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
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

0 0.5 1 Km

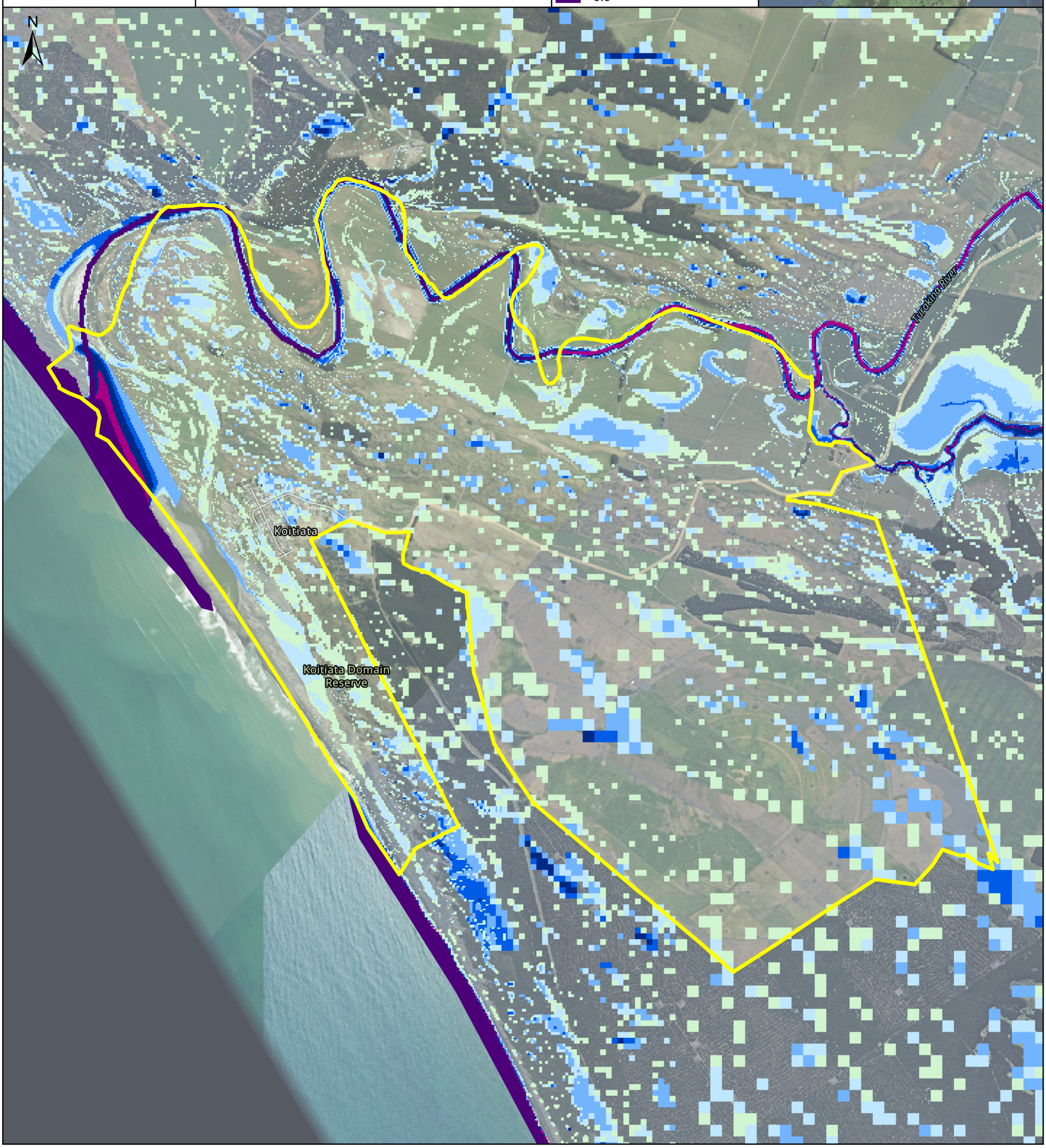
Legend

- 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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NIWA Taihoro Nukurangi

Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

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

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

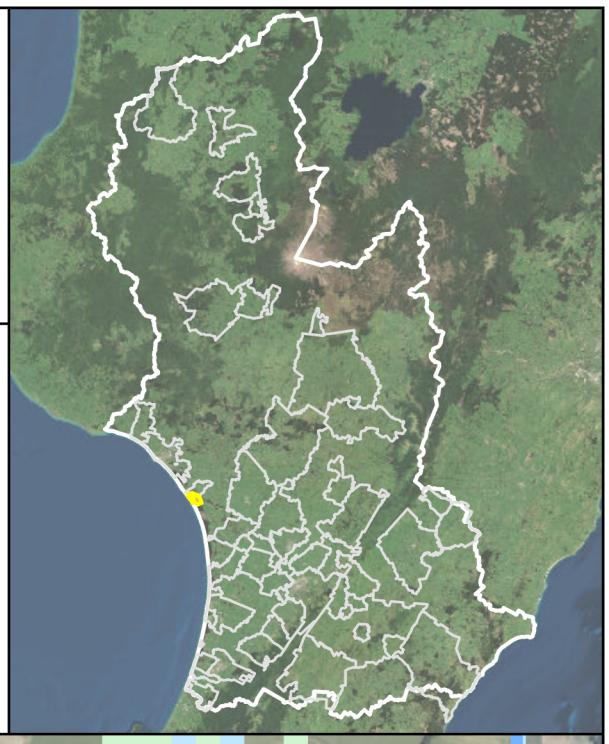
0 0.5 1 Km

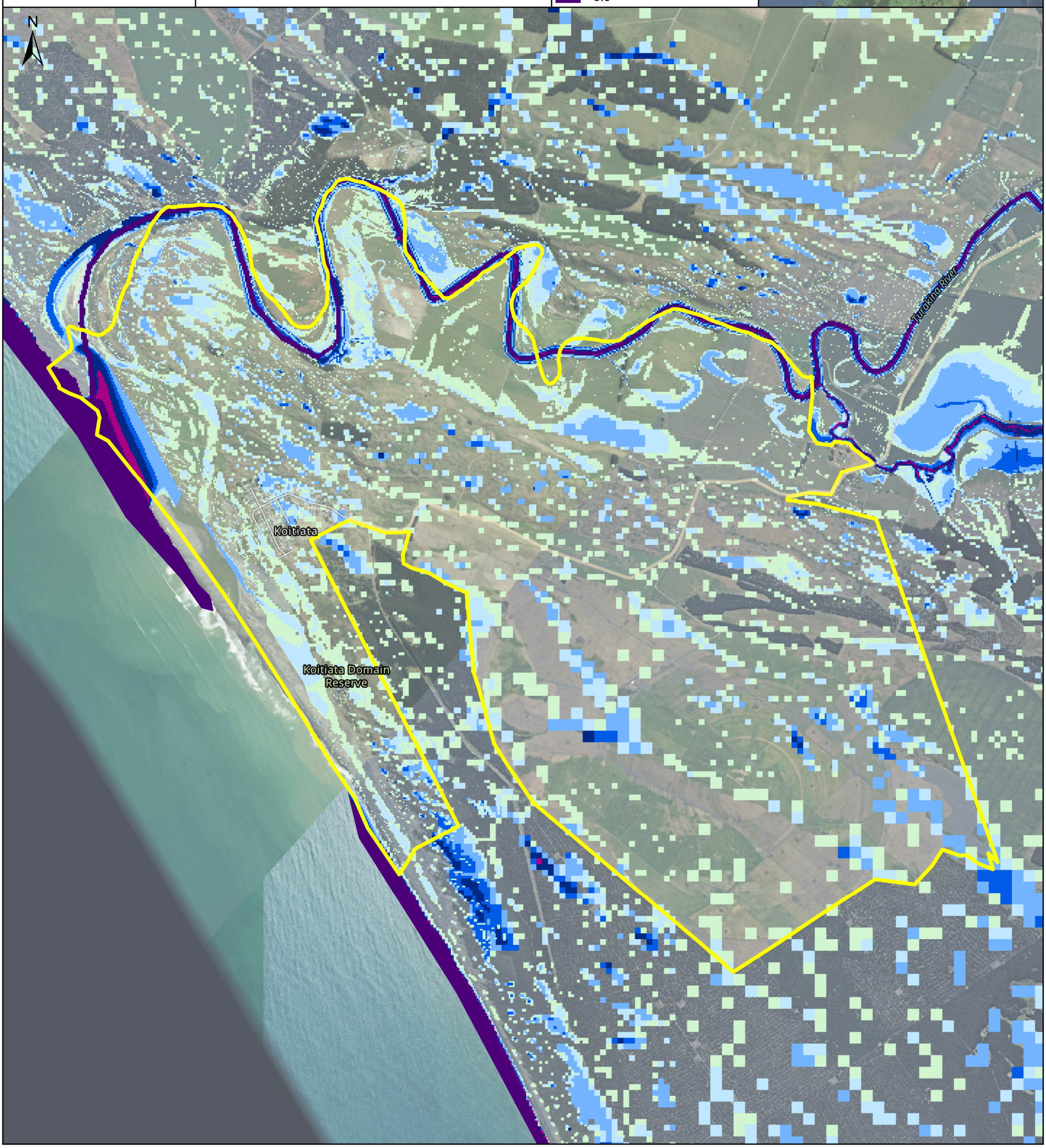
Legend

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

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

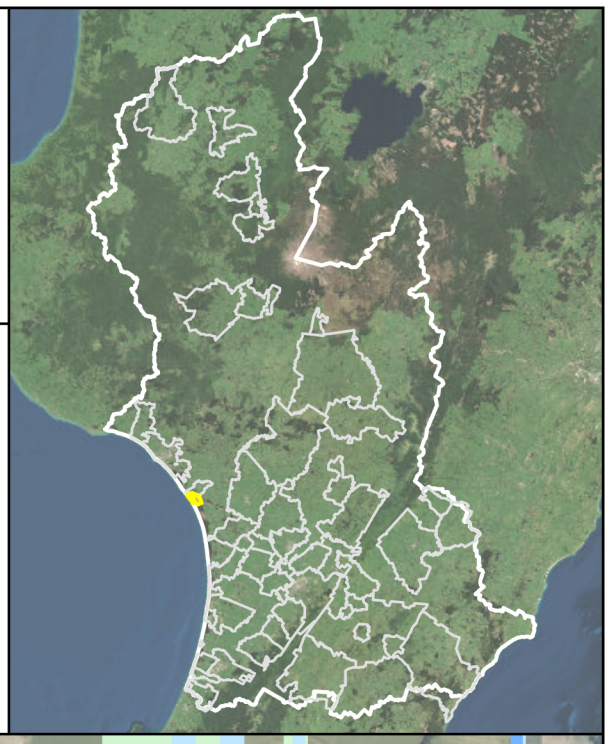
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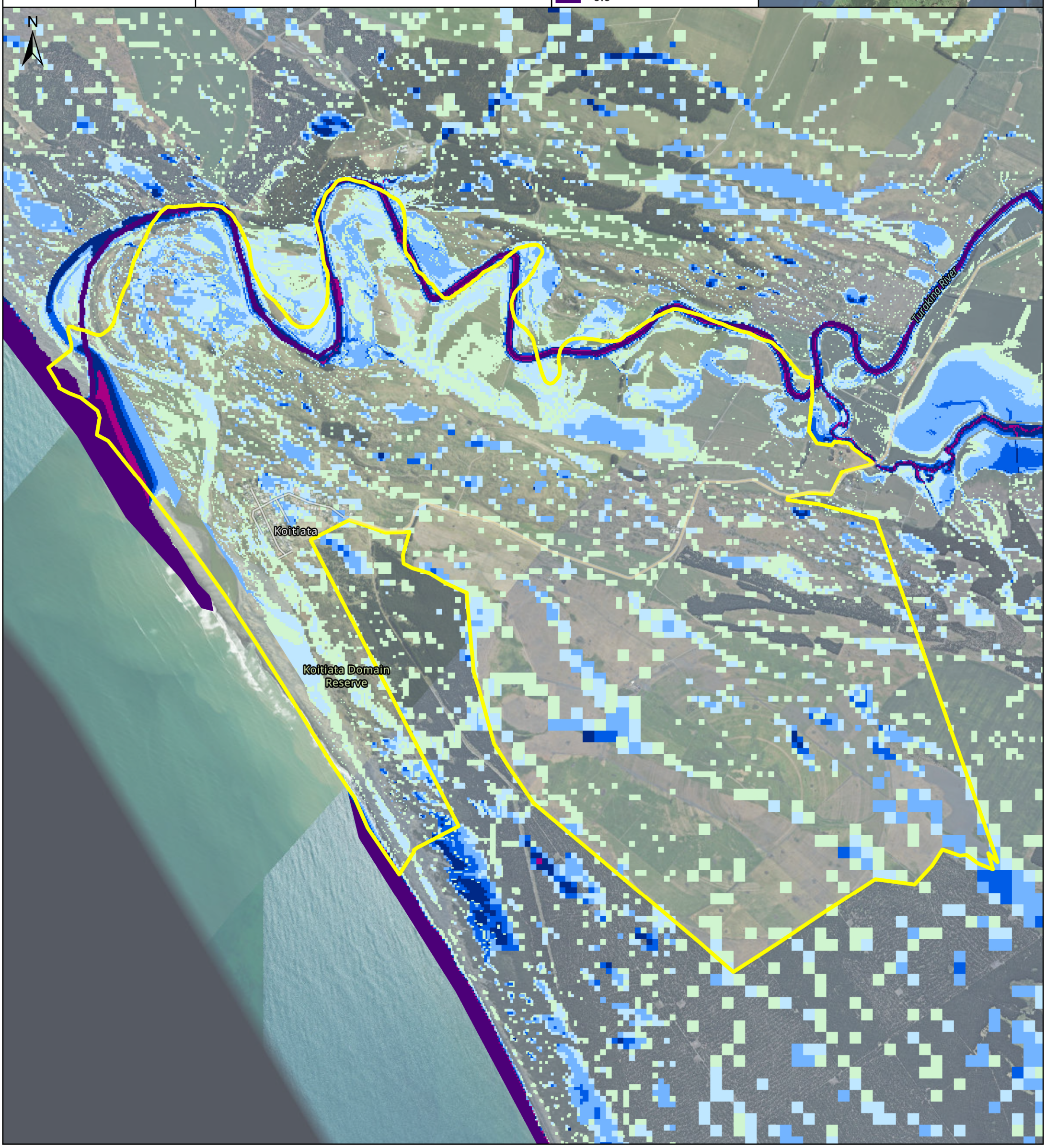
Legend

- 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
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

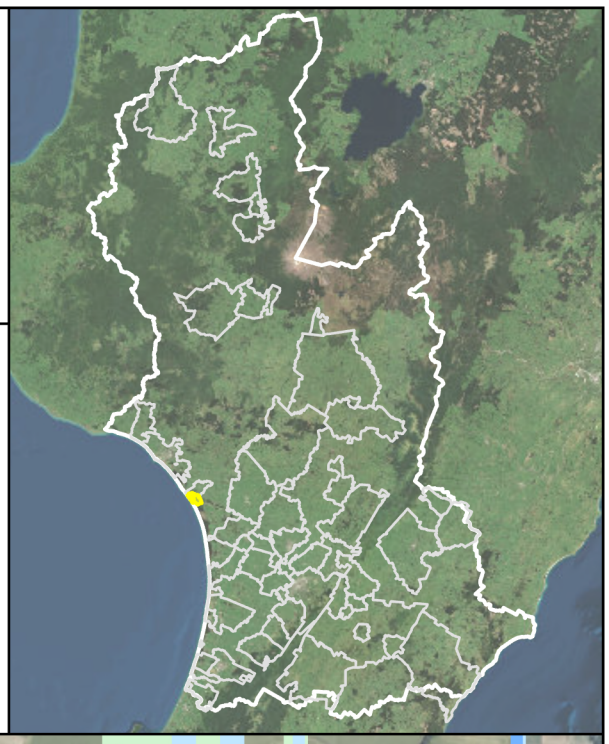
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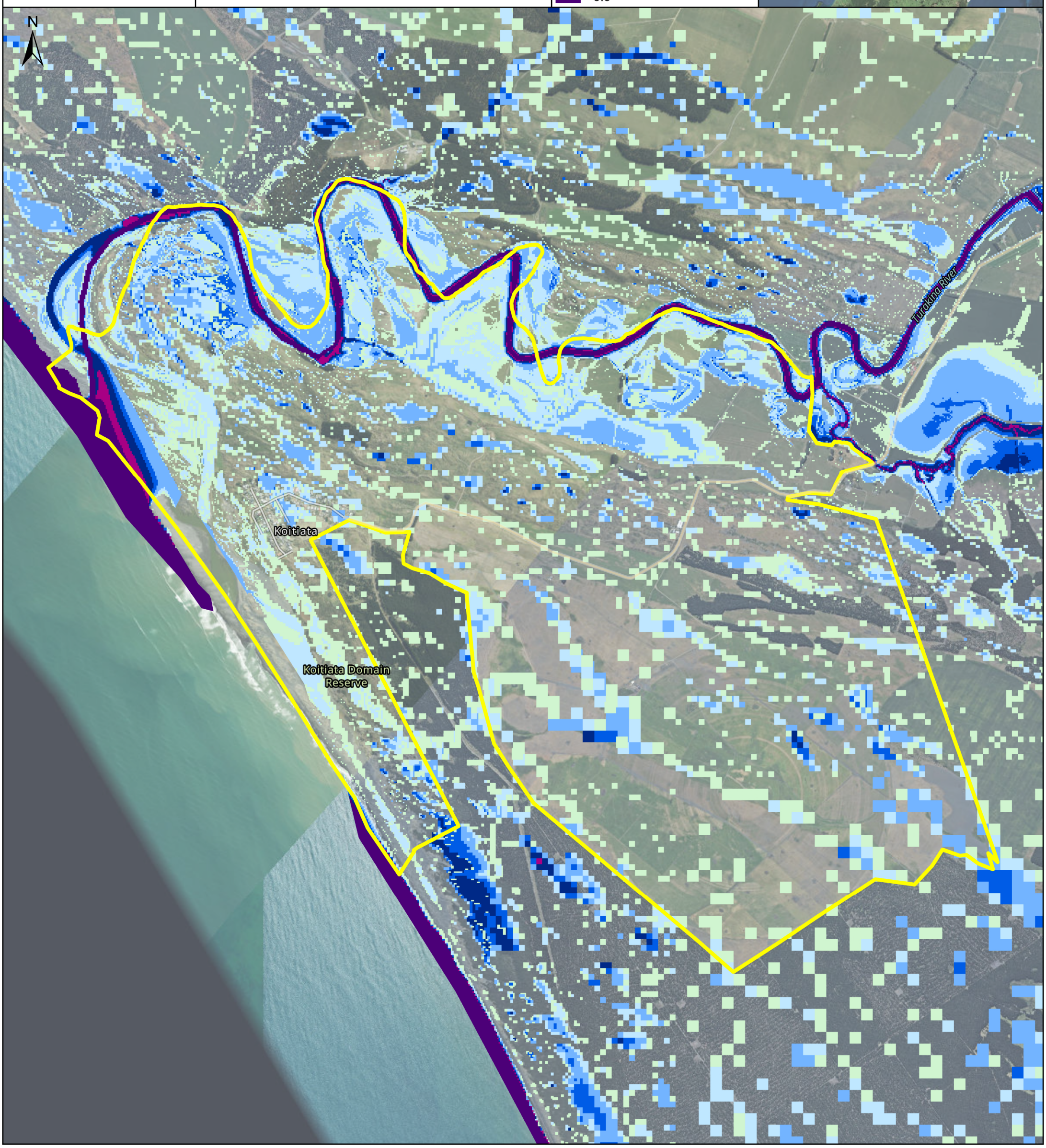
Legend

