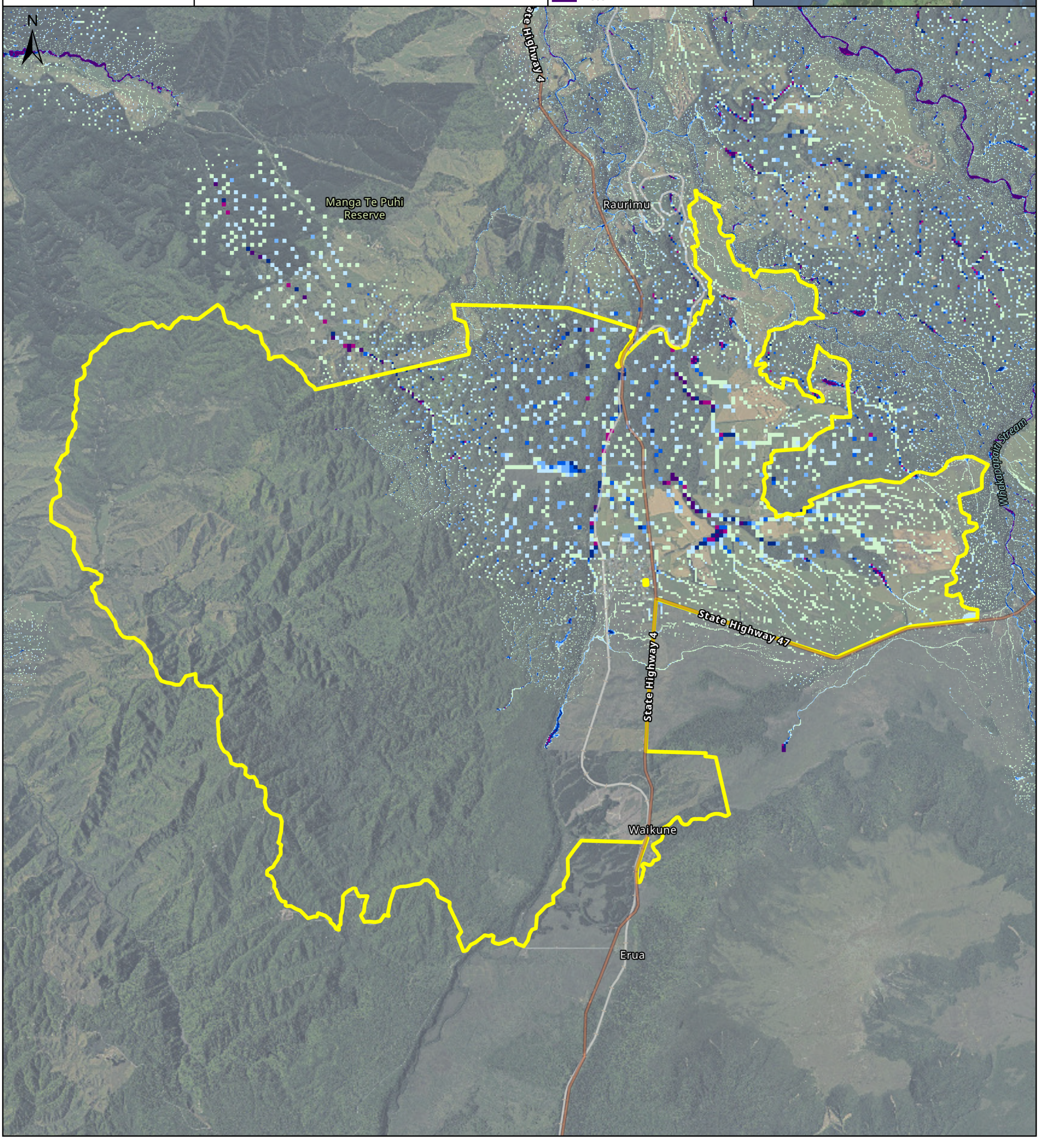
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Flood Depth (m)

