



## Appendix A

### Site Inspection Photographs



**Allandale Road Underpass**



**Tuckers Lane Causeway**





**Bell Street, Greta**





**Station Street Causeway Outlet**





**Nelson Street Culverts**





## Appendix B

Hydraulic  
Photographs

Structure

Survey



Allandale Road Culverts



Dimensions: 1 x 2.4m wide x 0.6m high box culvert



**Anvil Street Culverts**



Dimensions: 3 x 1.2m wide x 0.75m high box culverts



**Maitland Street Culverts**



Dimensions: 4 x 0.6m diameter pipes



**Nelson Street Culverts**



Dimensions: 2 x 2.1m wide x 1.8m high box culverts and 1 x 2.1m wide x 1.9m high link slab



**Tuckers Lane Culverts**



Dimensions: 2 x 0.9m diameter pipes



**Tuckers Lane/Hunter Expressway Culverts**



Dimensions: 2 x 0.9m diameter pipes



## Appendix C

Community and Stakeholder  
Engagement Plan



An aerial photograph of the Cessnock area, Australia, overlaid with a flood risk map. The map uses a color scale where blue indicates low risk, green indicates medium risk, yellow indicates high risk, and red indicates very high risk. A large, prominent red area is visible on the left side of the map, near a body of water. The surrounding urban and suburban areas are mostly green and yellow. A solid yellow rectangular block is positioned in the top left corner of the page.

# Engagement Plan

Prepared by Tom L. Griffiths

## Black Creek Stage 2 & Greta Flood Risk Management Study & Plan

Email: [tom.griffiths@cessnock.nsw.gov.au](mailto:tom.griffiths@cessnock.nsw.gov.au)

Tel: 4993 4100

62-78 Vincent St Cessnock 2325



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# ABOUT THE PROJECT

Project Name:

Black Creek Stage 2 & Greta Floodplain Risk Management Study & Plan (FRMSP)

**Grant Reference(s):** Black Creek Stage 2 FRMSP: 2021/FMP/0065  
Greta FRMSP: 2021/FMP/0095

**Funding Source:** 2021-22 Floodplain Management Program

**Funding Ratio:** 2:1  
Department of Planning & Environment DPE : Council

**Council Project Lead:** Phillip Townsend

**DPE Regional Representative** Phillip Buchanan

**Community Engagement Lead:** Tom Griffiths

**Consultant:** Rhelm PTY LTD.

**Rhelm Project Lead:** Joel Fraleigh

**Communications Advisor:** Tom Griffiths

**Content Manager References:** Black Creek Stage 2 FRMSP: SIF22/6  
Greta FRMSP: SIF22/7  
This Document: DOC2022/197932 COL22/14119

**Engagement Plan date and version:** 14/12/2022 V.1

**Has this engagement plan been signed off by the project sponsor?** ☐ Yes ☐ No

# PROJECT CONTEXT

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## Local, regional, national or international trends

- Floodplain Risk Management
  - Climate Change Adaptation
  - Heightened awareness and alert of natural disaster impact
  - Large population growth within floodplain areas, e.g. Huntlee
- 

## Community context

- Significant community consultation required throughout the development of the FRMSPs
  - Some areas have a significant flash flood risk, e.g. Central Greta
  - April 2015 Flood Event - the Greta Flood Study (2019) identified 18 homes that experienced over floor flooding including a house in Sale Street that was washed off its foundations
  - Subsequent flood events occurred during 2021-2022 again resulting in over floor flooding
  - Access and isolation issues and ensuing economic impacts due to low set causeways and/or bridges
- 

## Organisational context

- Ongoing management of a significant number of flooding and or drainage related customer complaints from within both catchments
  - FRMSPs inform future grant application processes and floodplain management capital works programs
- 

## Decision-makers and leaders' context

- FRMSPs are to be formally adopted at project completion
- Governance provided by Council's Floodplain Risk Management Committee comprised of the Mayor, Councillors, Executive Leadership Team, DPE, Emergency Services (SES), Hunter Water and community representatives which endorse decisions and recommendations made.



# PROJECT SCOPE

<p><b>+</b> <b>Negotiables</b></p> <p>Can suggest and provide feedback on potential flood modification options</p>	<p><b>—</b> <b>Non-Negotiables</b></p> <p>Flood modification options must be affordable and practicable to implement</p>
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## Project Statement(s)

To reduce the impacts of existing flooding and flood liability through the identification of flood risk management strategies informed by:

- Flood behaviour/patterns
- Social, ecological, economic factors
- The Floodplain Development Manual and local/state government planning policies

To develop robust and achievable FRMSPs to manage flood risk through the investigation of various structural, property, and response modification options.

## Stakeholders

### Internal Stakeholders

- Councillors
- Executive Leadership Team (ELT)
- Floodplain Management Committee
- Strategic Planning
- Development Services
- North Area Maintenance
- Customer Service
- Communications and Engagement
- Community Recovery Officer

### External Stakeholders

- NSW Government (Department of Planning and Environment) (DPE)
- Local Community
- Key Local Community Groups
- Developers
- News Media
- State Emergency Services (SES)
- Local Aboriginal Lands Council (LALC) & Traditional Owner groups
- Environment groups (Landcare)
- Visitors and tourists to the region
- Utility and Service Providers

## Stakeholder Analysis



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**NB:** The above stakeholder analysis is a useful snapshot of the key stakeholders. Each stakeholder group requires targeted engagement and communications strategies.

# STAKEHOLDER ANALYSIS TABLE

Stakeholder group	Connection to the project	Level of interest (H, M, L and what interests them)	Level of impact (H, M, L and how impacted)	Level of influence they expect (IAP2 spectrum)
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## Primary Stakeholders

<ul style="list-style-type: none"> <li>Councillors</li> </ul>	<ul style="list-style-type: none"> <li>Councillors regularly consult with community and can promote the FRMSP and its management actions</li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>NSW Government (DPE)</li> </ul>	<ul style="list-style-type: none"> <li>Funding body of modification options</li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>Local community and Key Local Community Groups</li> </ul>	<ul style="list-style-type: none"> <li>Directly impacted during flood events</li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> <li>Level of impact</li> <li>Mitigation methods</li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>Council Staff</li> </ul>	<ul style="list-style-type: none"> <li>Are responsible in developing and promoting the FRMSP</li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> <li>Impact to residents</li> <li>Impacts on development</li> <li>Budget impacts of mitigation methods</li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>State Emergency Service</li> </ul>	<ul style="list-style-type: none"> <li>Guidance regarding response modification options</li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>Floodplain Management Committee</li> </ul>	<ul style="list-style-type: none"> <li>Governance committee endorses</li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>

Stakeholder group	Connection to the project	Level of interest (H, M, L and what interests them)	Level of impact (H, M, L and how impacted)	Level of influence they expect (IAP2 spectrum)
	decisions and adoption of FRMSPs.			

### Secondary Stakeholders

<ul style="list-style-type: none"> <li>News Media</li> </ul>	<ul style="list-style-type: none"> <li>Interest in local news</li> <li>Communicate key project updates to the local area</li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Low</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> </ul>
<ul style="list-style-type: none"> <li>Developers</li> </ul>	<ul style="list-style-type: none"> <li>FRMSP may enhance further development controls</li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li><b>High</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>Environment groups (Landcare etc.)</li> </ul>	<ul style="list-style-type: none"> <li>Can be consulted to advise on and implement vegetation management options</li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Low</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>
<ul style="list-style-type: none"> <li>Local Aboriginal Lands Council</li> </ul>	<ul style="list-style-type: none"> <li>Tangible and intangible indigenous cultural heritage items of significance.</li> </ul>	<ul style="list-style-type: none"> <li><b>Medium</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Low</b></li> </ul>	<ul style="list-style-type: none"> <li>Inform</li> <li>Consult</li> </ul>

## Other engagement processes and events

Key project leads should identify other engagement projects (current or planned) that are involving the same key stakeholders on a related topic or project. Early notification of the key project milestones and engagement activities (particularly face-to-face engagement) with the engagement lead for those projects should be undertaken and the timeframes documented in the table below.

Engagement process 2023	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<ul style="list-style-type: none"> <li>Hunter Estuary Coastal Management Plan</li> <li>Climate Change Strategy</li> </ul>				Stage 2						Stage 3		Stage 4
				Public Exhibition								

## Community engagement purpose and level of influence

Community engagement purpose(s)	<ol style="list-style-type: none"> <li>To inform the community regarding the flood risk context and potential flood modification options.</li> <li>To seek input from the community and incorporate their local flooding knowledge to inform the study.</li> </ol>
Community engagement goal(s)	<ol style="list-style-type: none"> <li>To work with the community to identify flood risk, develop appropriate flood mitigation works and the appropriate methods to educate the community on how to prepare for a flood event.</li> <li>To inform the local community of the scope of FRMSP.</li> <li>To establish a common understanding of flood risk and how decisions are made by inviting key stakeholders to contribute to the development of the FRMSP.</li> </ol>
↳ Level of influence expected by stakeholders	<ul style="list-style-type: none"> <li>Inform, Consult, Involve</li> </ul>
↳ Level of influence that the FRMSP can provide	<ul style="list-style-type: none"> <li>Inform, Consult</li> </ul>

## 9 Level of influence politicians might support

- Inform, Consult

# COMMUNITY ENGAGEMENT SEQUENCE

○ Project Stage	○ Engagement objective(s)	○ Stakeholders	○ Method selection	○ Responsible
<ul style="list-style-type: none"> <li>Flood Risk Management Study</li> </ul>	<ul style="list-style-type: none"> <li>Inform stakeholders of the Study.</li> <li>Establish stakeholder mailing list.</li> <li>Identify any additional information pertinent to the project.</li> <li>Investigate stakeholder attitudes towards a range of flood modification strategies &amp; mitigation options:               <ul style="list-style-type: none"> <li>Structural</li> <li>Property</li> <li>Response</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Councillors</li> <li>Local Aboriginal Lands Council</li> <li>NSW Government (DPE)</li> <li>Local community</li> <li>Key Local Community Groups</li> <li>State Emergency Services</li> <li>Floodplain Management Committee</li> <li>Developers</li> <li>Utility and service providers</li> </ul>	<ul style="list-style-type: none"> <li>Media release</li> <li>Establish project webpage on Council website.</li> <li>Letter to residents/ key stakeholders</li> <li>Survey</li> <li>Community Sessions (face-to-face/virtual)?</li> <li>Face to face meetings and presentation to the Floodplain Management Committee</li> </ul>	<ul style="list-style-type: none"> <li>Project Lead</li> <li>DPE</li> <li>Community Engagement Officer</li> <li>Cessnock City Council Communications Team</li> <li>Rhelm</li> </ul>
<ul style="list-style-type: none"> <li>Flood Risk Management Plan</li> </ul>	<ul style="list-style-type: none"> <li>Summarises preferred modification strategies.</li> <li>Update on the progress of FRMSP</li> </ul>	<ul style="list-style-type: none"> <li>Local community</li> <li>Local Aboriginal Lands Council</li> <li>NSW Government (DPE)</li> <li>Floodplain Management Committee</li> </ul>	<ul style="list-style-type: none"> <li>Information brochure of progress</li> <li>Website update/ E-news copy</li> </ul>	<ul style="list-style-type: none"> <li>Community Engagement Officer</li> <li>Cessnock City Council Communications Team</li> <li>Rhelm</li> </ul>
<ul style="list-style-type: none"> <li>Exhibition of Study and Plan (&amp; formal adoption)</li> </ul>	<ul style="list-style-type: none"> <li>Provide an opportunity for the community to give feedback on the</li> </ul>	<ul style="list-style-type: none"> <li>Councillors</li> <li>Local Aboriginal Lands Council</li> </ul>	<ul style="list-style-type: none"> <li>Formal Public Exhibition</li> <li>Social Media post/ Media Releases</li> </ul>	<ul style="list-style-type: none"> <li>Council Staff</li> <li>Community Engagement Officer</li> </ul>

○ Project Stage	○ Engagement objective(s)	○ Stakeholders	○ Method selection	○ Responsible
	proposed FRMSP	<ul style="list-style-type: none"> <li>NSW Government (DPE)</li> <li>Local community</li> <li>Key Local Community Groups</li> <li>State Emergency Services</li> <li>Floodplain Management Committee</li> <li>Developers</li> <li>Utility and service providers</li> </ul>	<ul style="list-style-type: none"> <li>Advertisement in the newspaper?</li> <li>Drop-in community information sessions</li> <li>Information postcard (to advertise drop-in session)</li> <li>Frequently Asked Questions (FAQs)</li> </ul>	<ul style="list-style-type: none"> <li>Cessnock City Council Communications Team</li> <li>Rhelm</li> </ul>
<ul style="list-style-type: none"> <li>Implementation</li> </ul>	<ul style="list-style-type: none"> <li>Update on the progress of adopted FRMSP</li> </ul>	<ul style="list-style-type: none"> <li>Councillors</li> <li>Local Aboriginal Lands Council</li> <li>NSW Government (DPE)</li> <li>Local community</li> <li>Key Local Community Groups</li> <li>State Emergency Services</li> <li>Floodplain Management Committee</li> <li>Developers</li> <li>Utility and service providers</li> </ul>	<ul style="list-style-type: none"> <li>Regular updates to the Floodplain Management Committee</li> <li>Consultation Outcomes Report</li> </ul>	<ul style="list-style-type: none"> <li>Council Staff</li> <li>Rhelm</li> </ul>



## Community engagement timeframes

Use the table below to map the timing of the key project stages/steps, community engagement activities and communications required.

You can change the timeframes to be more specific e.g. weeks, if required.

Activities 2023	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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### Community Engagement and Communications Activities

<ul style="list-style-type: none"> <li>Flood Risk Management Study (2023)</li> </ul>				Webpage/ Media Release Stakeholder letters/ Community notification	Stakeholder meetings  Survey	Community session						
<ul style="list-style-type: none"> <li>Flood Risk Management Plan</li> </ul>							Web copy/ E-news/ Brochure/P ostcard/ FAQs					
<ul style="list-style-type: none"> <li>Exhibition of Study and Plan (&amp; formal adoption)</li> </ul>									Newspaper Advertisement. Postcard/FAQs .	Media Release/ Social Media.  Public Exhibition Period  Drop in session		
<ul style="list-style-type: none"> <li>Implementation</li> </ul>											Consultation Outcomes Report	

### Meetings

<ul style="list-style-type: none"> <li>Floodplain Management Committee Meetings</li> </ul>					10 May (Briefing), - on project overview, community session and project objectives. 17 May (ordinary meeting)				13 September (Briefing) 20 September (ordinary Meeting) - update on public exhibition/com munications approach.		8 November (Briefing) - update on consultation outcomes	
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## Community engagement risks

Risks	Mitigation measures
<ul style="list-style-type: none"> <li>• Misunderstanding of the Floodplain Risk Management Process</li> </ul>	<ul style="list-style-type: none"> <li>• Provide clear visual aids to inform and educate the community on the key steps in the process to develop FRMSPs in accordance with the NSW Floodplain Development Manual, i.e. flood study, floodplain risk management study, floodplain risk management plan, Adoption and Implementation.</li> </ul>
<ul style="list-style-type: none"> <li>• Frustration regarding the timeframe to commence FRMSPs following previous flood studies</li> </ul>	<ul style="list-style-type: none"> <li>• Provide a timeline and visual aids to demonstrate the FRMSP processes.</li> <li>• Clearly outline the project scope and the FRMSP process.</li> <li>• Communicate regularly at key project milestones to ensure the community is well informed of the project progress and how to get involved.</li> </ul>
<ul style="list-style-type: none"> <li>• Over engagement/engagement fatigue from previous studies</li> </ul>	<ul style="list-style-type: none"> <li>• Clearly outline the FRMSP process and the purpose of the engagement and how the community and stakeholders can be involved and contribute to the decision making process.</li> </ul>
<ul style="list-style-type: none"> <li>• Misinformation about previous studies</li> </ul>	<ul style="list-style-type: none"> <li>• Clear and simple language.</li> <li>• The Communications and Customer Service team to be kept informed to minimize any misunderstandings and help to educate and inform the community and key stakeholders.</li> </ul>
<ul style="list-style-type: none"> <li>• Community dissatisfaction at Council's previous response rate and/or approach to the management of floods</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare key messages ahead of the information session on Council's response to flooding events and how the community can be prepared for future flood events.</li> </ul>

# EVALUATION

An evaluation plan needs to be outlined alongside the engagement design and data needs to be gathered throughout the delivery of the engagement process. The evaluation needs to be tied to the engagement purpose, goal and objectives. Copy and paste the first two columns from your engagement sequence. Then identify what success will look like (success indicators), how data will be collected, and when and where the data will be collected. Consider that success indicators could fall within any or all of the following:

1. **Outcomes criteria:** what was achieved
1. **Acceptance criteria:** how well stakeholders and community members accepted the engagement process/methods
2. **Process criteria:** how well did the team do in designing and delivering the specific engagement methods in the plan

○ Project Stage	○ Engagement objective(s)	○ Success Indicators	○ Data collection	○ Data collection: who/when/where
<ul style="list-style-type: none"> <li>Paste your project stages and corresponding engagement objectives (next column) from your Community Engagement Sequence.</li> </ul>	<ul style="list-style-type: none"> <li>Paste your corresponding engagement objectives from your Community Engagement Sequence.</li> </ul>	<ul style="list-style-type: none"> <li>What defines success in relation to this engagement objective? Are outcomes, acceptance and/or process criteria relevant? Your indicators should include three elements (generally speaking): 1. Measure (e.g. participants achieving consensus), 2. Target population (e.g. workshop participants), and 3. Threshold i.e.</li> </ul>	<ul style="list-style-type: none"> <li>How will you collect data to measure the success criteria? E.g. a survey at the end of a workshop? Number of comments in Twitter?</li> </ul>	<ul style="list-style-type: none"> <li>Who will be responsible for data collection? When and where will data be collected?</li> </ul>

○ Project Stage	○ Engagement objective(s)	○ Success Indicators	○ Data collection	○ Data collection: who/when/where
		what's the minimum required to achieve the objective (e.g. 80% agreement)		
<ul style="list-style-type: none"> <li>Add rows as required</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

### Overall engagement process evaluation (IAP2)

#### 1. Outcome criteria: what was achieved?

<ul style="list-style-type: none"> <li><b>Quality of decision:</b> the decision provides a feasible solution to the community engagement project</li> </ul>	<ul style="list-style-type: none"> <li>Develop a SMART success criteria relevant to your engagement process</li> </ul>	<ul style="list-style-type: none"> <li>Identify how data will be collected</li> </ul>	<ul style="list-style-type: none"> <li>Who will be responsible for data collection? When and where will data be collected?</li> </ul>
<ul style="list-style-type: none"> <li><b>Rational Objectives:</b> the methods achieved the rational (e.g. outcomes, information, input) objectives set</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>
<ul style="list-style-type: none"> <li><b>Experiential Objectives:</b> the methods achieved the experiential (e.g. participant experience, relationship) objectives set</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>
<ul style="list-style-type: none"> <li><b>Sustainability:</b> the decision was sustainable and implementable</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

## 2. Acceptance criteria: how well the methods were selected and delivered?

<ul style="list-style-type: none"> <li>• <b>Representative:</b> the participants are a representative sample of the affected or interested public</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Independence:</b> independent and unbiased</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Early Involvement:</b> the public is involved as soon as value judgements are important</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Influence:</b> the feedback or input impacted on the decision</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Transparency:</b> the process of the method and the decision-making is transparent to the public</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Relationships:</b> the process supported positive relationships and acknowledged conflicts and worked through the conflict in a constructive manner</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Valued:</b> participants felt their contribution was valued</li> </ul>	•	•	•

### 3. Process criteria: how well the public and stakeholders accepted the process?

<ul style="list-style-type: none"> <li>• <b>Resource Allocation:</b> participants have the necessary information, human, material and time resources</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Task Definition:</b> participants are clear about the task, the scope and the output of the method</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Structured Decision Making:</b> an appropriate process for decision-making is used, and communicated clearly so participants understood how and why a decision is made</li> </ul>	•	•	•
<ul style="list-style-type: none"> <li>• <b>Cost-effective:</b> outcomes couldn't have been achieved using a more cost-effective mix of engagement methods</li> </ul>	•	•	•



## Appendix D

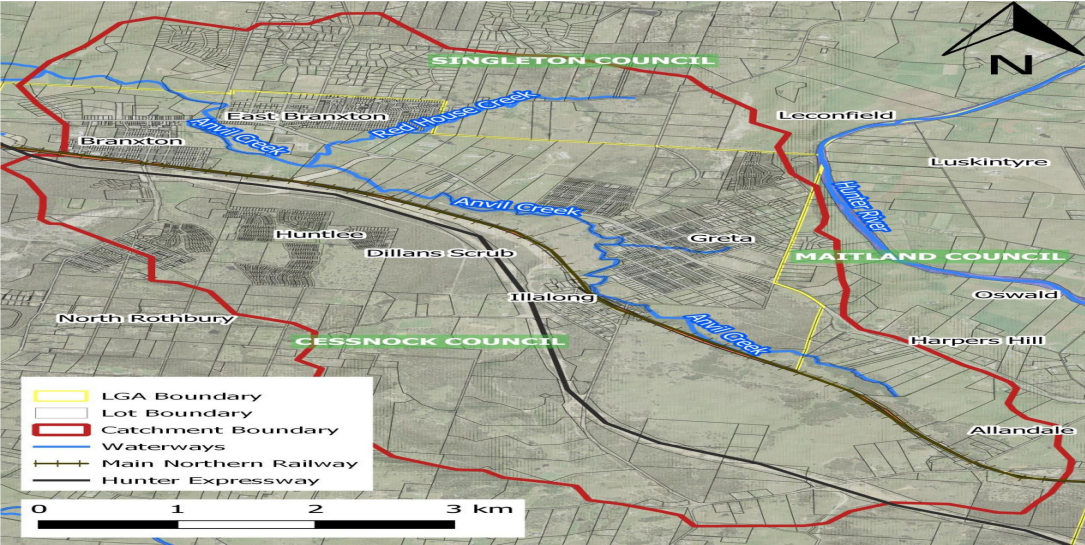
### Community Questionnaire

# Greta and Black Creek Nulkaba to Branxton (Stage 2) Floodplain Risk Management Study and Plan

Together Cessnock

## Greta Study Area Survey

This survey is in reference to the below study area.





# Greta and Black Creek Nulkaba to Branxton (Stage 2) Floodplain Risk Management Study and Plan

Together Cessnock

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What is the postcode of your primary place of residence?

(Required)

How long have you lived, worked or visited the Greta study area?

(Choose any one option)

- ☐ 0-5 years
- ☐ 6-10 years
- ☐ 11-15 years
- ☐ 16-20 years
- ☐ More than 21 years

How do you think you would respond to a major flood in this area?

(Choose any one option)

- ☐ Remain at my house
- ☐ Evacuate early to an official evacuation centre
- ☐ Evacuate elsewhere
- ☐ Don't know/ unsure
- ☐ Other (please specify)

What information do you look for during a flood event?

*Select all that apply*

(Choose all that apply)

- ☐ Road closures
- ☐ Predicted flood levels
- ☐ Evacuation notices
- ☐ Other (please specify)

Where would you look for updates and information in a flood event?

*Select all that apply*

(Choose all that apply)

# Greta and Black Creek Nulkaba to Branxton (Stage 2) Floodplain Risk Management Study and Plan

Together Cessnock

- ☐ Local Radio
- ☐ Social Media (Facebook/Instagram)
- ☐ Television
- ☐ Word of Mouth
- ☐ Council's website
- ☐ Hazards Near Me app
- ☐ Other (please specify)

Do you have any other suggestions for managing flood risk in the Greta area?

## Flood Management Options

There are various options we can investigate to manage flood risk in your area. For the following options below, please indicate your level of support.

Level of support for Flood Management Options

Questions	Strongly object	Somewhat object	Neither support or object	Somewhat support	Strongly support
Low Levee (less than one metre high)					
Onsite detention requirements for new developments					
Development controls to ensure future development is appropriate for flood-affected land					
Upgrading road culvert capacities (reduce flooding or those upstream)					
Flood warning system (Alert alarm)					
Flood warning signs on roads at locations that can flood					
Emergency response plans for flood affected properties and businesses to ensure business owners and residents know what to do in a flood event					
Voluntary purchase of worst flood-affected residential properties at market value					



## Appendix E

### Sub-Catchment Parameters

Sub-Catchment	Area (Ha)	EIA (%)	Pervious 'C'	Impervious 'C'
BR_98	1120.02	0.2	1.7	0.1
BR_99	847.249	0.5	1.7	0.1
CC_36	526.15	0.5	1.7	0.1
CC_47	468.984	0.2	1.7	0.1
CC_48	202.476	0.0	1.7	0.1
DR_01	2000.89	0.1	1.7	0.1
DR_02	2064.67	0.1	1.7	0.1
DR_03	1596.395	0.2	1.7	0.1
DR_04	864.113	0.1	1.7	0.1
DR_05	1116.051	0.2	1.7	0.1
DR_06	2027.07	0.1	1.7	0.1
DR_07	2462.637	0.2	1.7	0.1
DR_08	2326.061	0.1	1.7	0.1
DR_09	2638.985	0.6	1.7	0.1
DR_10	1479.521	0.0	1.7	0.1
DR_11	2087.486	0.0	1.7	0.1
DR_12	1538.627	0.0	1.7	0.1
DR_13	1945.735	0.0	1.7	0.1
DR_14	1590.258	0.3	1.7	0.1
DR_15	1690.073	0.1	1.7	0.1
DR_16	919.259	0.0	1.7	0.1
DR_17	633.632	0.1	1.7	0.1
DR_18	1207.555	0.3	1.7	0.1
DR_19	592.351	1.0	1.7	0.1
DR_20	676.415	1.0	1.7	0.1
DR_22	1995.412	0.1	1.7	0.1
DR_23	2872.08	0.3	1.7	0.1
DR_24	2322.186	0.1	1.7	0.1
DR_25	3277.035	0.0	1.7	0.1
DR_26	6082.109	0.2	1.7	0.1
DR_27	4324.955	0.2	1.7	0.1
DR_29	4169.198	0.1	1.7	0.1
DR_30	4257.28	0.2	1.7	0.1
DR_31	3598.46	0.0	1.7	0.1
DR_32	5107.041	0.1	1.7	0.1
DR_37	1711.655	0.4	1.7	0.1
DR_38	951.619	0.2	1.7	0.1
DR_39	2684.768	0.2	1.7	0.1
DR_40	3369.589	0.2	1.7	0.1

DR_41	3775.275	0.3	1.7	0.1
DR_42	1319.259	0.0	1.7	0.1
DR_49	343.282	1.1	1.7	0.1
DR_51	388.63	0.7	1.7	0.1
DR_54	1508.086	0.1	1.7	0.1
DR_55	1211.544	0.2	1.7	0.1
DR_56	958.703	0.0	1.7	0.1
DR_57	340.857	0.1	1.7	0.1
DR_58	2249.2	0.1	1.7	0.1
DR_59	3048.998	0.1	1.7	0.1
DR_60	2078.984	0.0	1.7	0.1
DR_61	2598.207	0.1	1.7	0.1
DR_62	11849.16	0.4	1.7	0.1
DR_63	5670.706	0.2	1.7	0.1
DR_64	2612.538	0.2	1.7	0.1
DR_65	1624.996	0.1	1.7	0.1
DR_84	2549.011	0.0	1.7	0.1
DR_85	344.312	0.4	1.7	0.1
MA_53	225.781	0.3	1.7	0.1
MA_73	95.795	0.3	1.7	0.1
MA_76	153.078	1.1	1.7	0.1
MA_77a	136.711	1.0	1.7	0.1
MA_77b	55.525	0.9	1.7	0.1
MA_91a	24.382	0.7	1.7	0.1
MA_91b	60.083	0.7	1.7	0.1
MA_91c	43.778	1.0	1.7	0.1
MA_91d	31.746	2.3	1.7	0.1
MA_91e	65.291	0.5	1.7	0.1
MA_95	663.15	0.1	1.7	0.1
MA_97	35.542	0.7	1.7	0.1
MA_98a	25.702	0.7	1.7	0.1
MA_98b	171.807	0.3	1.7	0.1
MA_99a	64.991	1.1	1.7	0.1
MA_99b	79.216	4.7	1.7	0.1
MA74a	135.376	0.6	1.7	0.1
MA74b	176.594	10.0	1.7	0.1
MO_44	648.358	0.6	1.7	0.1
MO_45	1489.755	0.4	1.7	0.1
MO_46	712.58	0.5	1.7	0.1
MO_87	477.986	0.1	1.7	0.1

MR_100a	48.447	0.0	1.7	0.1
MR_100b	24.623	10.8	1.7	0.1
MR_100c	12.598	36.9	1.7	0.1
MR_100d	5.081	54.3	1.7	0.1
MR_100e	124.43	7.8	1.7	0.1
MR_100f	353.831	2.7	1.7	0.1
MR_43	898.233	0.7	1.7	0.1
MR_68	330.688	0.4	1.7	0.1
MR_69a	13.972	43.6	1.7	0.1
MR_69b	8.411	4.4	1.7	0.1
MR_69c	28.535	7.5	1.7	0.1
MR_69d	29.977	5.5	1.7	0.1
MR_69e	9.564	2.0	1.7	0.1
MR_69g	564.462	0.7	1.7	0.1
MR_70	151.735	0.3	1.7	0.1
MR_71a	17.661	15.8	1.7	0.1
MR_71b	18.124	0.7	1.7	0.1
MR_71c	15.273	25.3	1.7	0.1
MR_71d	20.455	1.1	1.7	0.1
MR_71e	20.084	15.4	1.7	0.1
MR_71f	3.985	42.9	1.7	0.1
MR_71g	94.806	1.4	1.7	0.1
MR_72a	2.327	53.3	1.7	0.1
MR_72c	2.507	24.2	1.7	0.1
MR_72d	85.245	4.1	1.7	0.1
MR_75	101.721	4.5	1.7	0.1
MR_79a	26.156	2.3	1.7	0.1
MR_79b	27.26	0.3	1.7	0.1
MR_79c	28.914	0.2	1.7	0.1
MR_79d	17.43	9.0	1.7	0.1
MR_79e	71.029	1.2	1.7	0.1
MR_80b	70.262	0.2	1.7	0.1
MR_80c	37.734	3.3	1.7	0.1
MR_80d	45.322	0.2	1.7	0.1
MR_80e	47.781	8.5	1.7	0.1
MR_81	233.775	0.2	1.7	0.1
MR_82	96.321	0.4	1.7	0.1
MR_83a	17.076	1.4	1.7	0.1
MR_83b	14.199	0.6	1.7	0.1
MR_83c	99.686	0.8	1.7	0.1

MR_83d	120.804	2.0	1.7	0.1
MR_83e	50.397	11.3	1.7	0.1
MR_86a	63.539	0.1	1.7	0.1
MR_86b	34.333	0.9	1.7	0.1
MR_86c	10.119	2.6	1.7	0.1
MR_86d	36.906	0.8	1.7	0.1
MR_86e	24.909	0.0	1.7	0.1
MR_86f	12.323	0.6	1.7	0.1
MR_86g	290.554	0.6	1.7	0.1
MR_92	122.432	0.7	1.7	0.1
MR_96a	20.945	3.0	1.7	0.1
MR_96b	33.074	4.5	1.7	0.1
MR_96c	12.355	35.6	1.7	0.1
MR_96d	19.759	21.8	1.7	0.1
MR_96e	9.723	52.2	1.7	0.1
MR_96f	10.829	46.7	1.7	0.1
MR_96g	6.718	52.0	1.7	0.1
MR_96h	8.411	51.9	1.7	0.1
MR_96i	16.816	14.5	1.7	0.1
MR_96j	12.894	27.4	1.7	0.1
MR_96k	7.928	44.8	1.7	0.1
MR_97	183.157	0.1	1.7	0.1
MR_98a	11.498	0.9	1.7	0.1
MR_98b	55.823	0.1	1.7	0.1
MR_99	129.113	1.0	1.7	0.1
RC_52a	33.85	0.7	1.7	0.1
RC_52b	21.437	0.0	1.7	0.1
RC_52c	31.008	1.0	1.7	0.1
RC_78a	7.93	53.5	1.7	0.1
RC_78b	6.234	78.4	1.7	0.1
RC_78c	5.723	80.5	1.7	0.1
RC_78d	8.218	57.2	1.7	0.1
RC_88a	64.981	5.7	1.7	0.1
RC_88b	39.785	1.5	1.7	0.1
RC_88c	31.4	0.7	1.7	0.1
RC_88d	28.043	5.8	1.7	0.1
RC_88e	40.265	7.1	1.7	0.1
RC_88f	46.681	5.5	1.7	0.1
RC_88g	33.746	5.8	1.7	0.1
RC_88h	32.323	6.0	1.7	0.1

RC_89a	12.932	3.6	1.7	0.1
RC_89b	10.791	5.4	1.7	0.1
RC_89c	20.05	2.8	1.7	0.1
RC_89d	19.517	3.8	1.7	0.1
RC_89e	14.334	35.4	1.7	0.1
RC_89f	16.743	1.2	1.7	0.1
RC_89g	11.818	18.0	1.7	0.1
RC_89h	18.207	22.9	1.7	0.1
RC_89i	16.052	29.5	1.7	0.1
RC_89j	9.843	47.2	1.7	0.1
RC_89k	12.556	32.0	1.7	0.1
RC_89l	7.679	27.4	1.7	0.1
RC_89m	7.929	53.2	1.7	0.1
RC_89n	14.105	1.7	1.7	0.1
RC_89o	19.566	4.1	1.7	0.1
RC_89p	9.638	11.9	1.7	0.1
RC_90a	8.011	16.1	1.7	0.1
RC_90b	12.506	28.5	1.7	0.1
RC_90c	11.147	17.1	1.7	0.1
RC_90d	22.485	0.2	1.7	0.1
RC_90e	11.954	5.8	1.7	0.1
RC_90f	16.43	24.3	1.7	0.1
RC_90g	12.881	14.4	1.7	0.1
RC_90h	13.009	8.6	1.7	0.1
RC_93a	7.281	35.7	1.7	0.1
RC_93b	59.598	1.4	1.7	0.1
RC_94a	25.564	4.9	1.7	0.1
RC_94b	46.612	5.9	1.7	0.1
RC_94c	37.198	6.3	1.7	0.1
RC_94d	24.34	6.8	1.7	0.1
RC_96	32.917	1.9	1.7	0.1
WC_21	614.953	0.6	1.7	0.1
WC_28	2099.557	0.2	1.7	0.1
WC_33	2005.703	0.4	1.7	0.1
WC_34	860.59	0.8	1.7	0.1
WC_35	727.382	0.3	1.7	0.1
WC_50	327.38	0.4	1.7	0.1
WC_66	622.502	0.5	1.7	0.1
WC_67	700.506	0.8	1.7	0.1