- Community Boundary

Flood Depth (m)

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





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

Community
Koitiata,
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Scale 1:20,000 at A3

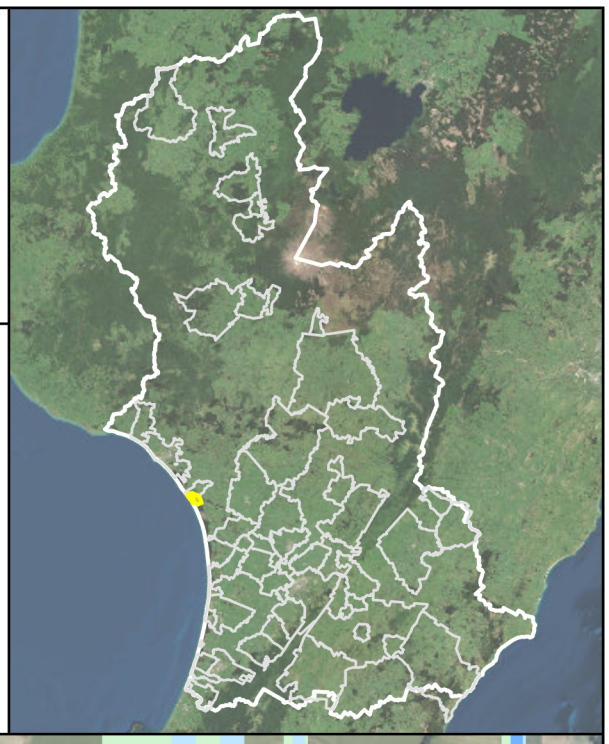
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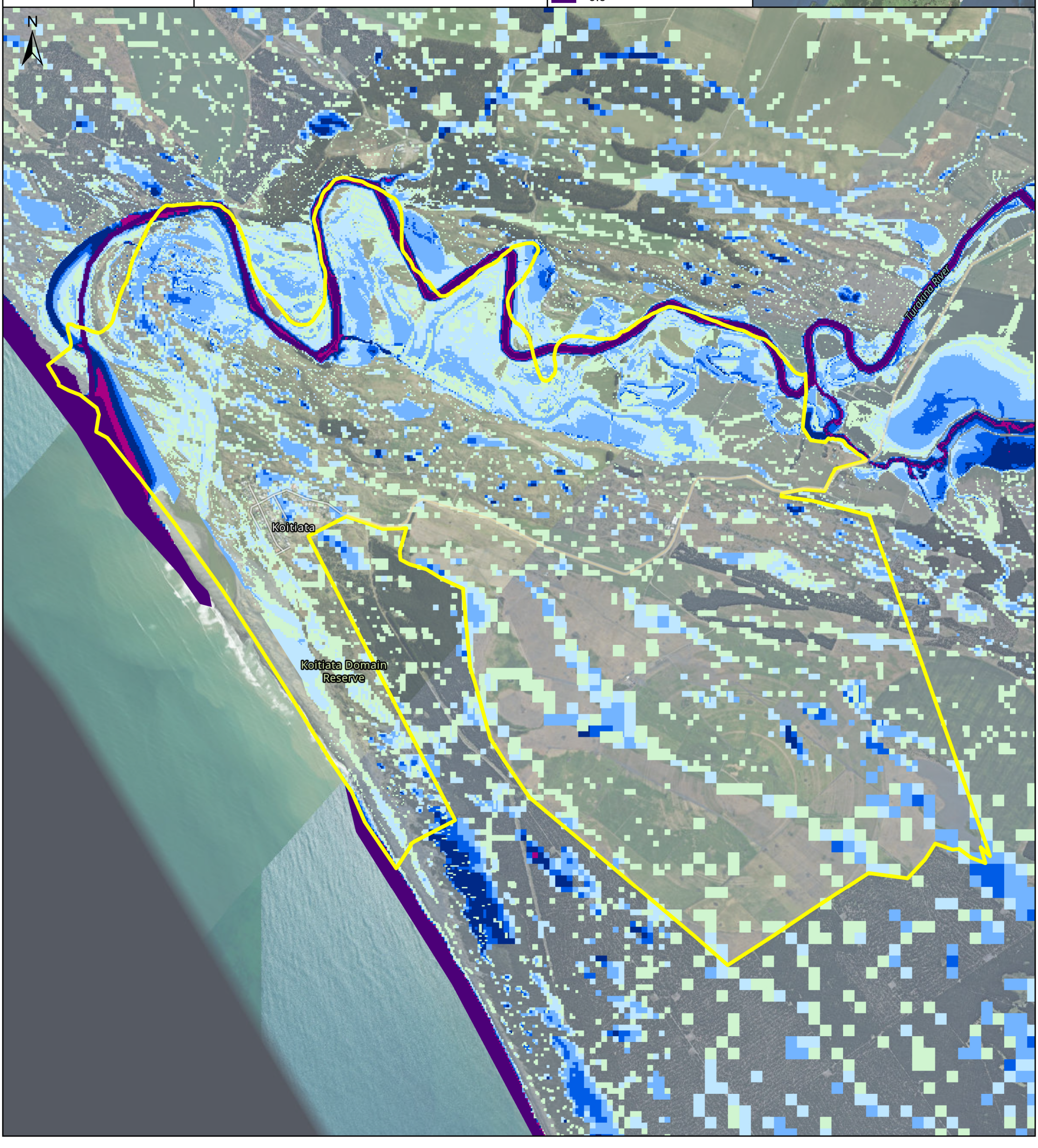
Legend

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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
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

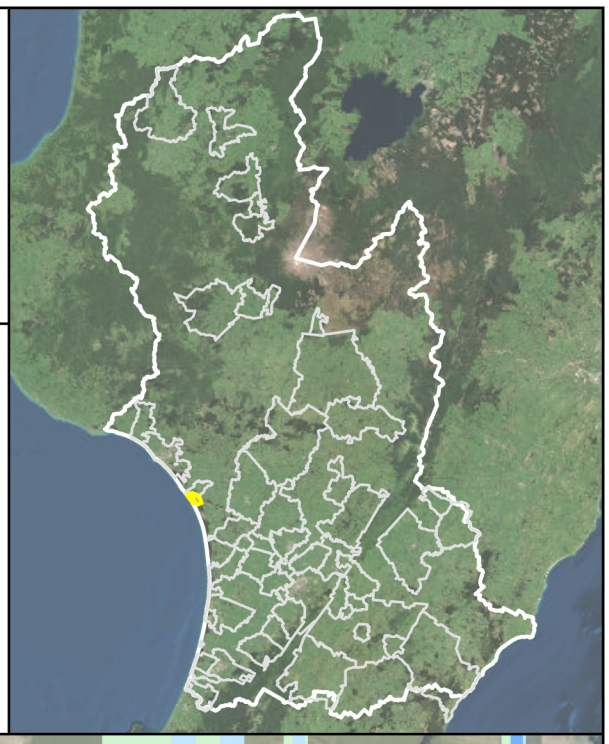
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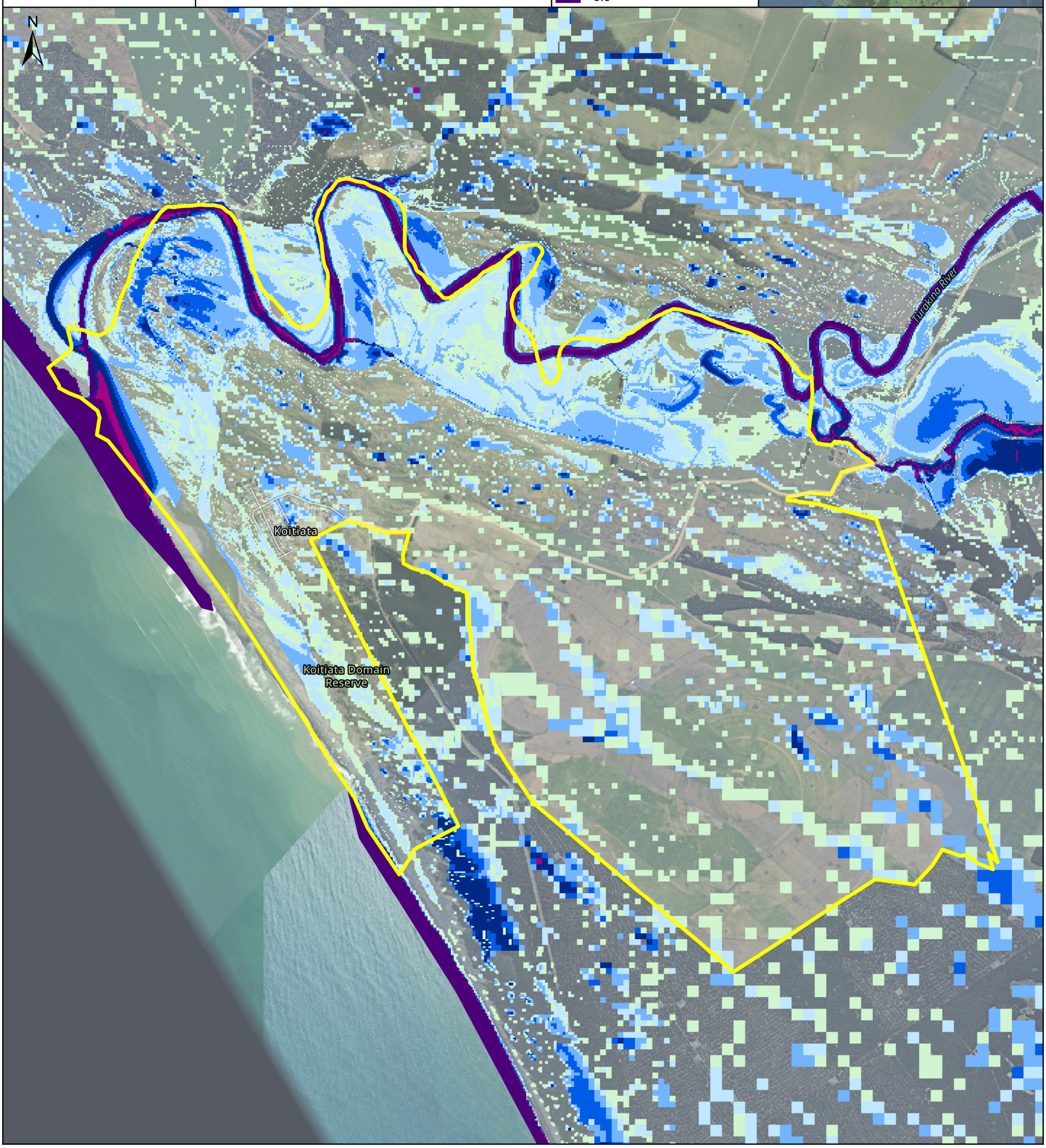
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Flood scenario: 0.5% annual exceedance probability, flood defences up, 3 degrees warming due to climate change, sea level rise excluded

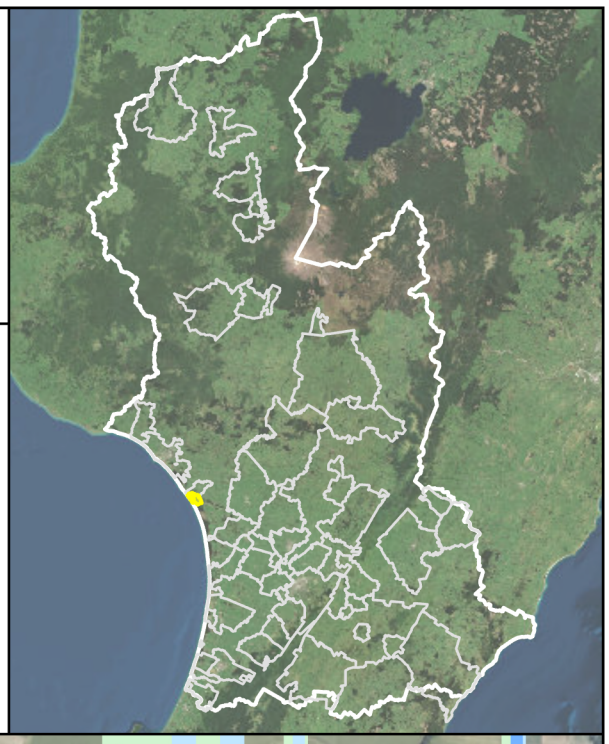
Community
Koitiata,
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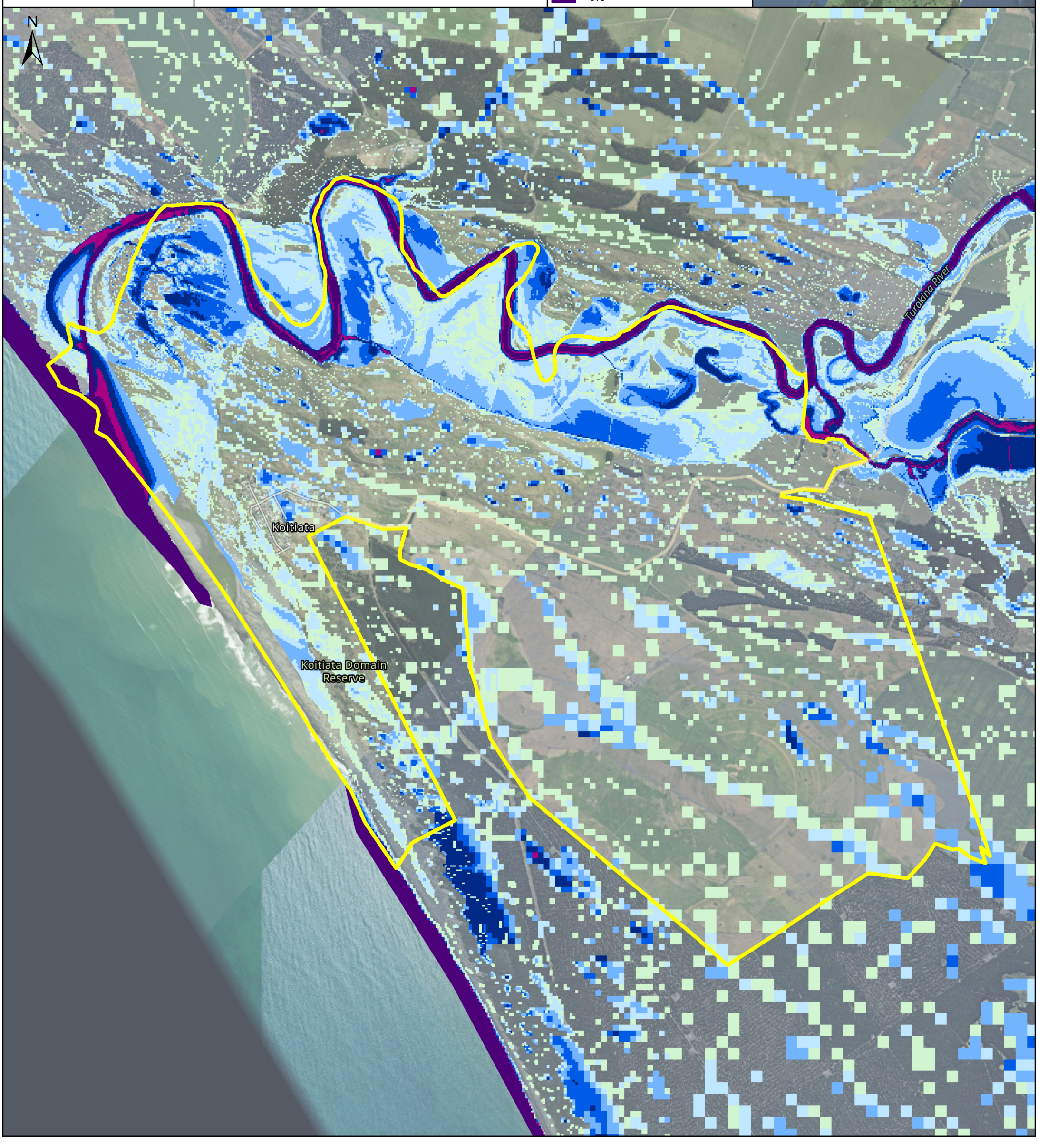
Scale 1:20,000 at A3