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Ruapehu District

Scale 1:57,000 at A3

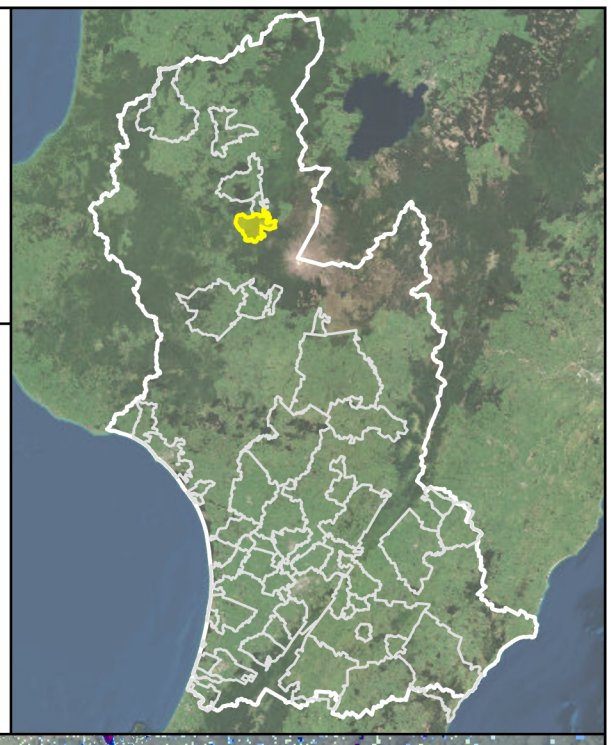
0 1.5 3 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5



N

Manga Te Puhi Reserve

Raurimu

State Highway 4

State Highway 47

Whakapapaiti Stream

Waikune

Erua

Prepared For

horizons REGIONAL COUNCIL

Prepared By

wsp

NIWA Taihoro Nukurangi

Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.5% annual exceedance probability, flood defences down, 0 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