## Appendix F

### Flood Maps



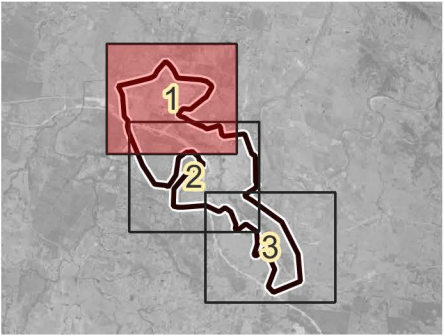


RG-01-001a

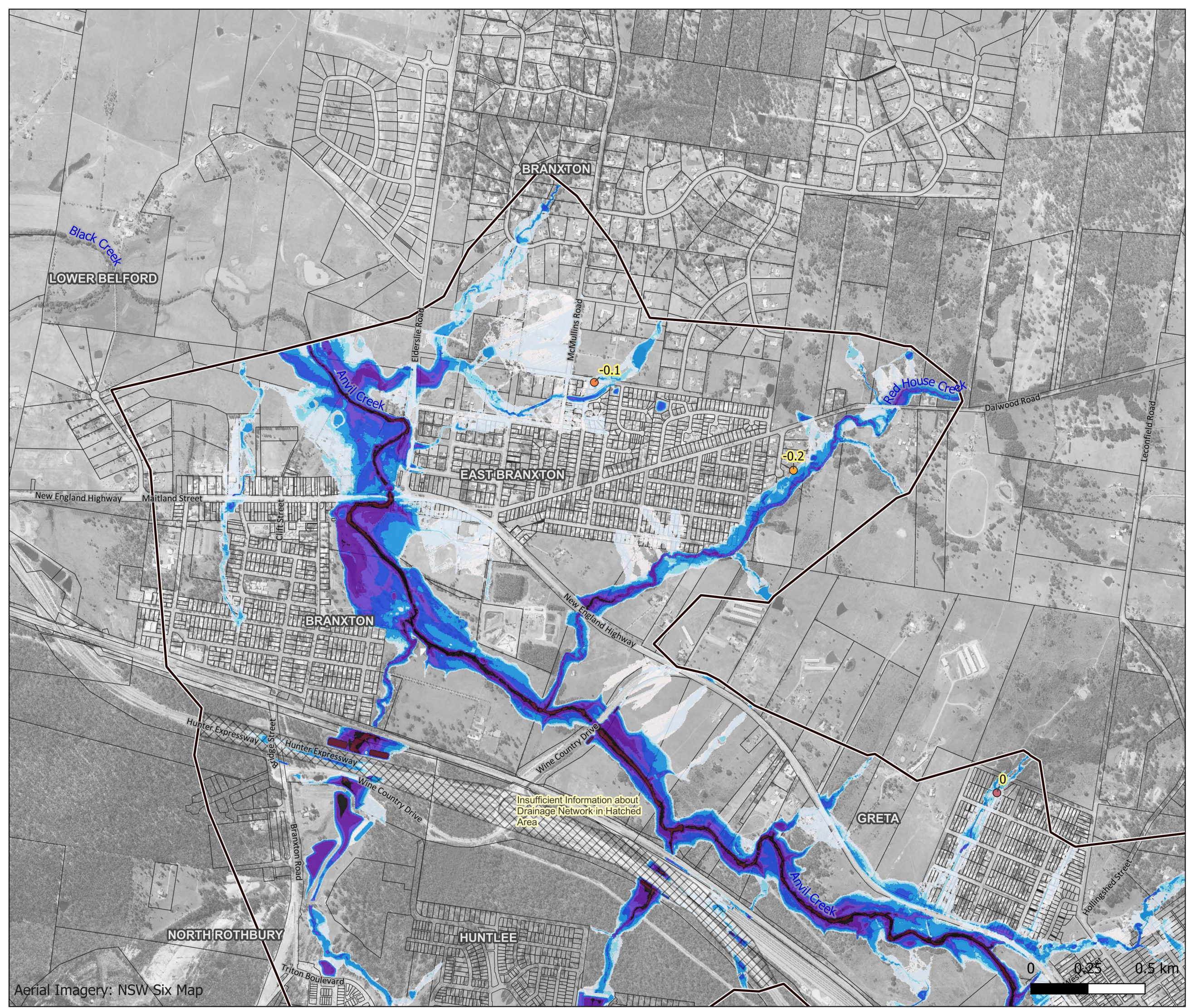
**Greta Updated Flood Study  
April 2015 Validation  
Results  
Map 1 of 3**

**Legend**

- Cadastre
  - Hydraulic Model Extent
- Calibration Points (Modelled Levels Less Observed Levels) [m]
- |              |              |
|--------------|--------------|
| <-0.4        | -0.05 - 0.05 |
| -0.4 - -0.3  | 0.05 - 0.1   |
| -0.3 - -0.2  | 0.1 - 0.2    |
| -0.2 - -0.1  | 0.2 - 0.3    |
| -0.1 - -0.05 | 0.3 - 0.4    |
- Peak Flood Depth (m)
- |            |         |
|------------|---------|
| <= 0.01    | 1.5 - 2 |
| 0.01 - 0.3 | 2 - 3   |
| 0.3 - 0.5  | 3 - 4   |
| 0.5 - 1    | > 4     |
| 1 - 1.5    |         |



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56





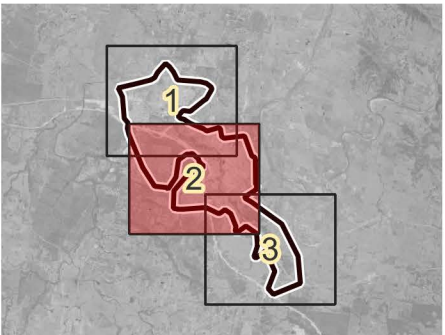


RG-01-001b

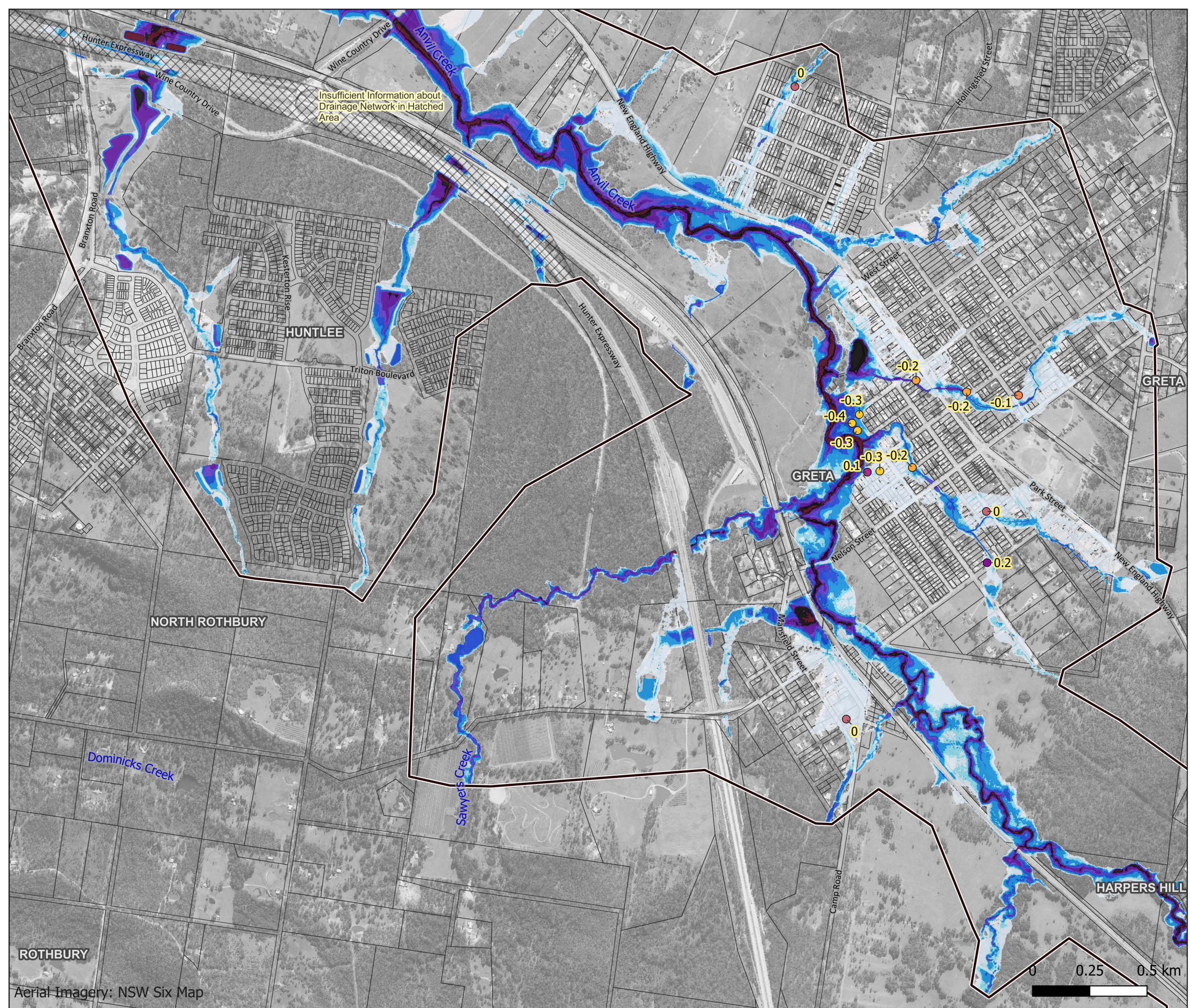
**Greta Updated Flood Study  
April 2015 Validation  
Results  
Map 2 of 3**

**Legend**

- Cadastre  
□ Hydraulic Model Extent
- Calibration Points (Modelled Levels Less Observed Levels) [m]
- |                |                |
|----------------|----------------|
| ● <-0.4        | ● -0.05 - 0.05 |
| ● -0.4 - -0.3  | ● 0.05 - 0.1   |
| ● -0.3 - -0.2  | ● 0.1 - 0.2    |
| ● -0.2 - -0.1  | ● 0.2 - 0.3    |
| ● -0.1 - -0.05 | ● 0.3 - 0.4    |
- Peak Flood Depth (m)
- |              |           |
|--------------|-----------|
| ■ ≤ 0.01     | ■ 1.5 - 2 |
| ■ 0.01 - 0.3 | ■ 2 - 3   |
| ■ 0.3 - 0.5  | ■ 3 - 4   |
| ■ 0.5 - 1    | ■ > 4     |
| ■ 1 - 1.5    |           |



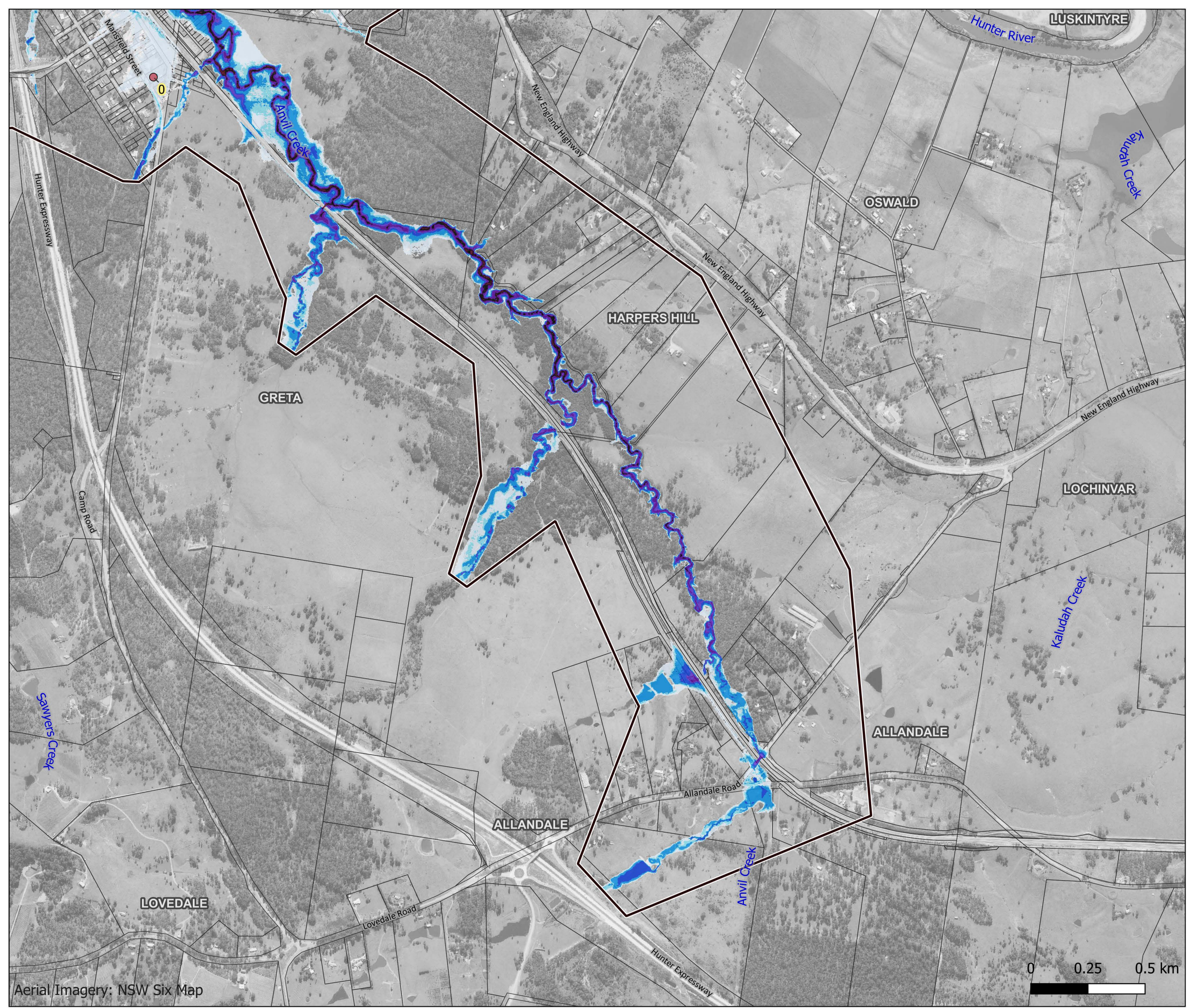
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Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-001c

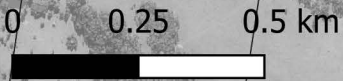
**Greta Updated Flood Study  
April 2015 Validation  
Results  
Map 3 of 3**

**Legend**

- Cadastre
  - Hydraulic Model Extent
- Calibration Points (Modelled Levels Less Observed Levels) [m]
- |              |              |
|--------------|--------------|
| <-0.4        | -0.05 - 0.05 |
| -0.4 - -0.3  | 0.05 - 0.1   |
| -0.3 - -0.2  | 0.1 - 0.2    |
| -0.2 - -0.1  | 0.2 - 0.3    |
| -0.1 - -0.05 | 0.3 - 0.4    |
- Peak Flood Depth (m)
- |            |         |
|------------|---------|
| <= 0.01    | 1.5 - 2 |
| 0.01 - 0.3 | 2 - 3   |
| 0.3 - 0.5  | 3 - 4   |
| 0.5 - 1    | > 4     |
| 1 - 1.5    |         |



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56





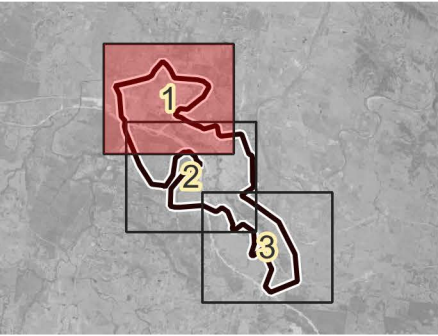


RG-01-002a

**Greta Updated Flood Study  
Updated Flood Study Less  
Flood Study (WMAwater,  
2019) - 1% AEP  
Map 1 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent
- Flood Level Difference (m)**
  - < -1
  - 1 - -0.5
  - 0.5 - -0.3
  - 0.3 - -0.1
  - 0.1 - -0.05
  - 0.05 - 0.05
  - 0.05 - 0.1
  - 0.2 - 0.3
  - 0.3 - 0.5
  - 0.5 - 1
  - >1



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56





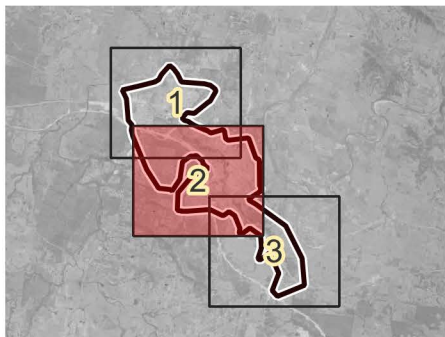


RG-01-002b

**Greta Updated Flood Study  
Updated Flood Study Less  
Flood Study (WMAwater,  
2019) - 1% AEP  
Map 2 of 3**

**Legend**

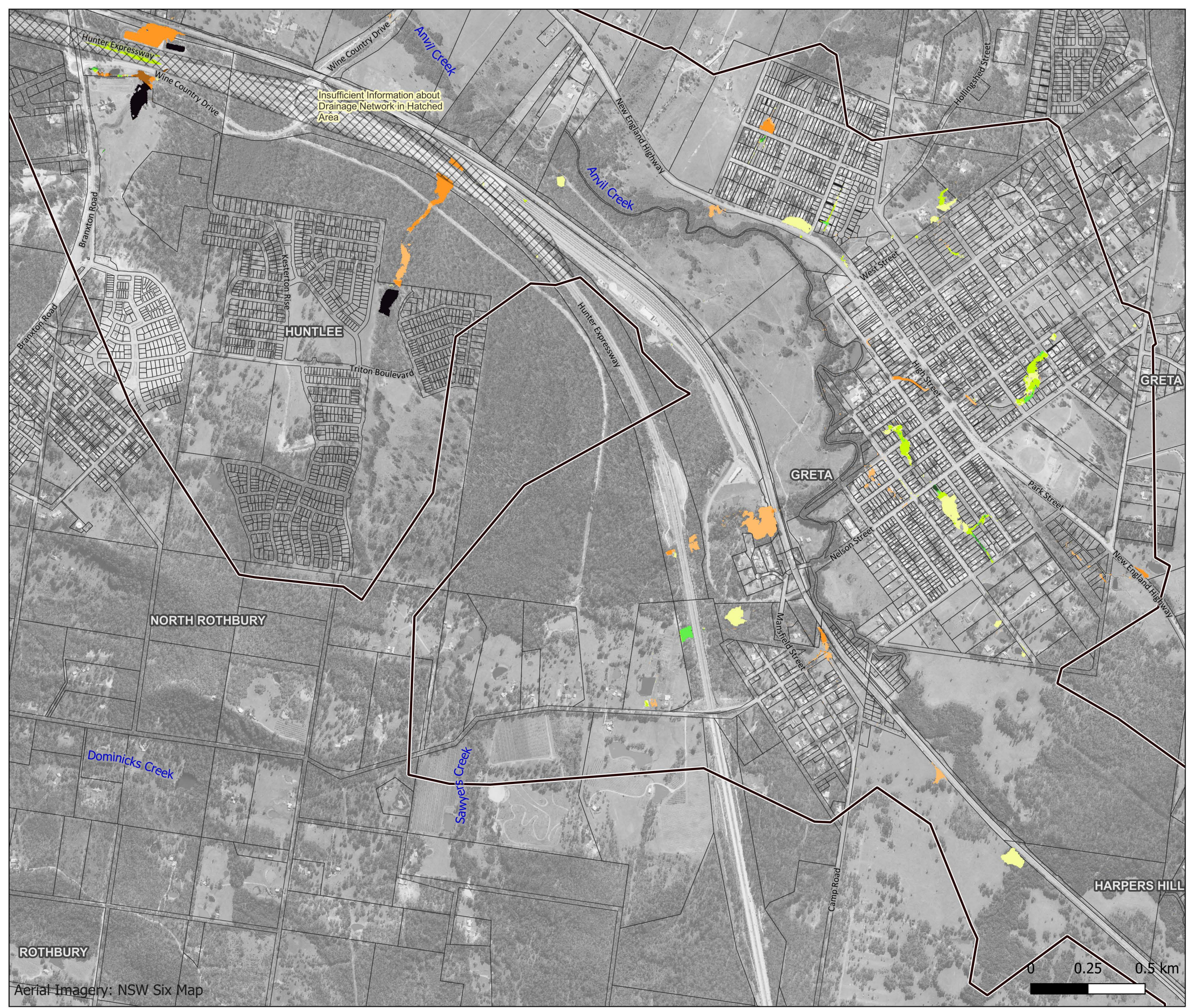
- Cadastre
- Hydraulic Model Extent
- Flood Level Difference (m)**
  - < -1
  - 1 - -0.5
  - 0.5 - -0.3
  - 0.3 - -0.1
  - 0.1 - -0.05
  - 0.05 - 0.05
  - 0.05 - 0.1
  - 0.2 - 0.3
  - 0.3 - 0.5
  - 0.5 - 1
  - >1



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



0 0.25 0.5 km







RG-01-002c

**Greta Updated Flood Study  
Updated Flood Study Less  
Flood Study (WMAwater,  
2019) - 1% AEP  
Map 3 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent

**Flood Level Difference (m)**

- < -1
- 1 - -0.5
- 0.5 - -0.3
- 0.3 - -0.1
- 0.1 - -0.05
- 0.05 - 0.05
- 0.05 - 0.1
- 0.2 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- >1



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



0 0.25 0.5 km





**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
1EY  
Map 1 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

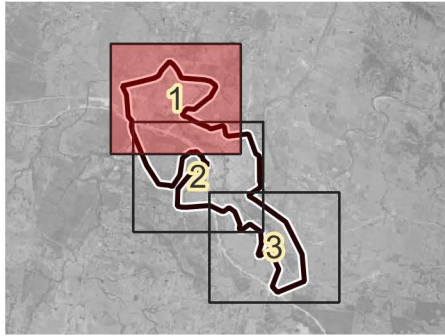
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

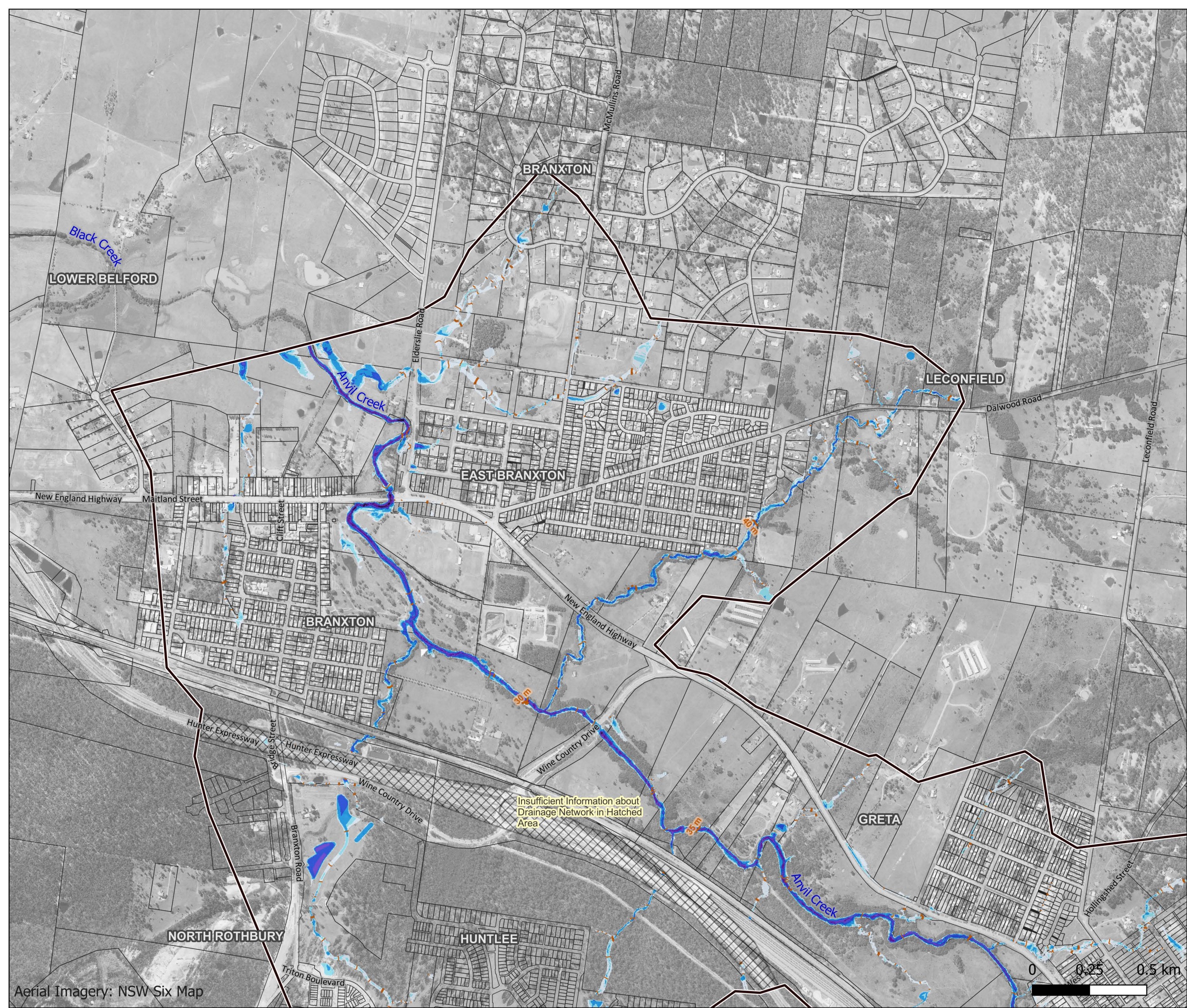
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

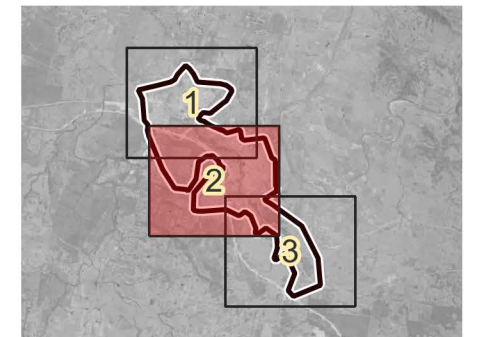




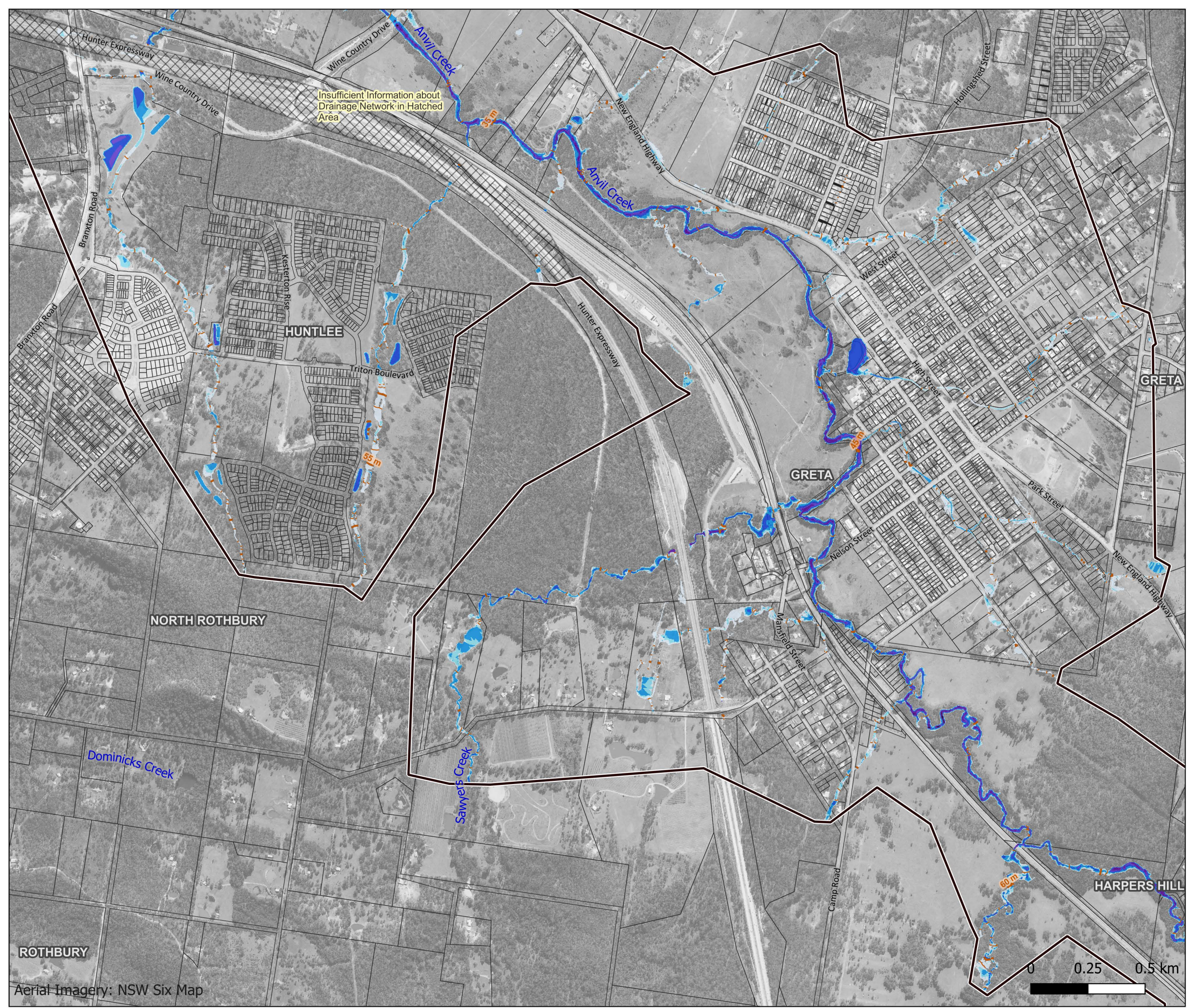
Greta Updated Flood Study

Peak Flood Depth and  
Elevation  
1EY  
Map 2 of 3

- Legend
- Hydraulic Model Extent
  - Cadastre
  - Water Level Contours
    - 5m
    - 1m
  - Peak Flood Depth (m)
    - <= 0.01
    - 0.01 - 0.3
    - 0.3 - 0.5
    - 0.5 - 1
    - 1 - 1.5
    - 1.5 - 2
    - 2 - 3
    - 3 - 4
    - > 4



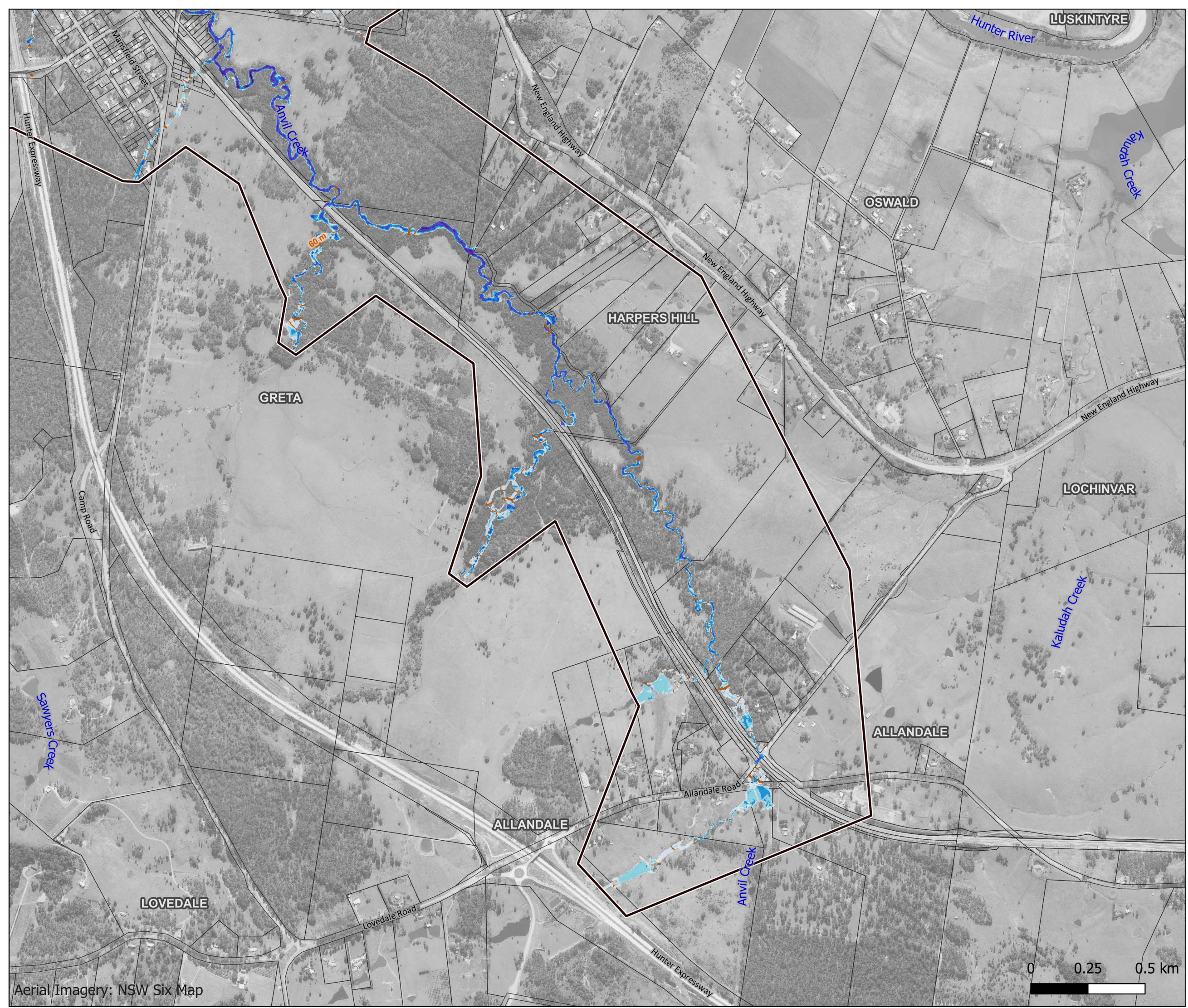
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-010c

**Greta Updated Flood Study**

**Peak Flood Depth and Elevation  
1EY  
Map 3 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

≤ 0.01

0.01 - 0.3

0.3 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 3

3 - 4

> 4



Job Number: J1703

Scale : 1:15000@A3

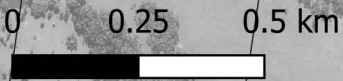
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA zone 56







**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
50% AEP  
Map 1 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

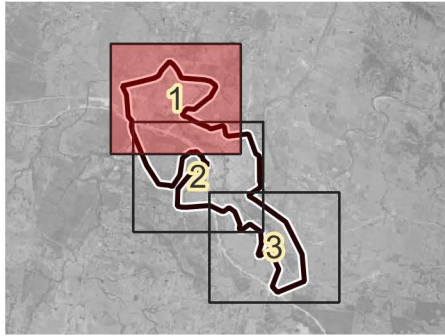
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