0 0.5 1 Km

Legend
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Flood Depth (m)
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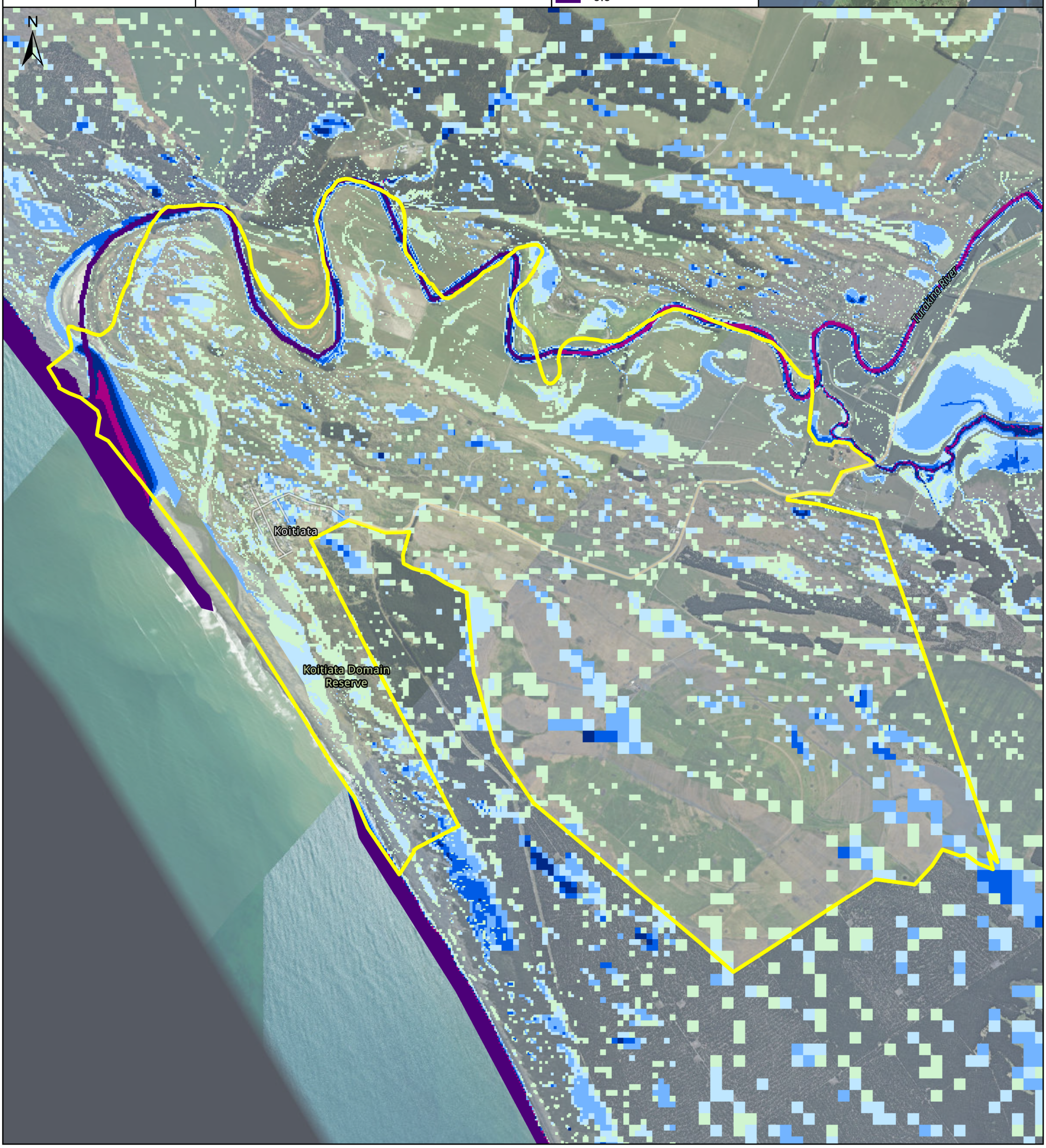
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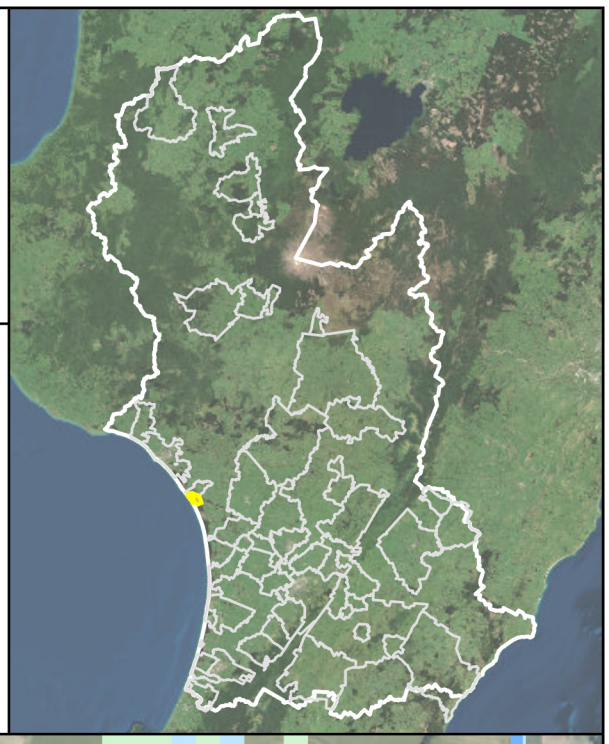
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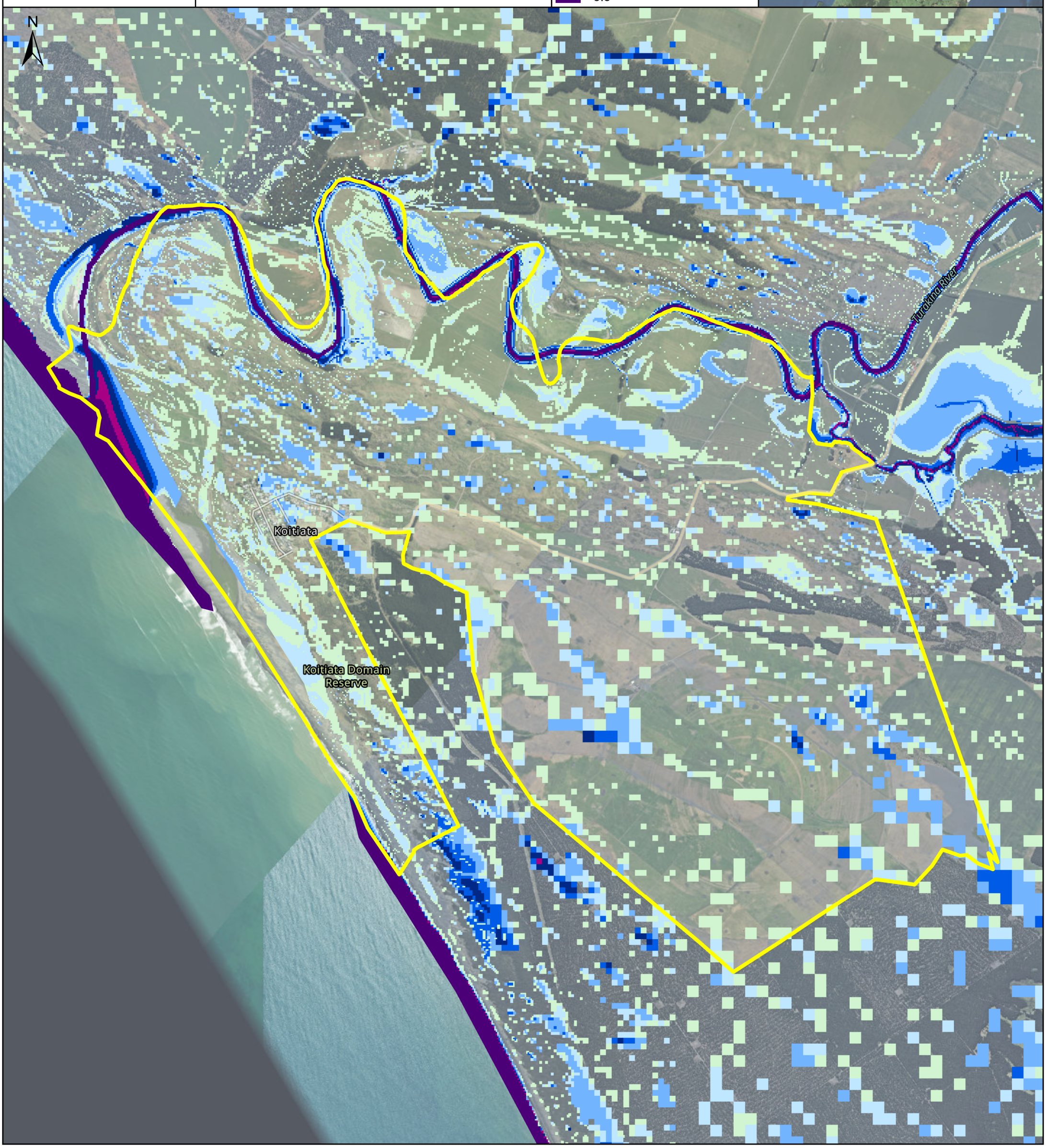
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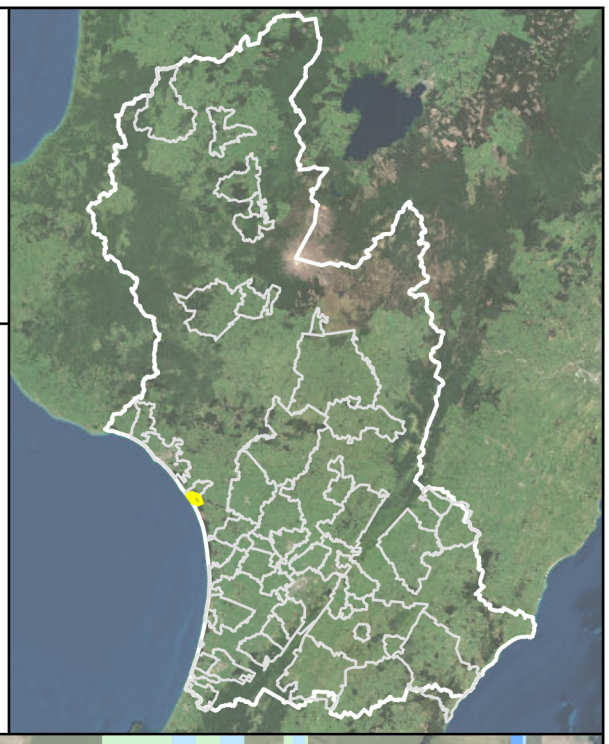
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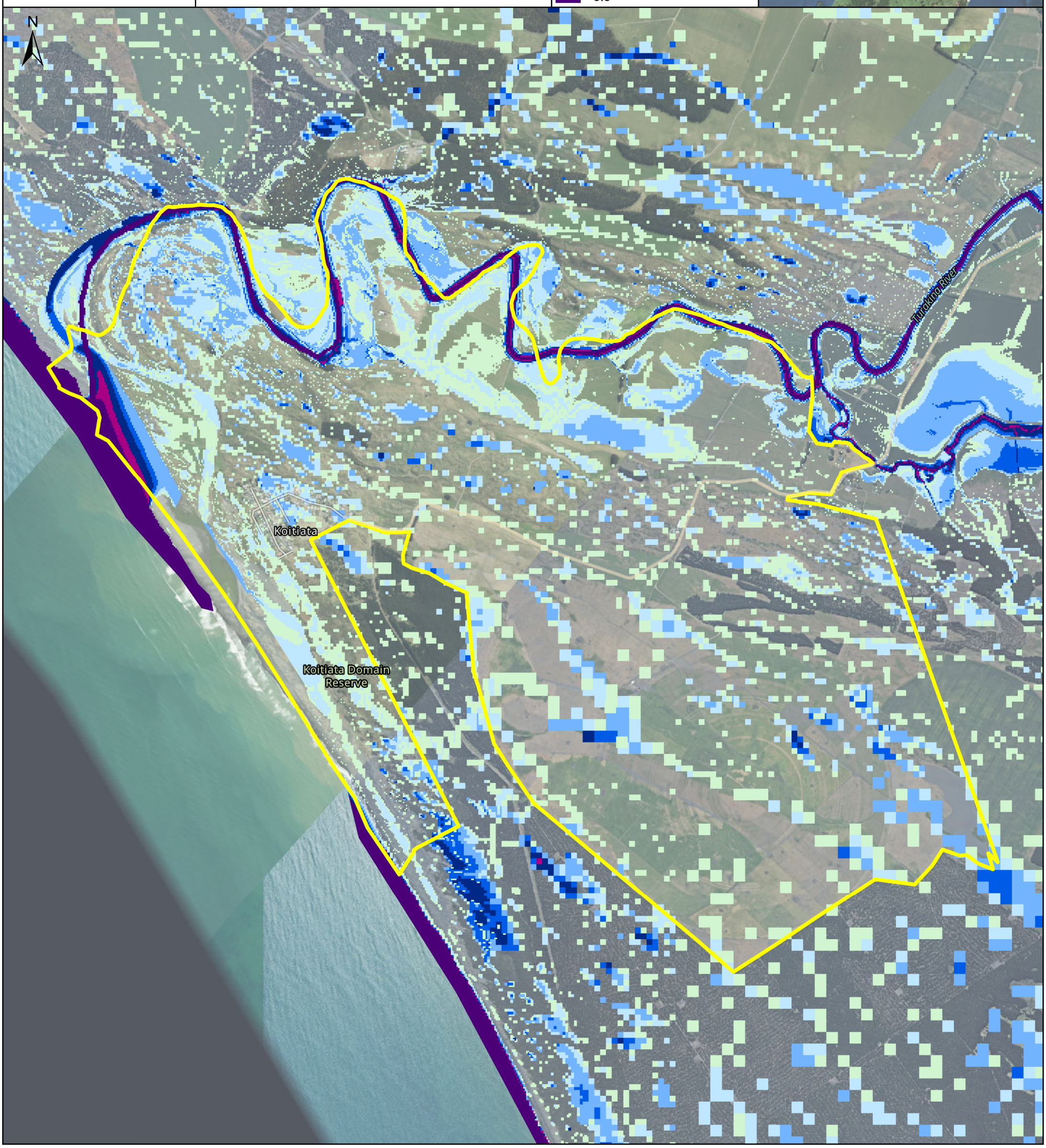
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Scale 1:20,000 at A3