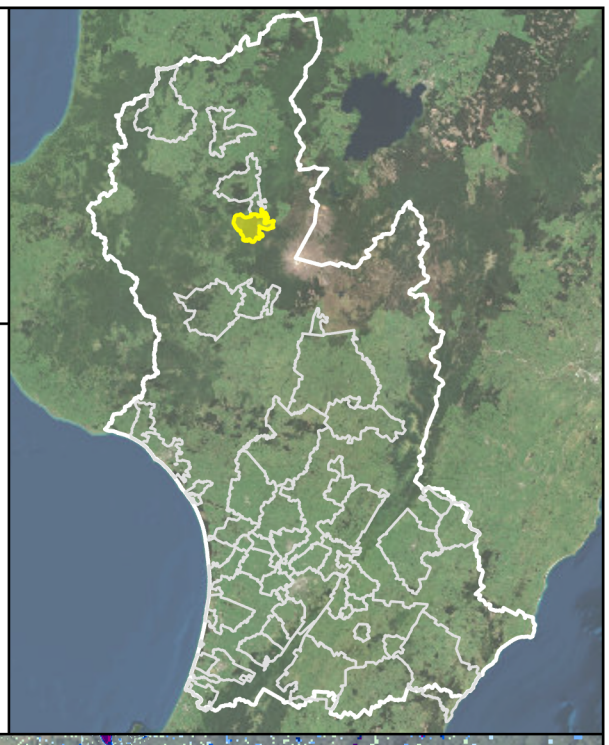
0 1.5 3 Km

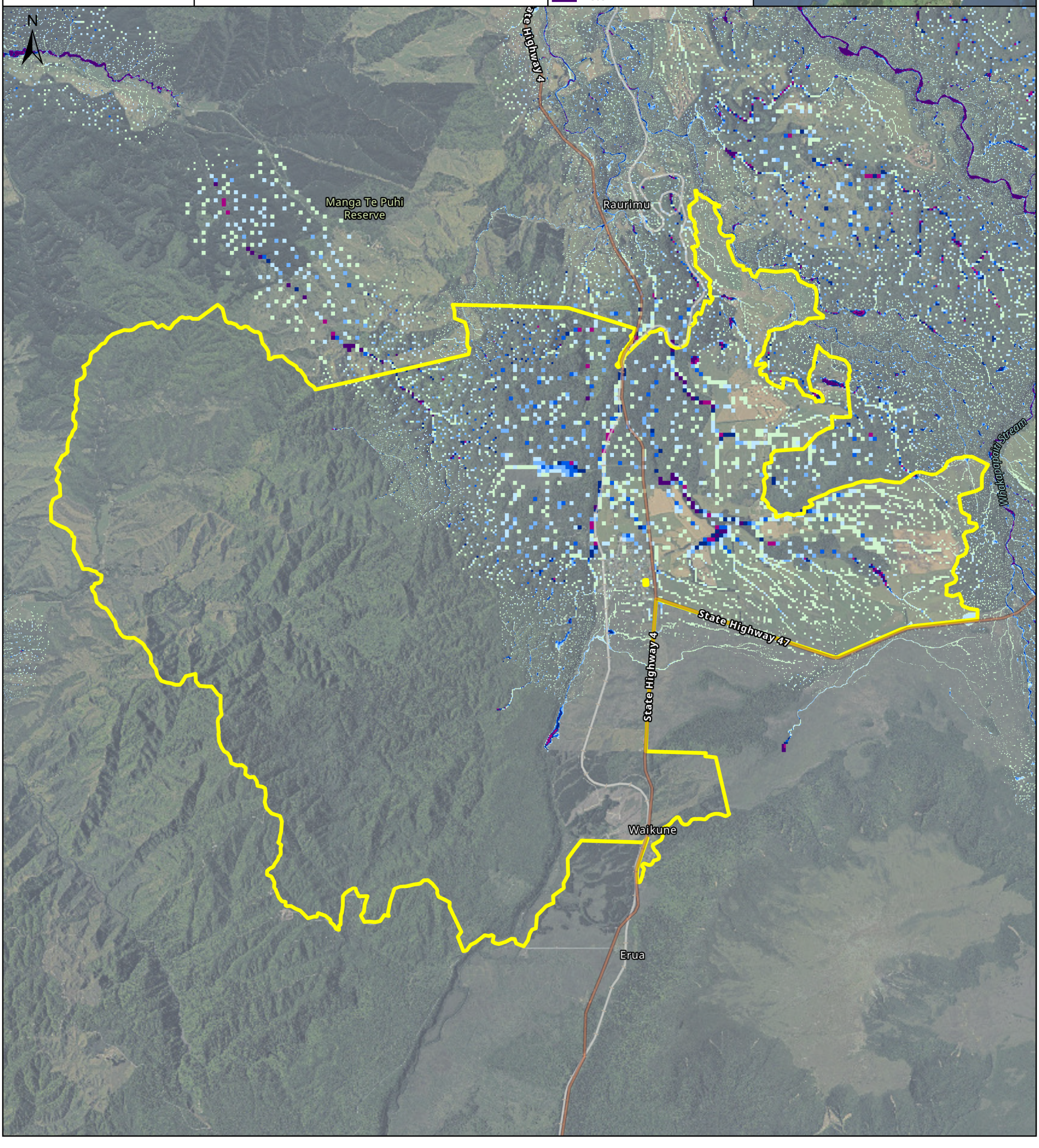
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared By

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NIWA Taihoro Nukurangi

Prepared On

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Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.5% annual exceedance probability, flood defences down, 1 degree warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