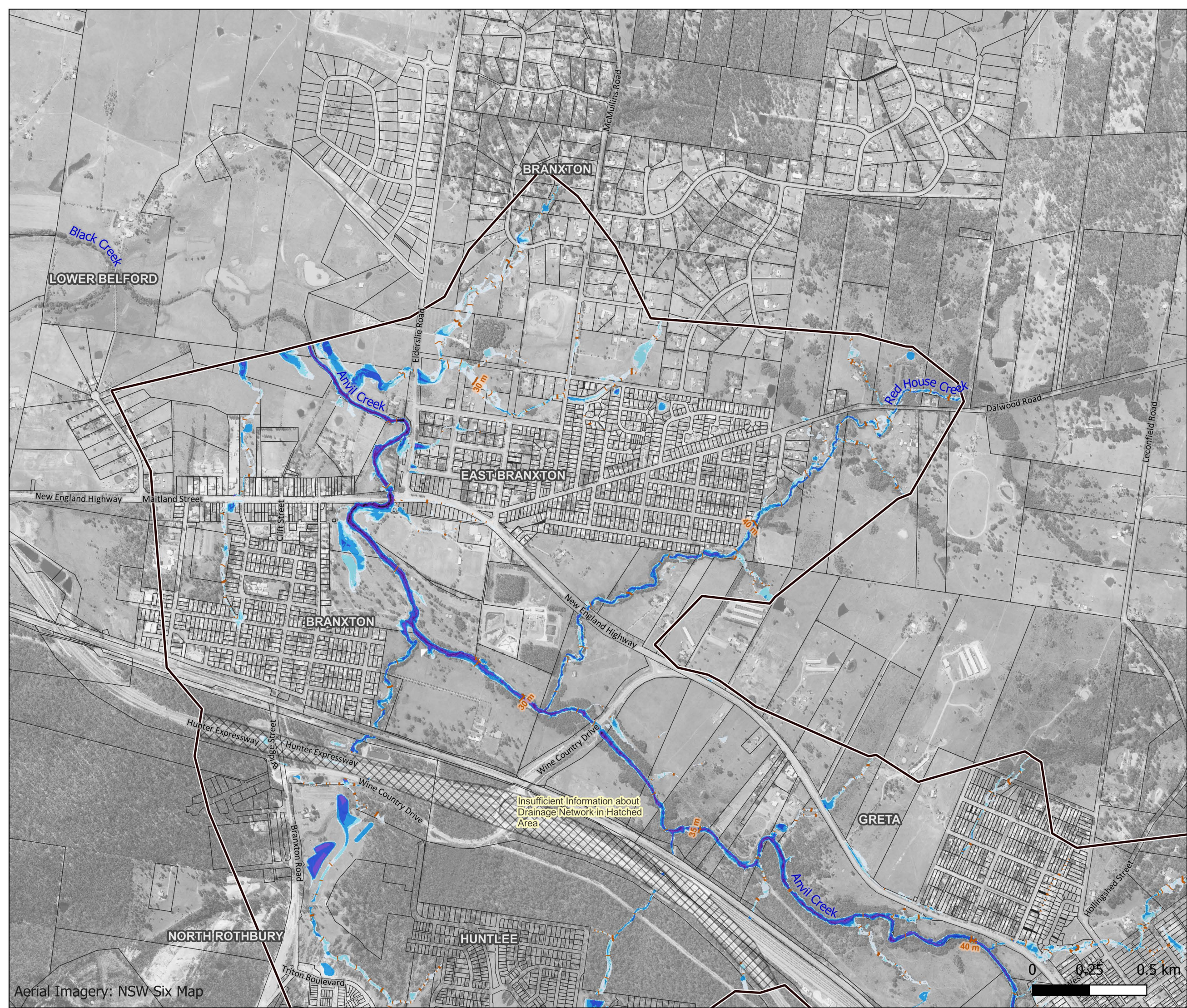
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56







**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
50% AEP  
Map 2 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

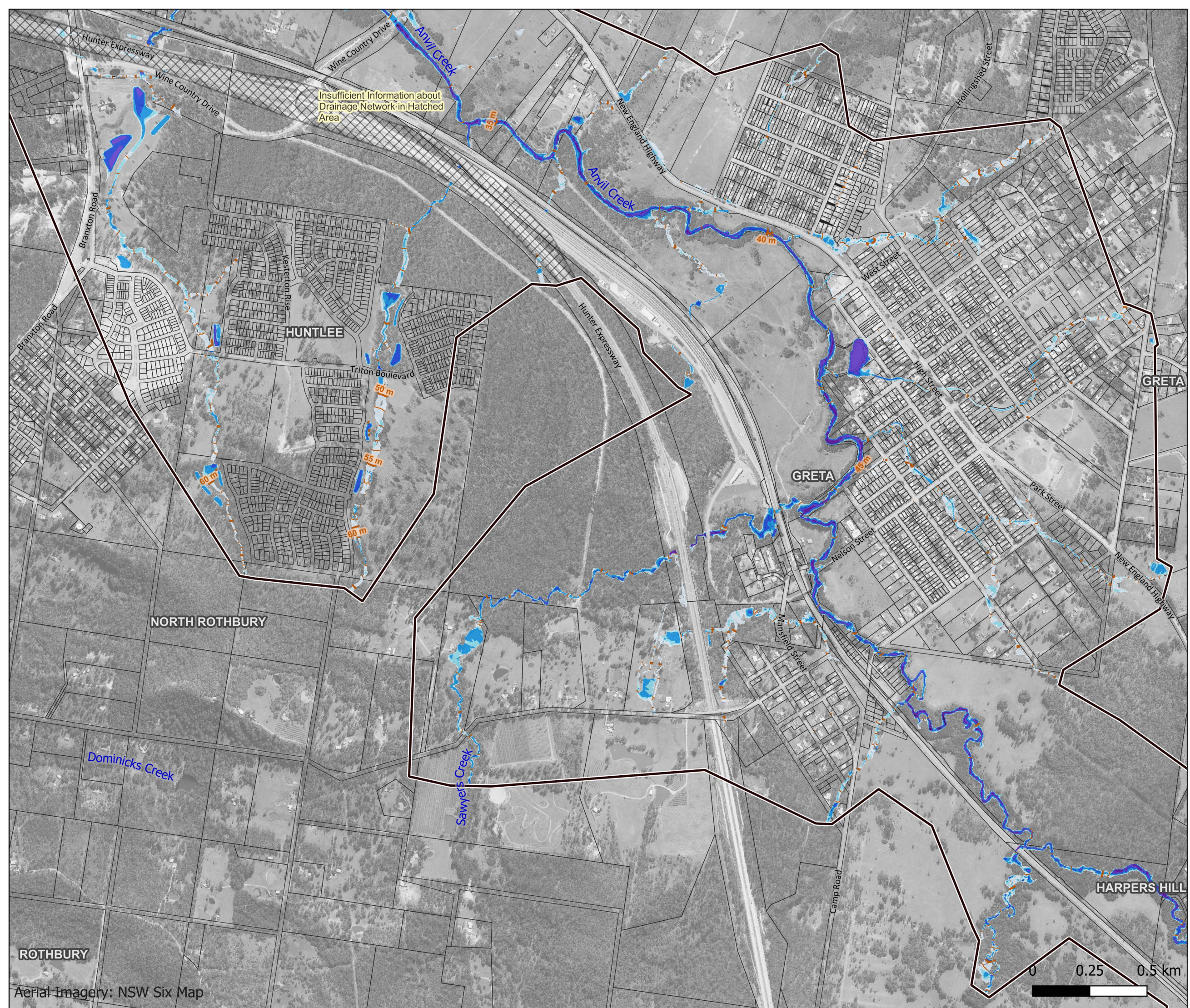
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
50% AEP  
Map 3 of 3**

**Legend**

- Hydraulic Model Extent
- Cadastre

**Water Level Contours**

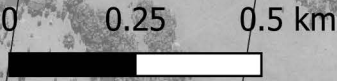
- 5m
- 1m

**Peak Flood Depth (m)**

- <= 0.01
- 0.01 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 4
- > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
20% AEP  
Map 1 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

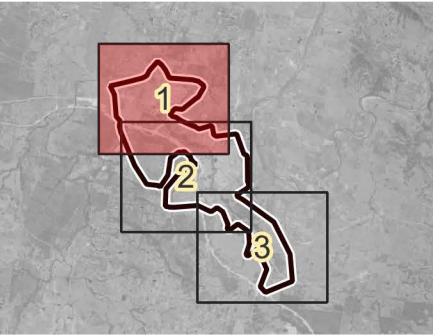
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

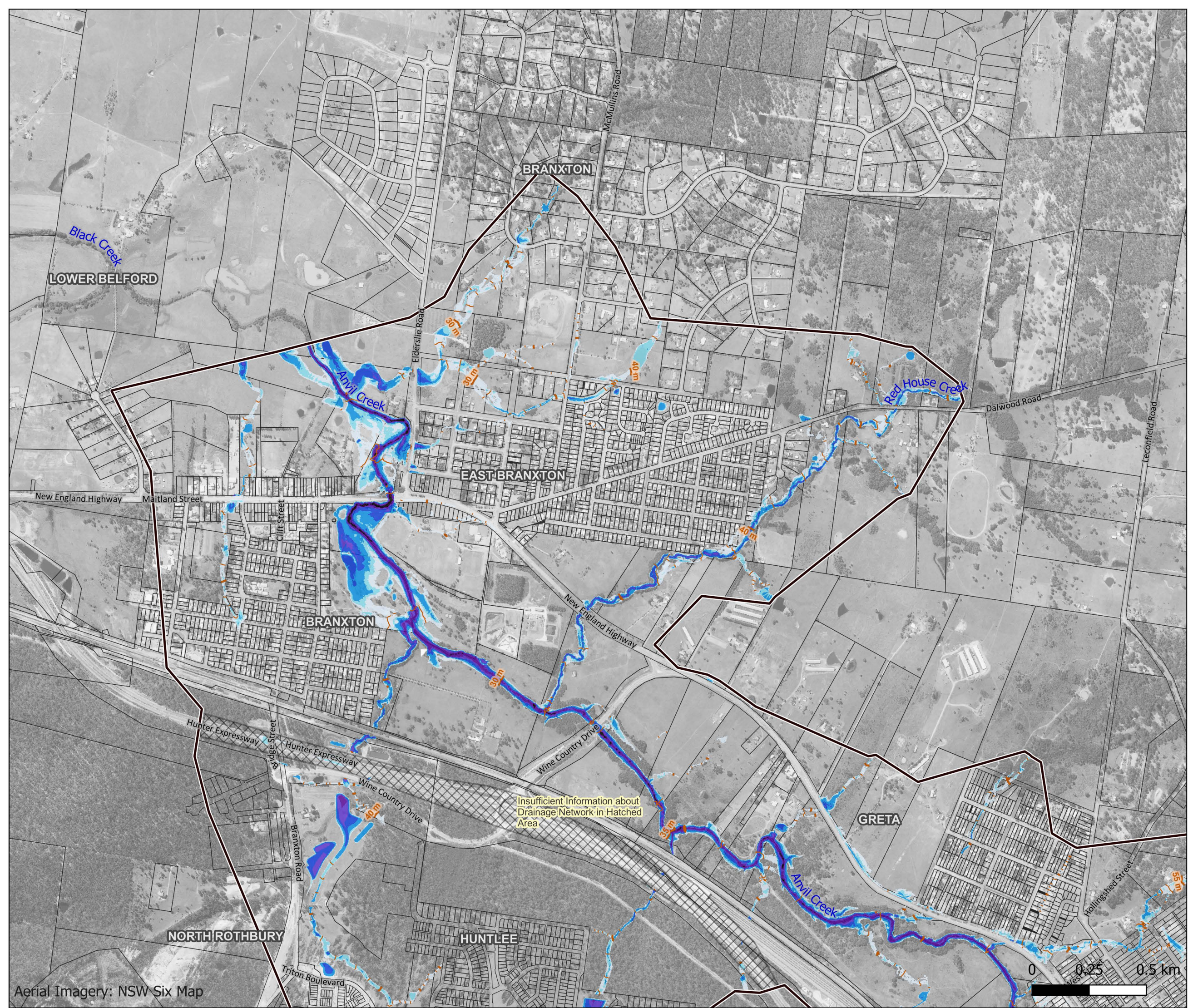
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56





## Greta Updated Flood Study

### Peak Flood Depth and Elevation 20% AEP Map 2 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

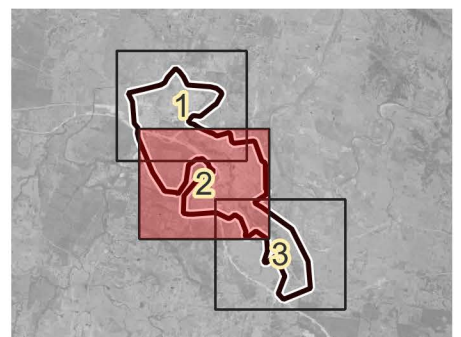
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

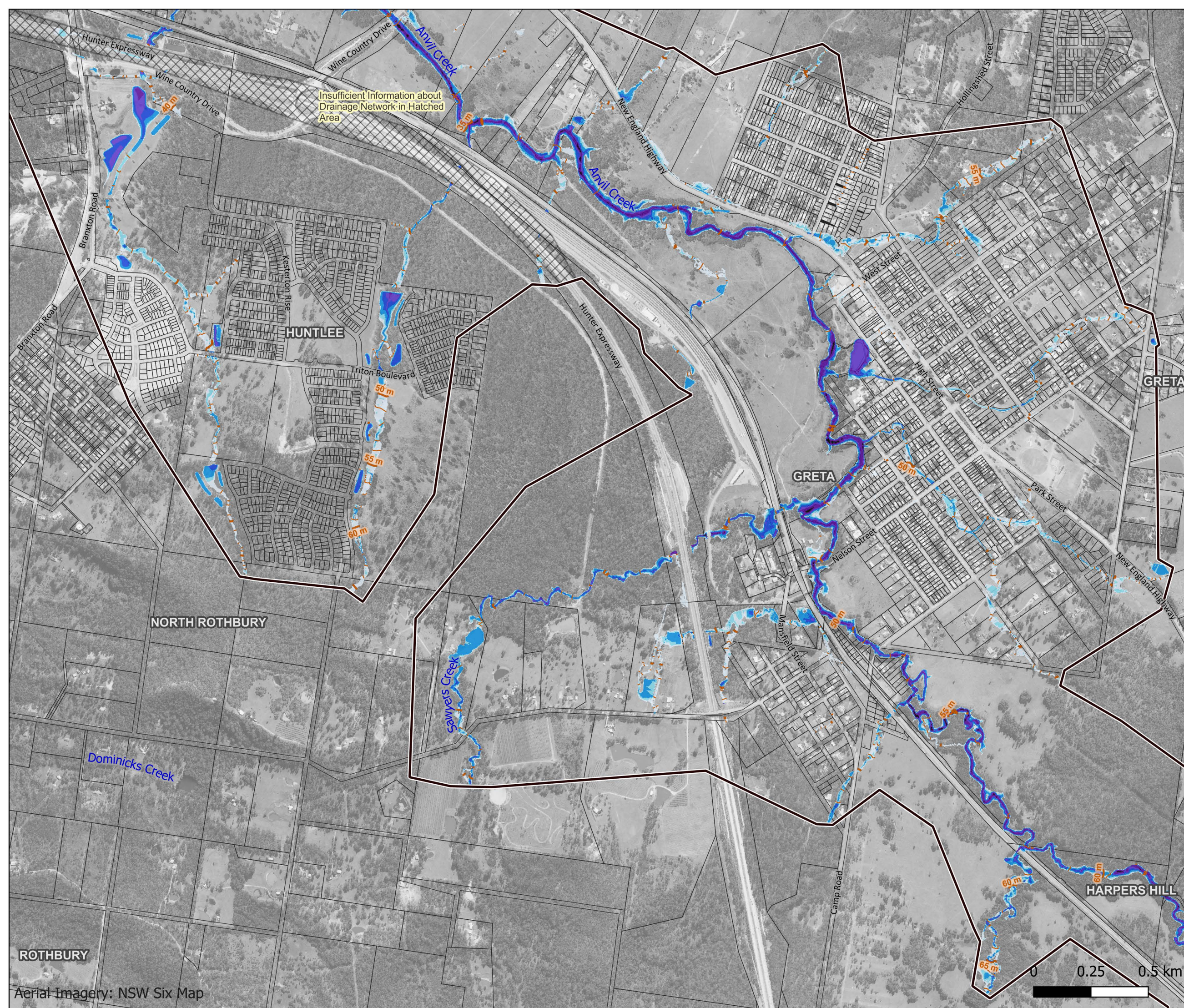
Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

R h e l m



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-012c

**Greta Updated Flood Study**

**Peak Flood Depth and Elevation  
20% AEP  
Map 3 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56



Aerial Imagery: NSW Six Map





**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
10% AEP  
Map 1 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

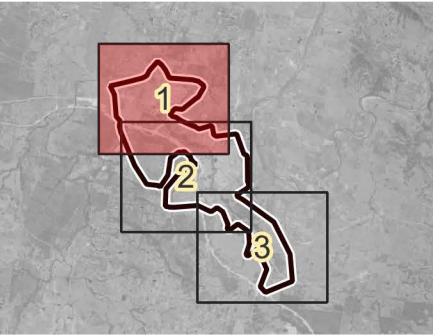
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

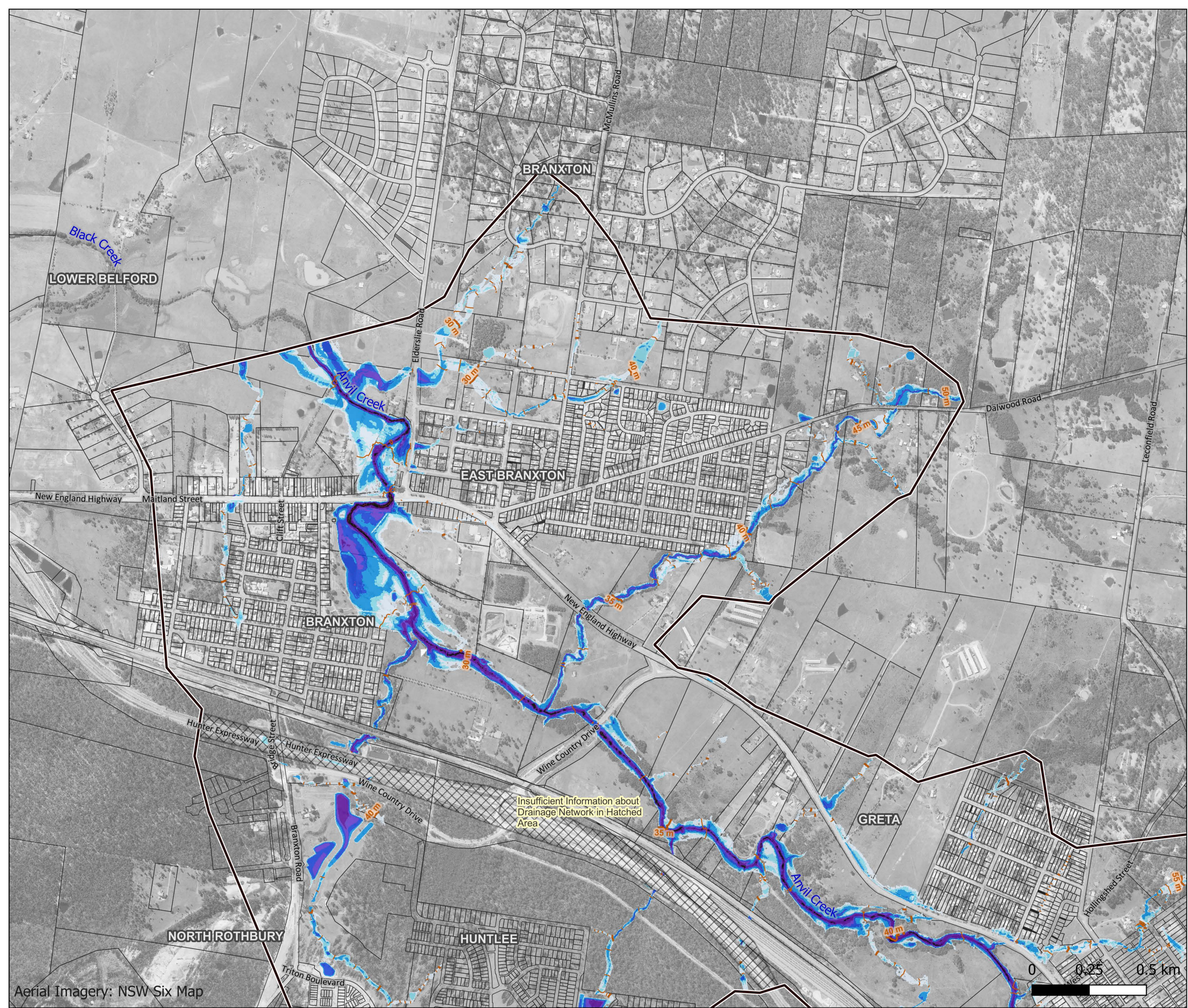
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56





## Greta Updated Flood Study

### Peak Flood Depth and Elevation 10% AEP Map 2 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

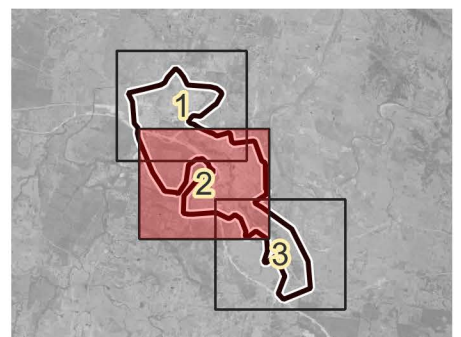
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

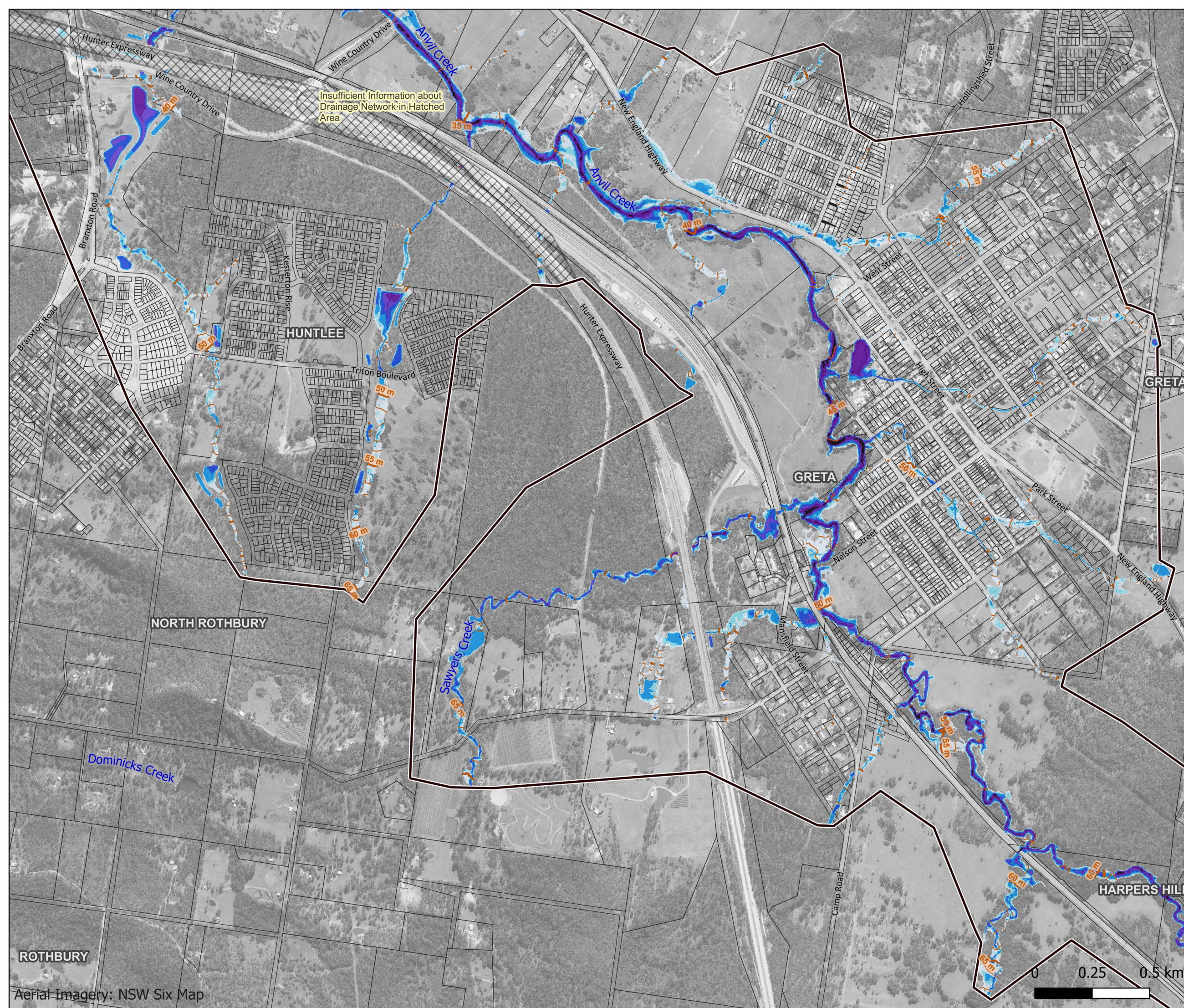
Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

R h e l m



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-013c

### Greta Updated Flood Study

#### Peak Flood Depth and Elevation 10% AEP Map 3 of 3

##### Legend

Hydraulic Model Extent

Cadastre

##### Water Level Contours

5m

1m

##### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56





Greta Updated Flood Study

Peak Flood Depth and  
Elevation  
5% AEP  
Map 1 of 3

Legend

Hydraulic Model Extent

Cadastrate

Water Level Contours

5m

1m

Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

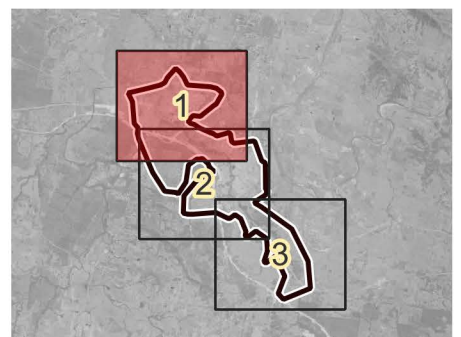
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

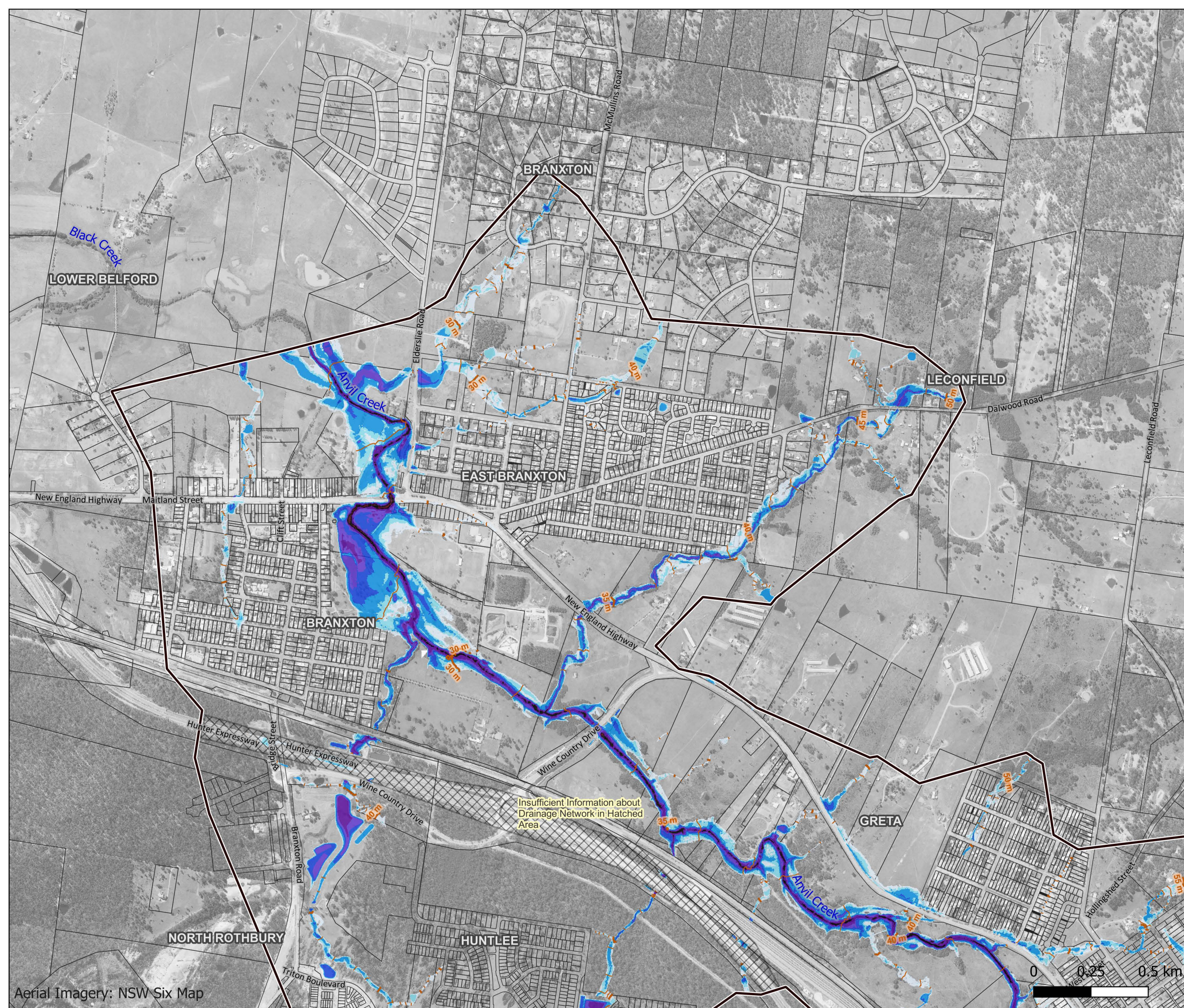
Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

R h e l m





Greta Updated Flood Study

Peak Flood Depth and  
Elevation  
5% AEP  
Map 2 of 3

Legend

Hydraulic Model Extent

Cadastre

Water Level Contours

5m

1m

Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

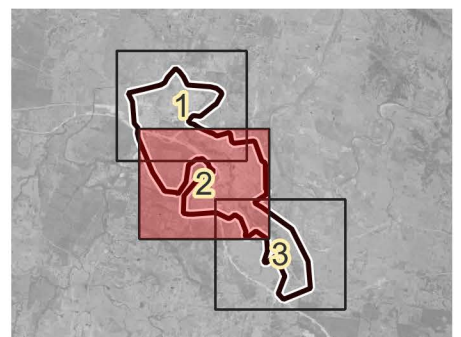
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

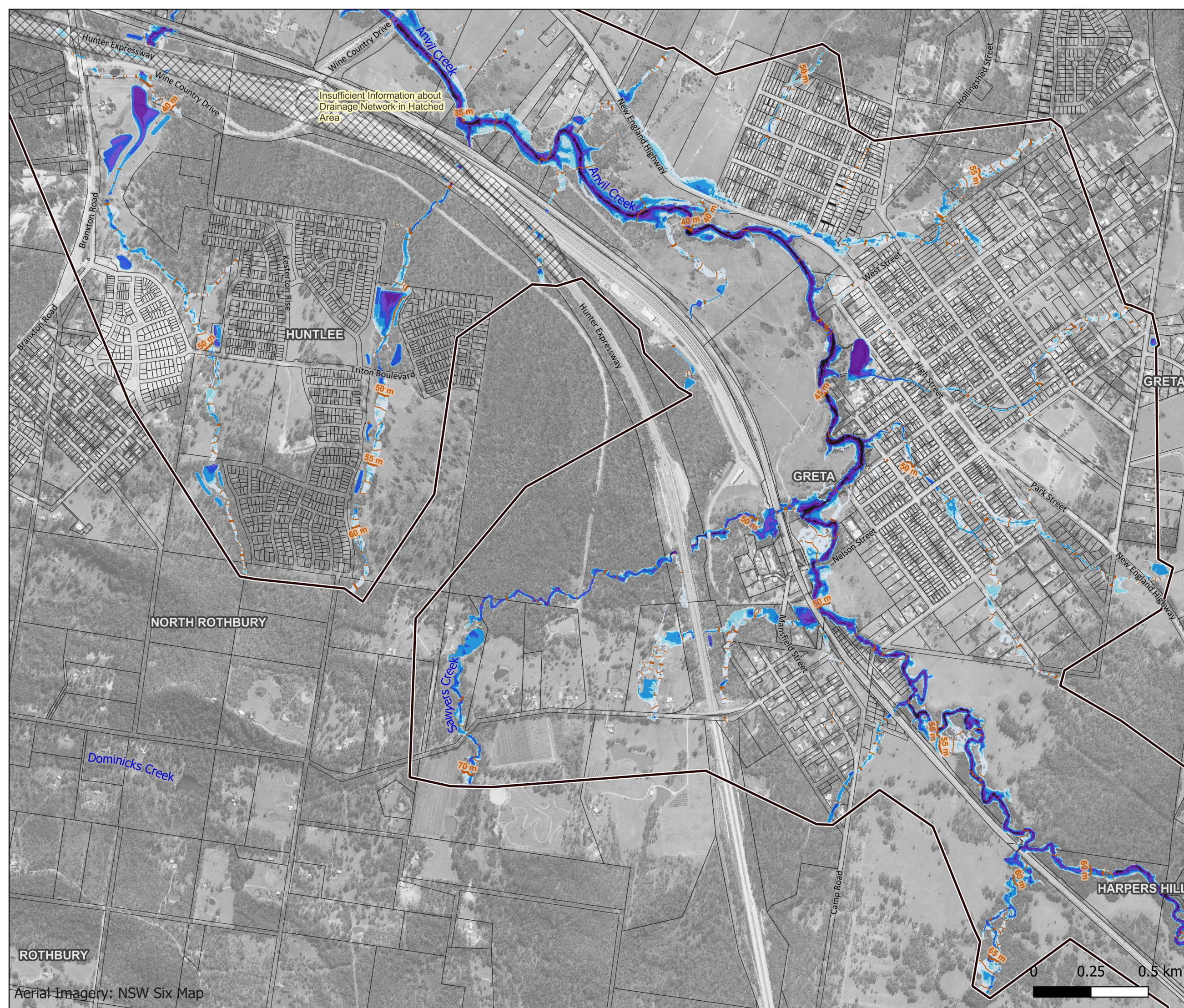
Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

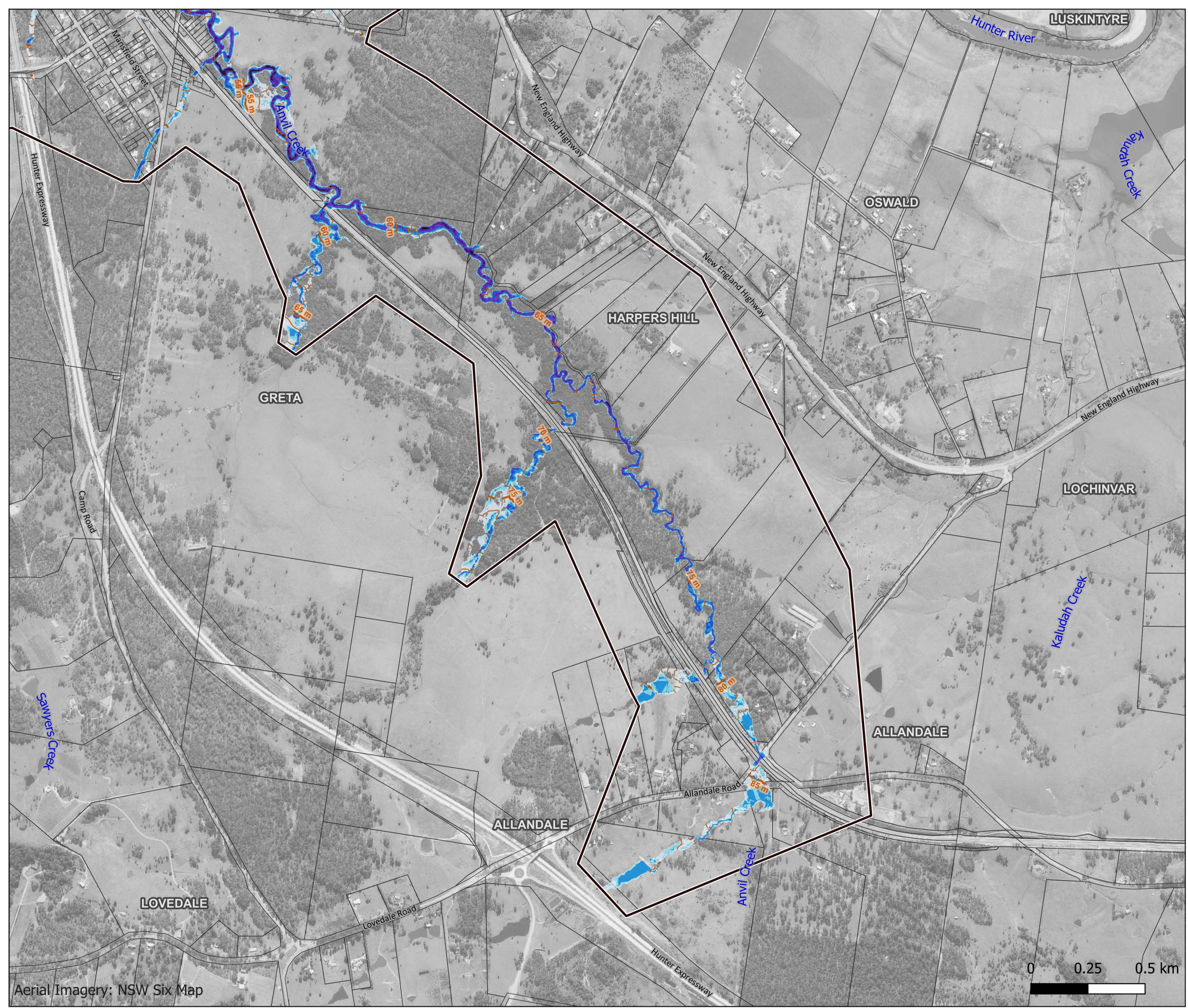
R h e l m



ROTHBURY

Aerial Imagery: NSW Six Map





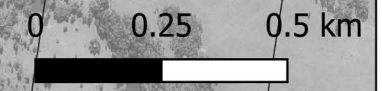
## Greta Updated Flood Study

### Peak Flood Depth and Elevation 5% AEP Map 3 of 3

- Legend
- Hydraulic Model Extent
  - Cadastrate
  - Water Level Contours
    - 5m
    - 1m
  - Peak Flood Depth (m)
    - $\leq 0.01$
    - 0.01 - 0.3
    - 0.3 - 0.5
    - 0.5 - 1
    - 1 - 1.5
    - 1.5 - 2
    - 2 - 3
    - 3 - 4
    - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56