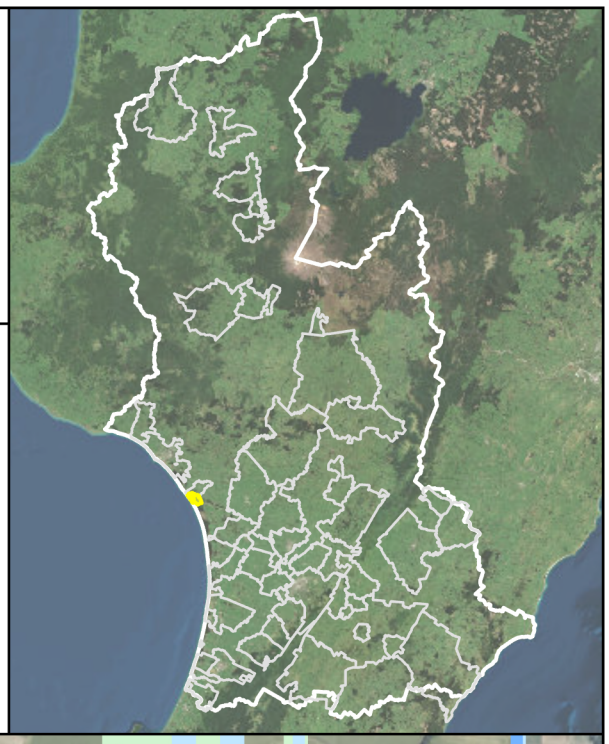
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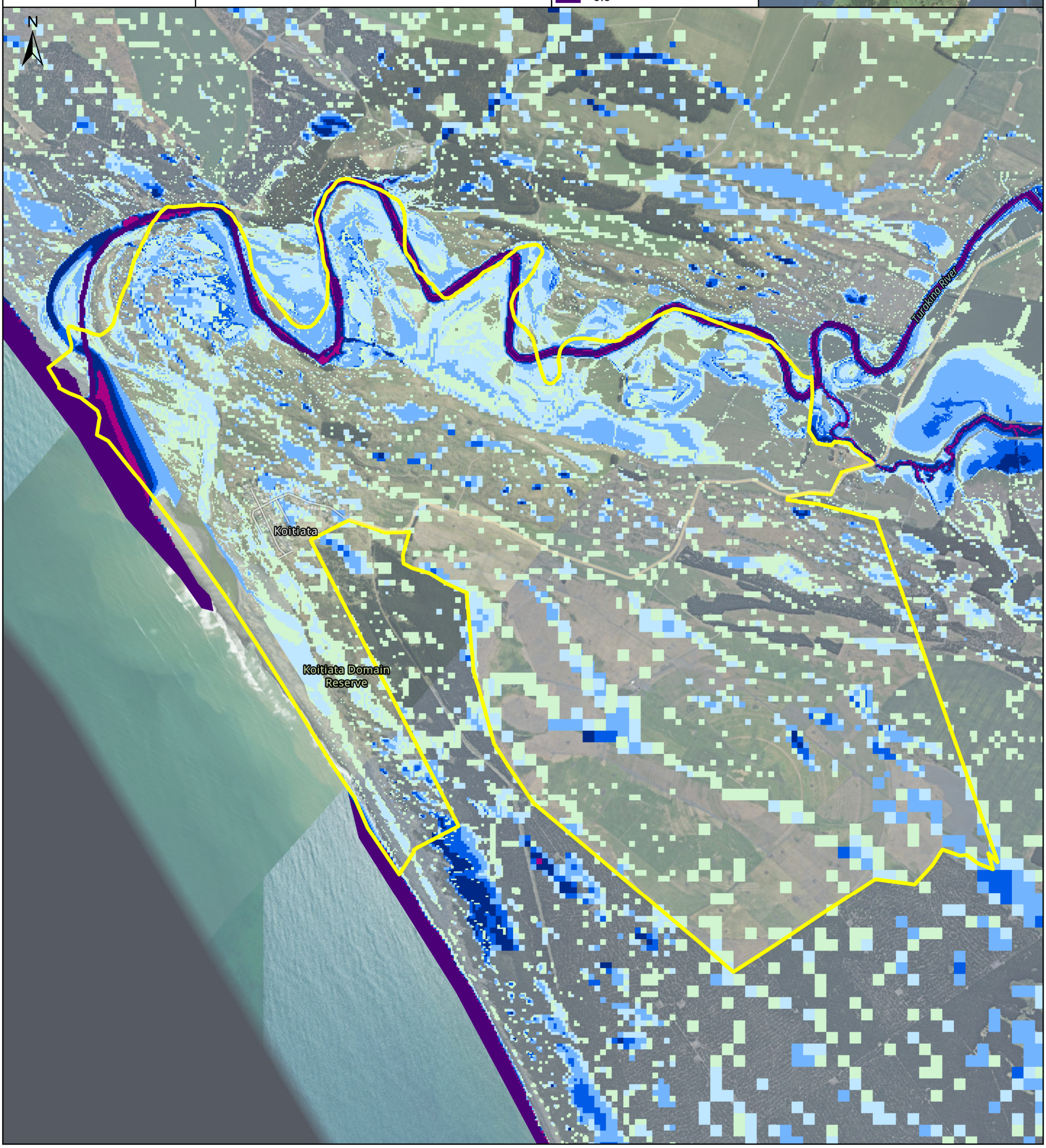
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Flood scenario: 0.5% annual exceedance probability, flood defences up, 1 degree warming due to climate change, sea level rise excluded

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

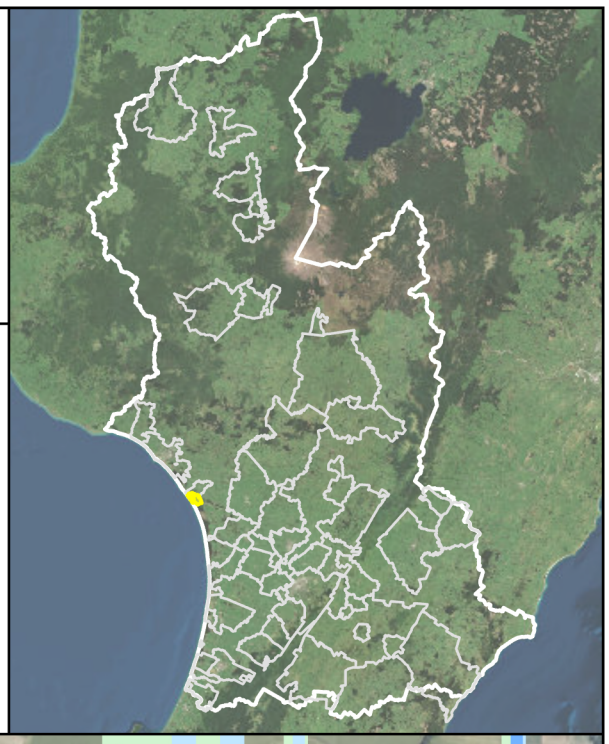
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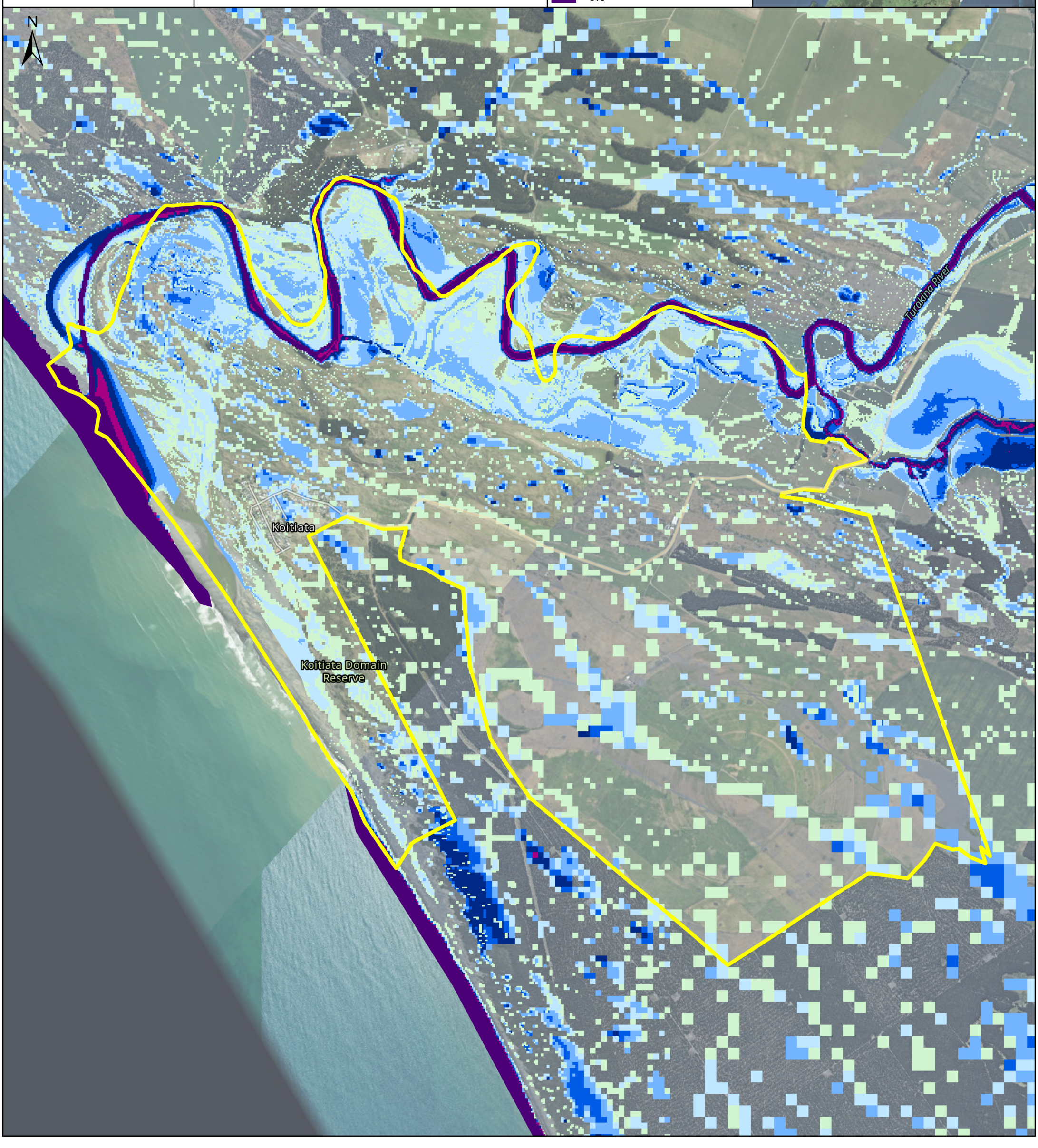
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Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

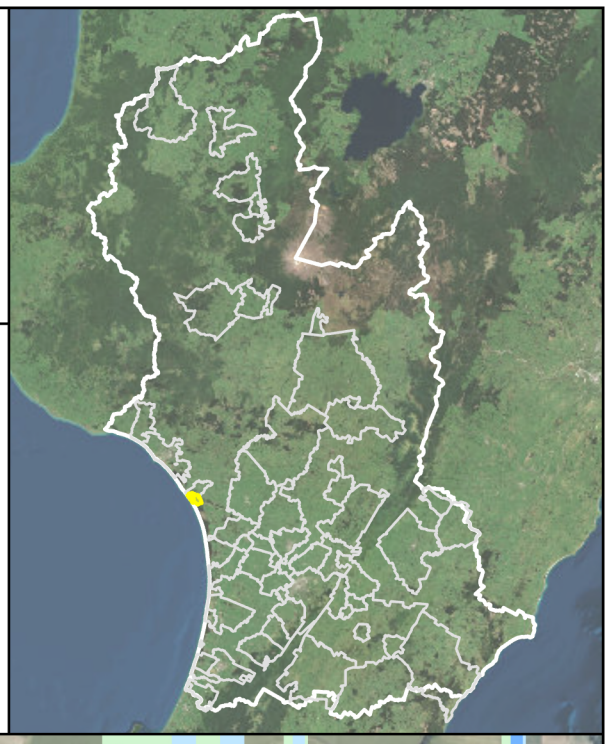
0 0.5 1 Km

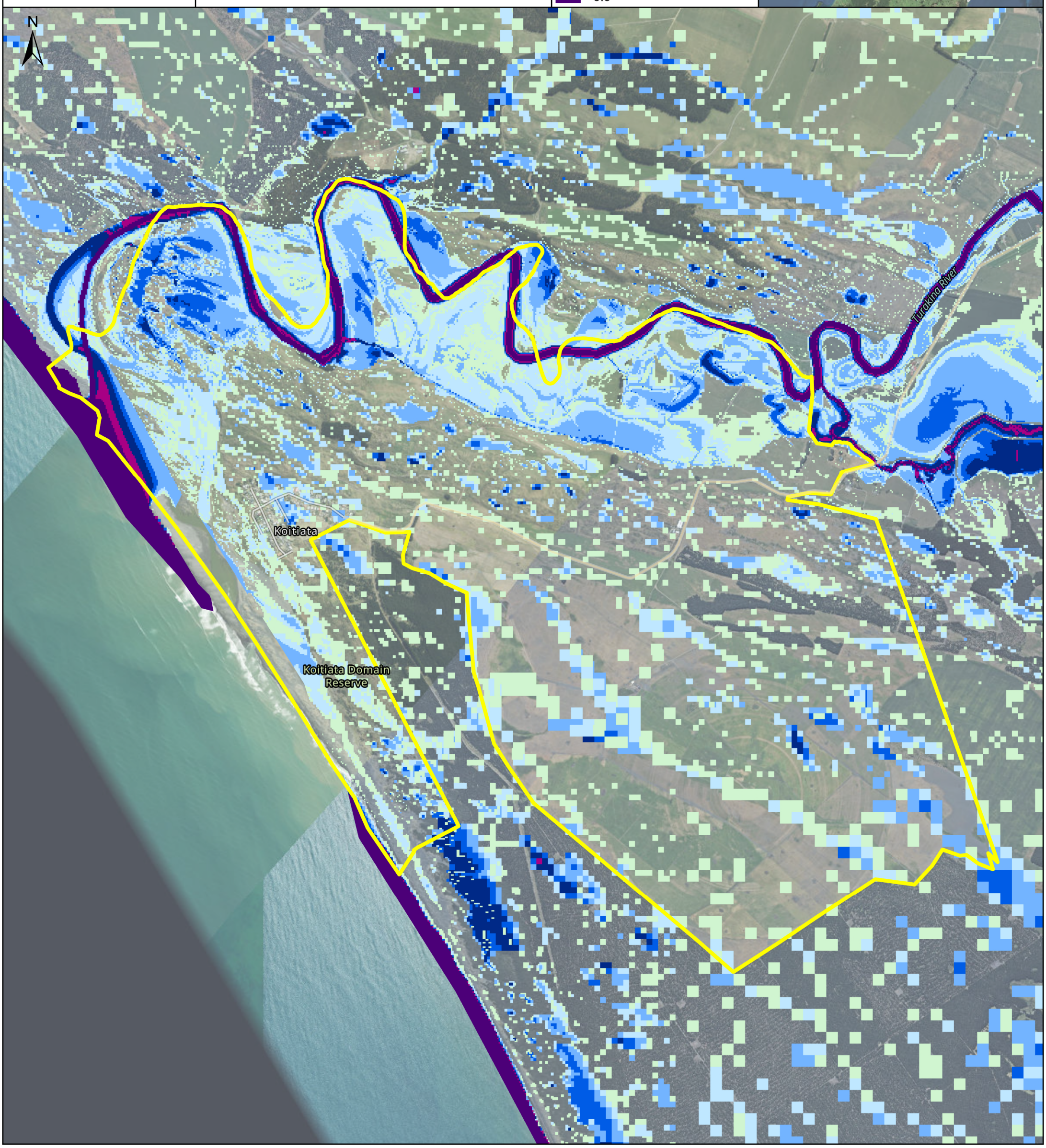
Legend

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Flood Depth (m)

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Horizons Region Flood Vulnerability Assessment

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

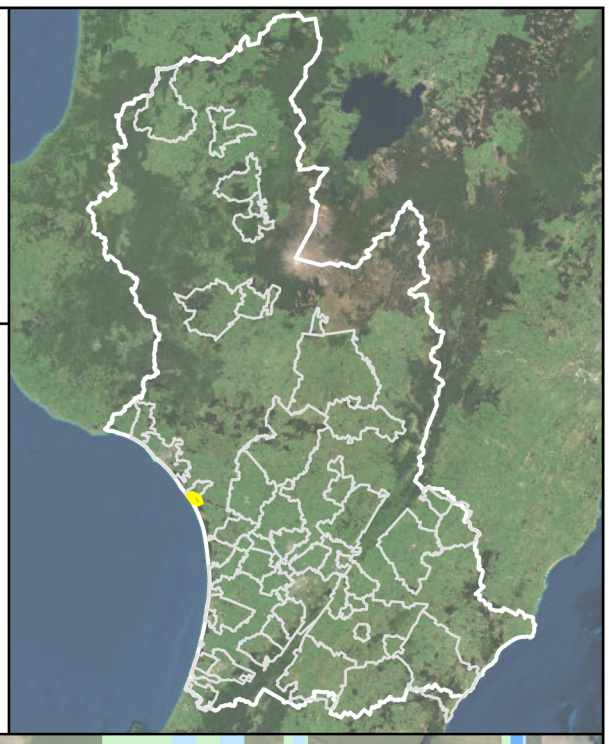
Community
Koitiata,
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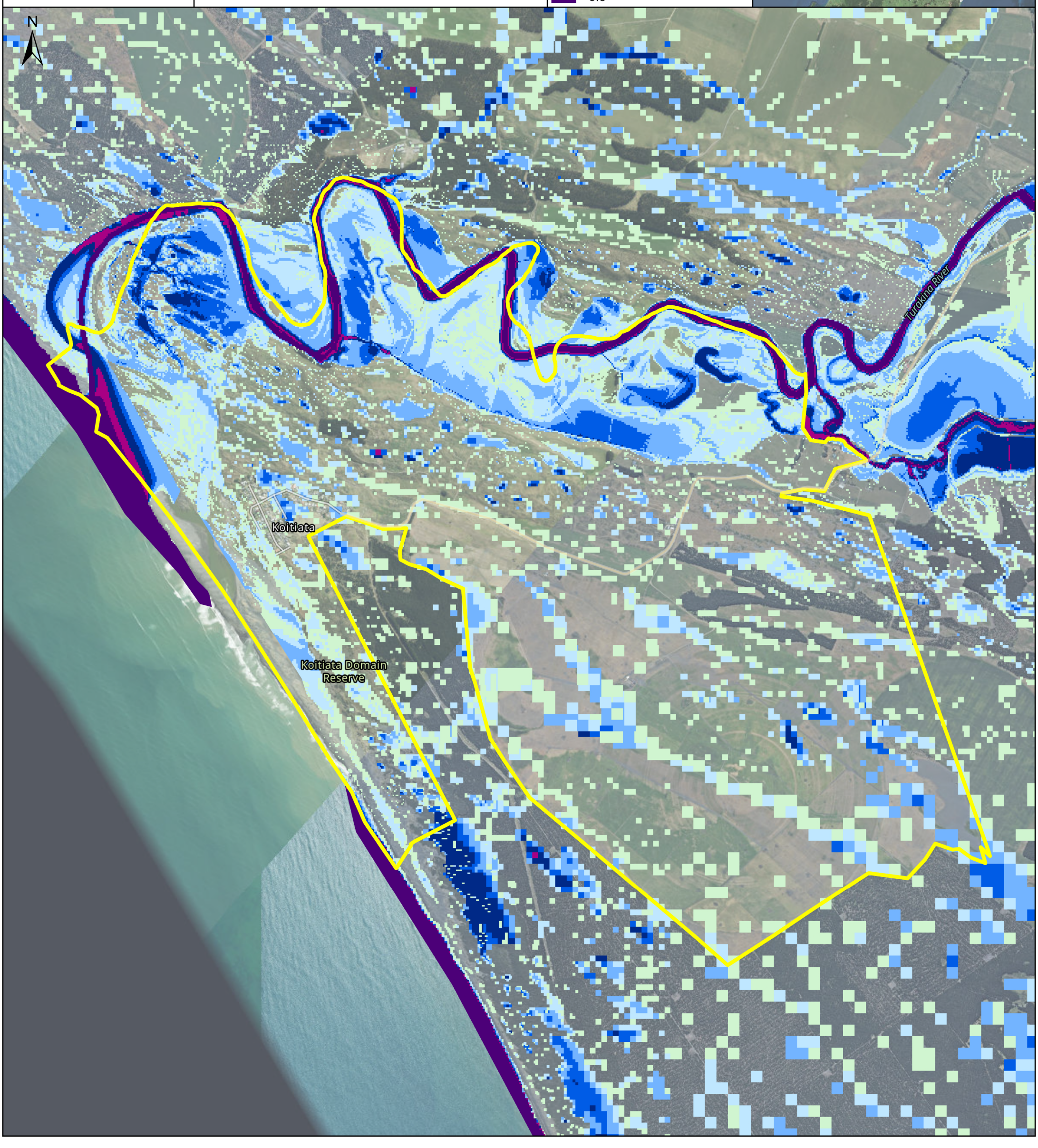
Scale 1:20,000 at A3