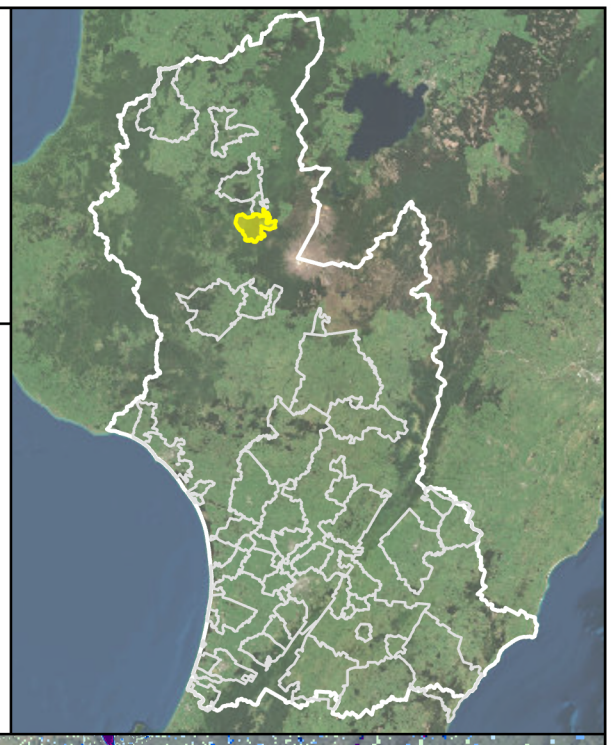
0 1.5 3 Km

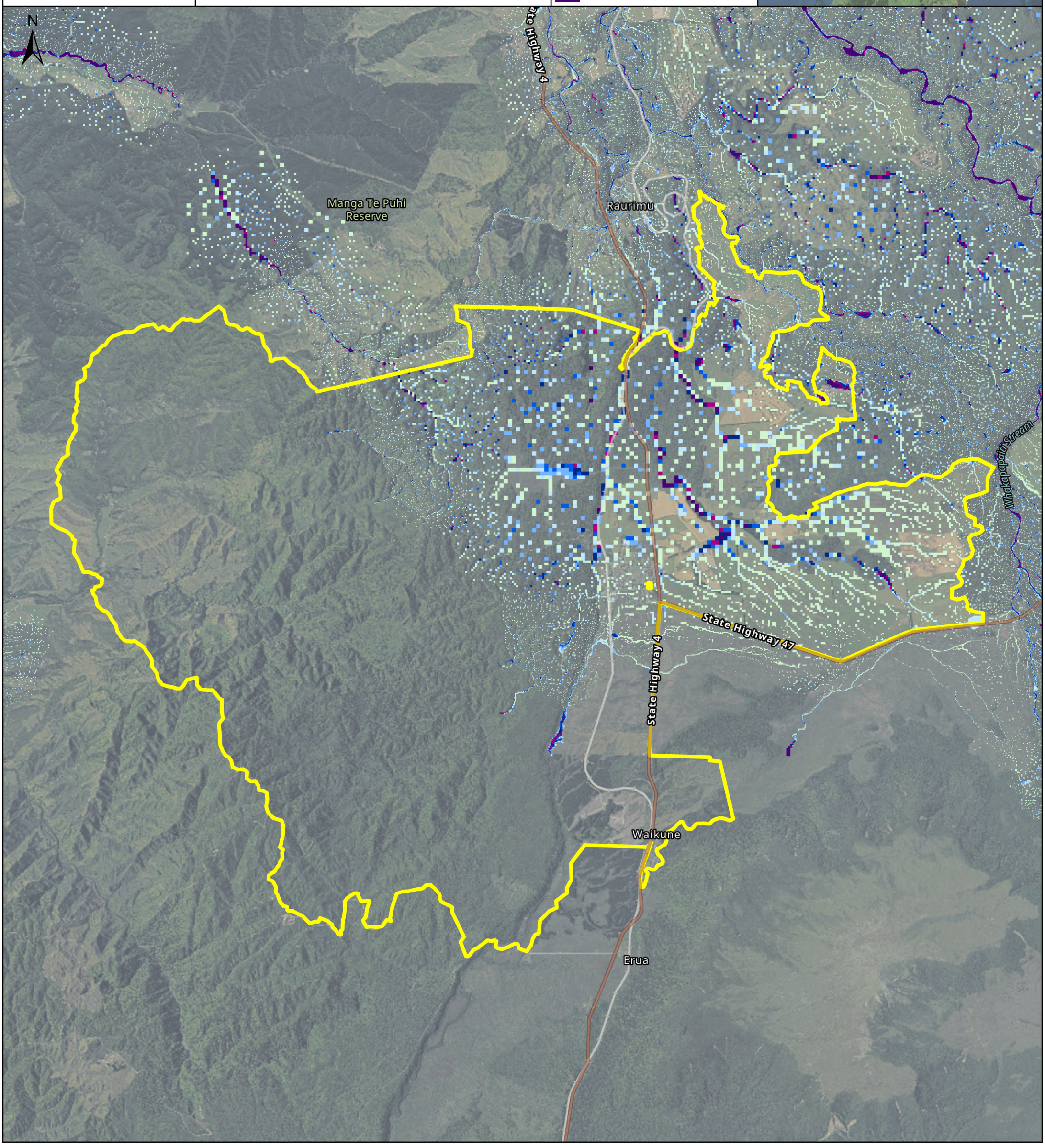
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared On

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Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.5% annual exceedance probability, flood defences down, 2 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