## Greta Updated Flood Study

### Peak Flood Depth and Elevation 2% AEP Map 1 of 3

#### Legend

Hydraulic Model Extent

Cadastrate

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

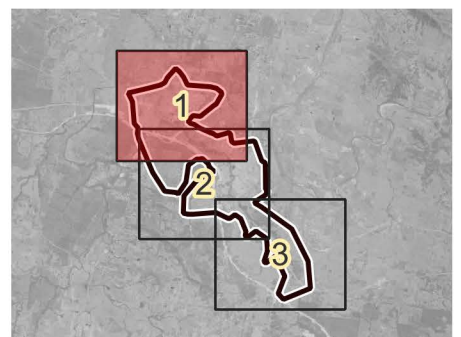
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

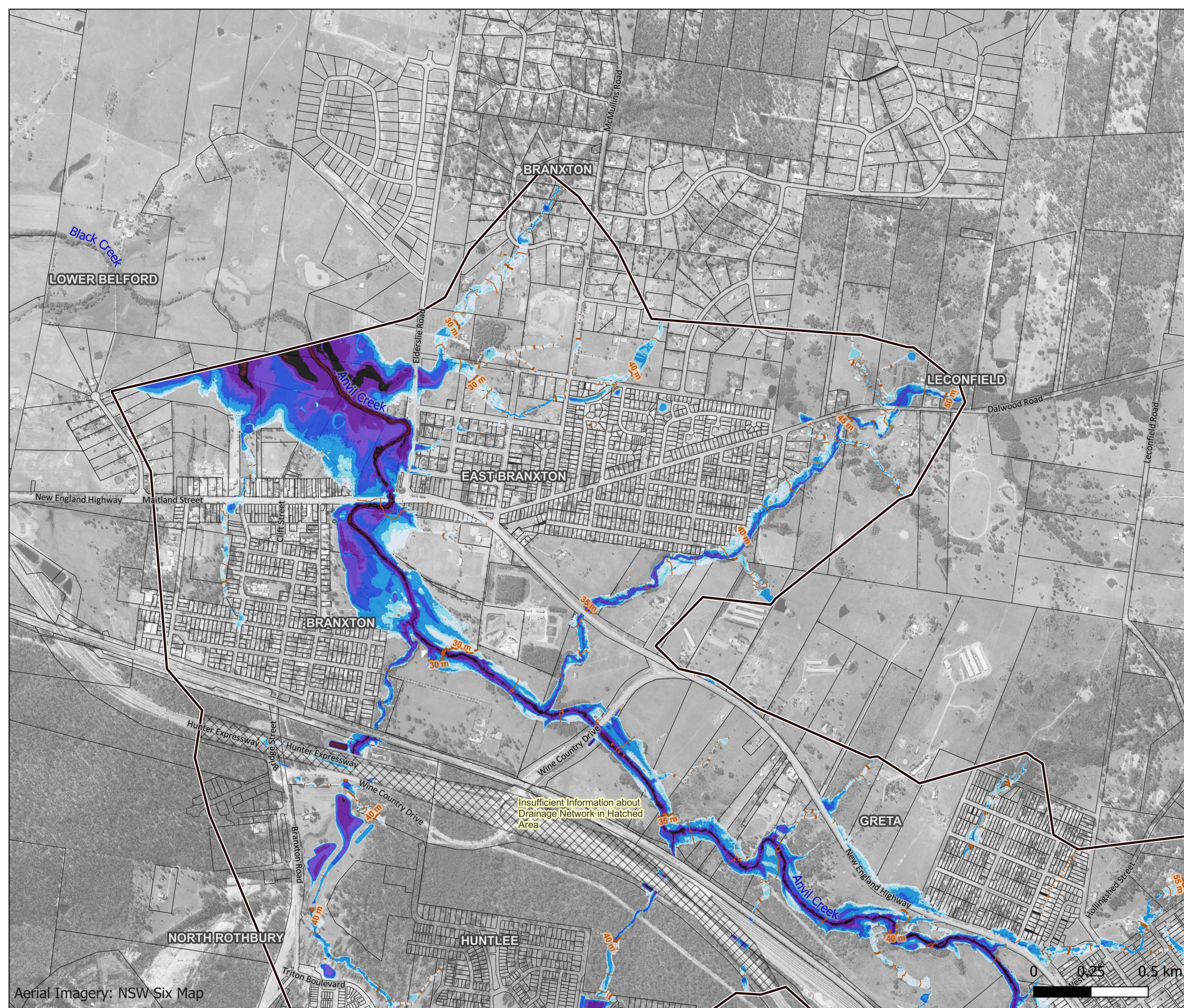
Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

R h e l m





Greta Updated Flood Study

Peak Flood Depth and  
Elevation  
2% AEP  
Map 2 of 3

Legend

Hydraulic Model Extent

Cadastre

Water Level Contours

5m

1m

Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

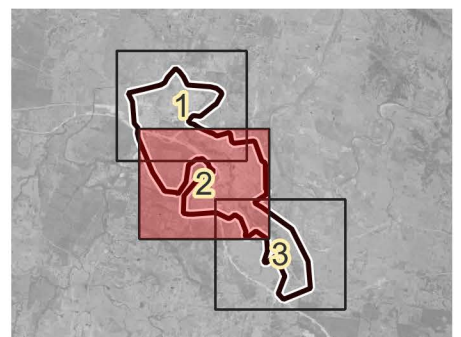
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

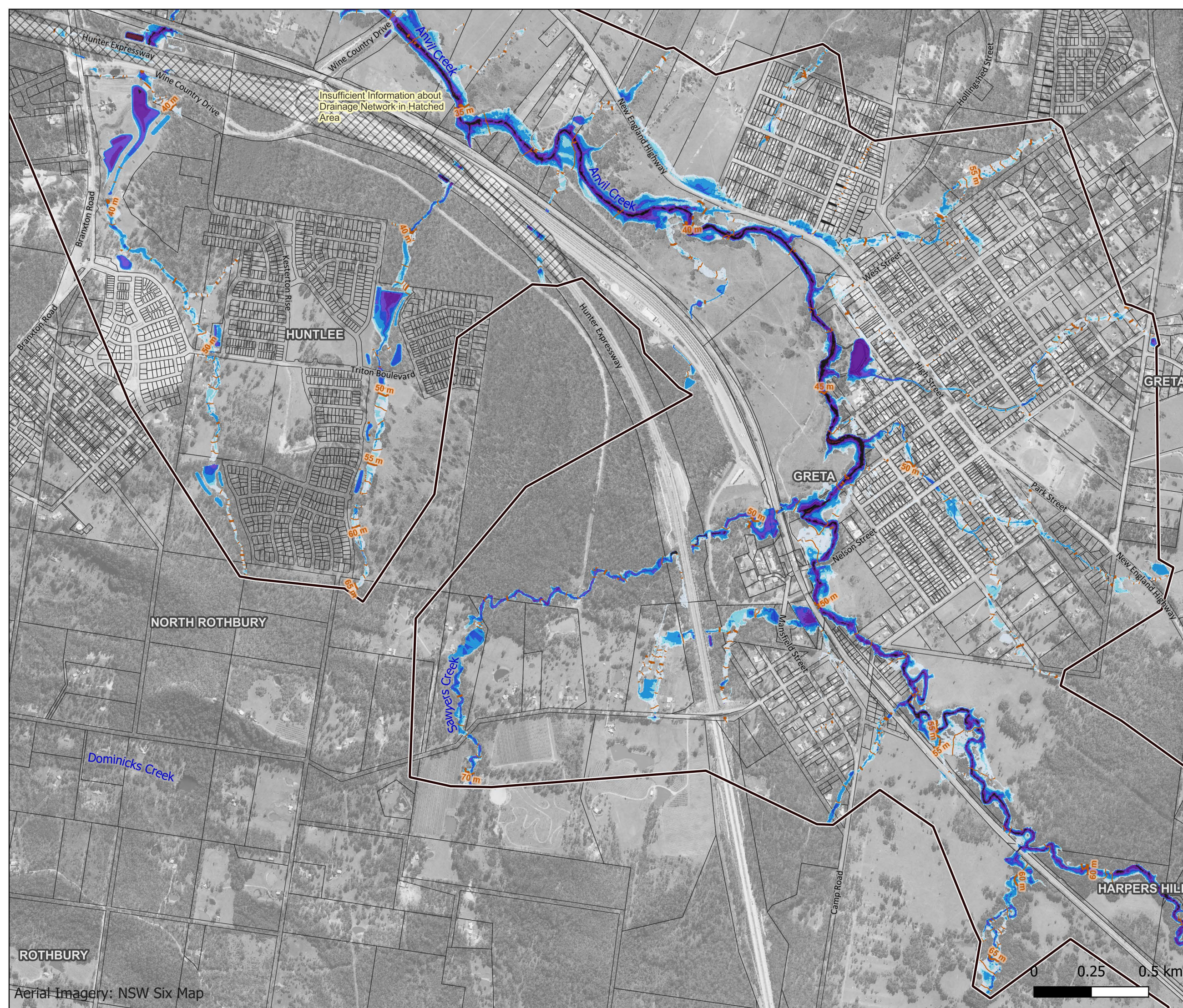
Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

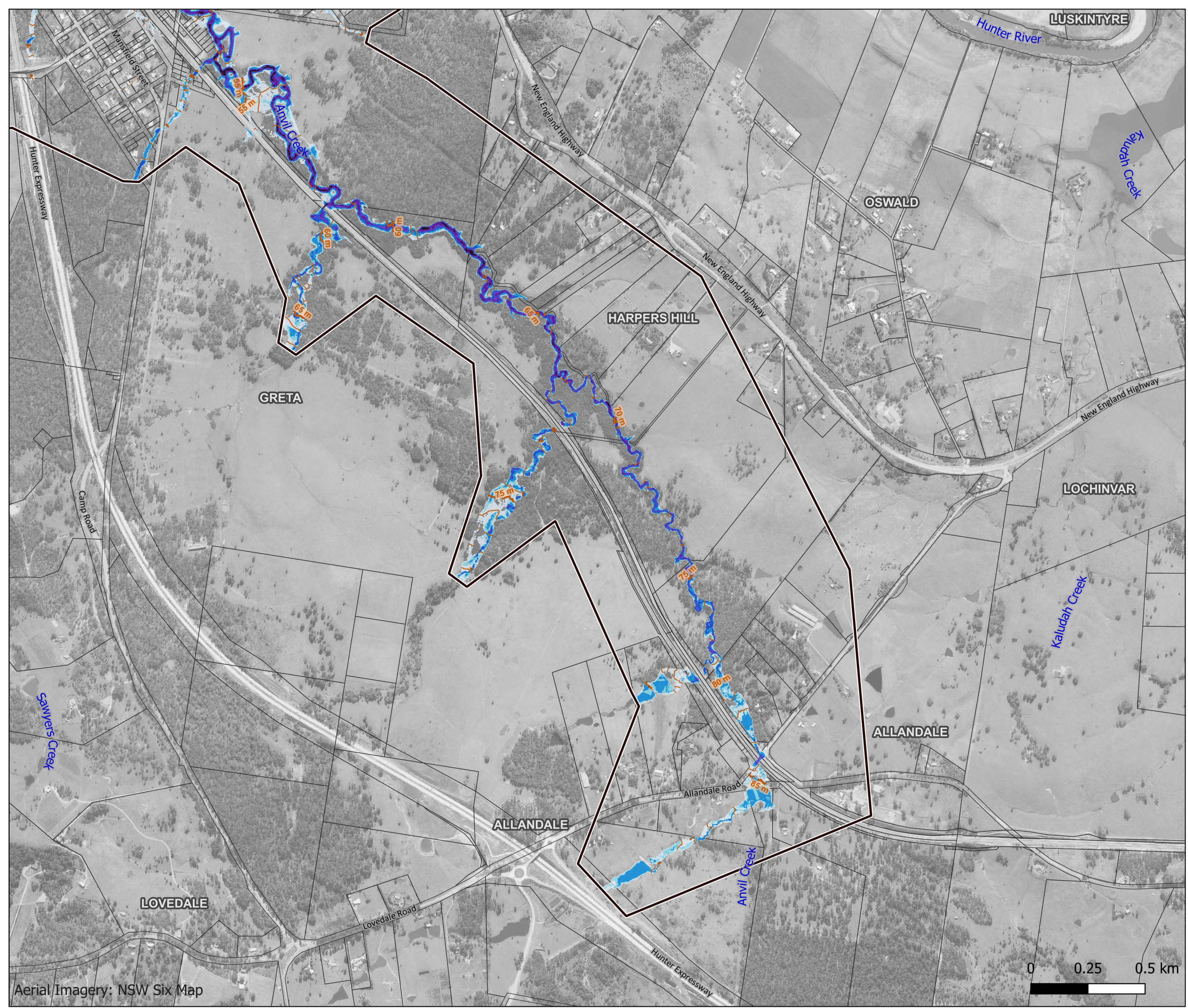
R h e l m



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-015c

**Greta Updated Flood Study**

**Peak Flood Depth and Elevation  
2% AEP  
Map 3 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56







## Greta Updated Flood Study

### Peak Flood Depth and Elevation 1% AEP Map 1 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

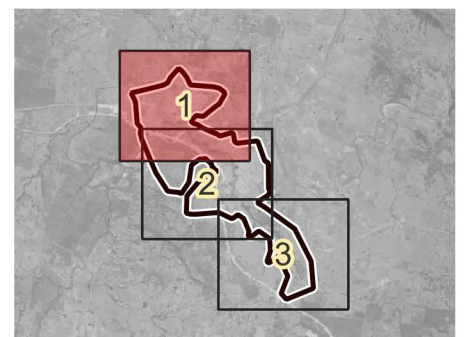
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

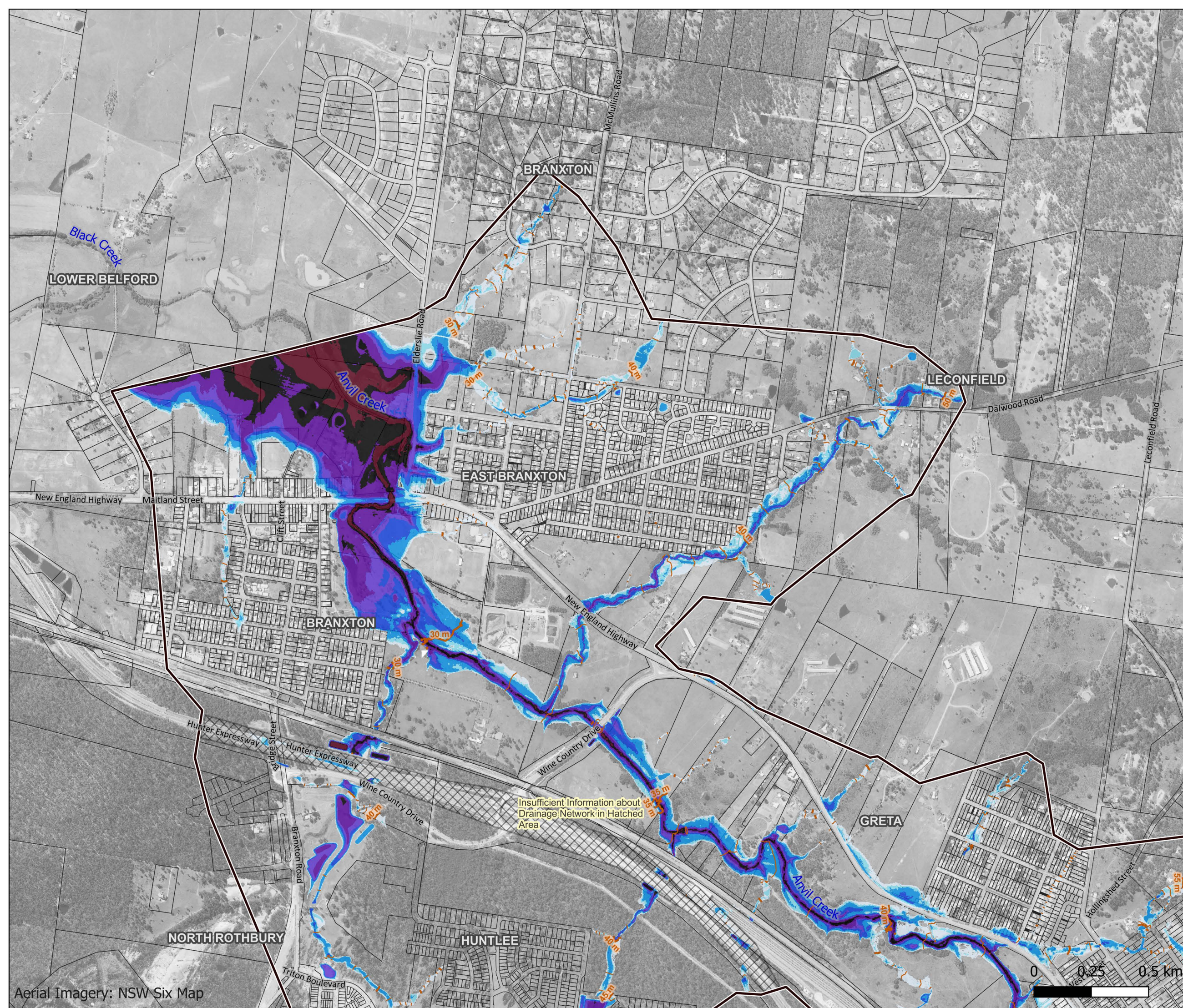
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56







## Greta Updated Flood Study

### Peak Flood Depth and Elevation 1% AEP Map 2 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

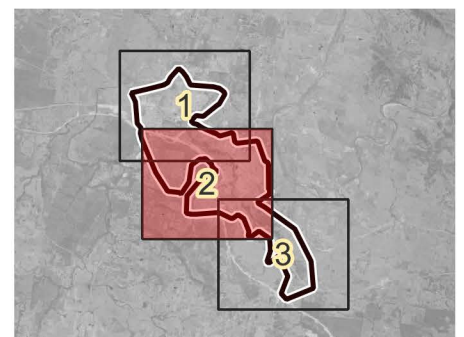
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

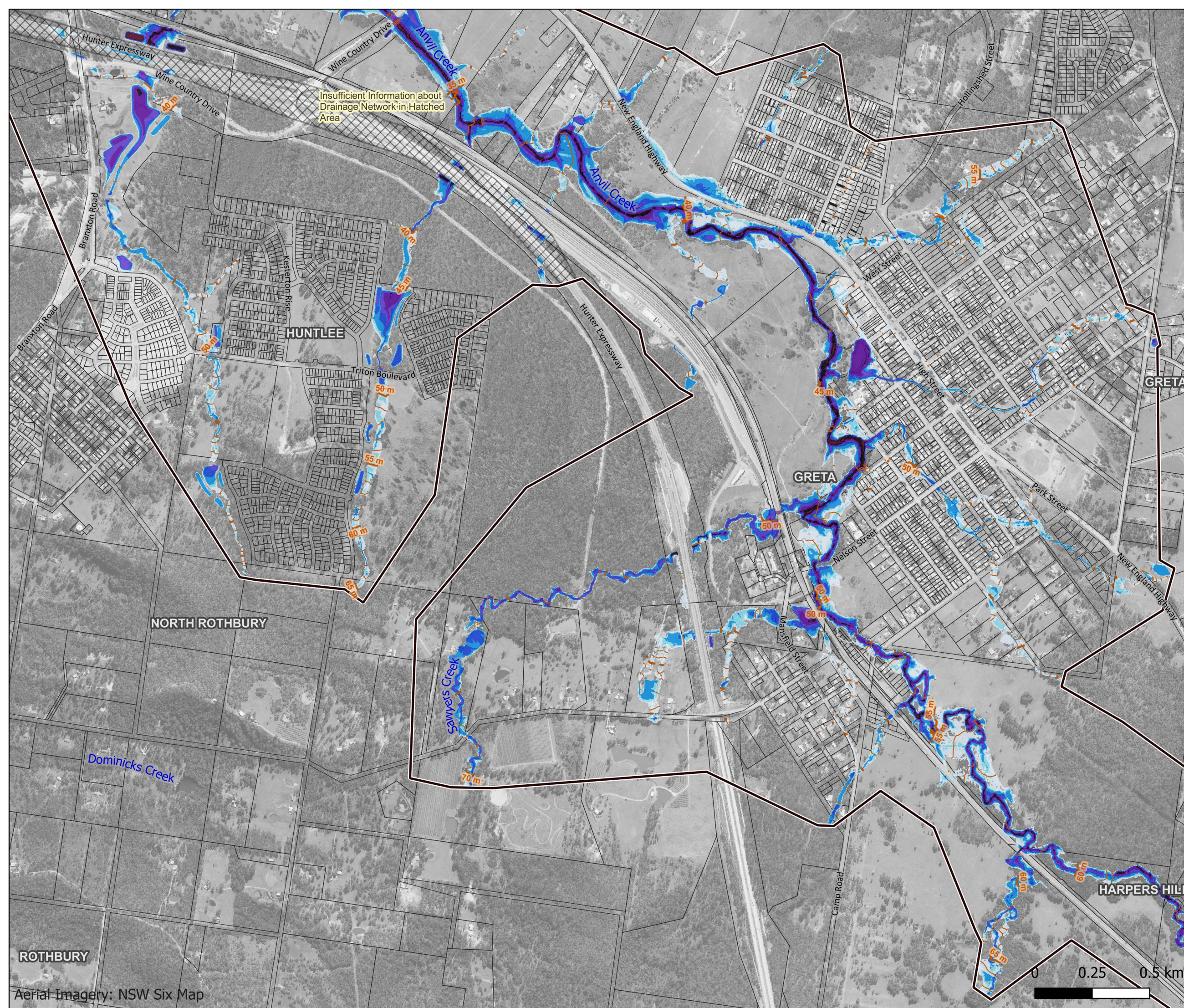
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

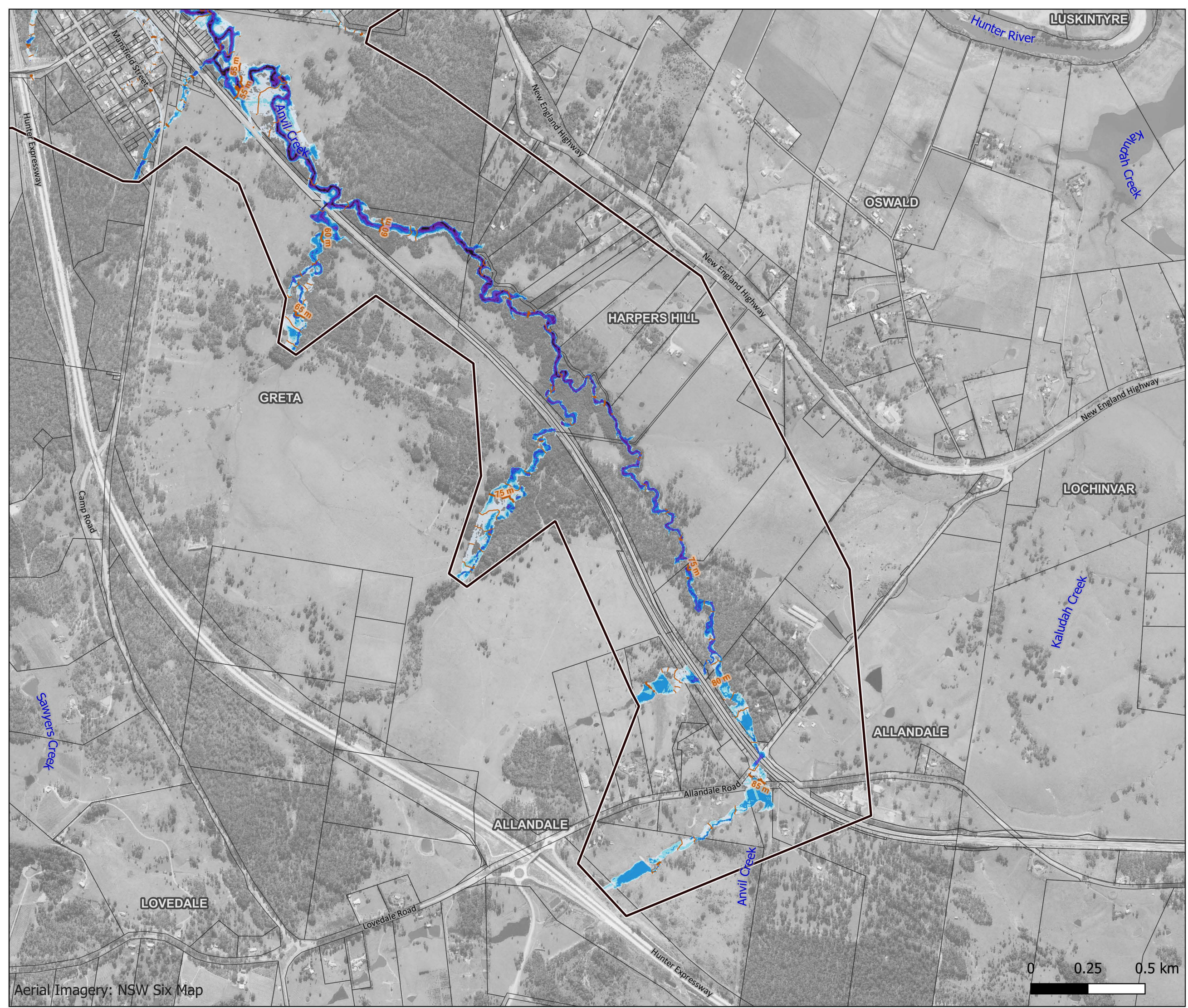
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-016c

**Greta Updated Flood Study**

**Peak Flood Depth and Elevation  
1% AEP  
Map 3 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56







**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
0.5% AEP  
Map 1 of 3**

**Legend**

Hydraulic Model Extent

Cadastre

**Water Level Contours**

5m

1m

**Peak Flood Depth (m)**

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

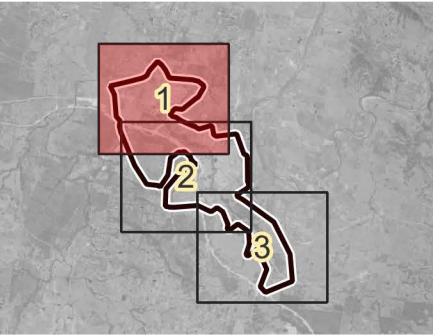
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

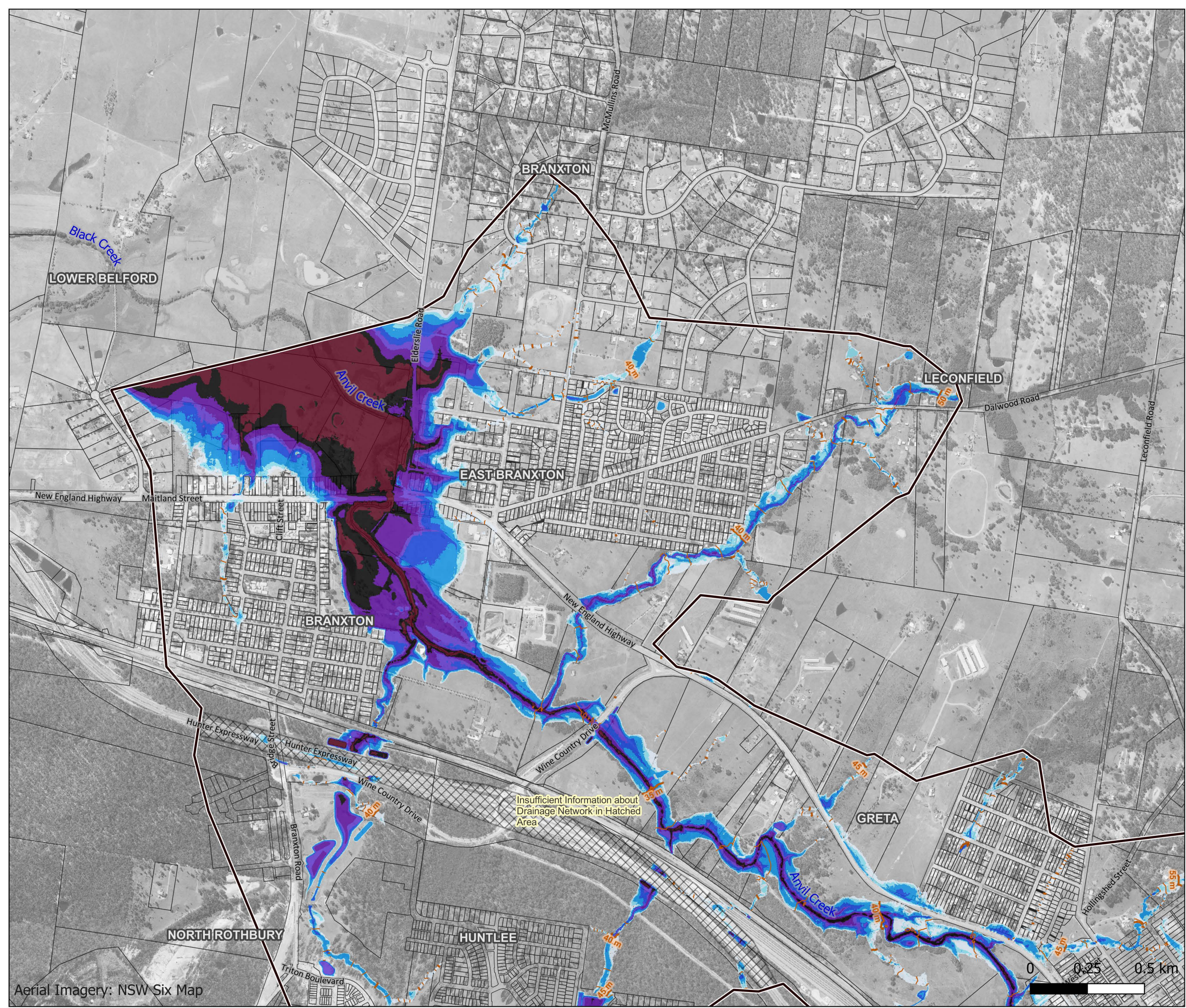
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56







## Greta Updated Flood Study

### Peak Flood Depth and Elevation 0.5% AEP Map 2 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

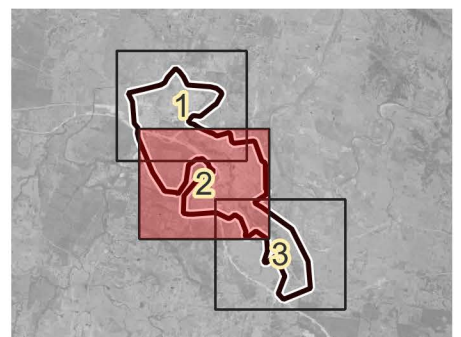
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

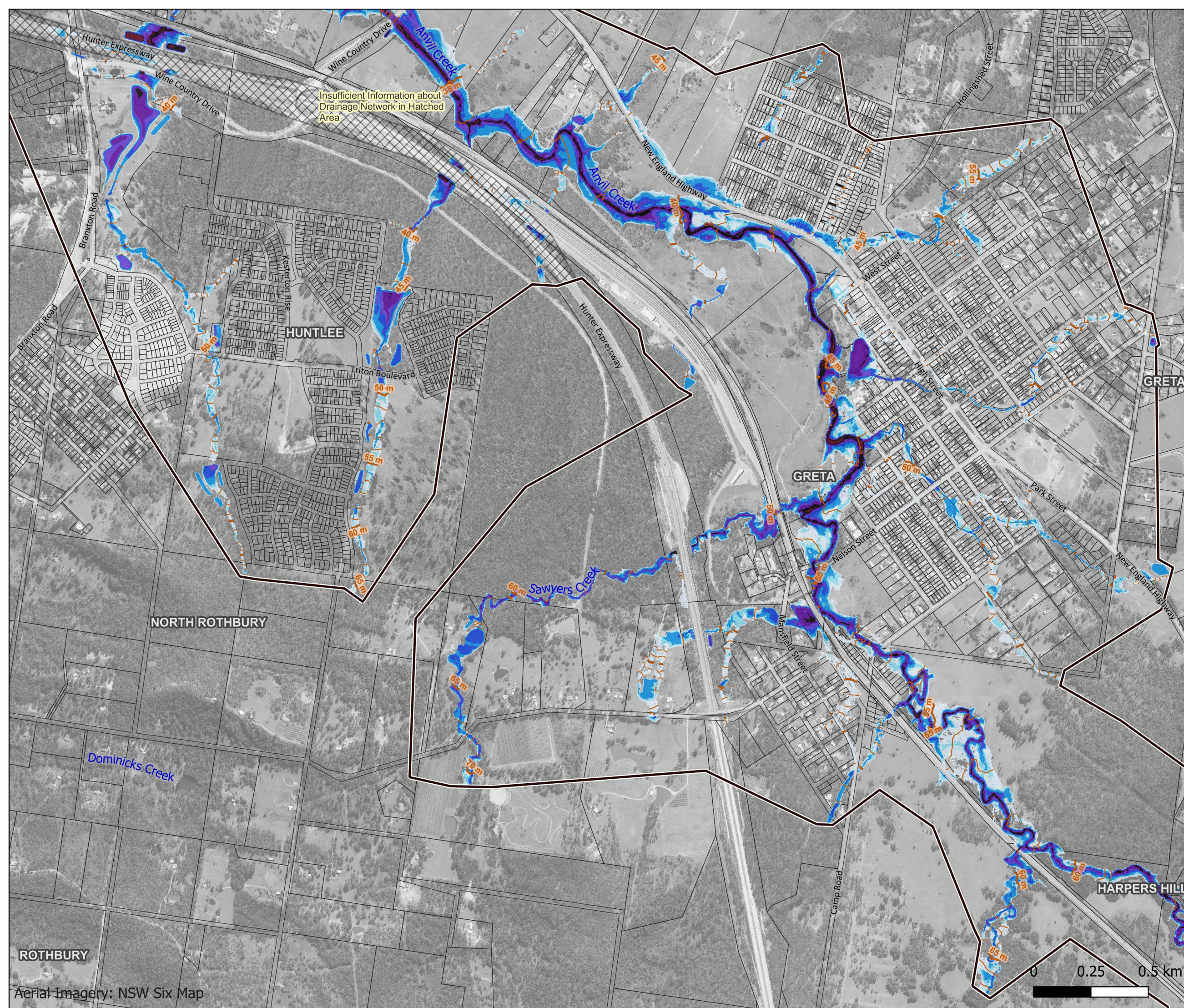
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