0 0.5 1 Km

Legend
- Community Boundary

Flood Depth (m)
- 0.05 - 0.20
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Flood scenario: 0.5% annual exceedance probability, flood defences up, 3 degrees warming due to climate change, sea level rise included

Community
Koitiata,
Rangitikei District

Scale 1:21,000 at A3

0 0.5 1 Km

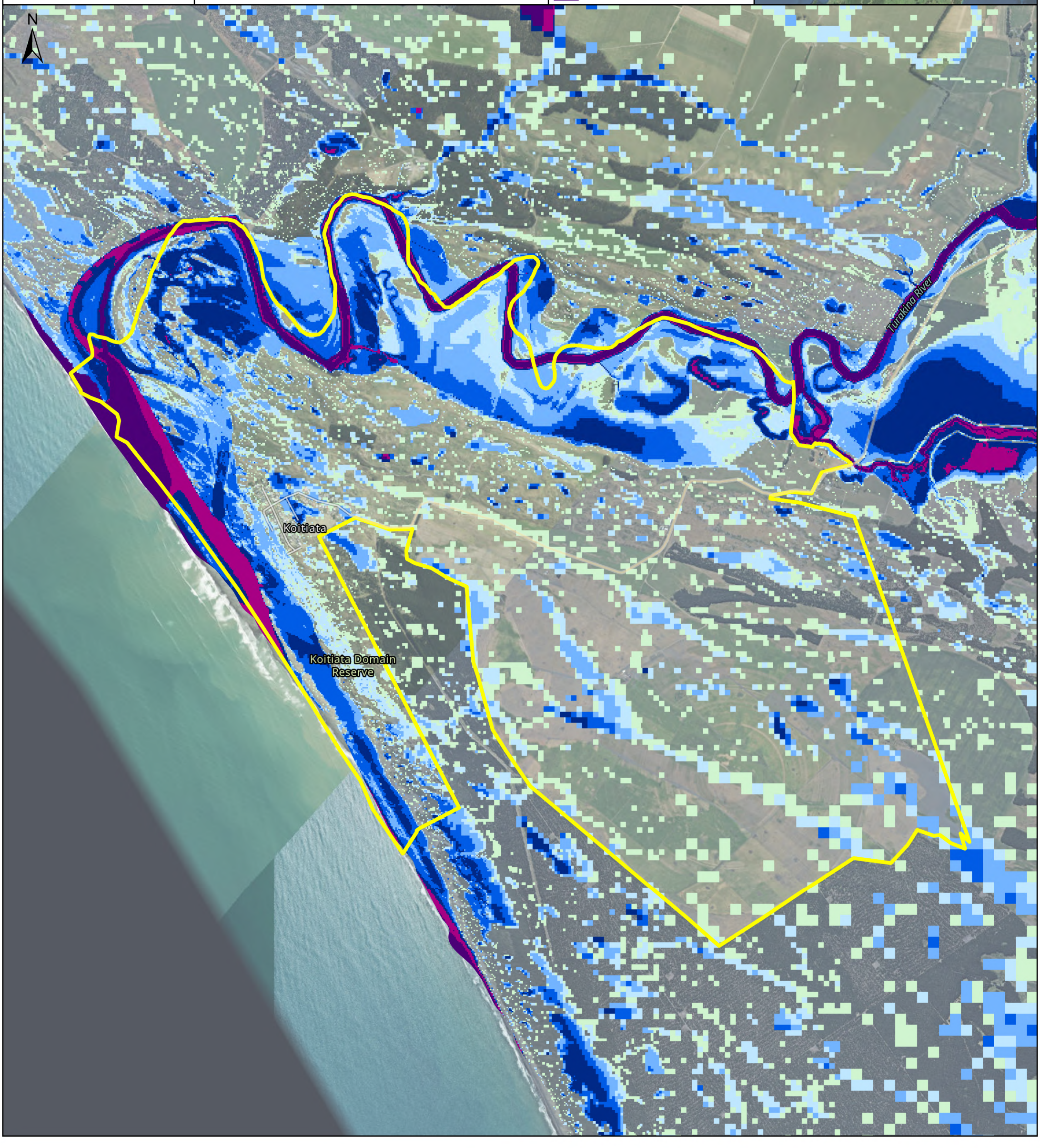
Legend

- 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
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NIWA Taihoro Nukurangi

Prepared On
05/08/2025

Horizons Region Flood Vulnerability Assessment

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

Community
Koitiata,
Rangitikei District

Scale 1:21,000 at A3

0 0.5 1 Km

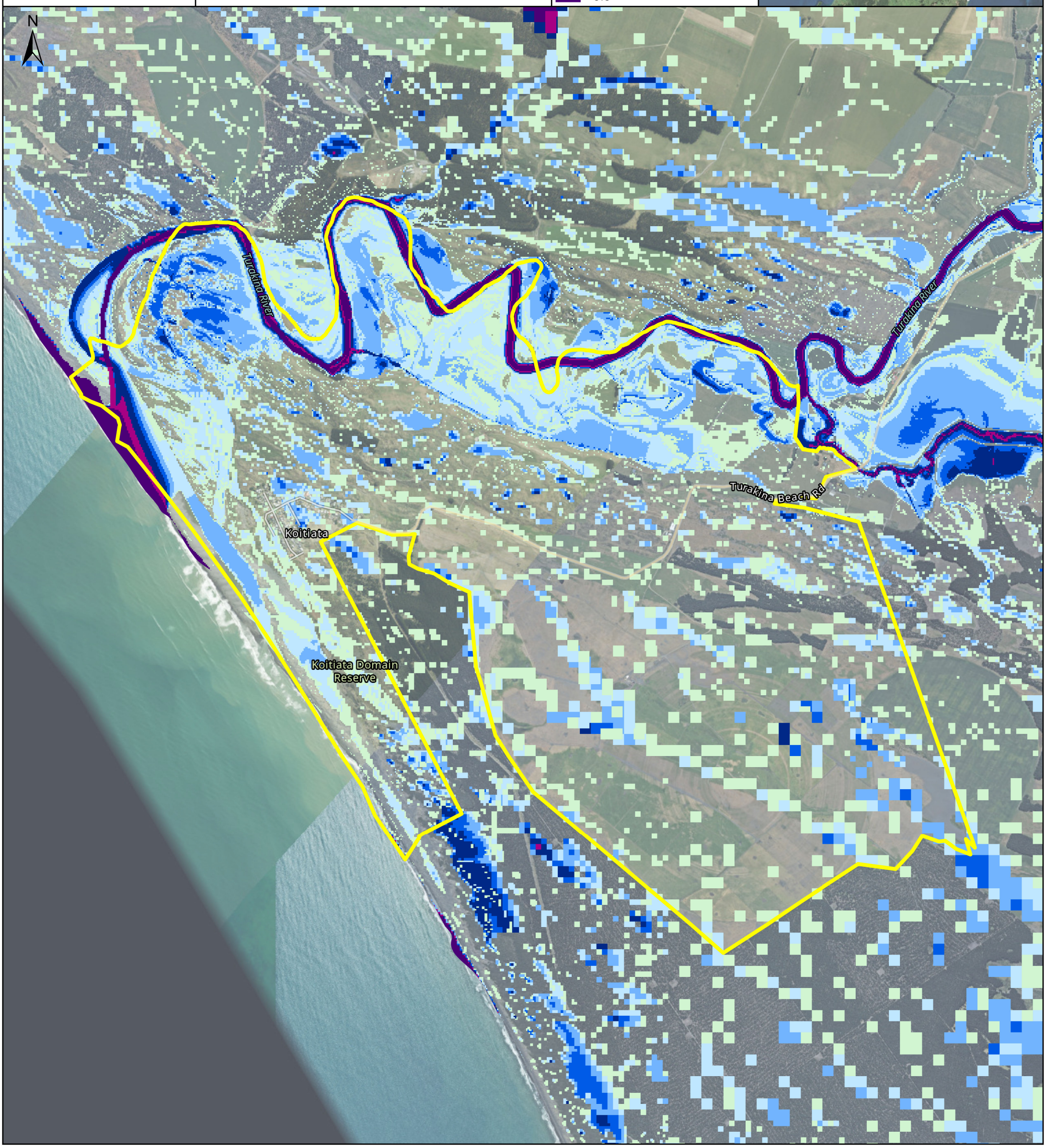
Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
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- 0.5 - 1.0
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Community
Koitiata,
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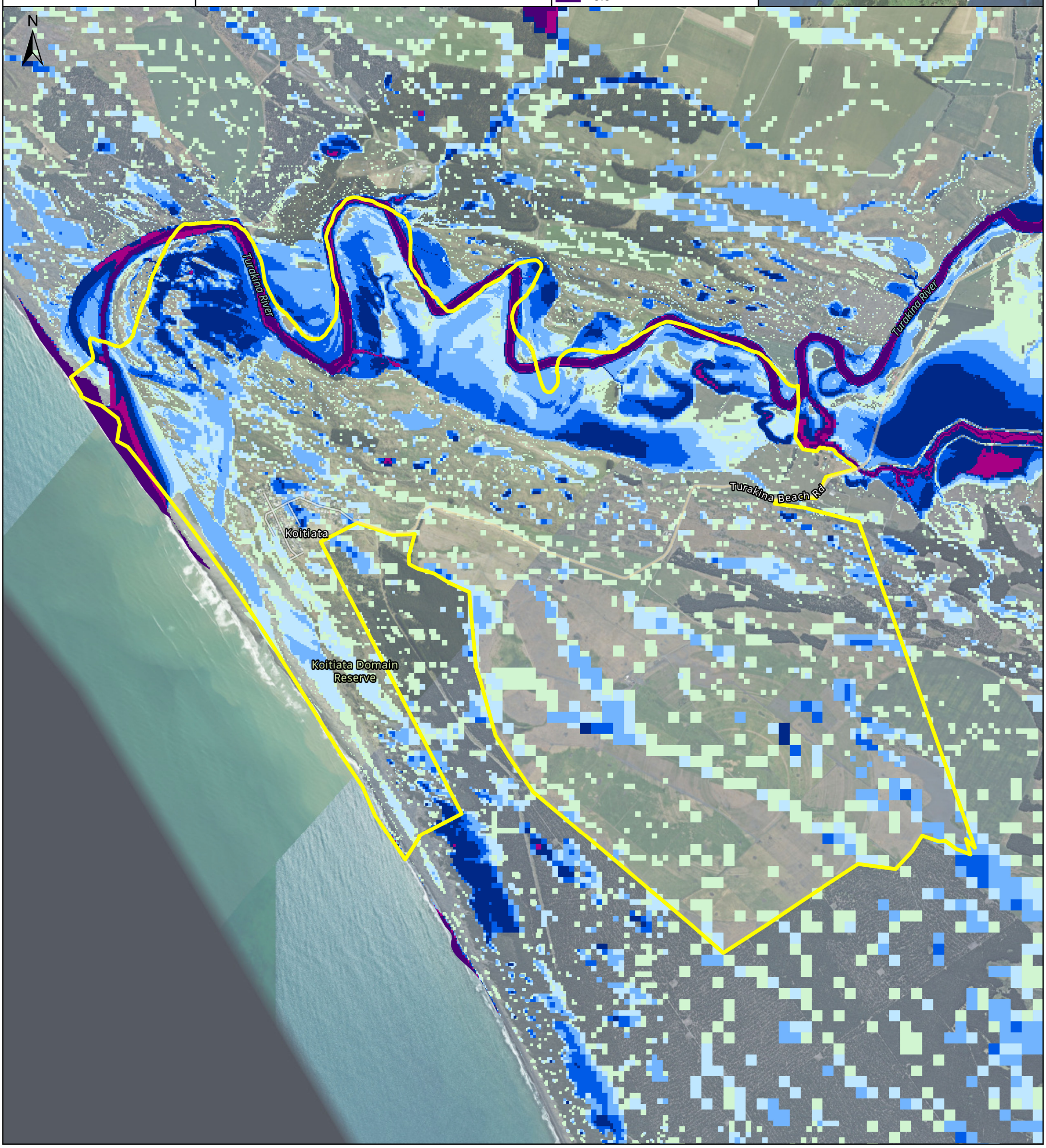
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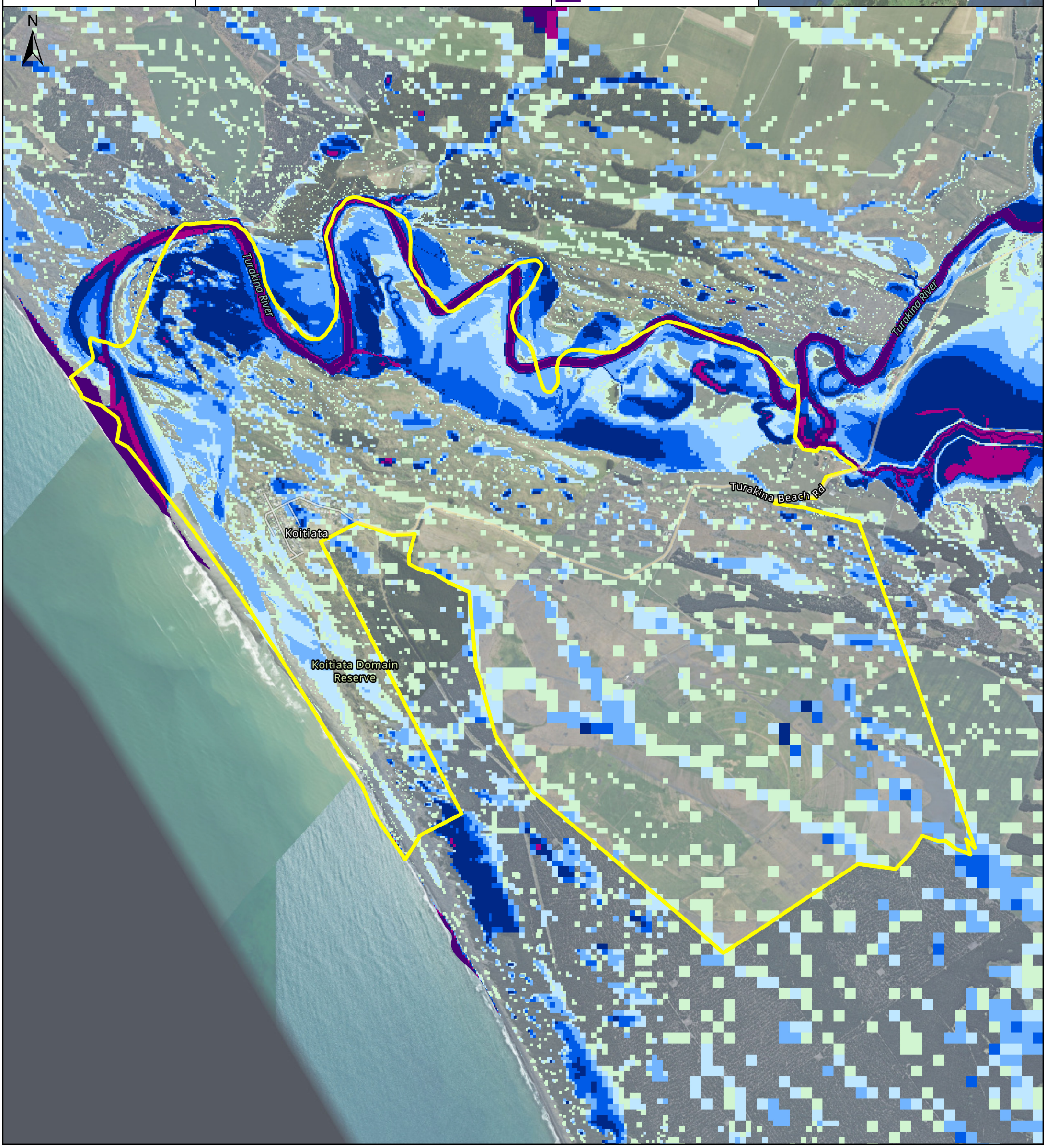
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Koitiata,
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Scale 1:21,000 at A3