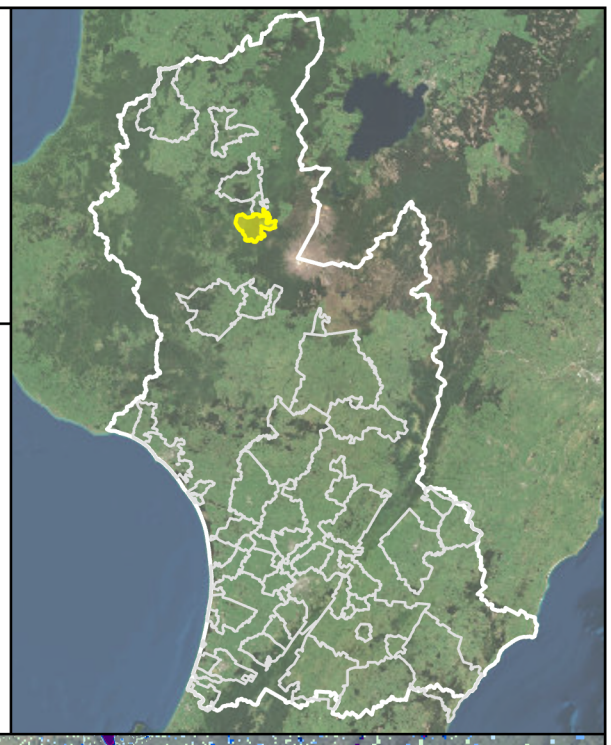
0 1.5 3 Km

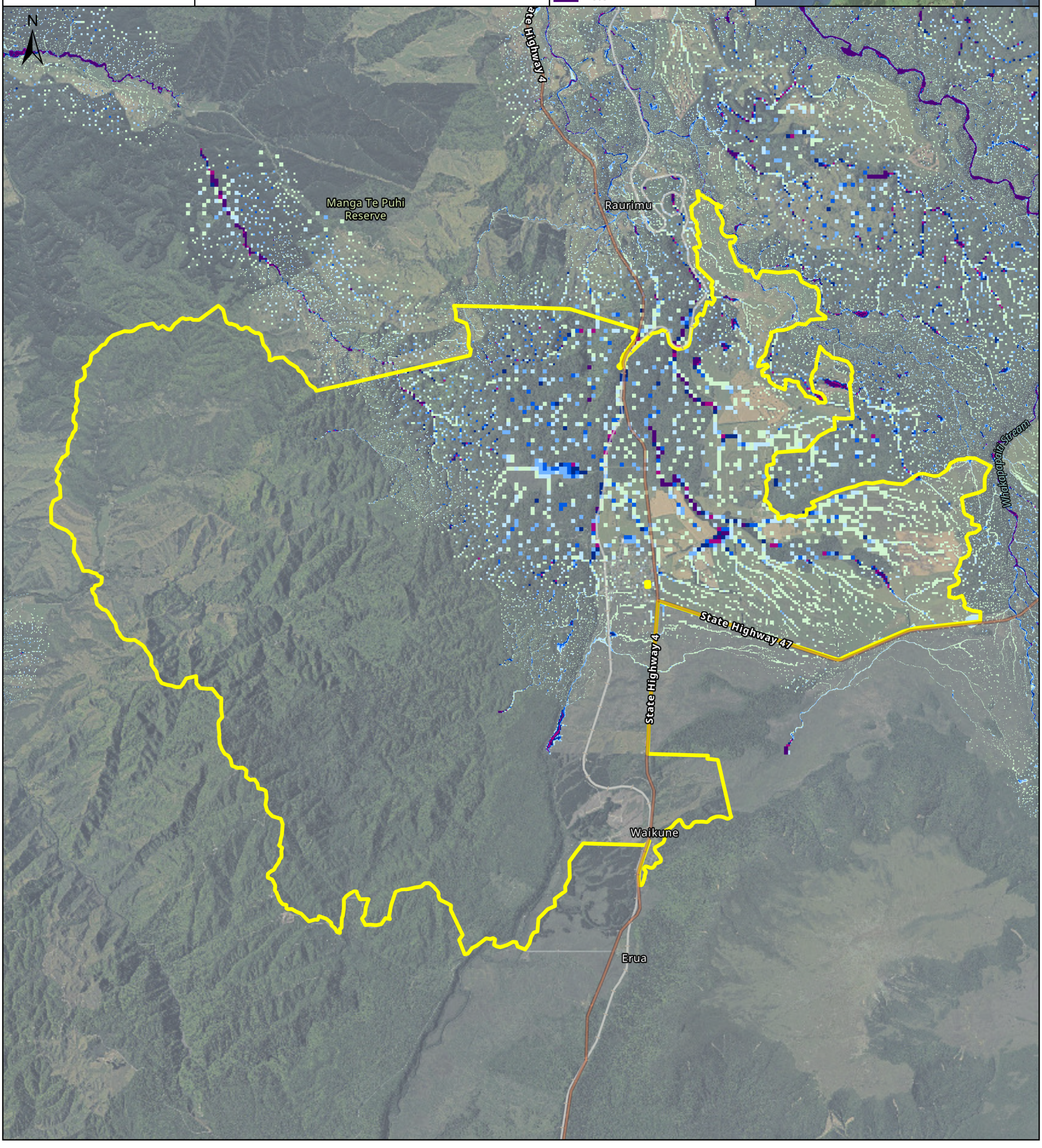
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared By

wsp

NIWA Taihoro Nukurangi

Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.5% annual exceedance probability, flood defences down, 3 degrees warming due to climate change, sea level rise excluded

Community
National Park,
Ruapehu District

Scale 1:57,000 at A3

0 1.5 3 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5