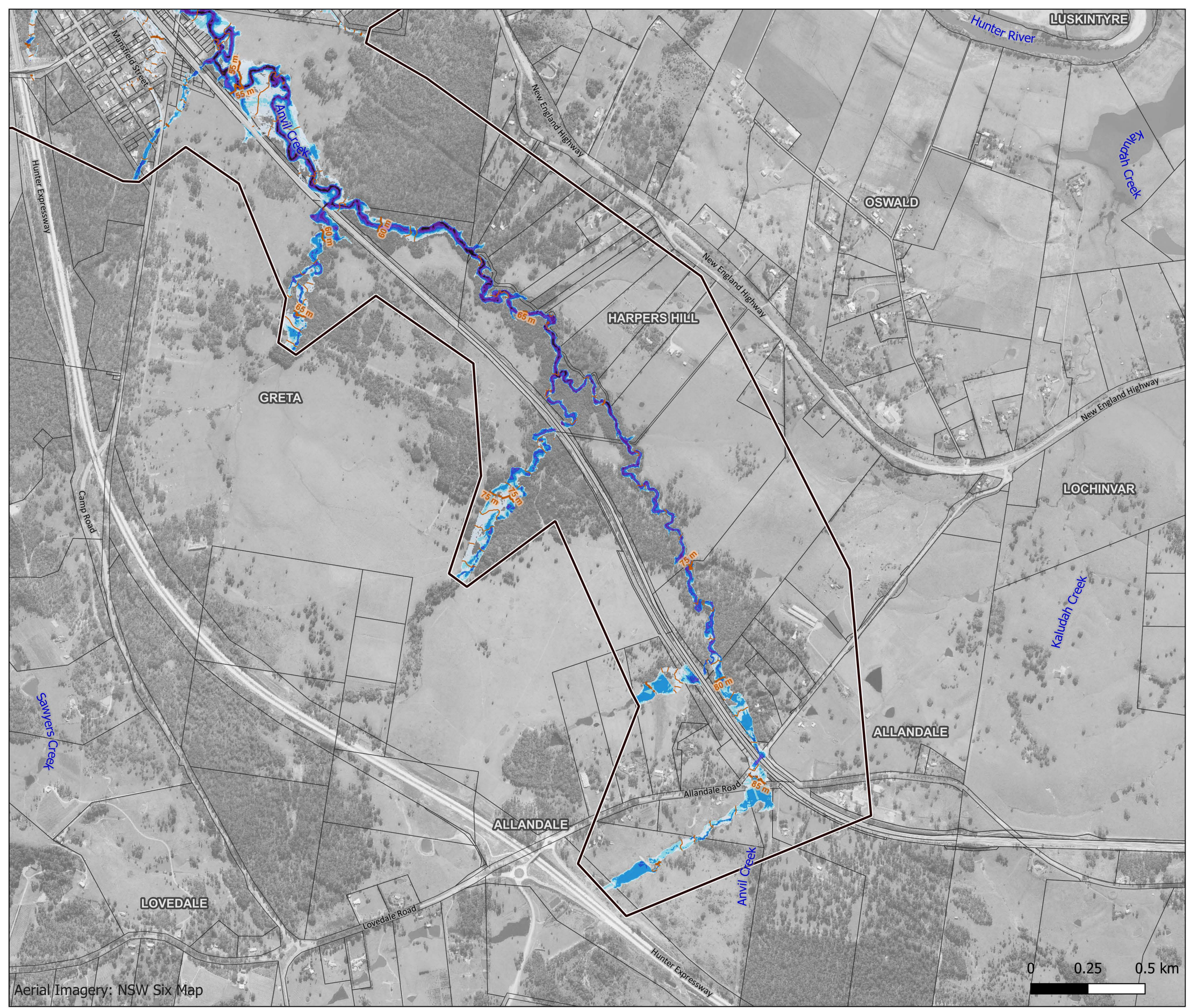
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map

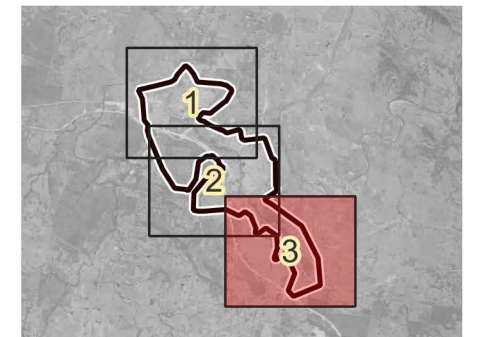




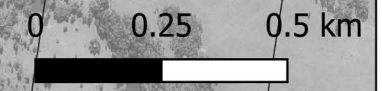
**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
0.5% AEP  
Map 3 of 3**

- Legend**
- Hydraulic Model Extent
  - Cadastre
  - Water Level Contours**
    - 5m
    - 1m
  - Peak Flood Depth (m)**
    - <= 0.01
    - 0.01 - 0.3
    - 0.3 - 0.5
    - 0.5 - 1
    - 1 - 1.5
    - 1.5 - 2
    - 2 - 3
    - 3 - 4
    - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







## Greta Updated Flood Study

### Peak Flood Depth and Elevation 0.2% AEP Map 1 of 3

#### Legend

 Hydraulic Model Extent


 Cadastre


#### Water Level Contours


 5m


 1m


#### Peak Flood Depth (m)


  $\leq 0.01$


 0.01 - 0.3

 0.3 - 0.5

 0.5 - 1

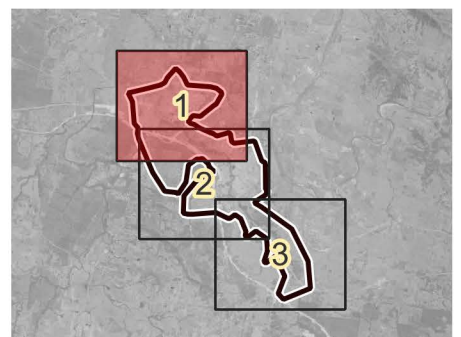
 1 - 1.5

 1.5 - 2

 2 - 3

 3 - 4

  $> 4$



Job Number: J1703

Scale : 1:15000@A3

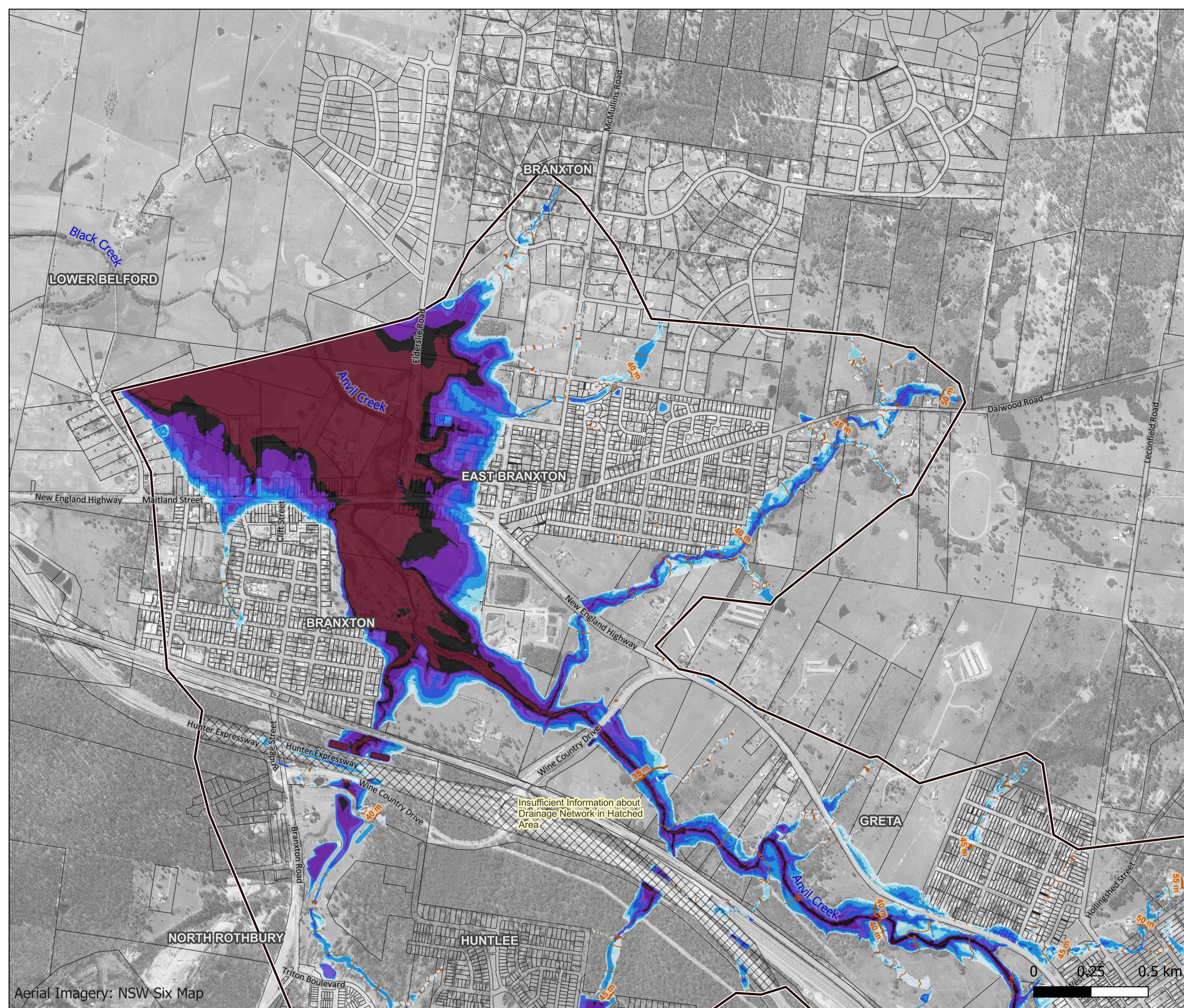
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56







## Greta Updated Flood Study

### Peak Flood Depth and Elevation 0.2% AEP Map 2 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

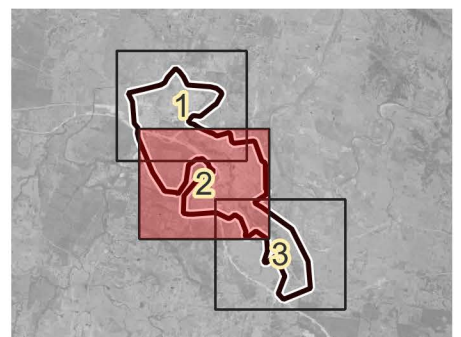
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

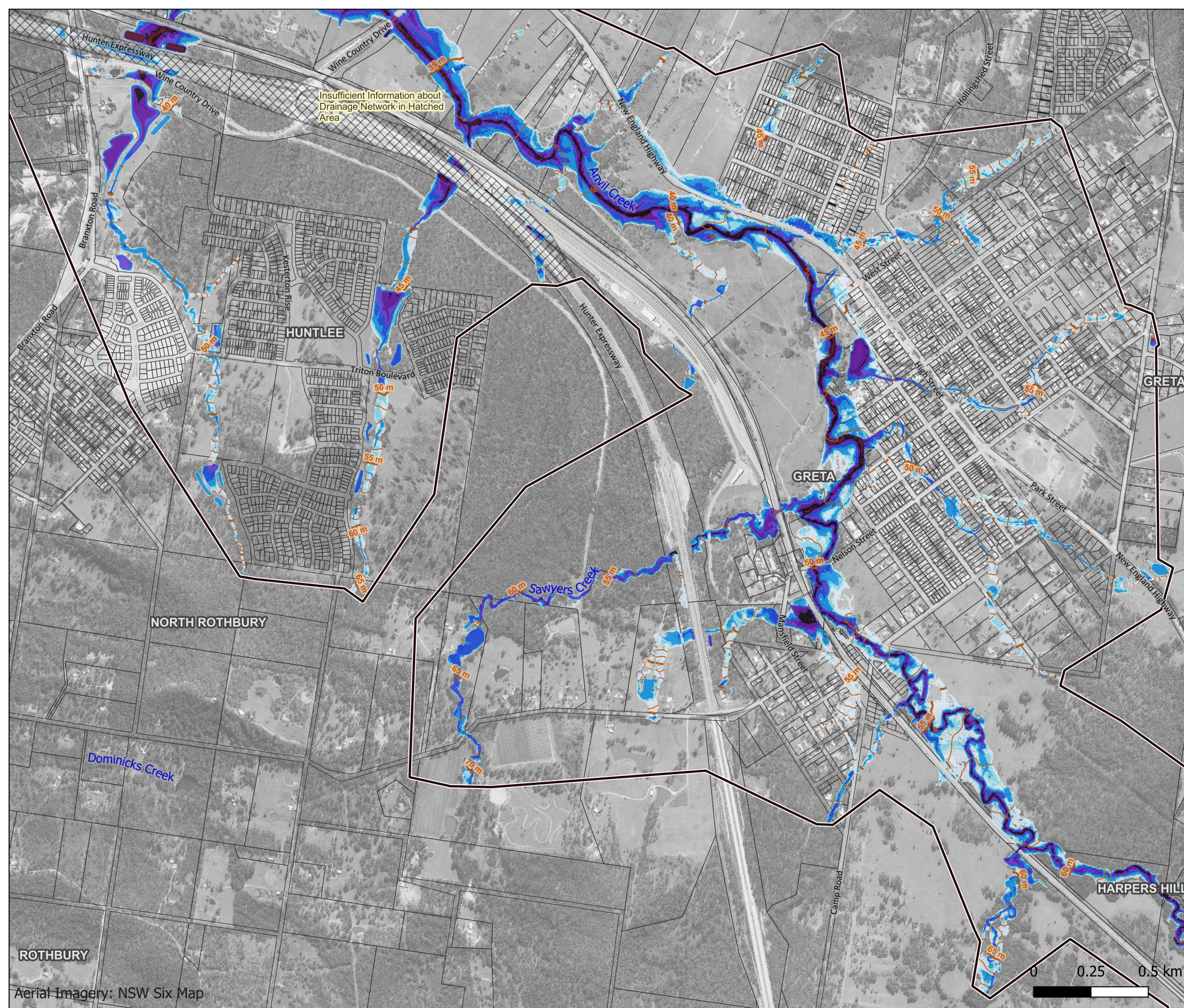
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

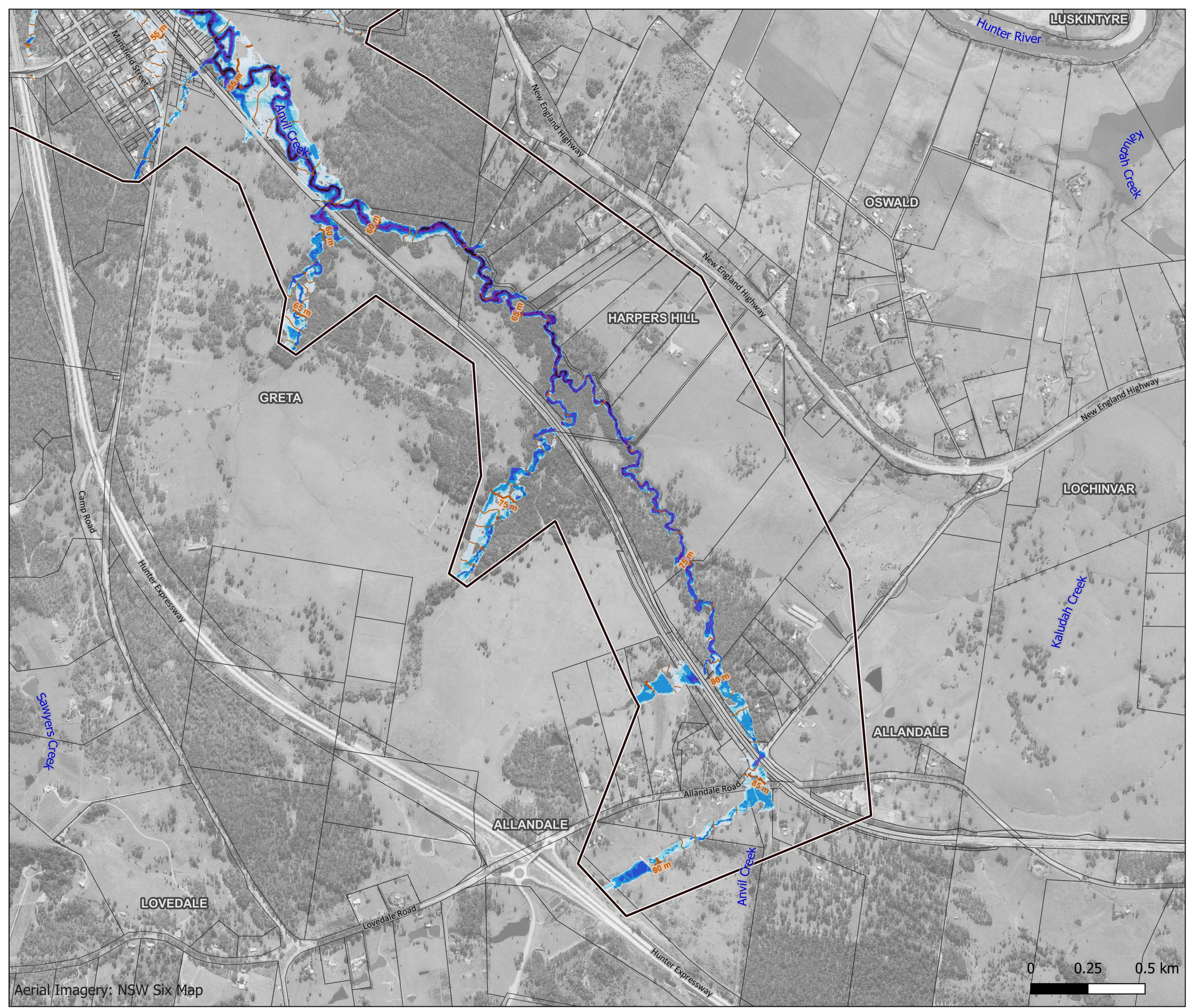
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





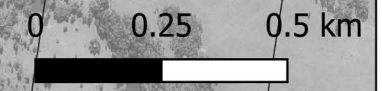
**Greta Updated Flood Study**

**Peak Flood Depth and  
Elevation  
0.2% AEP  
Map 3 of 3**

- Legend**
- Hydraulic Model Extent
  - Cadastre
  - Water Level Contours**
    - 5m
    - 1m
  - Peak Flood Depth (m)**
    - $\leq 0.01$
    - 0.01 - 0.3
    - 0.3 - 0.5
    - 0.5 - 1
    - 1 - 1.5
    - 1.5 - 2
    - 2 - 3
    - 3 - 4
    - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







## Greta Updated Flood Study

### Peak Flood Depth and Elevation PMF Map 1 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

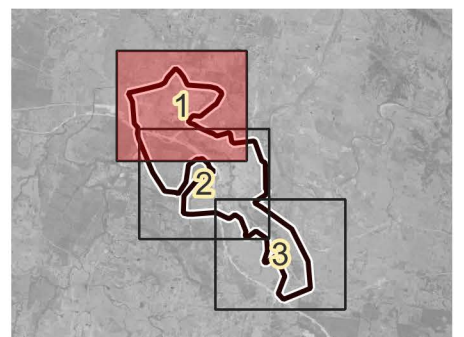
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

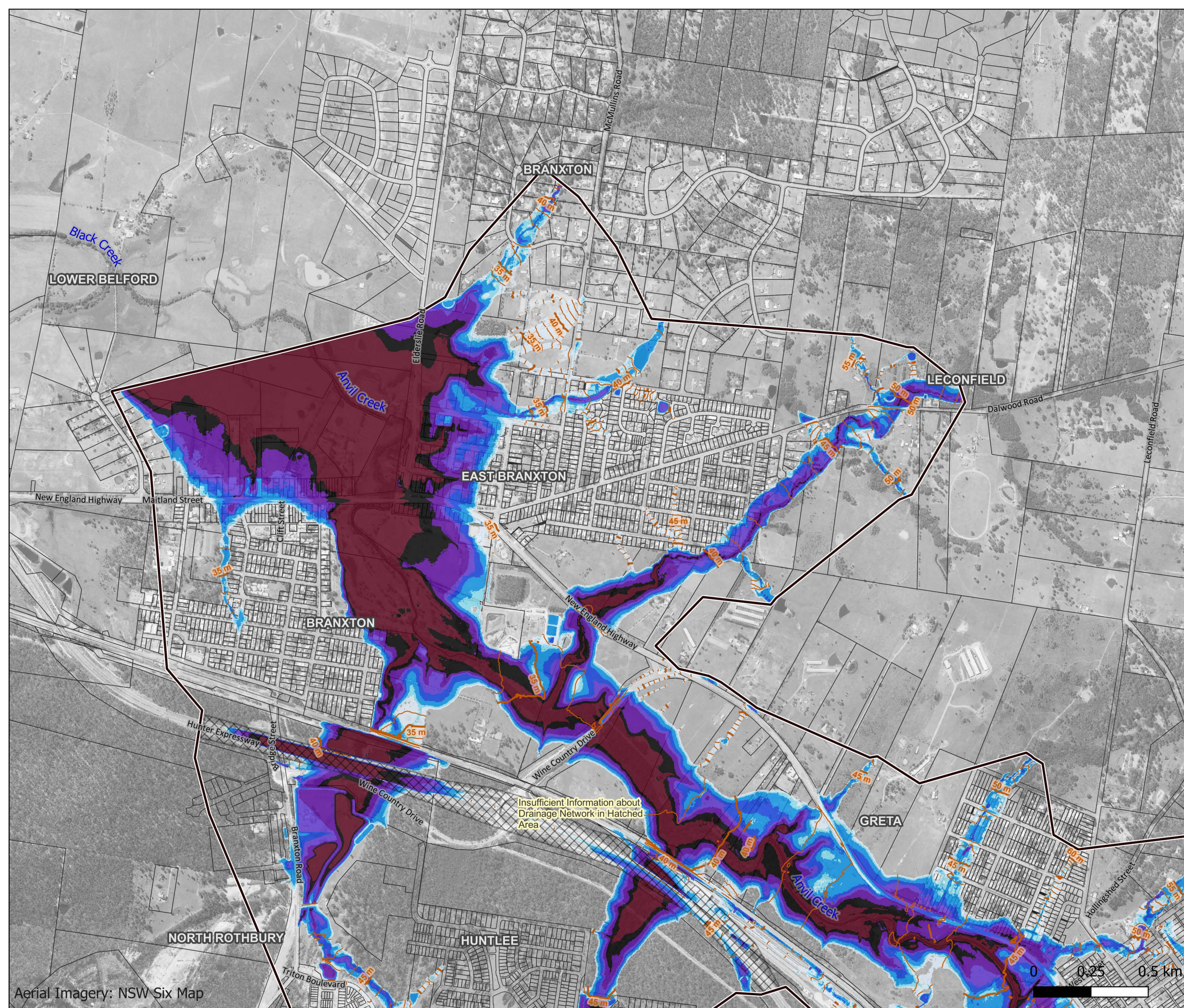
Date : 14/01/2025

Revision : 02

Created by : JPS

Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56





## Greta Updated Flood Study

### Peak Flood Depth and Elevation PMF Map 2 of 3

#### Legend

Hydraulic Model Extent

Cadastre

#### Water Level Contours

5m

1m

#### Peak Flood Depth (m)

$\leq 0.01$

0.01 - 0.3

0.3 - 0.5

0.5 - 1

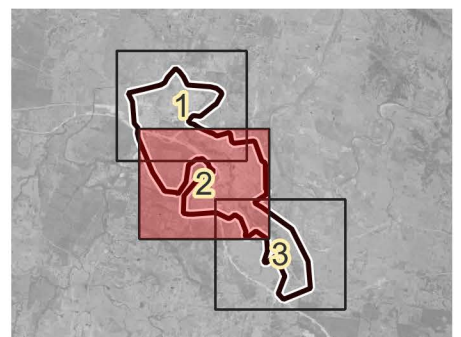
1 - 1.5

1.5 - 2

2 - 3

3 - 4

$> 4$



Job Number: J1703

Scale : 1:15000@A3

Date : 14/01/2025

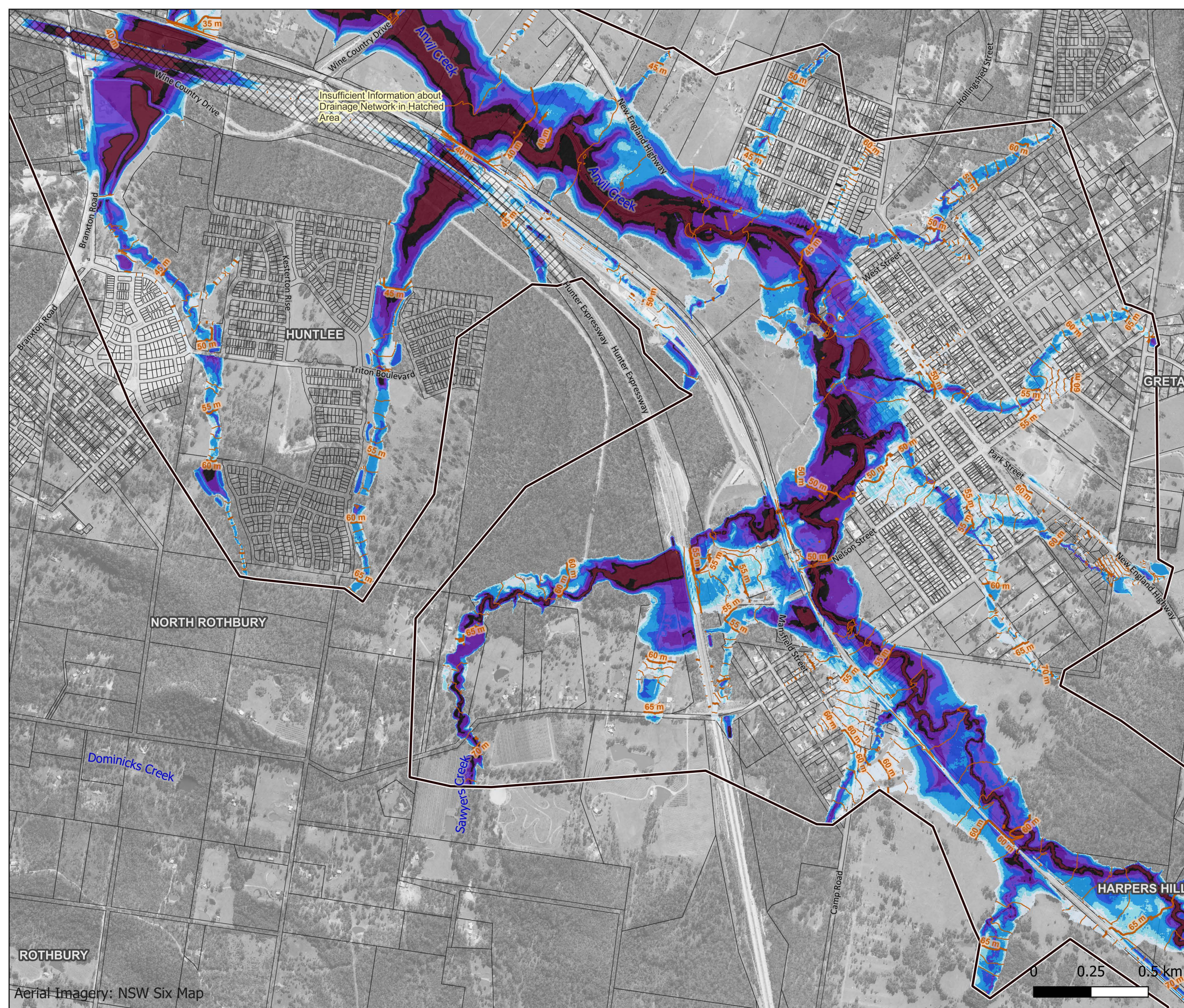
Revision : 02

Created by : JPS

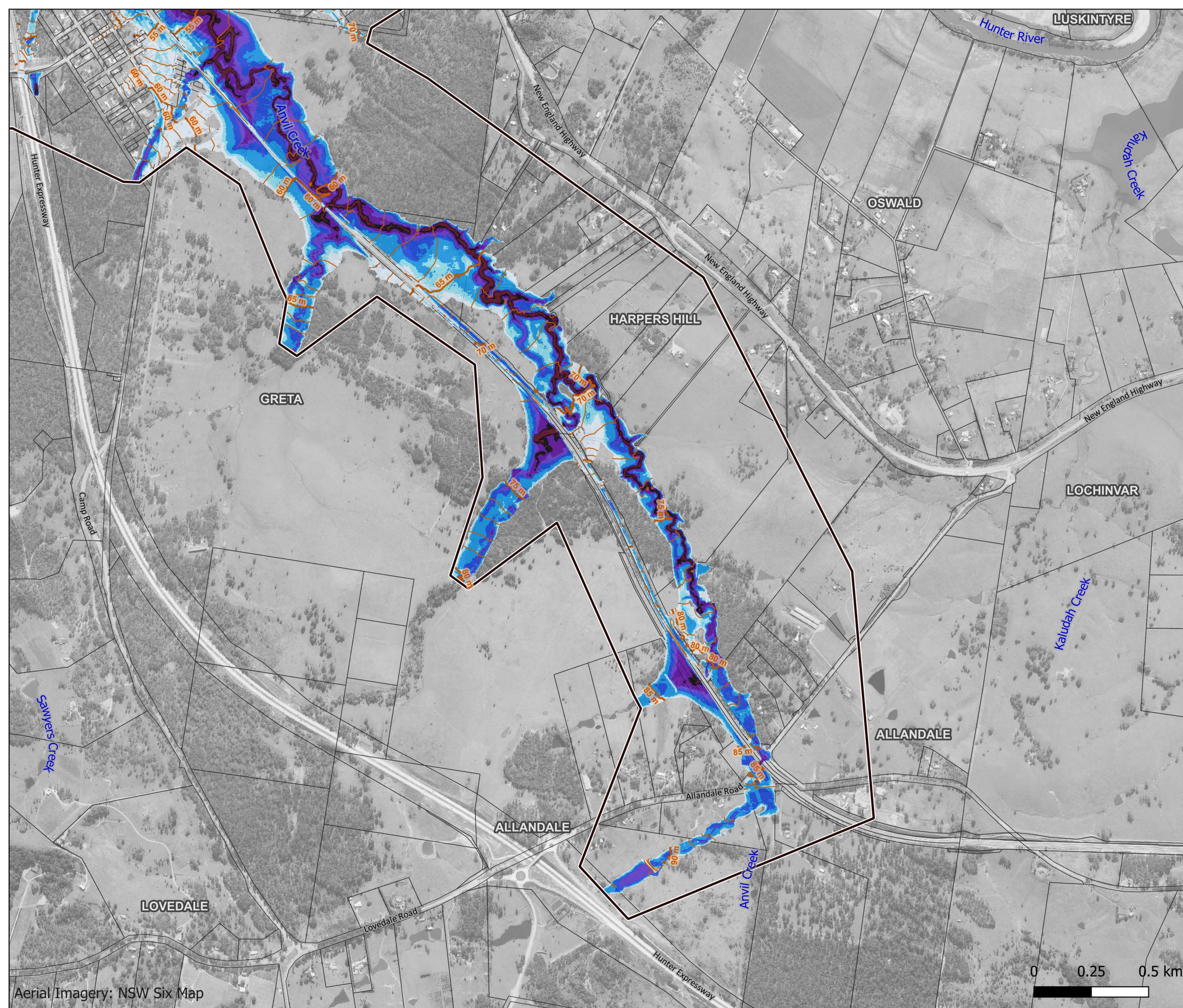
Reviewed by : JRF

Coordinate System : GDA94 / MGA  
zone 56

R h e l m







## Greta Updated Flood Study

**Peak Flood Depth and  
Elevation  
PMF  
Map 3 of 3**

### Legend










-  Hydraulic Model Extent

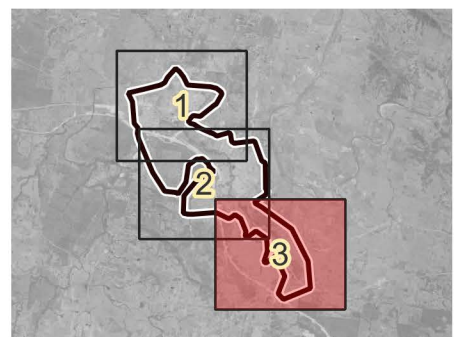
- ☐
- Cadastre

## Water Level Contours

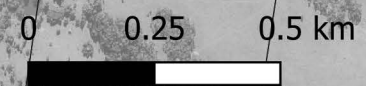
- 5m  
— 1m

## Peak Flood Depth (m)

-   $\leq 0.01$   
 0.01 - 0.3  
 0.3 - 0.5  
 0.5 - 1  
 1 - 1.5  
 1.5 - 2  
 2 - 3  
 3 - 4  
  $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by: JPS  
Reviewed by: JRF  
Coordinate System : GDA94 / MGA  
zone 56







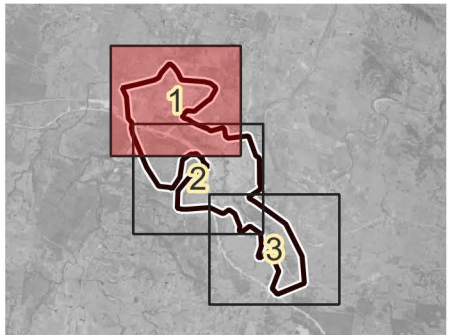
RG-01-020a

## Greta Updated Flood Study

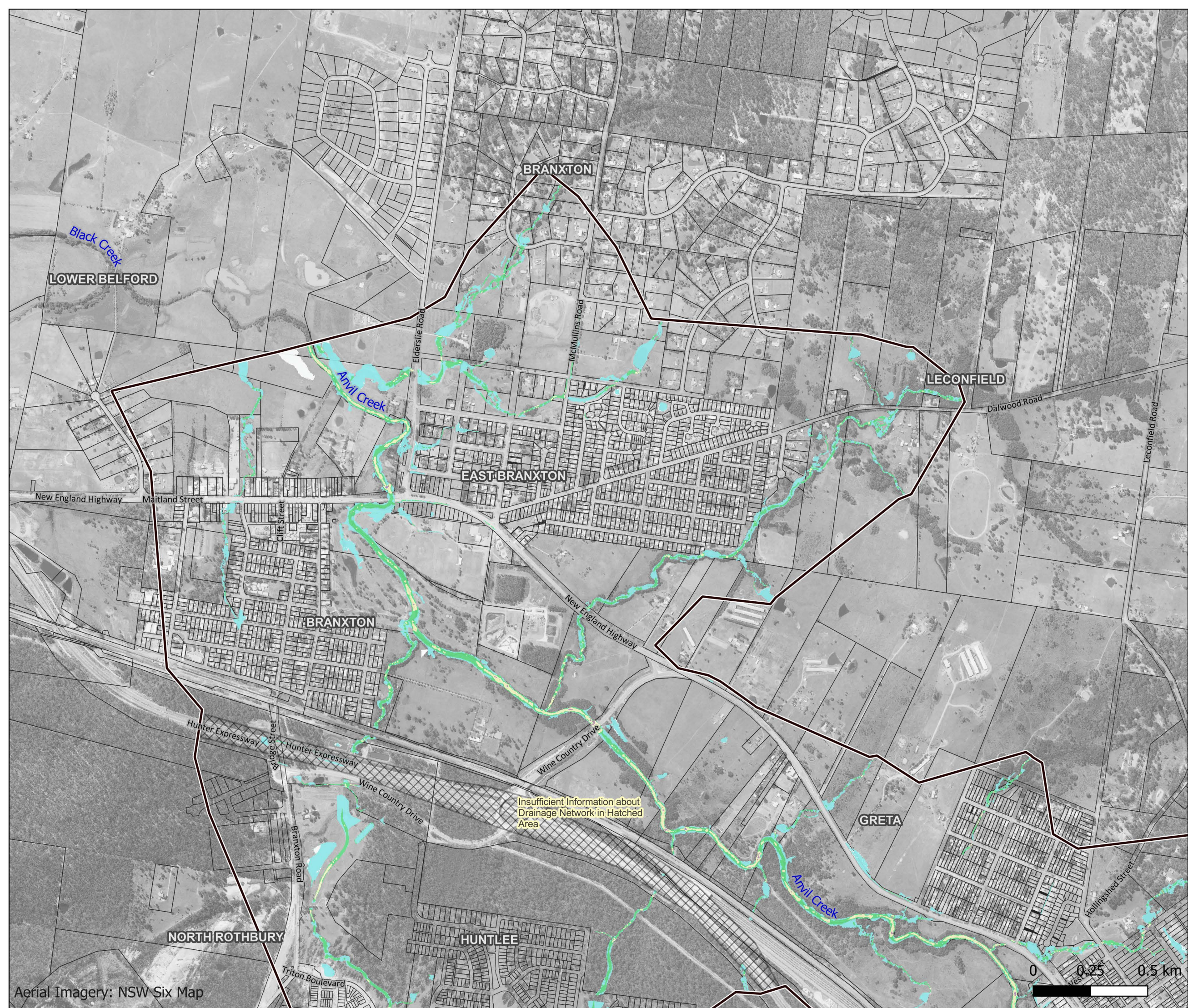
Peak Flood Velocity  
1EY  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