0 0.5 1 Km

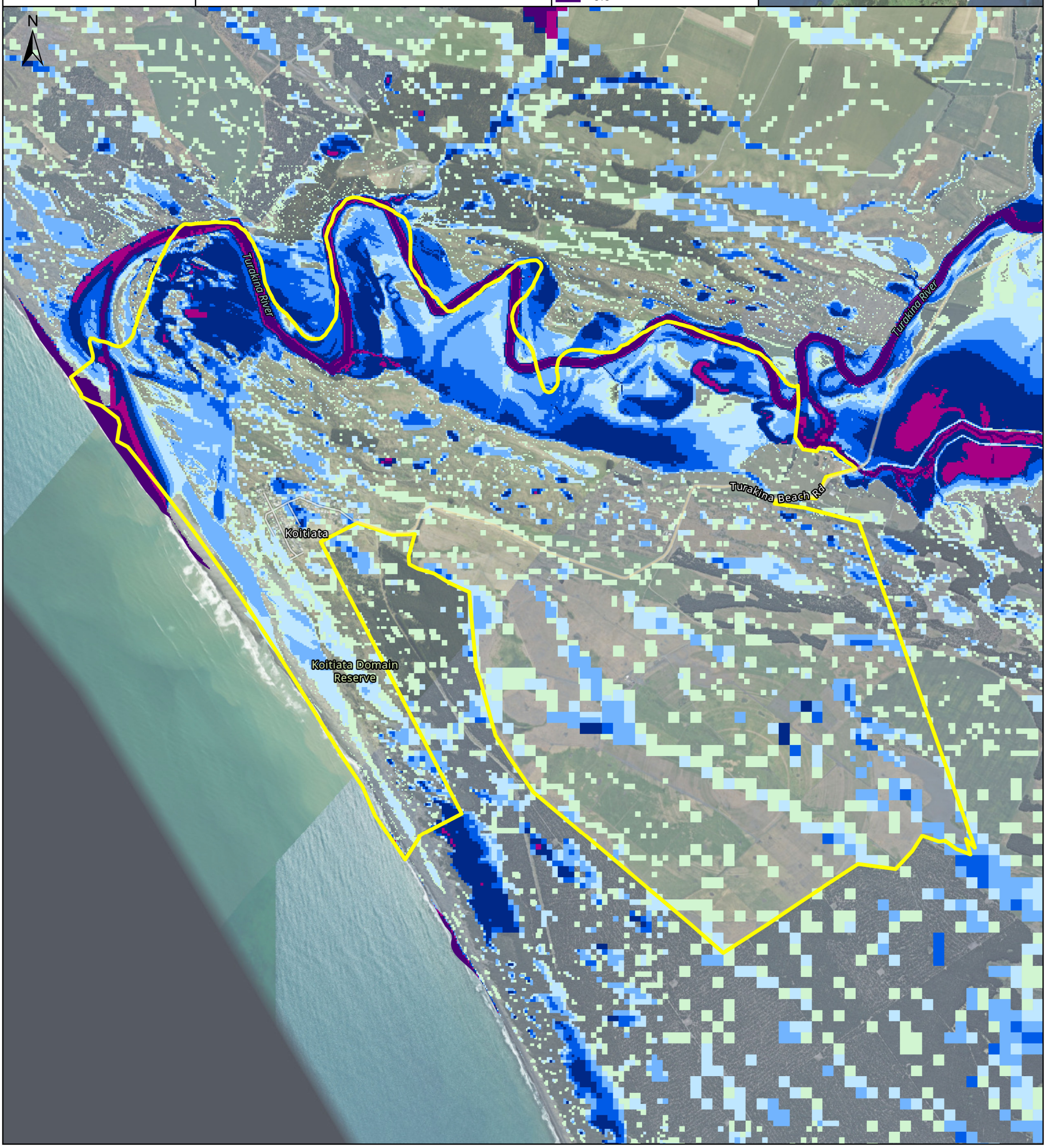
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05/08/2025

Horizons Region Flood Vulnerability Assessment

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

Community
Koitiata,
Rangitikei District

Scale 1:21,000 at A3

0 0.5 1 Km

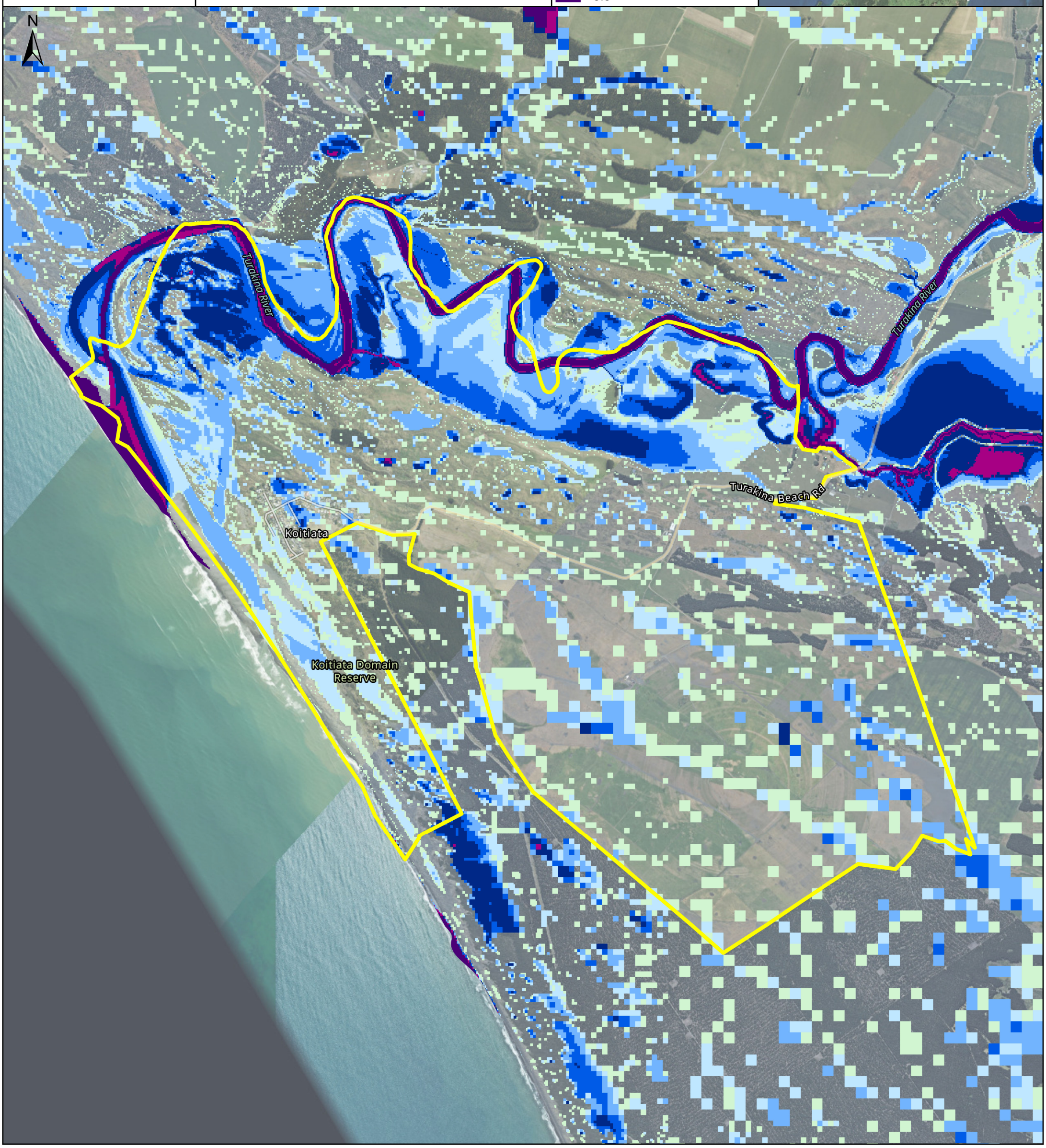
Legend

- 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





Prepared For

horizons REGIONAL COUNCIL

Prepared By

wsp

NIWA Taihoro Nukurangi

Prepared On
05/08/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 1 degree warming due to climate change, sea level rise excluded

Community
Koitiata,
Rangitikei District

Scale 1:21,000 at A3

0 0.5 1 Km

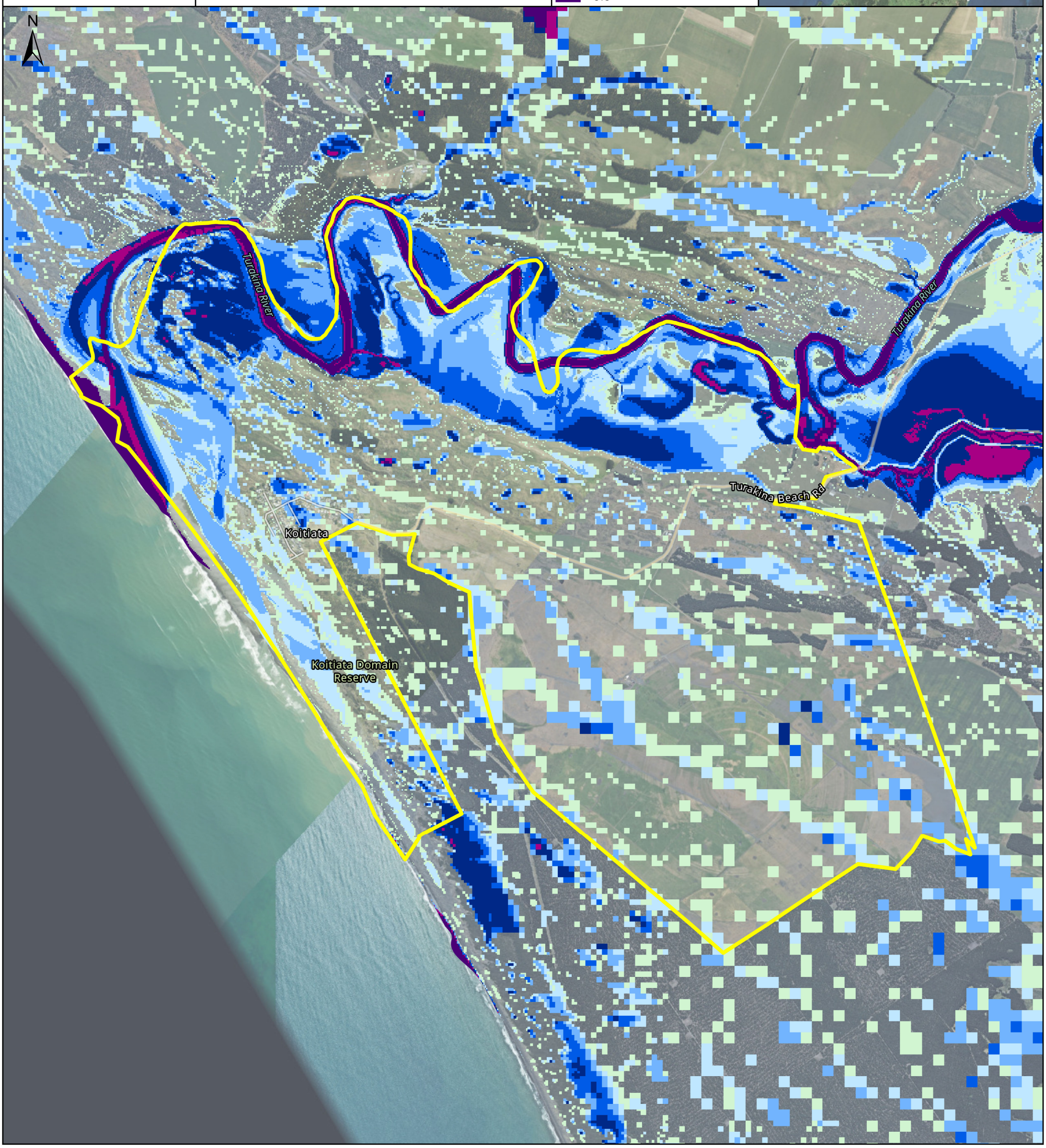
Legend

- 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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Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 2 degrees warming due to climate change, sea level rise excluded

Community
Koitiata,
Rangitikei District

Scale 1:21,000 at A3

0 0.5 1 Km

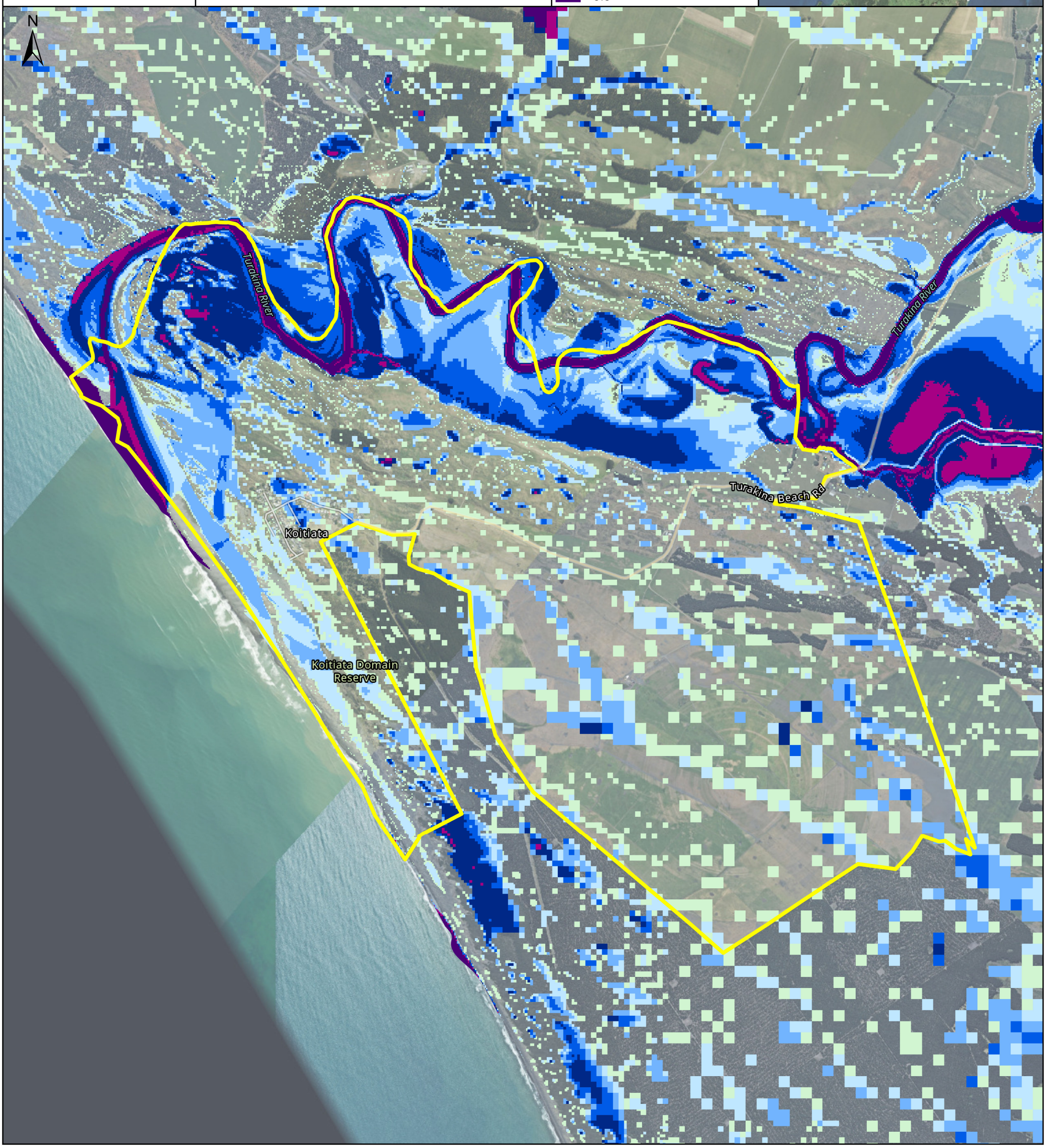
Legend

- 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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Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 3 degrees warming due to climate change, sea level rise excluded

Community
Koitiata,
Rangitikei District

Scale 1:21,000 at A3

0 0.5 1 Km

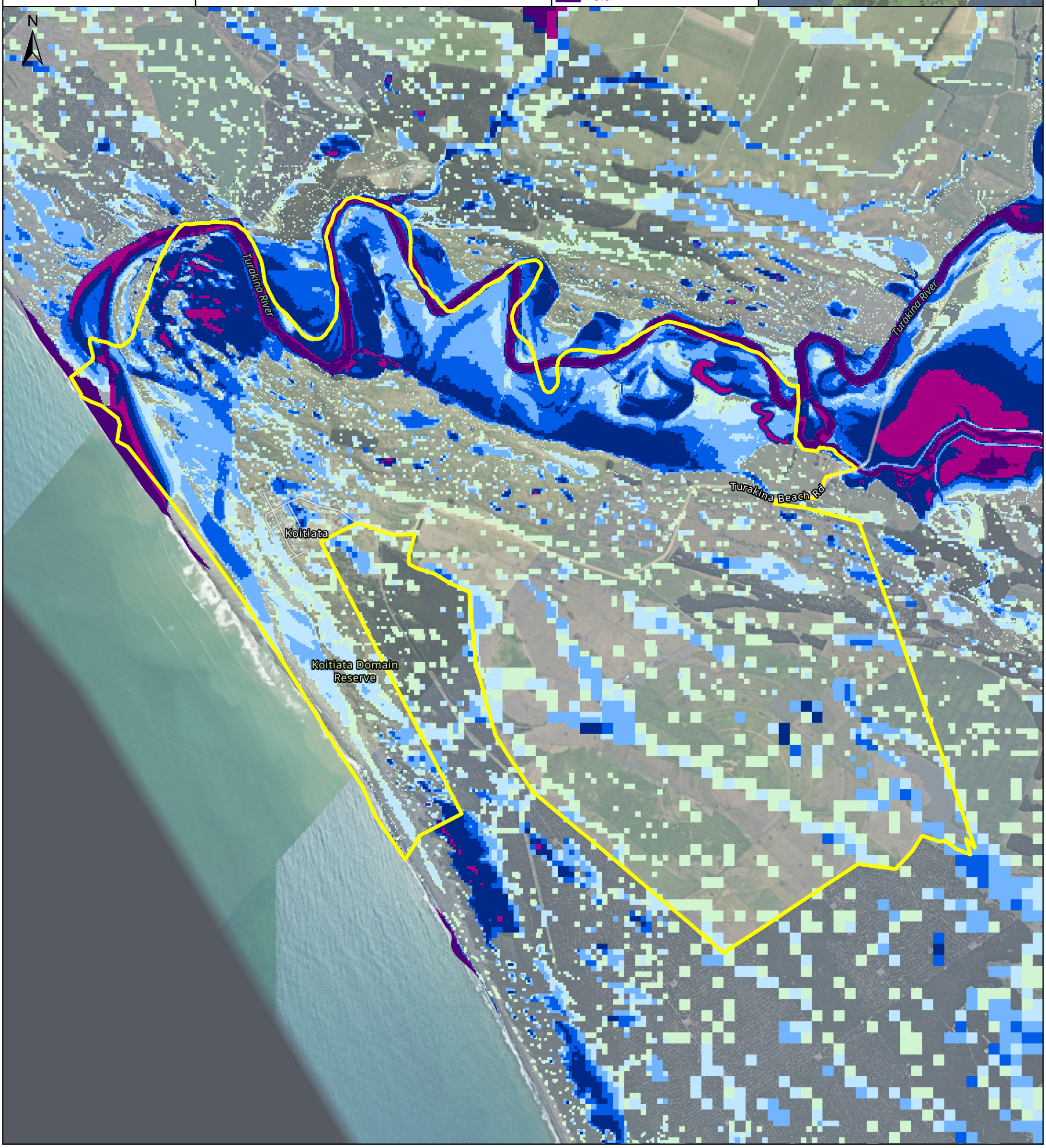
Legend

- 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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Horizons Region Flood Vulnerability Assessment

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

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

0 0.5 1 Km

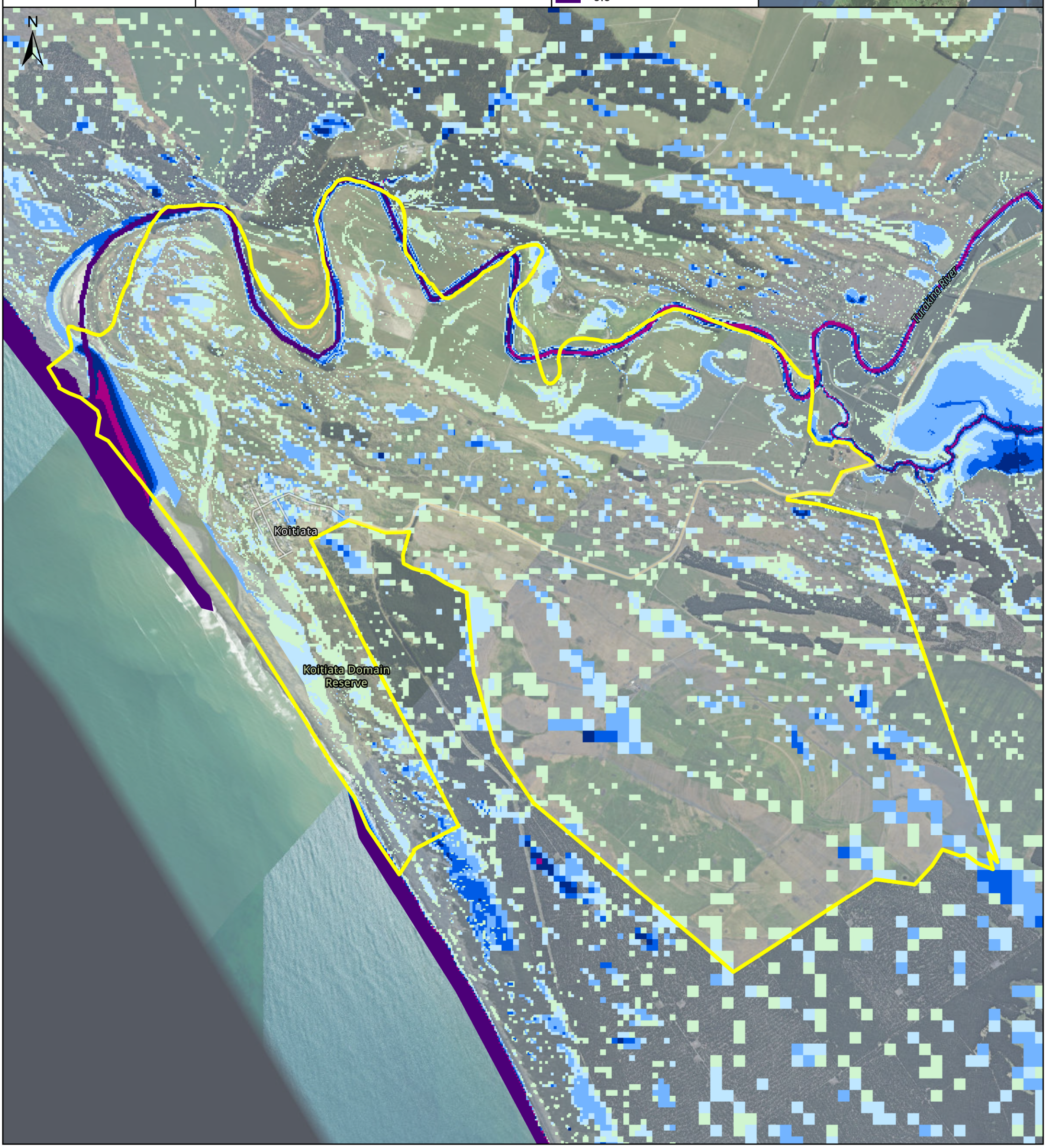
Legend

- 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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Horizons Region Flood Vulnerability Assessment

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

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

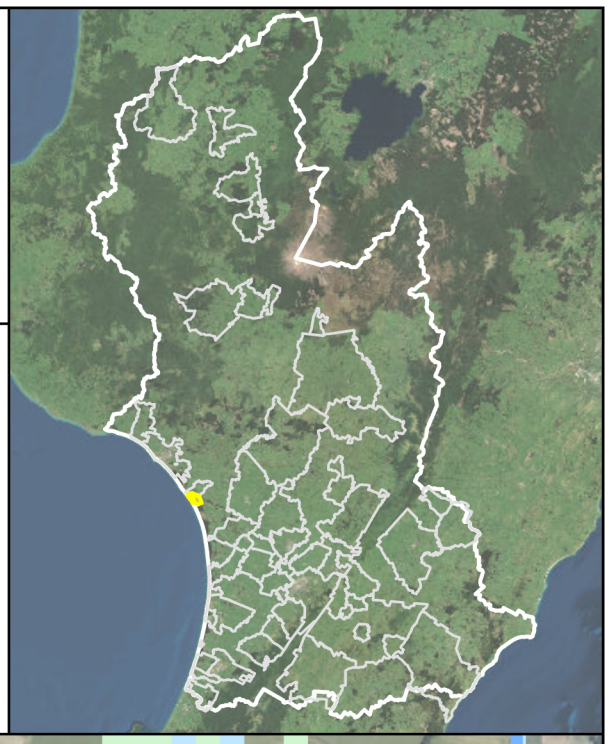
0 0.5 1 Km

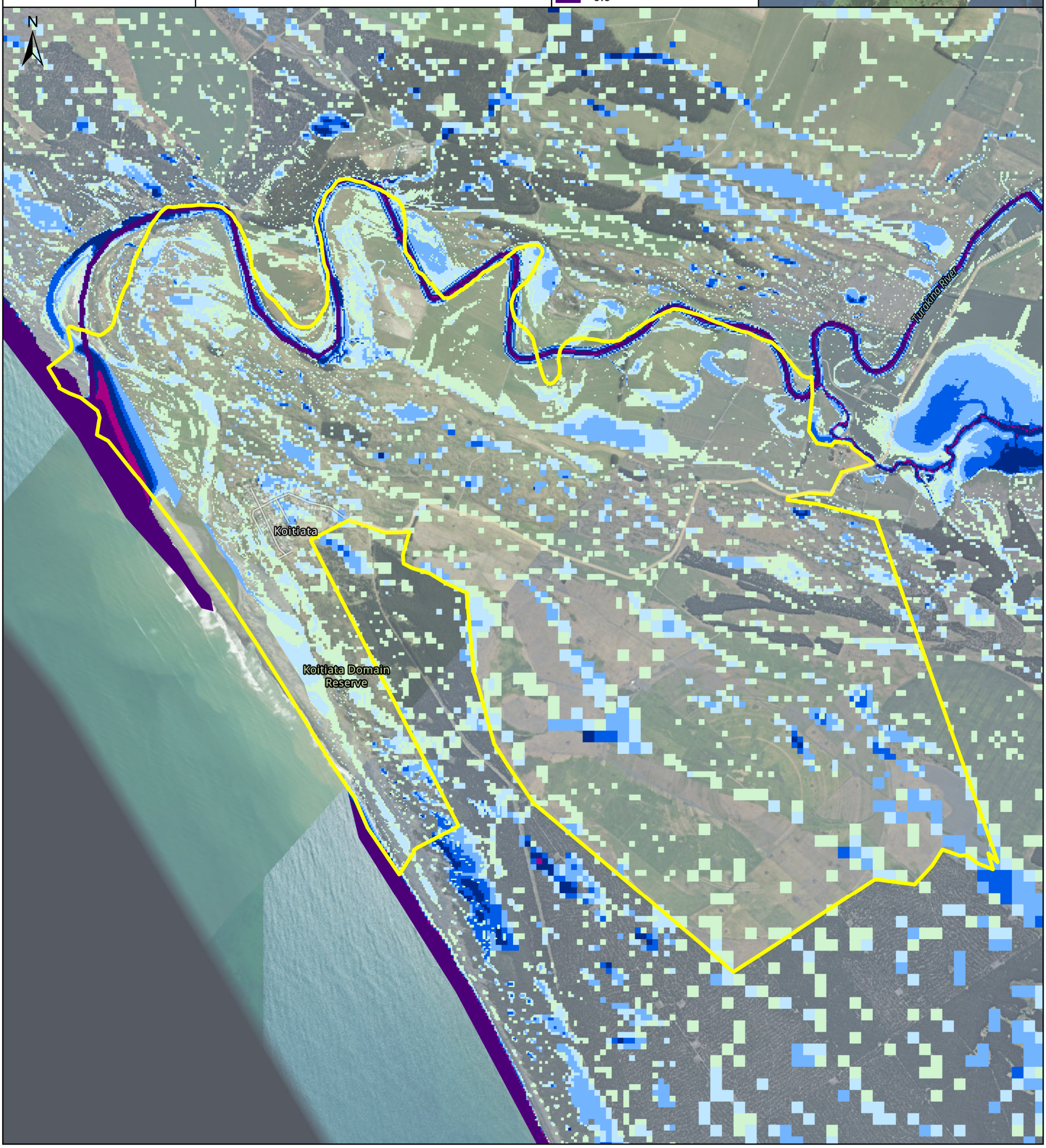
Legend

- 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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Horizons Region Flood Vulnerability Assessment

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

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

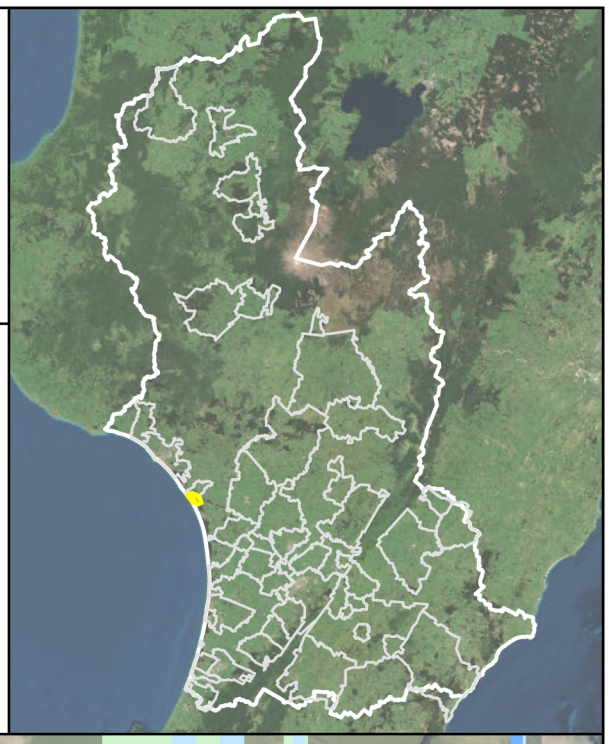
0 0.5 1 Km

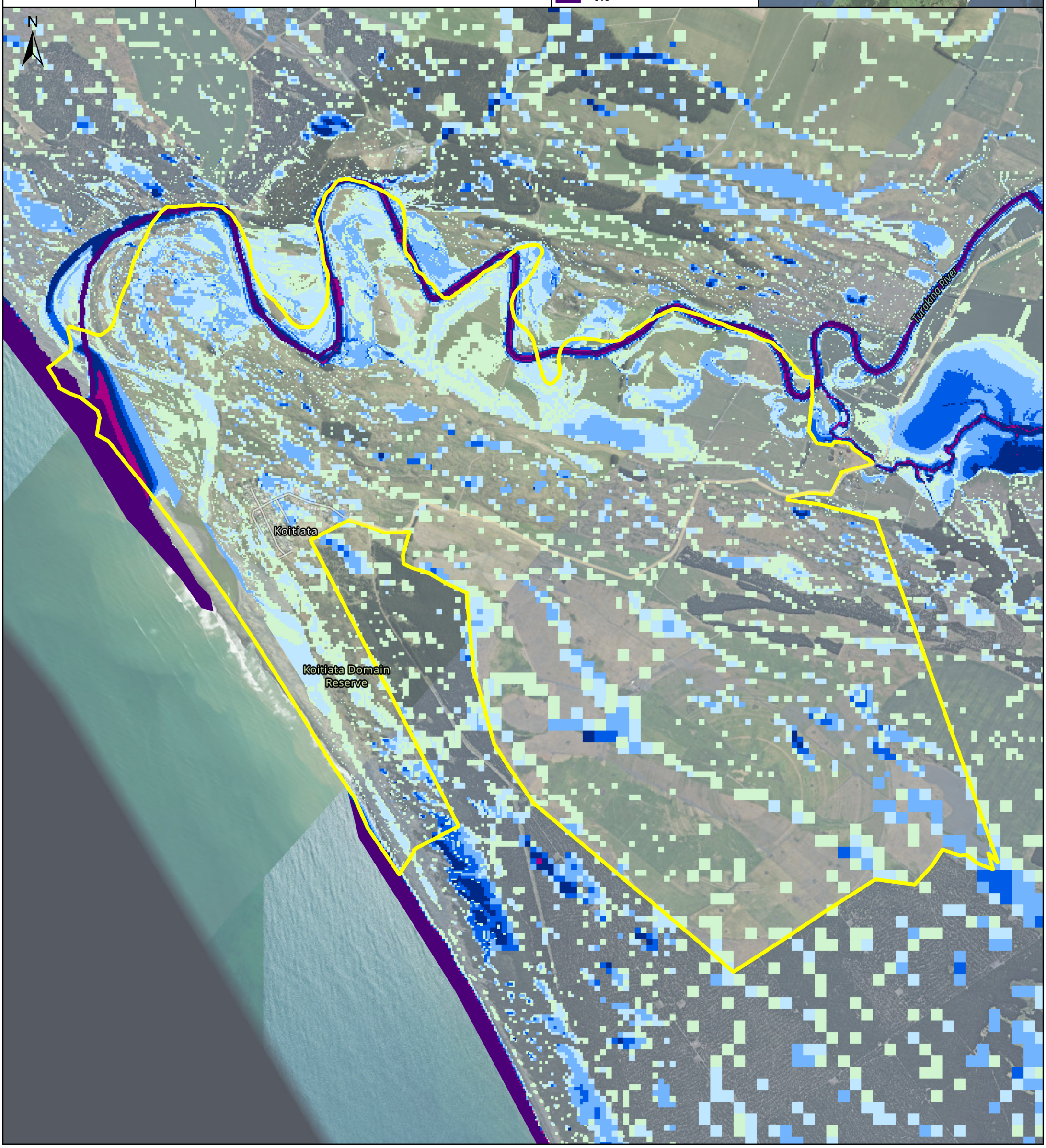
Legend

- 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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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
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