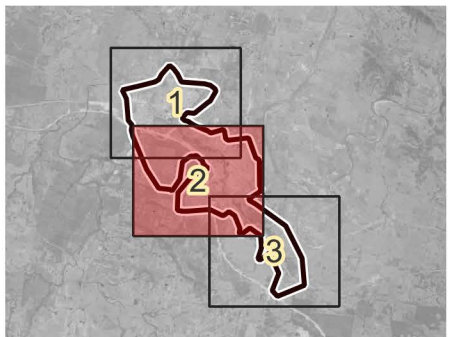
RG-01-020b

# Greta Updated Flood Study

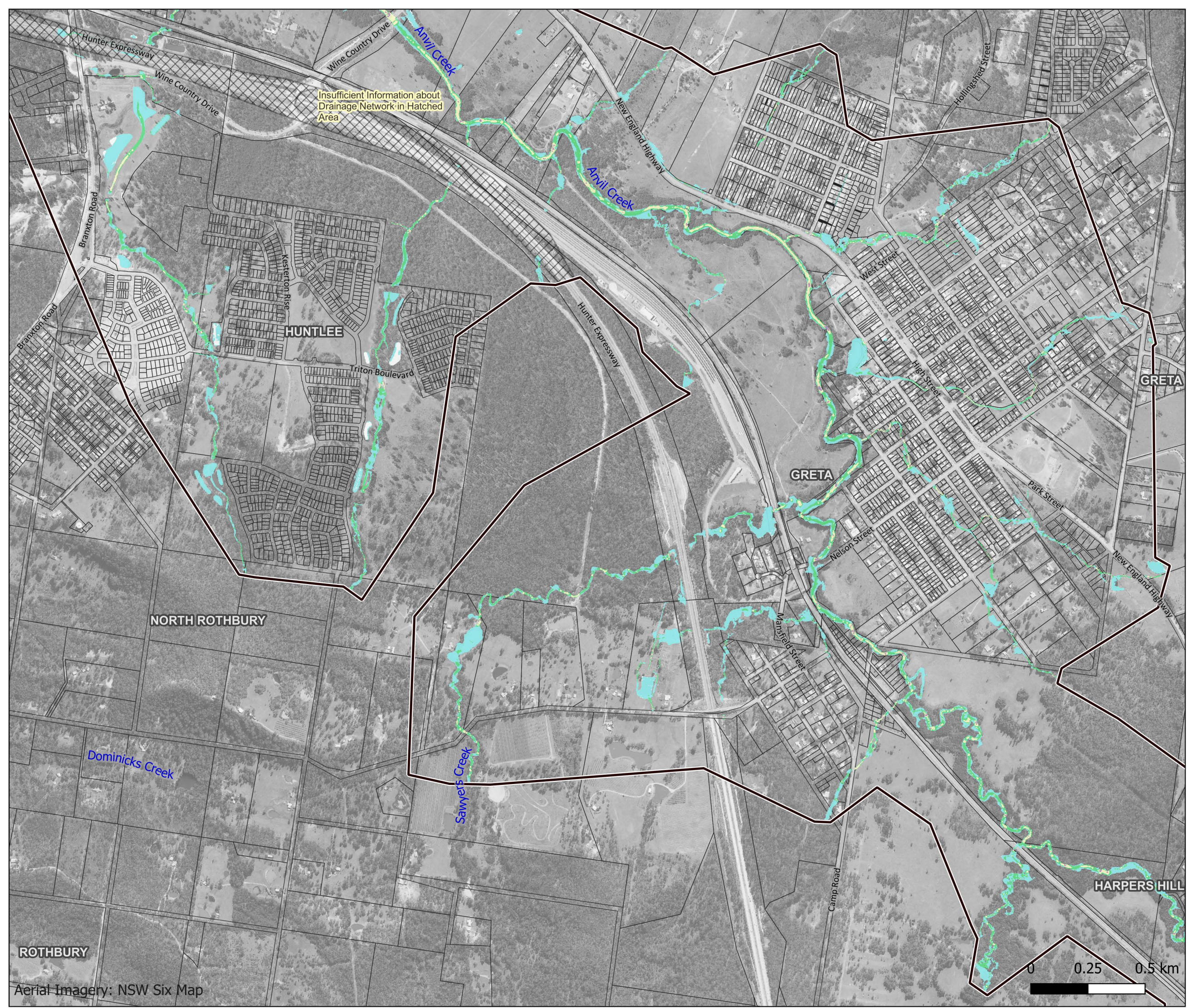
Peak Flood Velocity  
1EY  
Map 2 of 3

## Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-020c

Greta Updated Flood Study

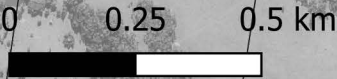
Peak Flood Velocity  
1EY  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







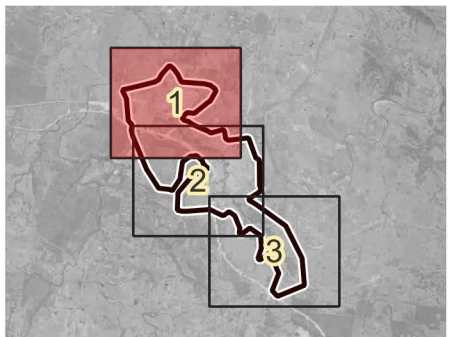
RG-01-021a

## Greta Updated Flood Study

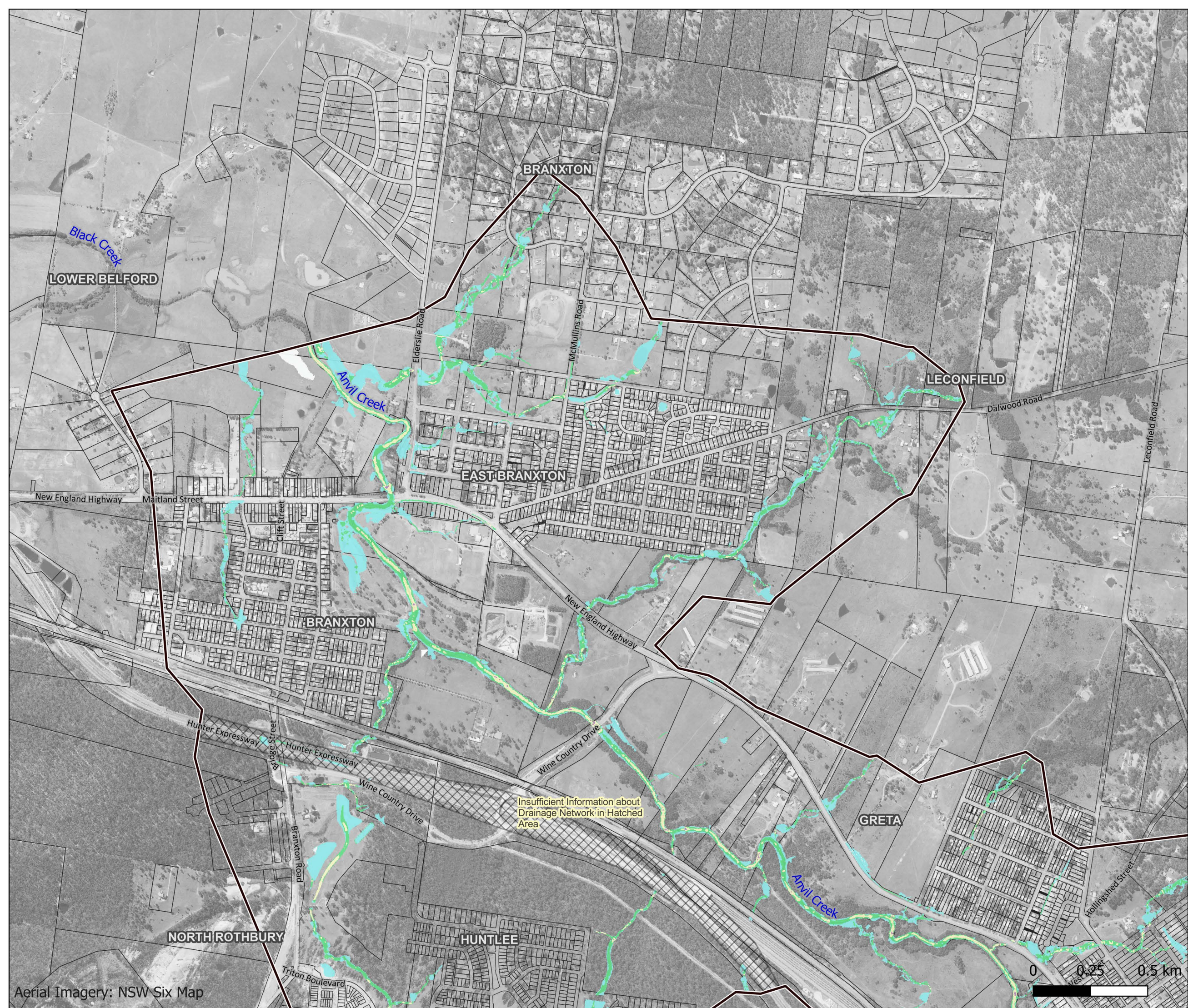
Peak Flood Velocity  
50% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







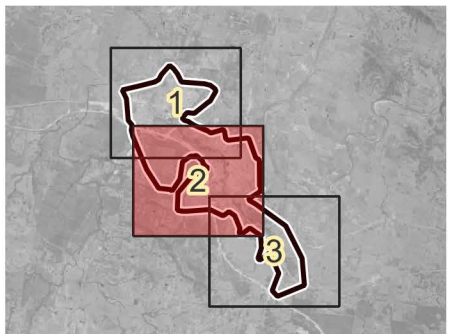
RG-01-021b

## Greta Updated Flood Study

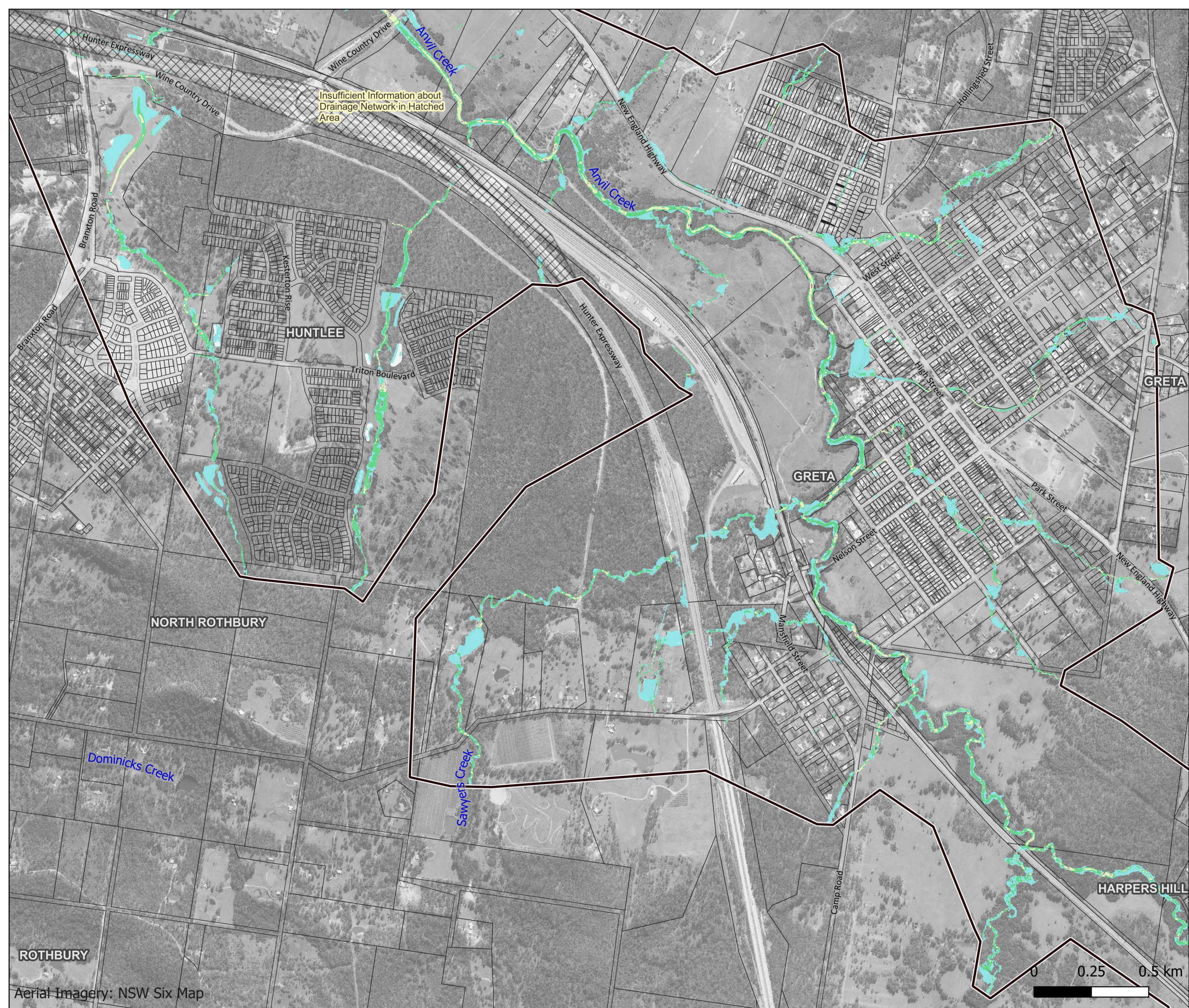
Peak Flood Velocity  
50% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-021c

Greta Updated Flood Study

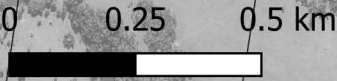
Peak Flood Velocity  
50% AEP  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







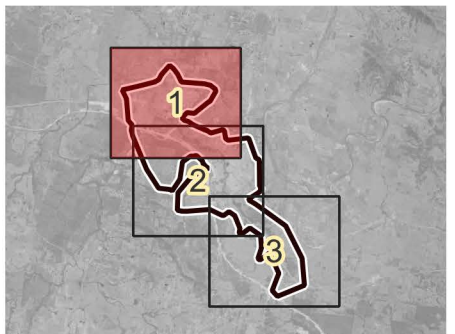
RG-01-022a

## Greta Updated Flood Study

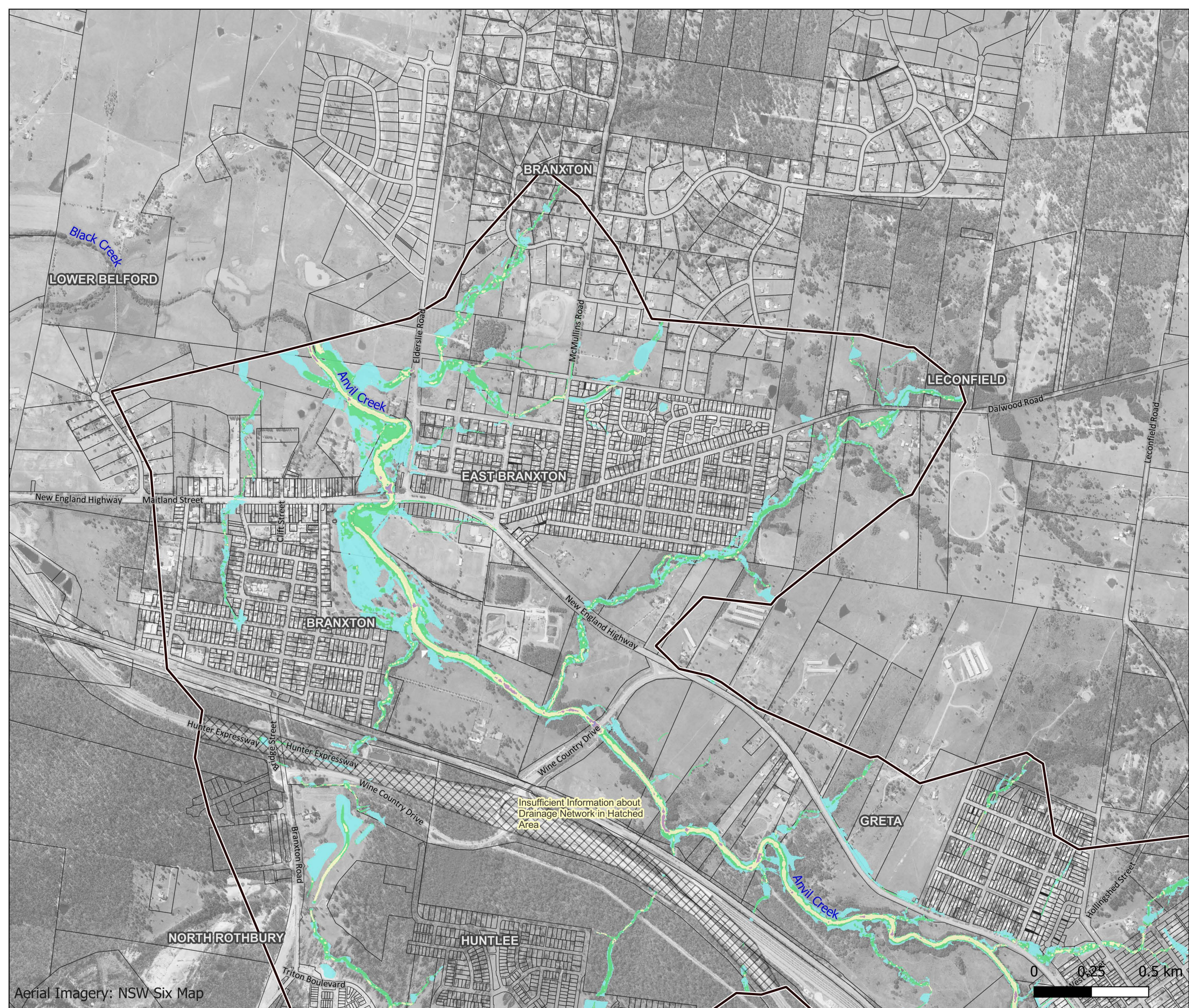
Peak Flood Velocity  
20% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







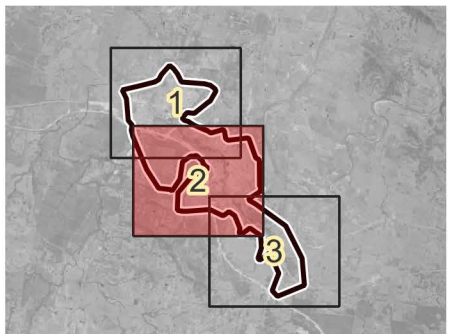
RG-01-022b

## Greta Updated Flood Study

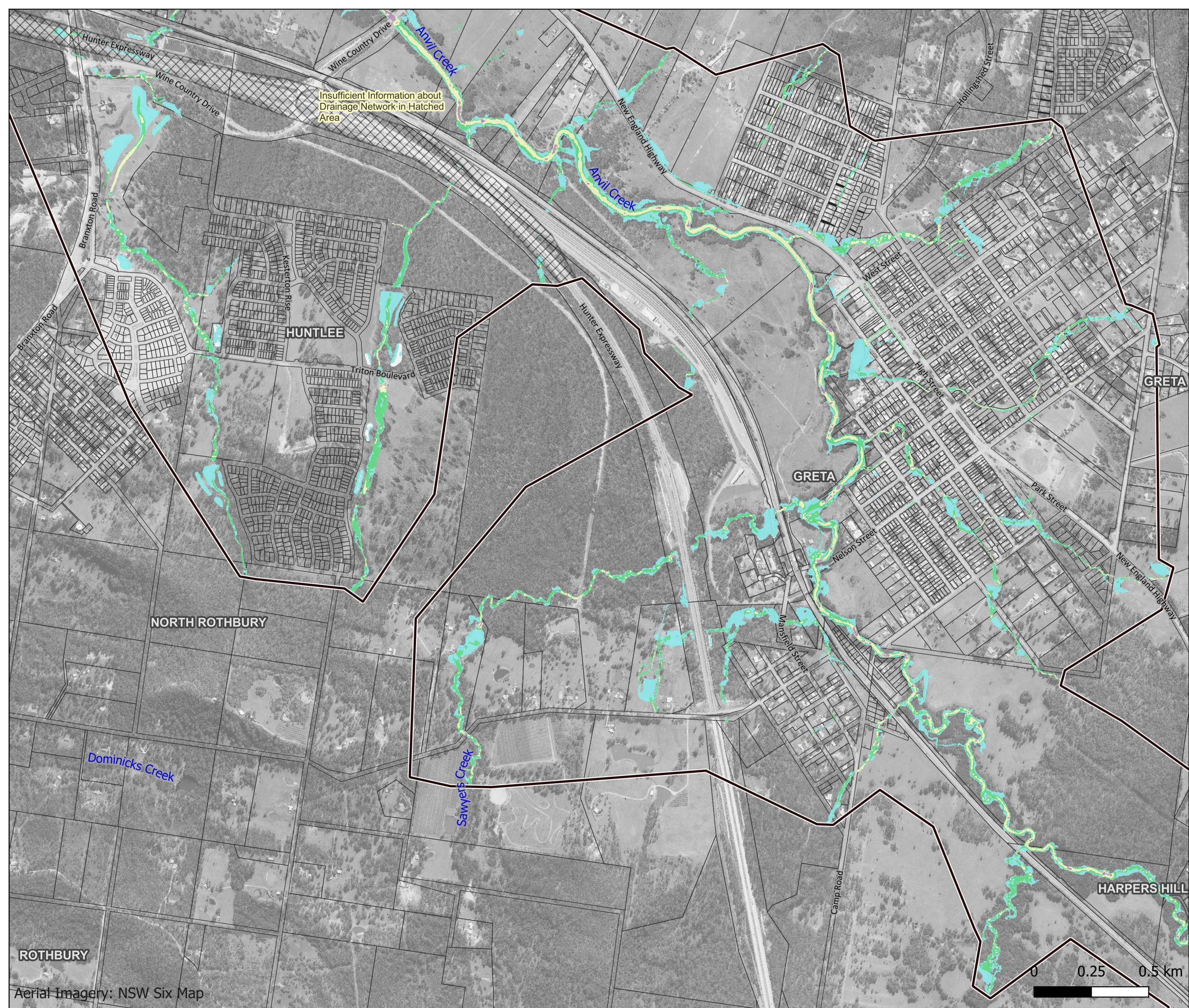
Peak Flood Velocity  
20% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-022c

## Greta Updated Flood Study

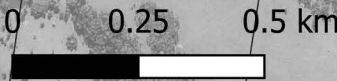
Peak Flood Velocity  
20% AEP  
Map 3 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







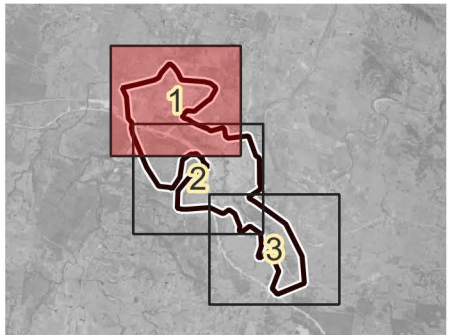
RG-01-023a

## Greta Updated Flood Study

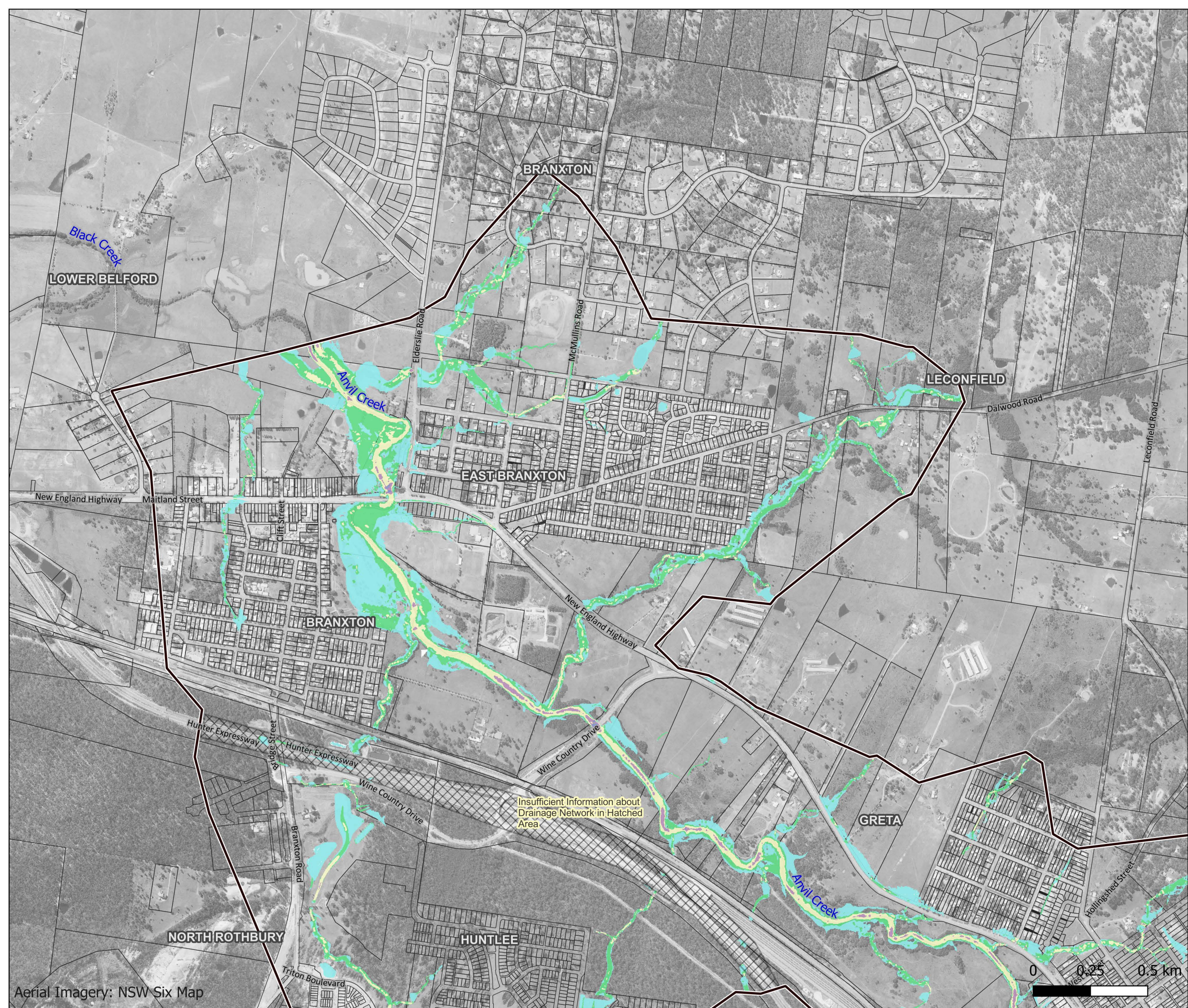
Peak Flood Velocity  
10% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







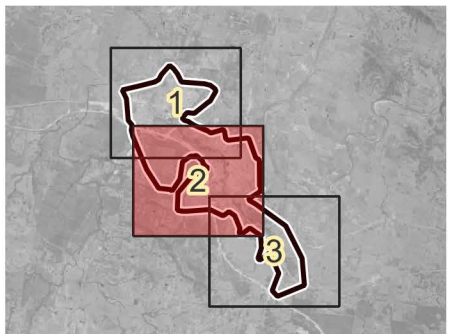
RG-01-023b

## Greta Updated Flood Study

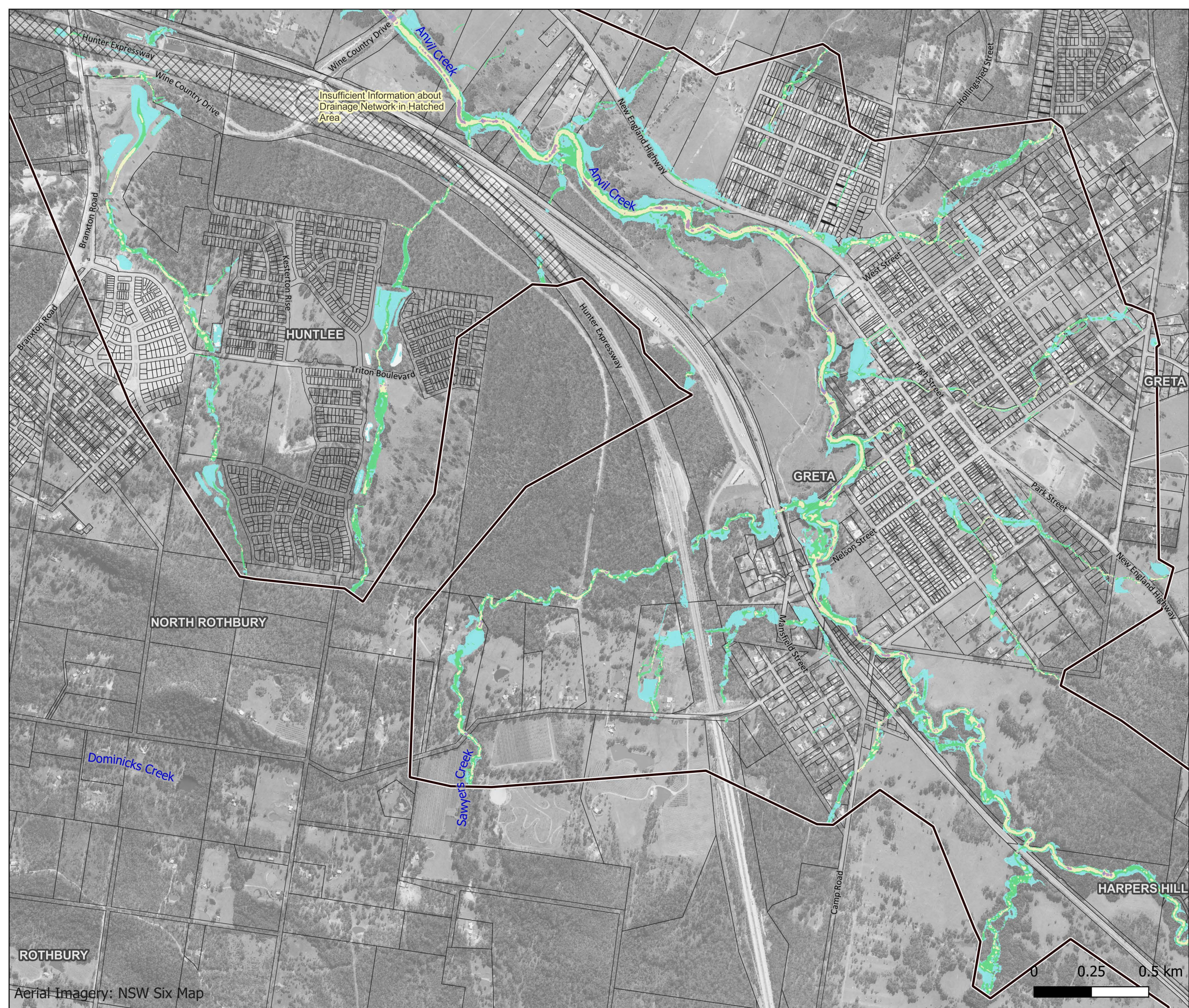
Peak Flood Velocity  
10% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





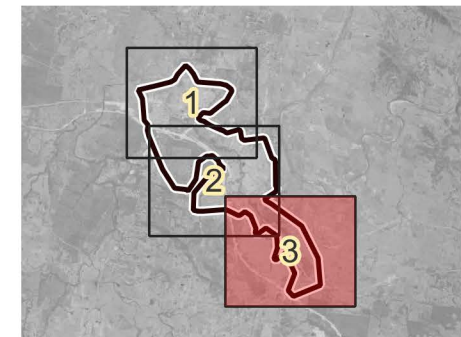
RG-01-023c

# Greta Updated Flood Study

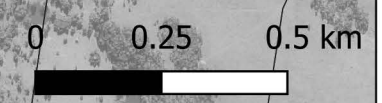
Peak Flood Velocity  
10% AEP  
Map 3 of 3

## Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







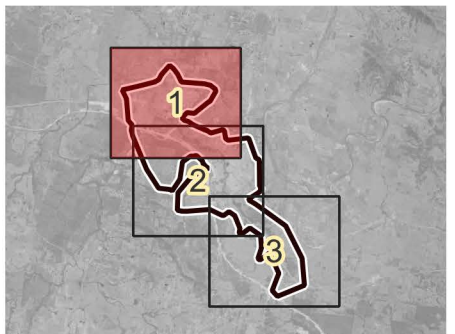
RG-01-024a

## Greta Updated Flood Study

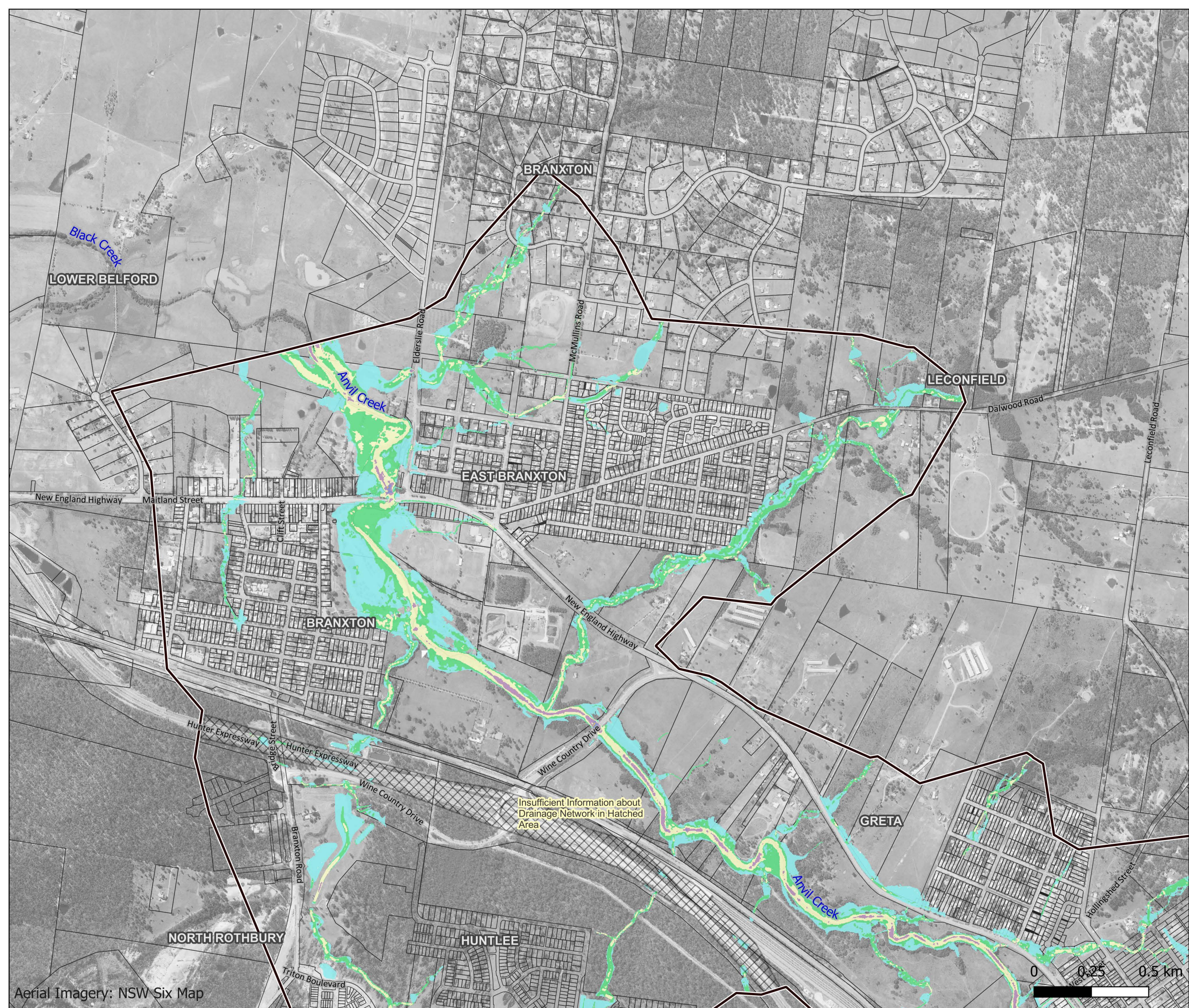
Peak Flood Velocity  
5% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







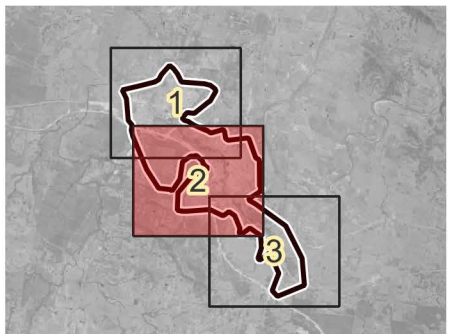
RG-01-024b

## Greta Updated Flood Study

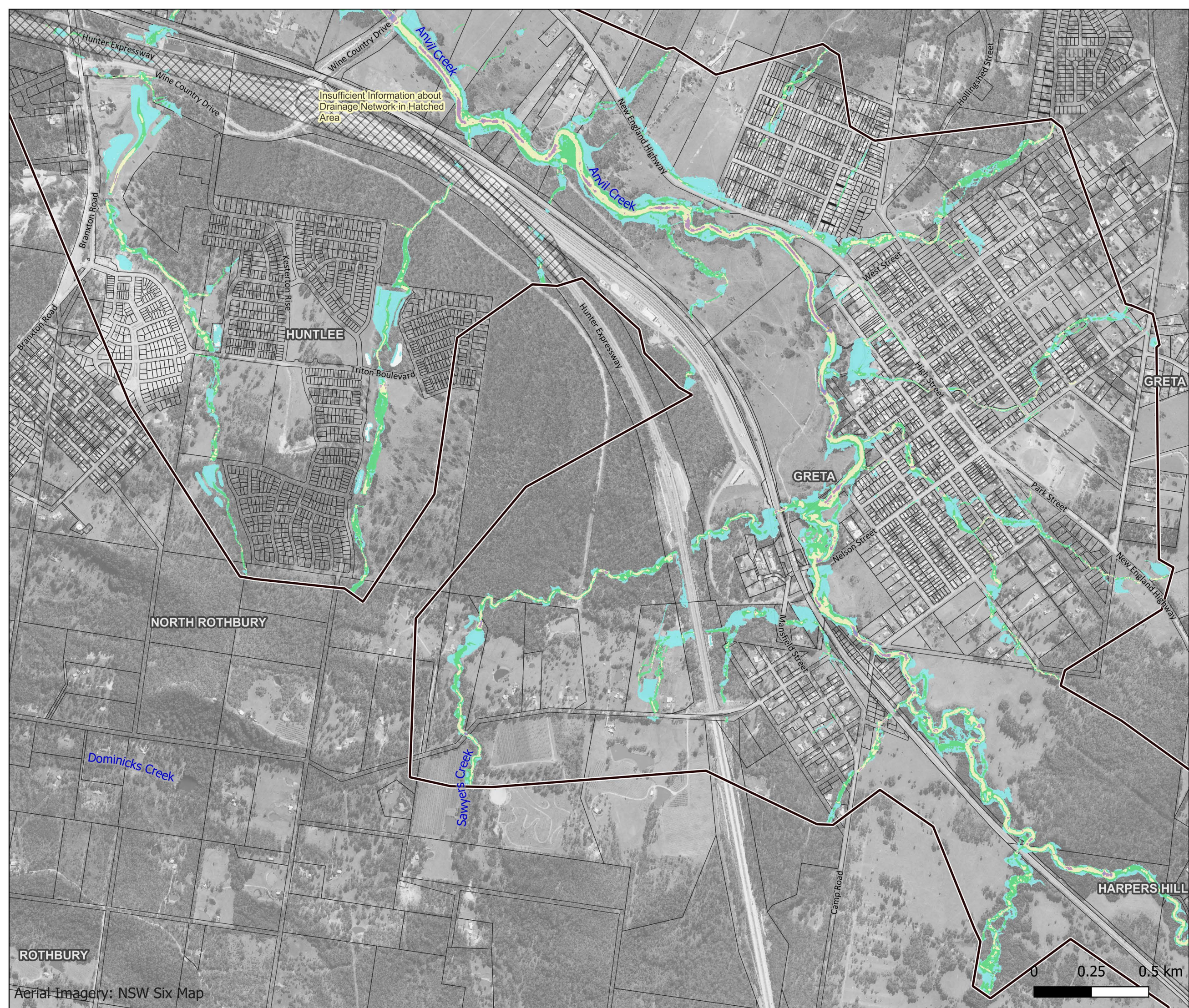
Peak Flood Velocity  
5% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-024c

Greta Updated Flood Study

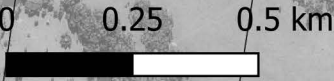
Peak Flood Velocity  
5% AEP  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







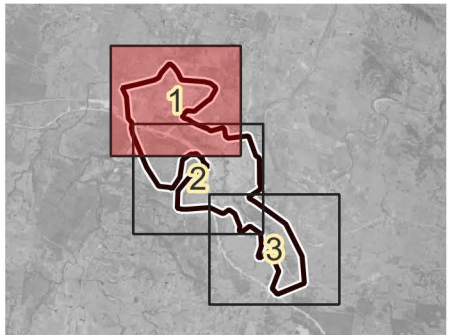
RG-01-025a

## Greta Updated Flood Study

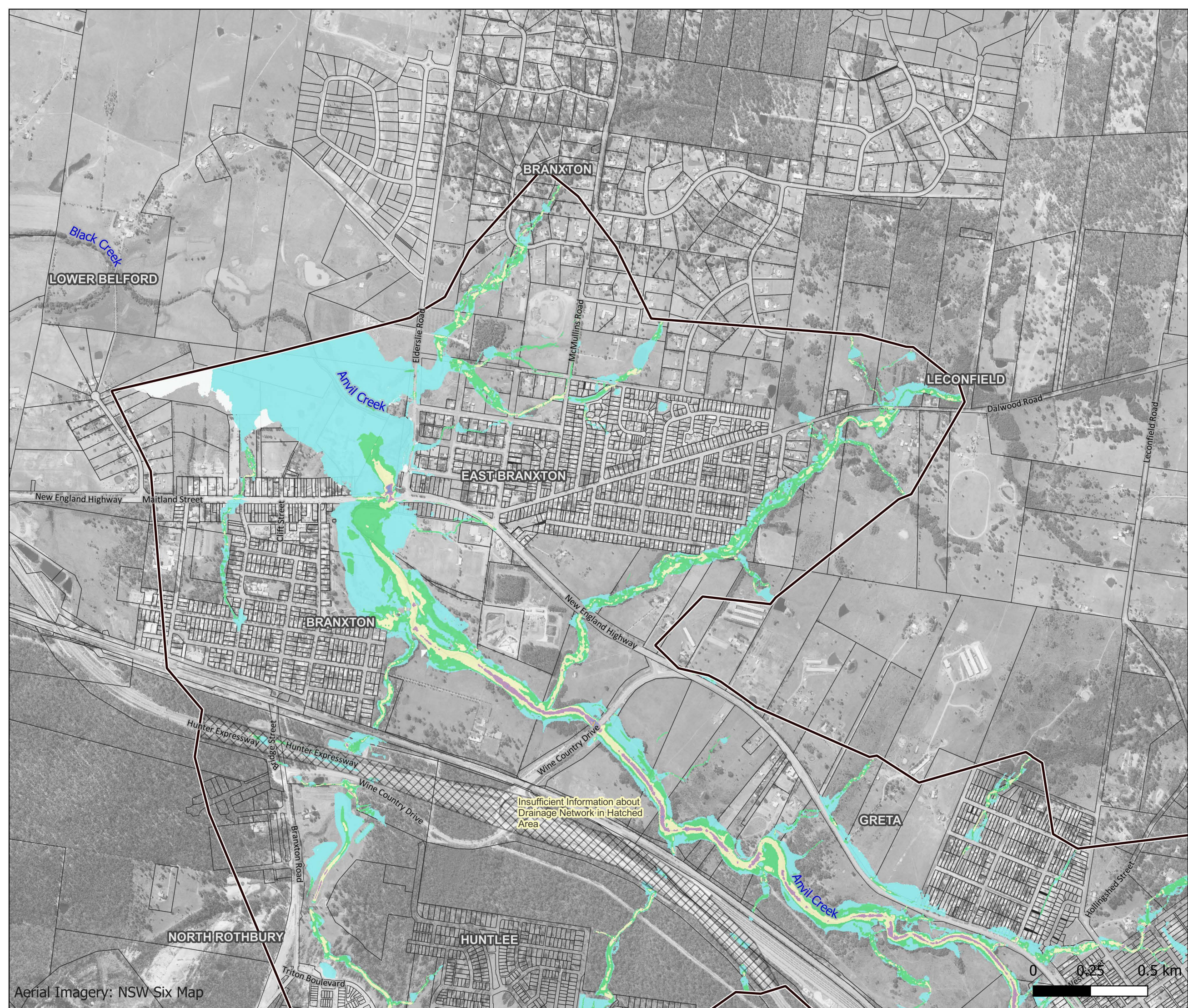
Peak Flood Velocity  
2% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







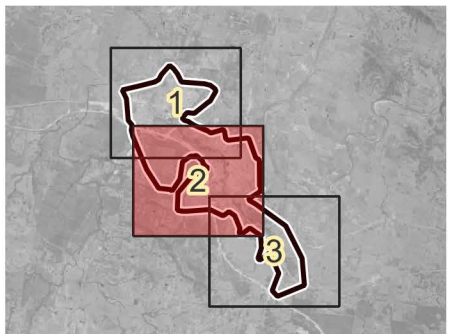
RG-01-025b

## Greta Updated Flood Study

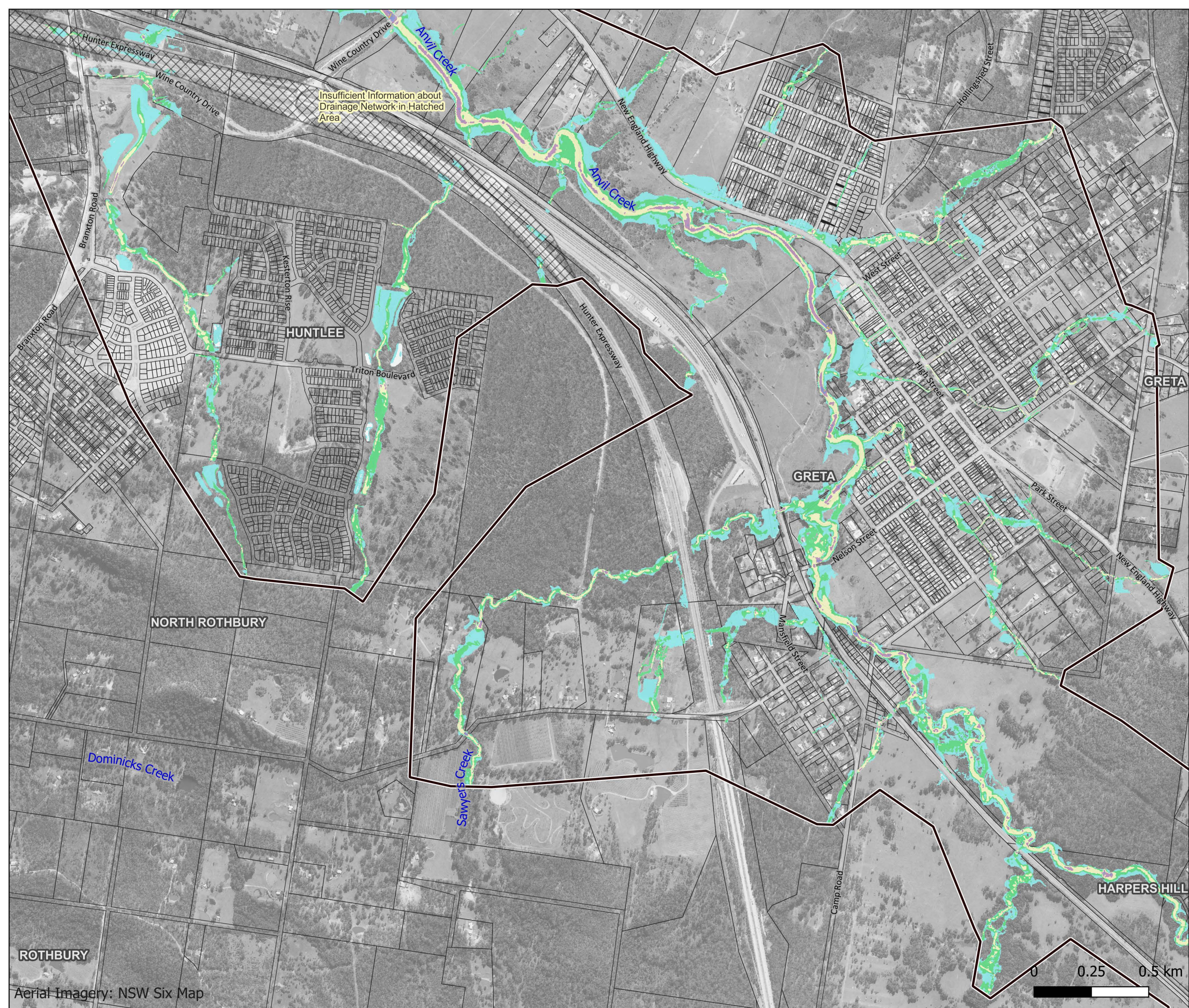
Peak Flood Velocity  
2% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-025c

# Greta Updated Flood Study

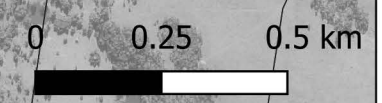
Peak Flood Velocity  
2% AEP  
Map 3 of 3

## Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







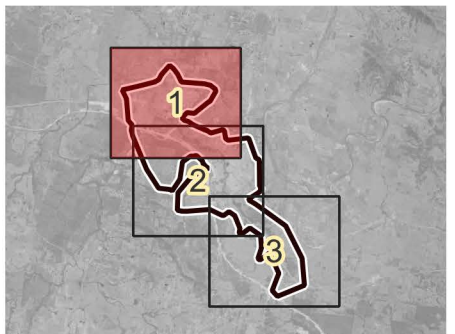
RG-01-026a

## Greta Updated Flood Study

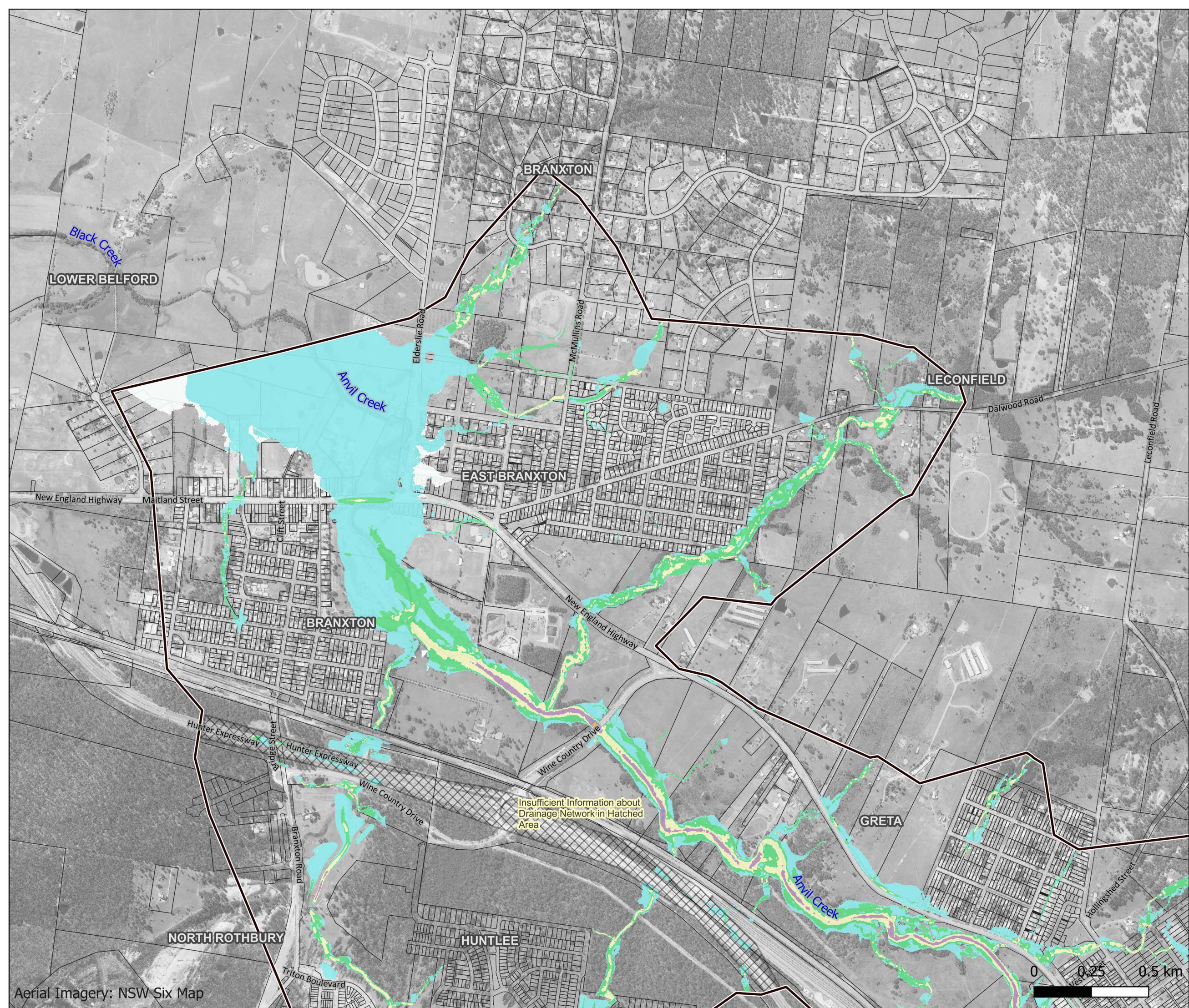
Peak Flood Velocity  
1% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







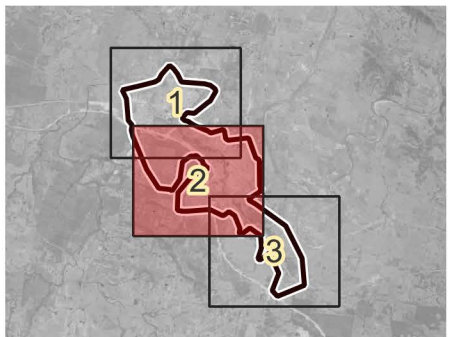
RG-01-026b

# Greta Updated Flood Study

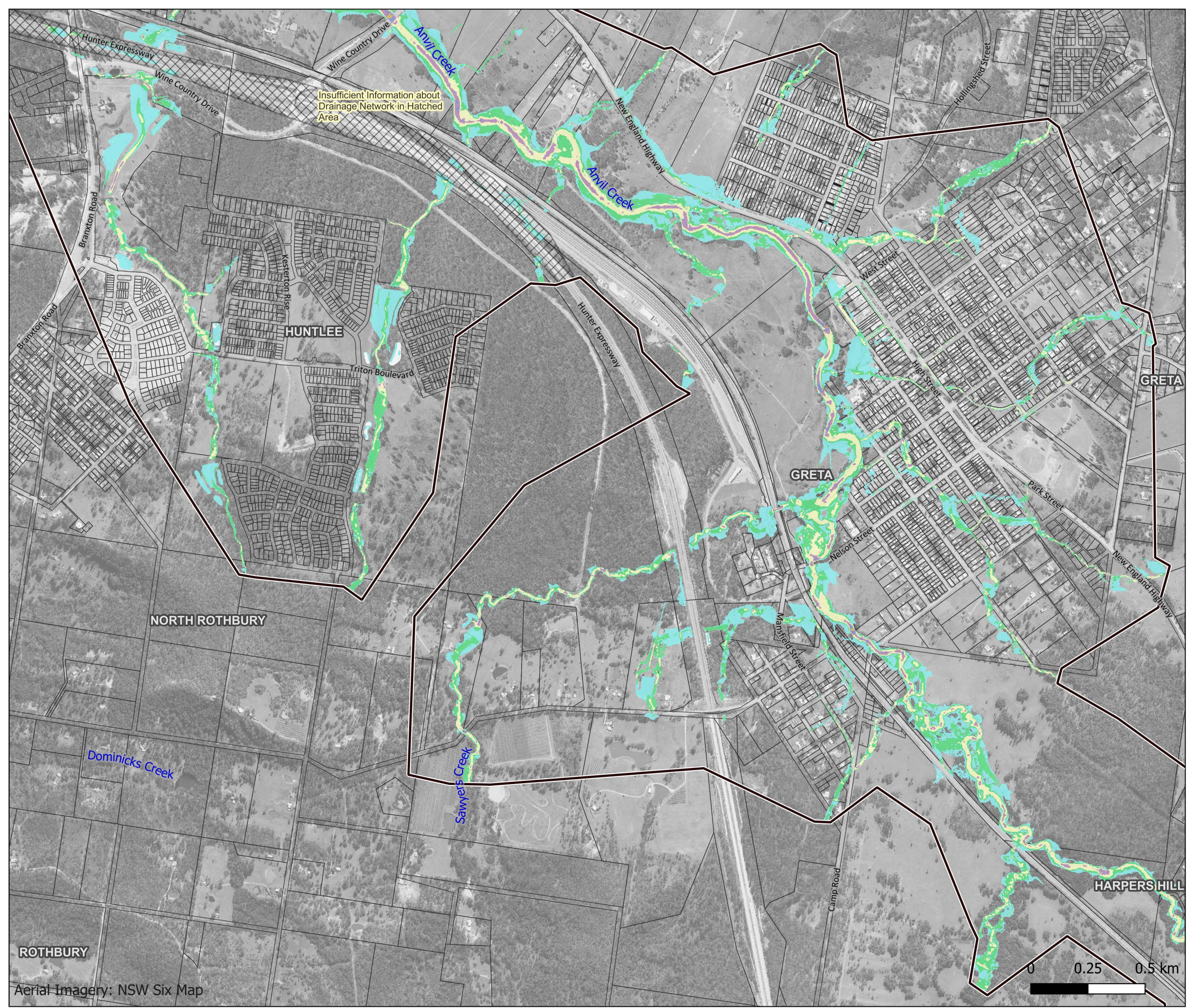
Peak Flood Velocity  
1% AEP  
Map 2 of 3

## Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







RG-01-026c

Greta Updated Flood Study

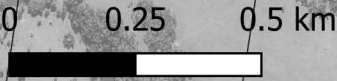
Peak Flood Velocity  
1% AEP  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







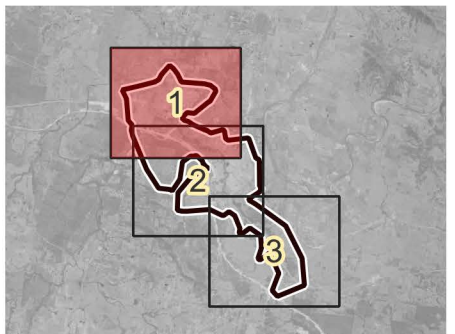
RG-01-027a

## Greta Updated Flood Study

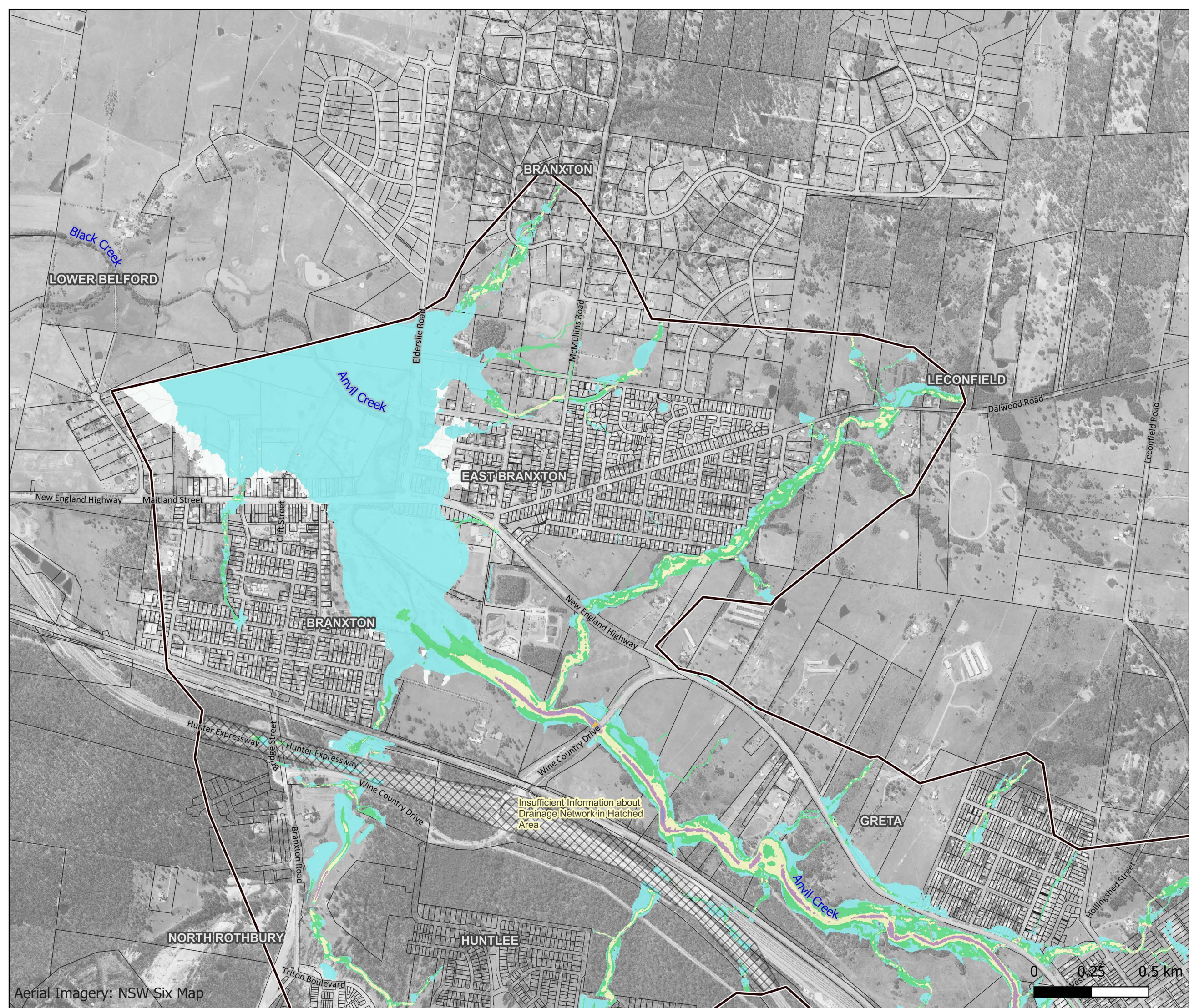
Peak Flood Velocity  
0.5% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







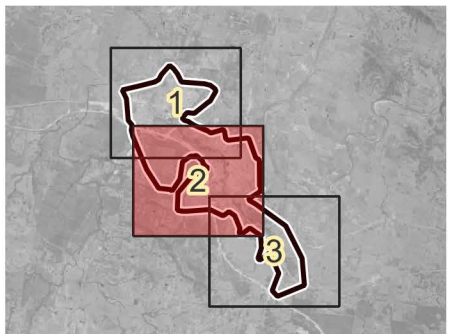
RG-01-027b

## Greta Updated Flood Study

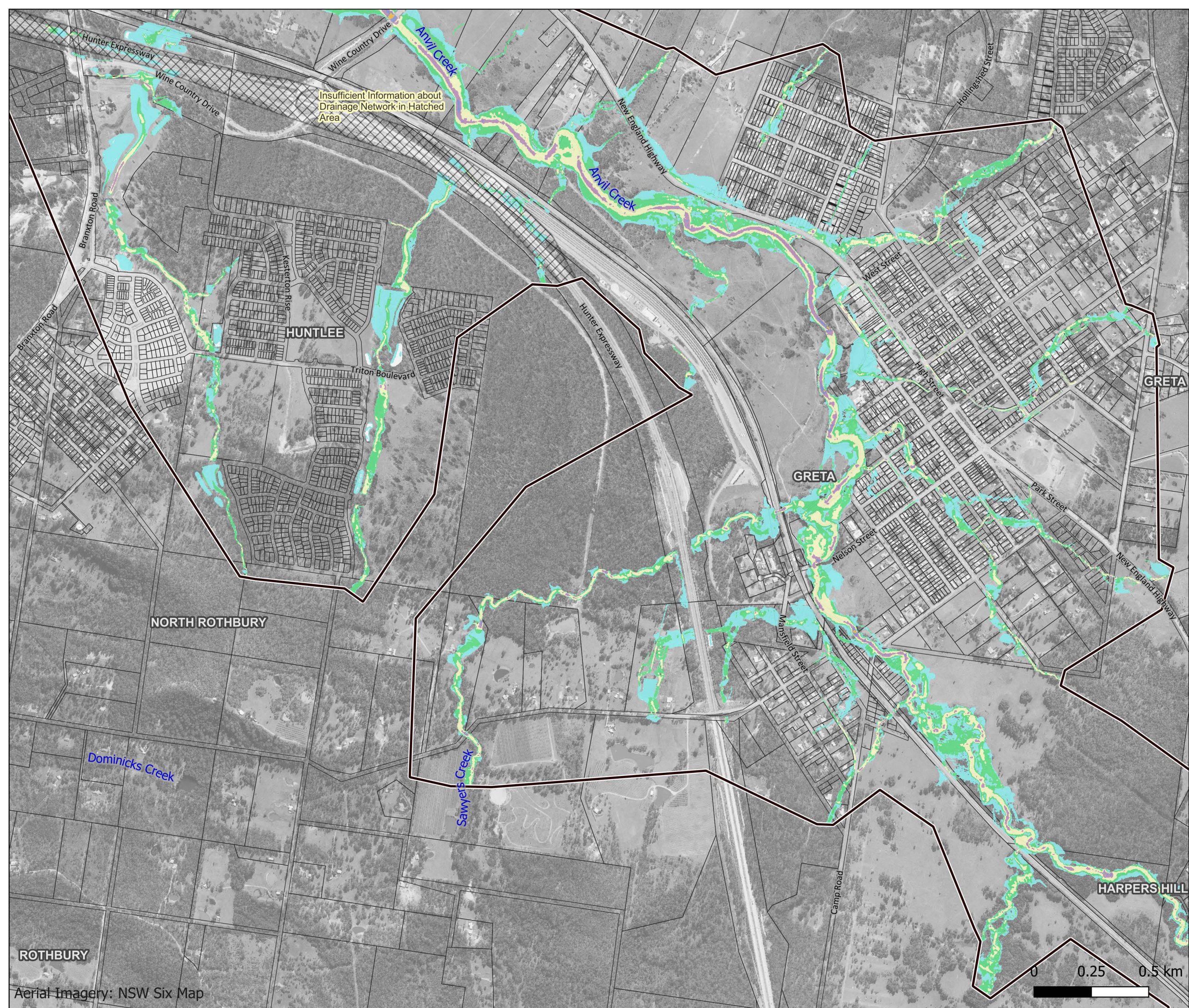
Peak Flood Velocity  
0.5% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



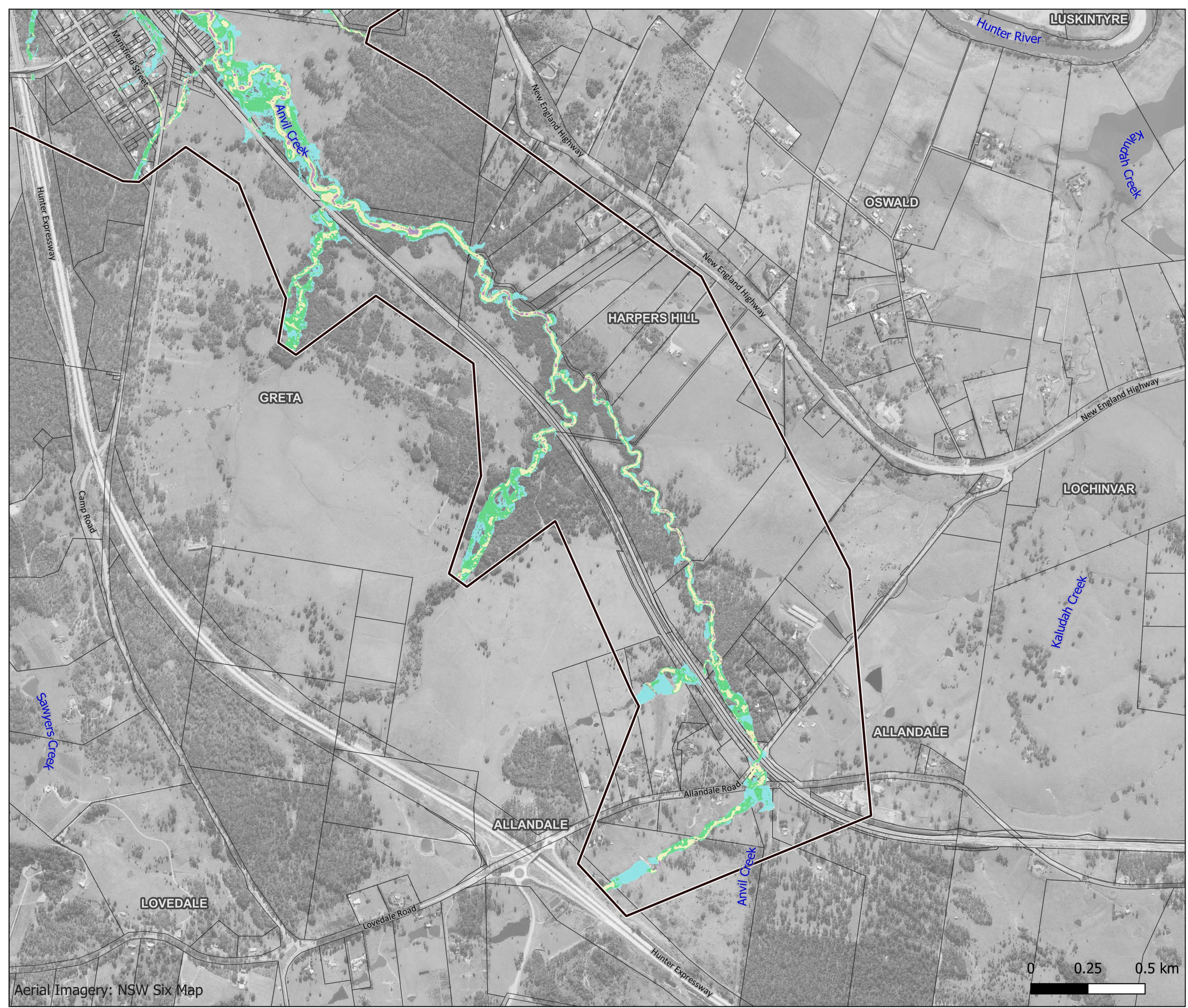
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-027c