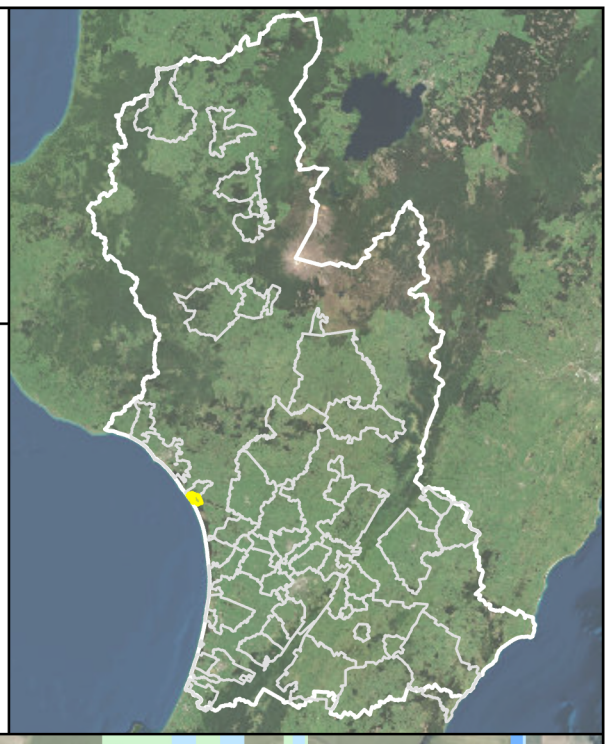
0 0.5 1 Km

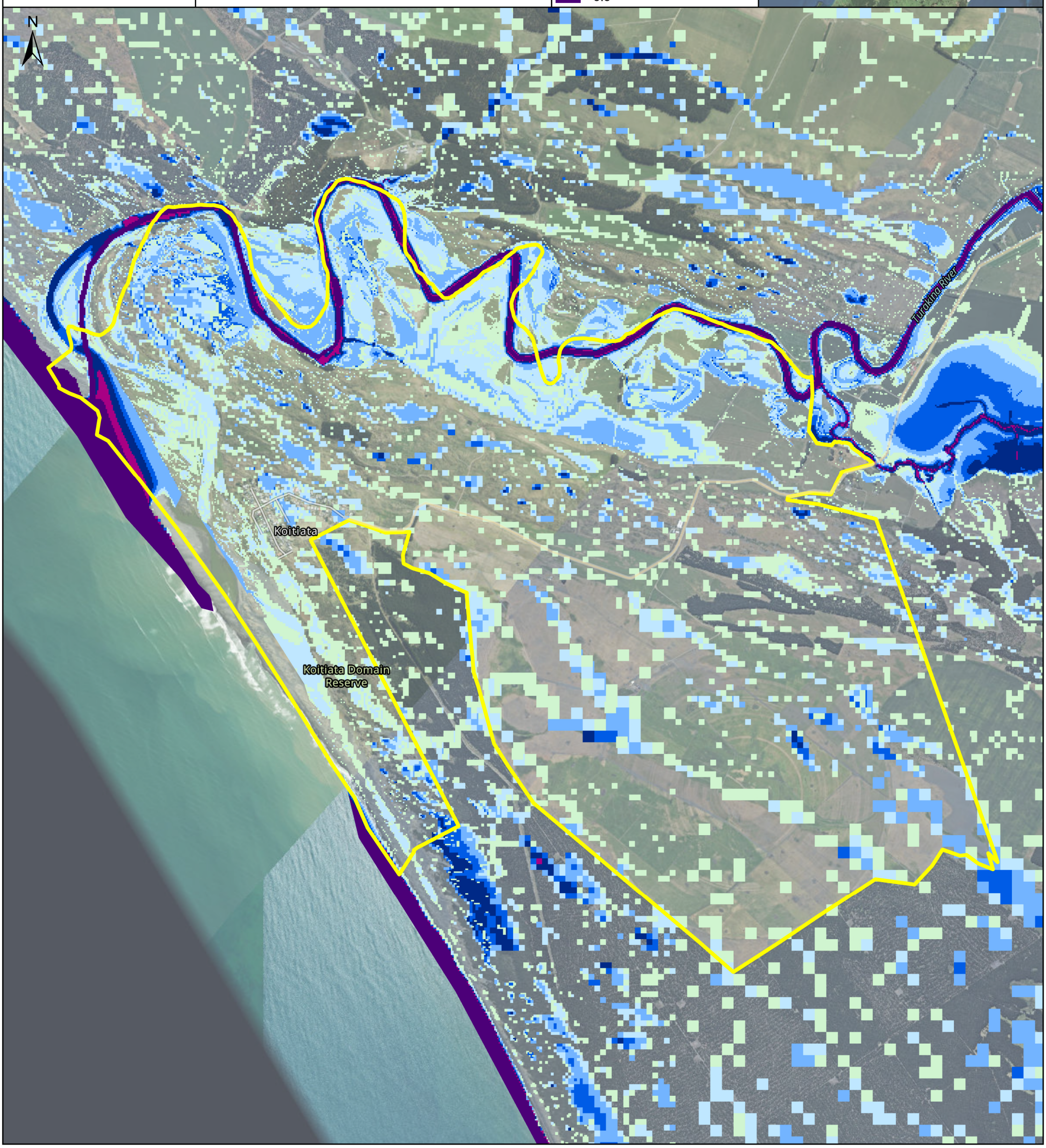
Legend

- Community Boundary

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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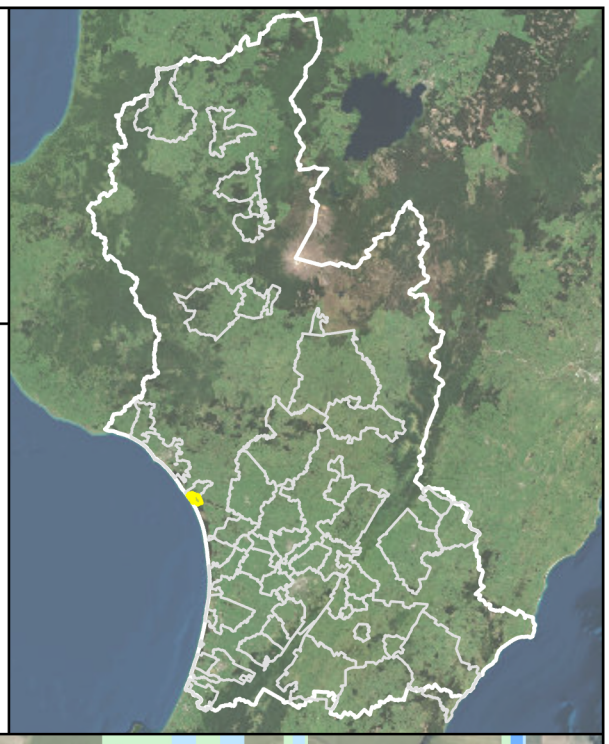
0 0.5 1 Km

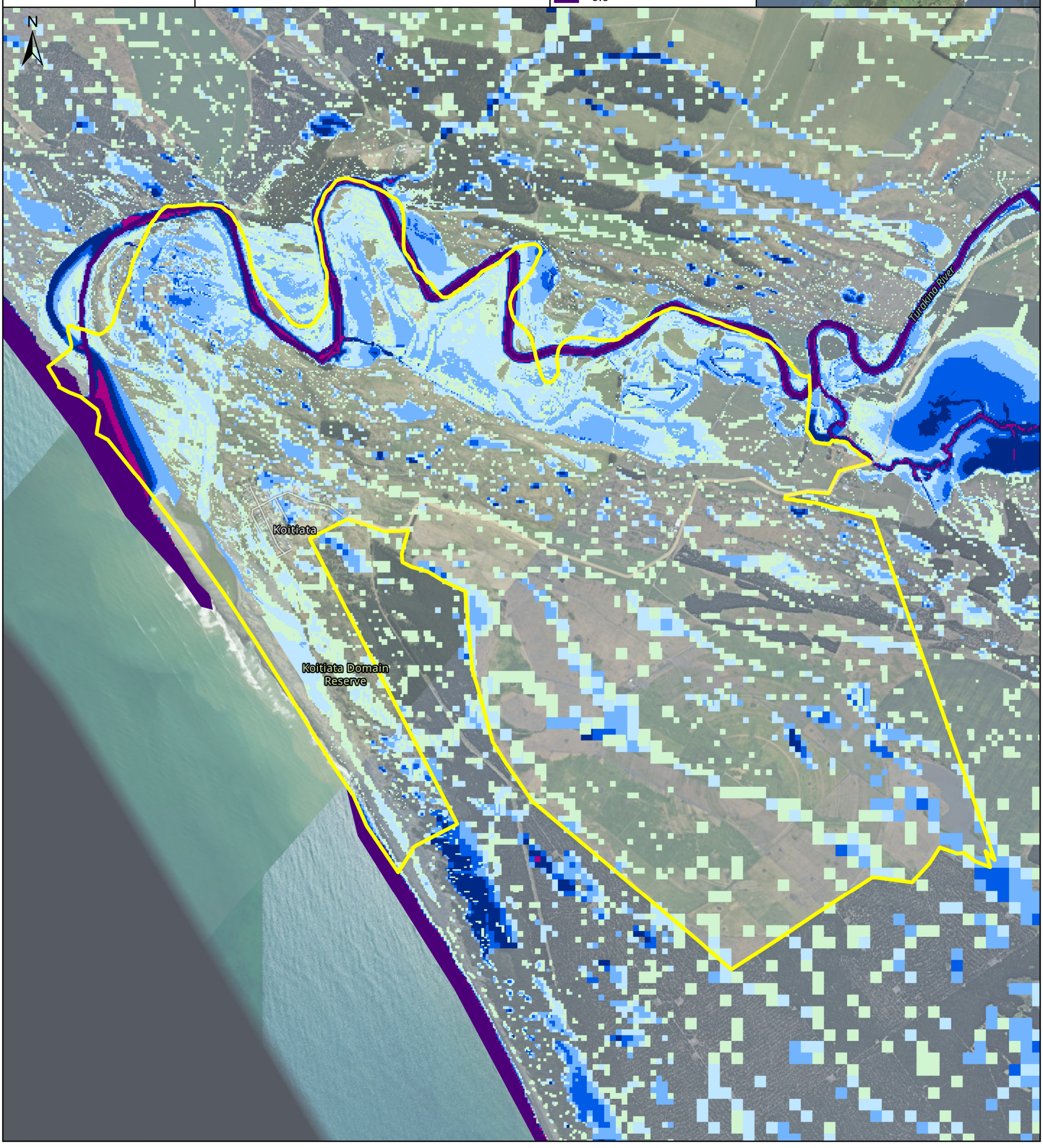
Legend

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Scale 1:20,000 at A3

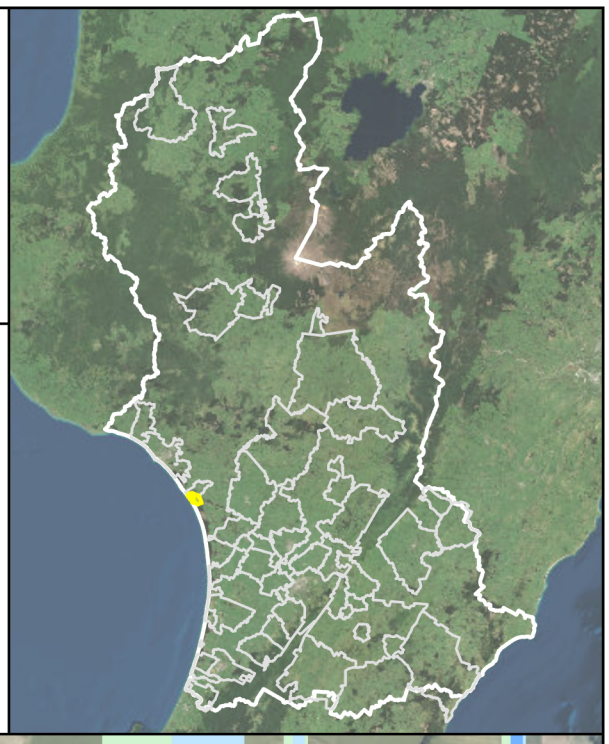
0 0.5 1 Km

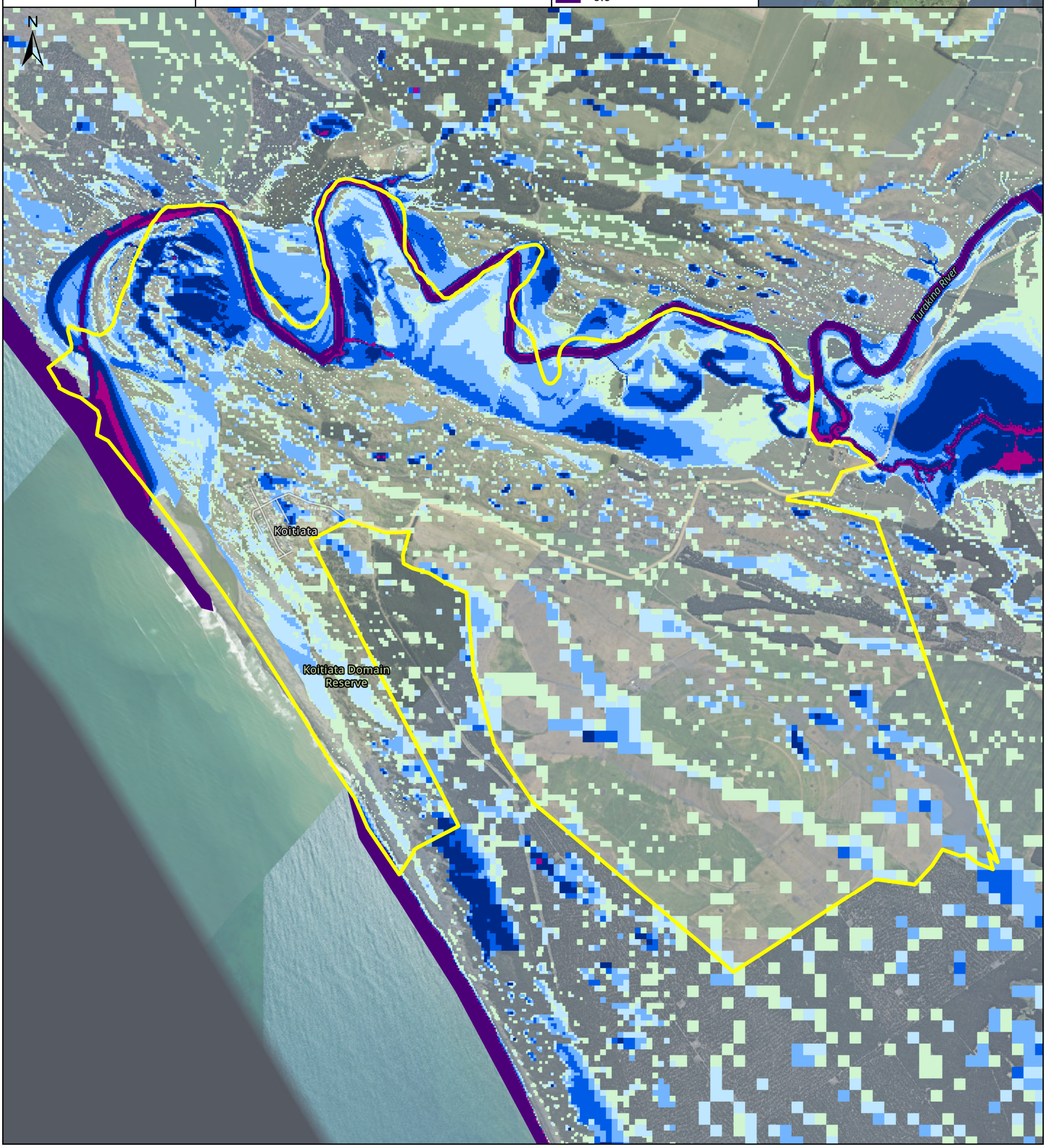
Legend

- Community Boundary

Flood Depth (m)

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

Community
Koitiata,
Rangitikei District

Scale 1:20,000 at A3

0 0.5 1 Km

Legend

- Community Boundary

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