# Greta Updated Flood Study

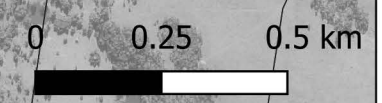
Peak Flood Velocity  
0.5% AEP  
Map 3 of 3

## Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







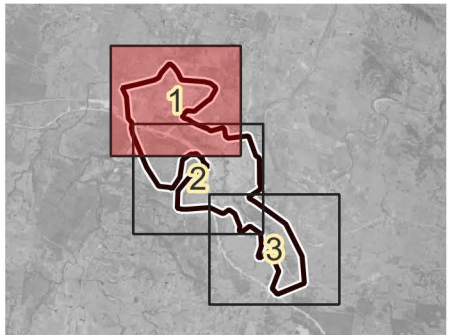
RG-01-028a

## Greta Updated Flood Study

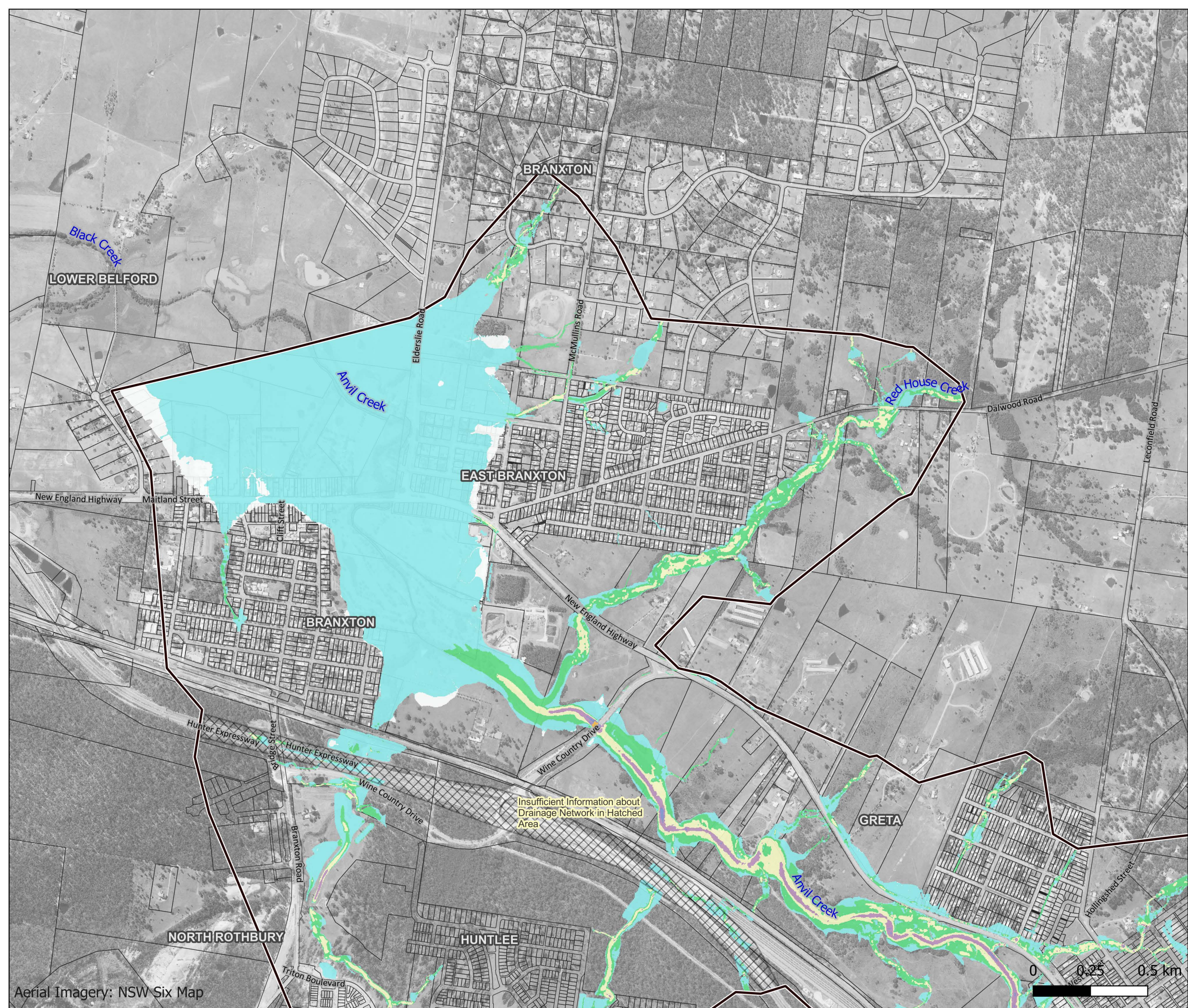
Peak Flood Velocity  
0.2% AEP  
Map 1 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







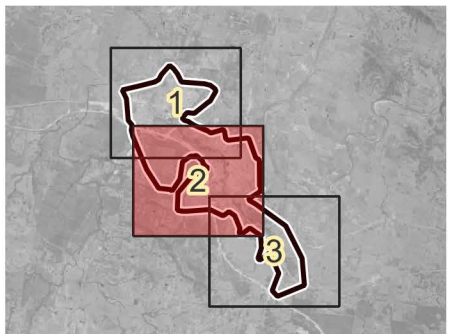
RG-01-028b

## Greta Updated Flood Study

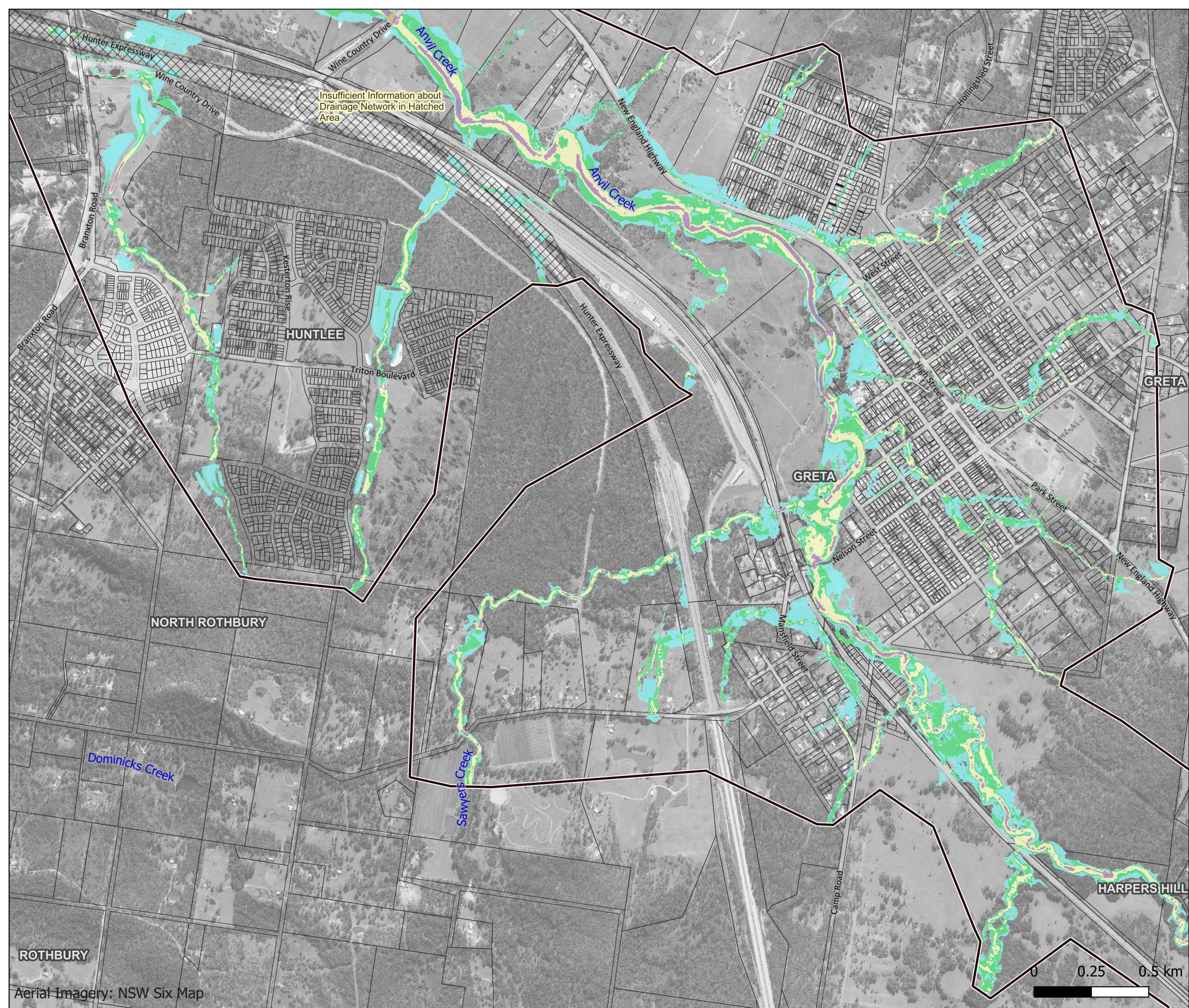
Peak Flood Velocity  
0.2% AEP  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



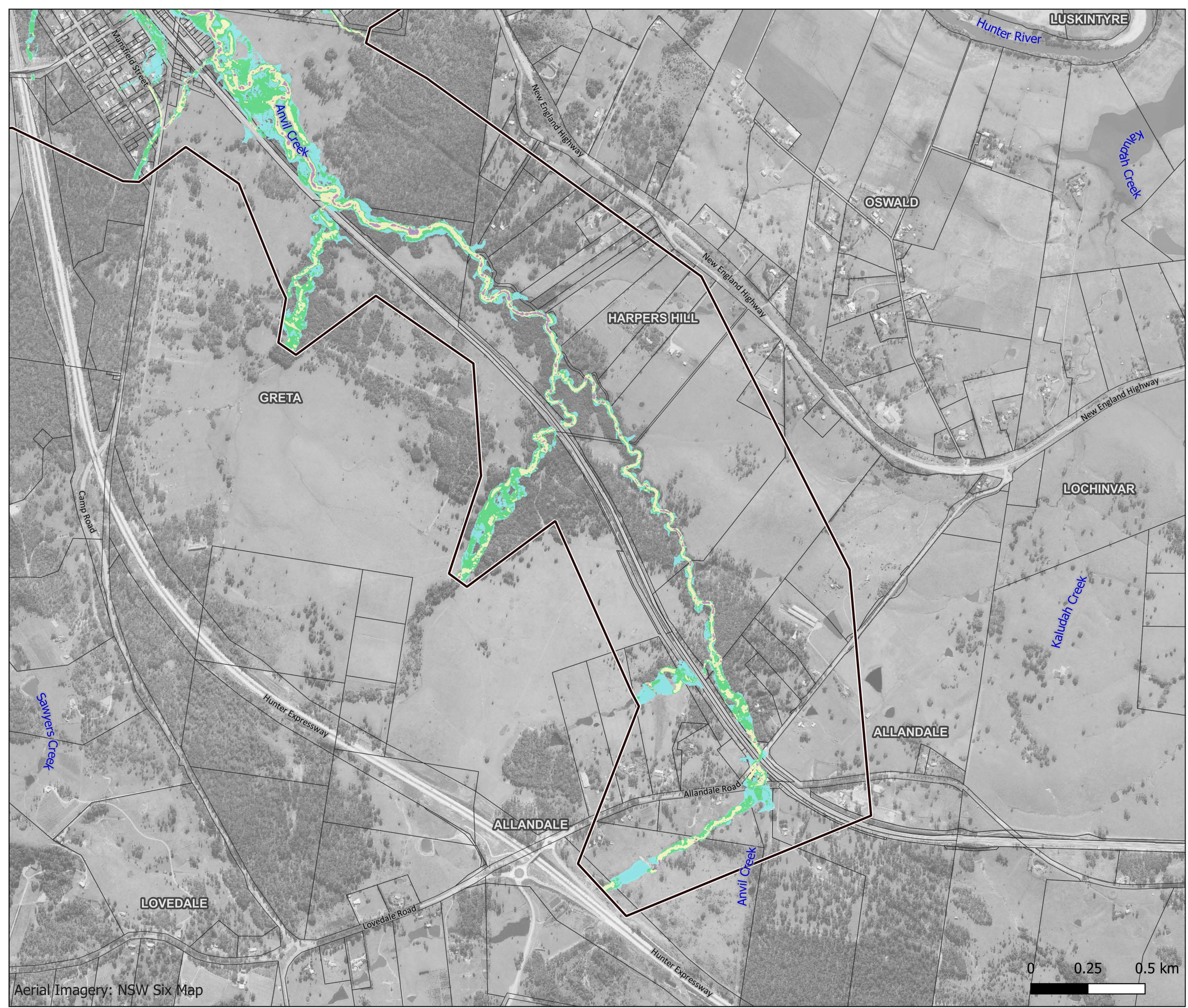
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-028c

## Greta Updated Flood Study

Peak Flood Velocity  
0.2% AEP  
Map 3 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







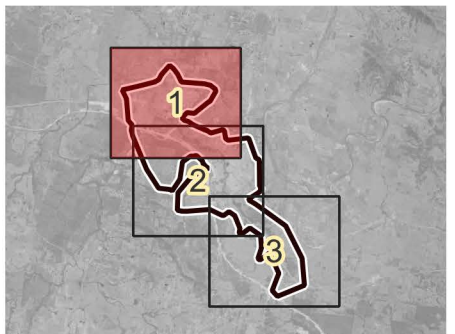
RG-01-029a

## Greta Updated Flood Study

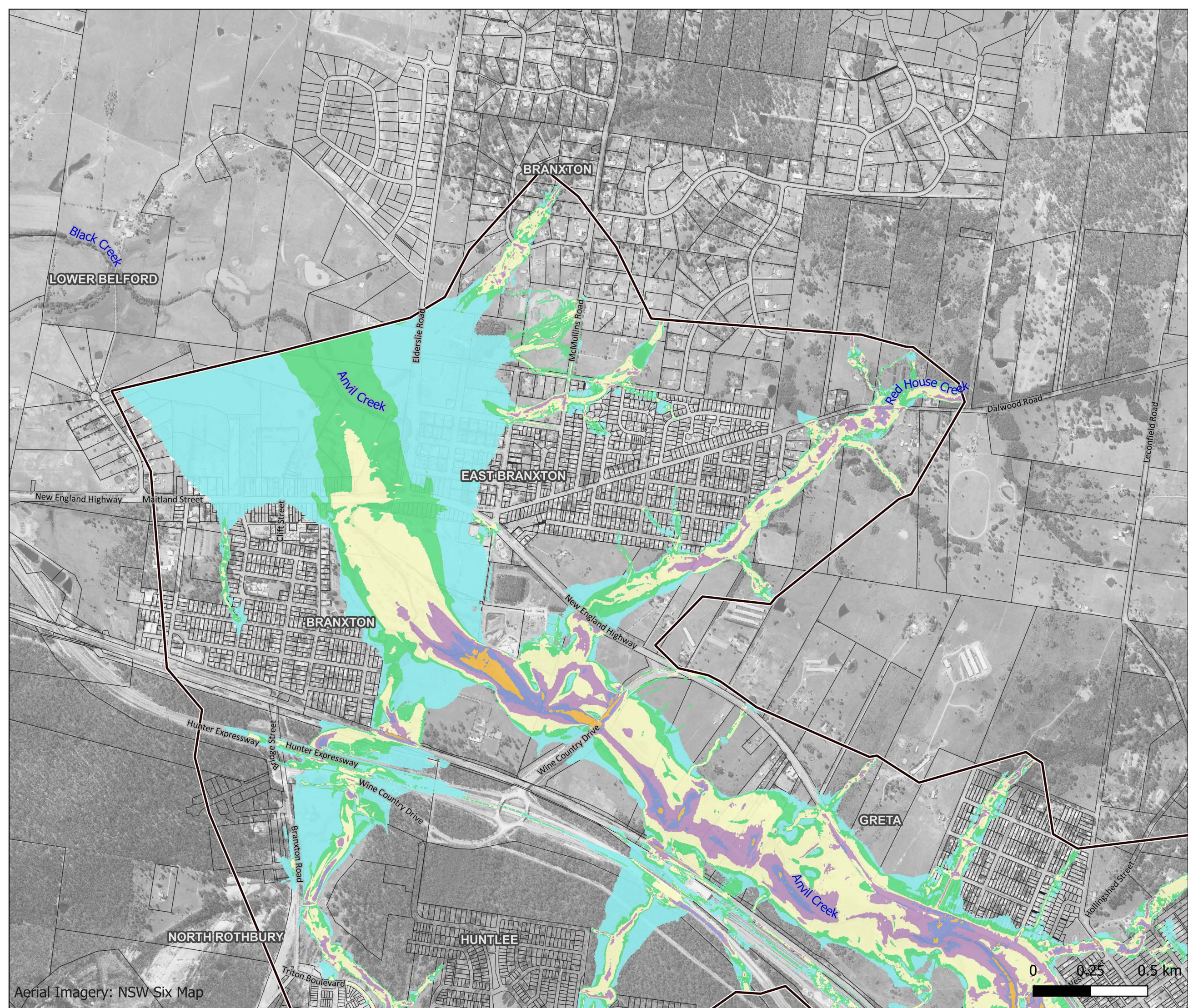
### Peak Flood Velocity PMF Map 1 of 3

#### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



Job Number: J1703  
Scale : 1:15000@A3  
Date : 08/07/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



0 0.25 0.5 km

Aerial Imagery: NSW Six Map





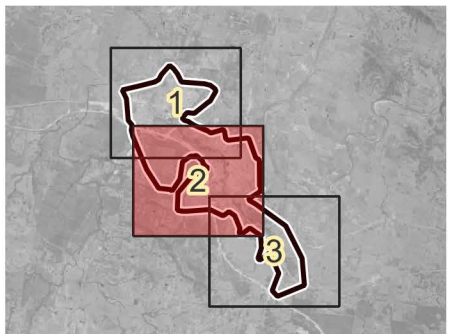
RG-01-029b

## Greta Updated Flood Study

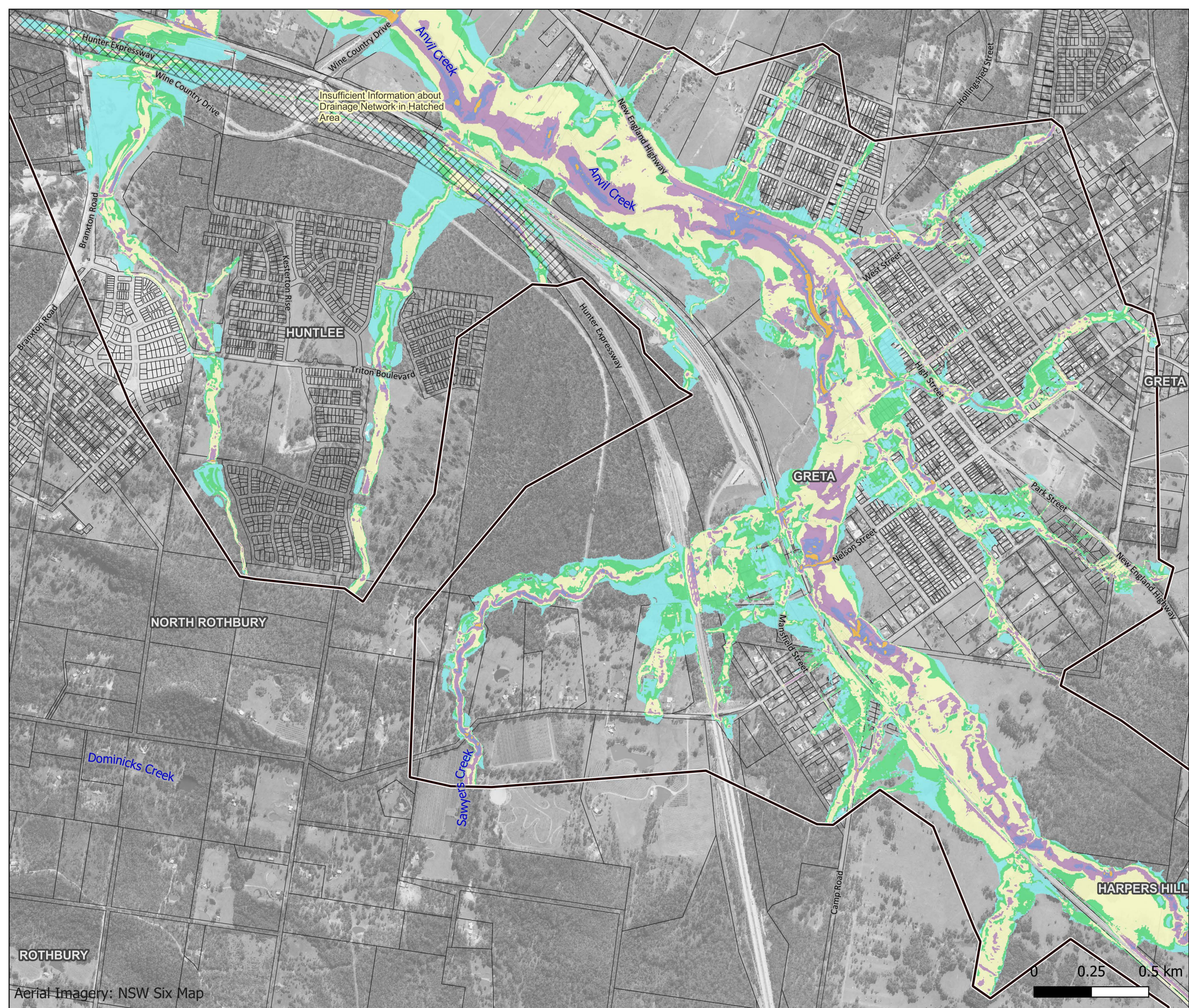
### Peak Flood Velocity PMF Map 2 of 3

#### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - $\leq 0.01$
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - $> 4$



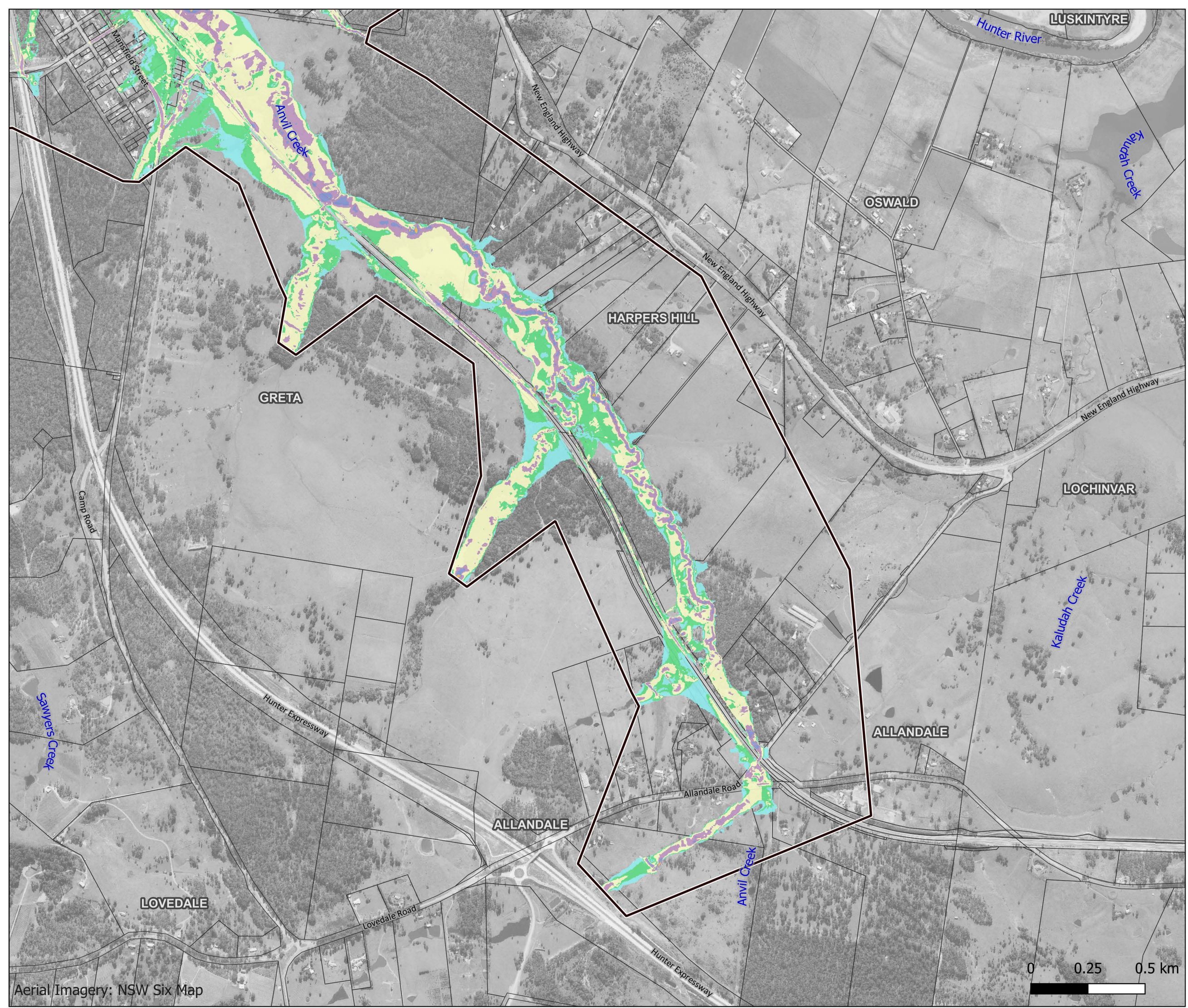
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-029c

**Greta Updated Flood Study**

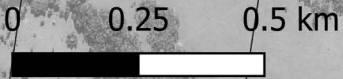
**Peak Flood Velocity  
PMF  
Map 3 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent
- Peak Velocity (m/s)
  - <=0.01
  - 0.01 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - 3 - 4
  - > 4



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







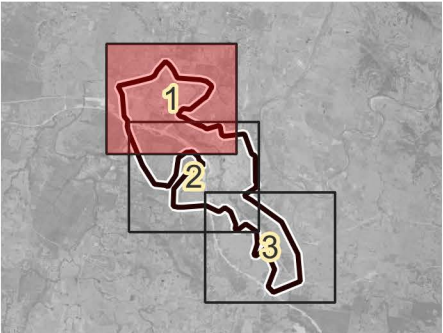
RG-01-030a

Greta Updated Flood Study

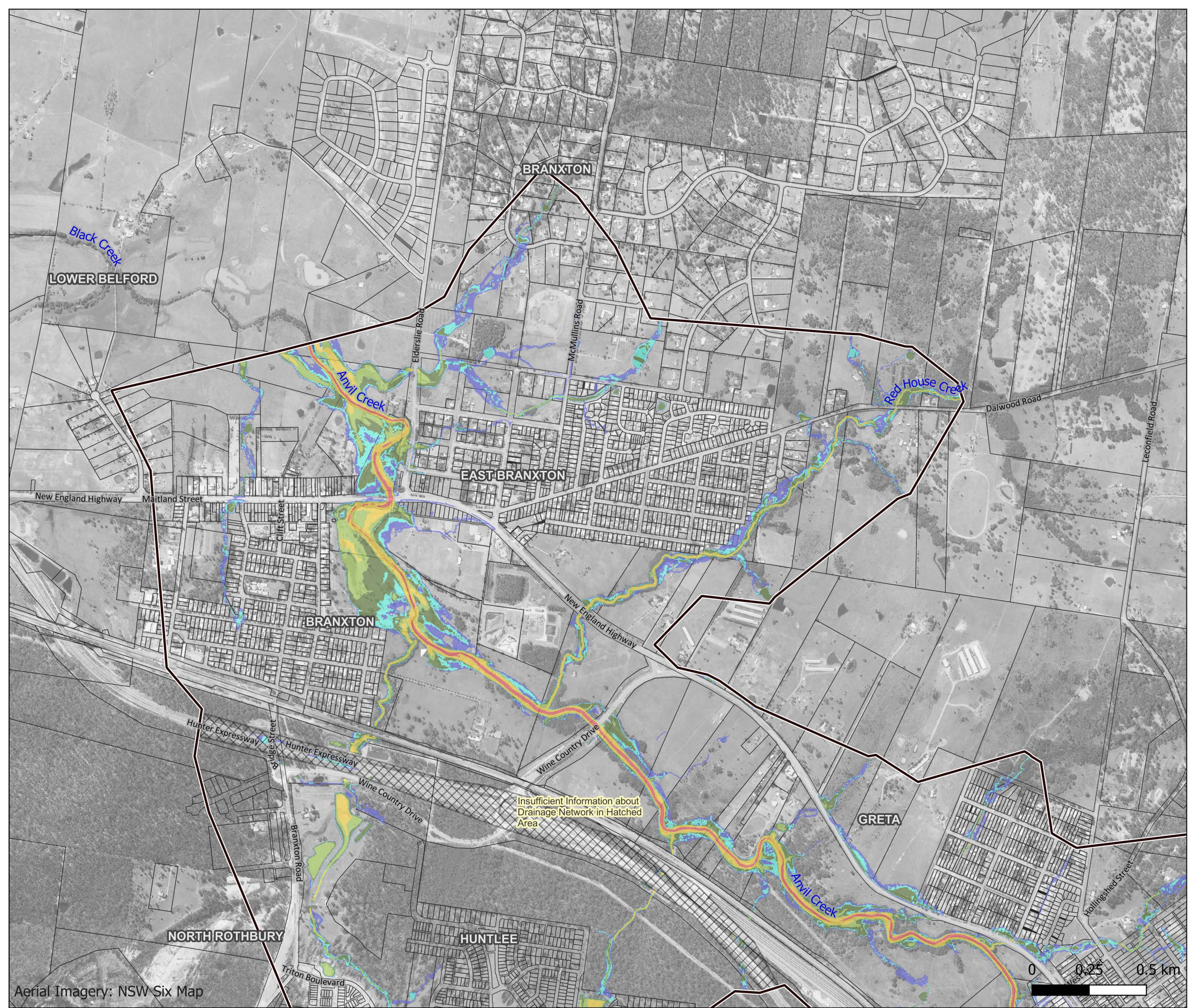
Peak Flood Hazard  
5% AEP  
Map 1 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







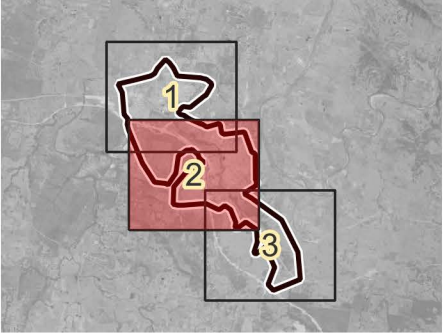
RG-01-030b

Greta Updated Flood Study

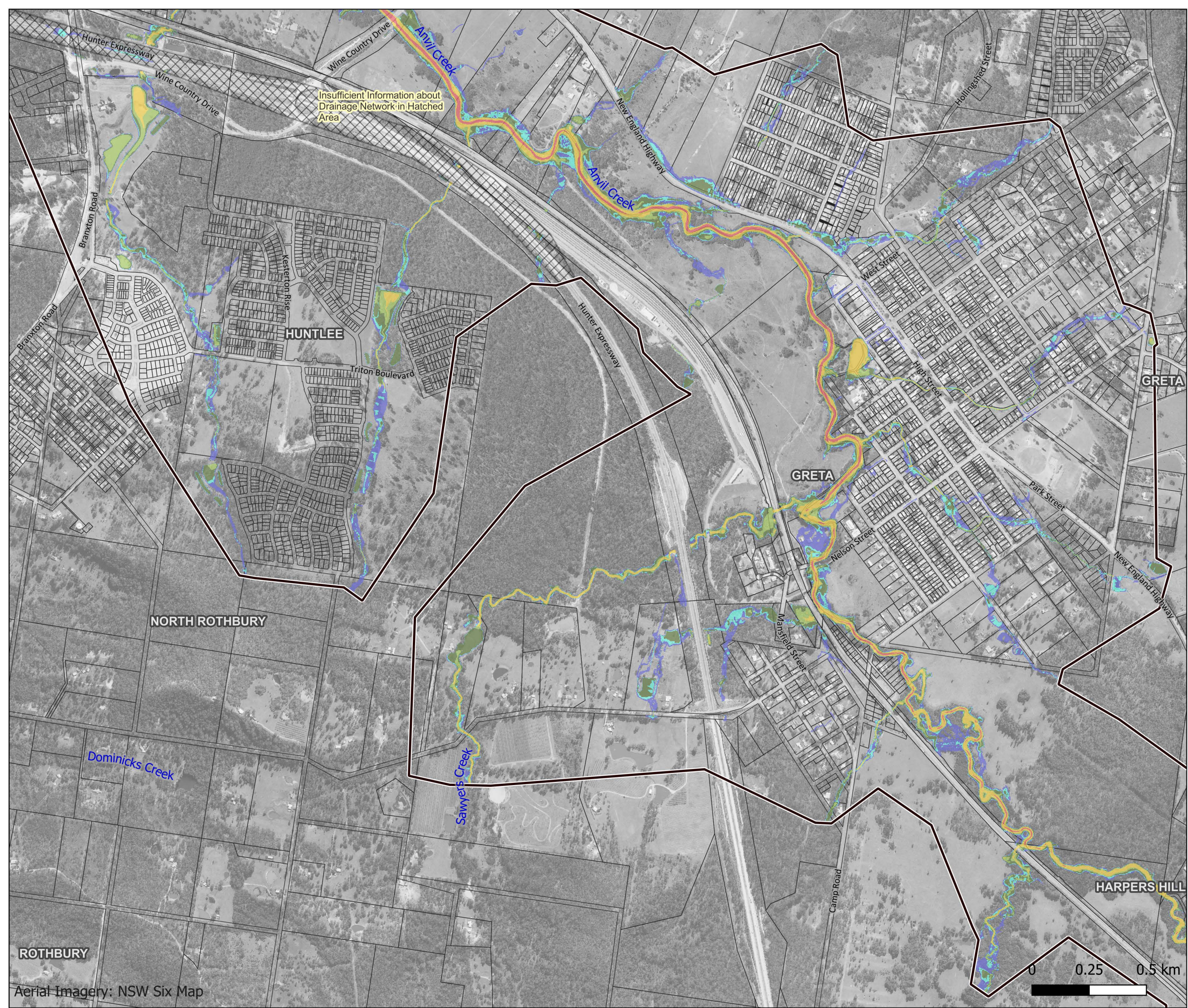
Peak Flood Hazard  
5% AEP  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



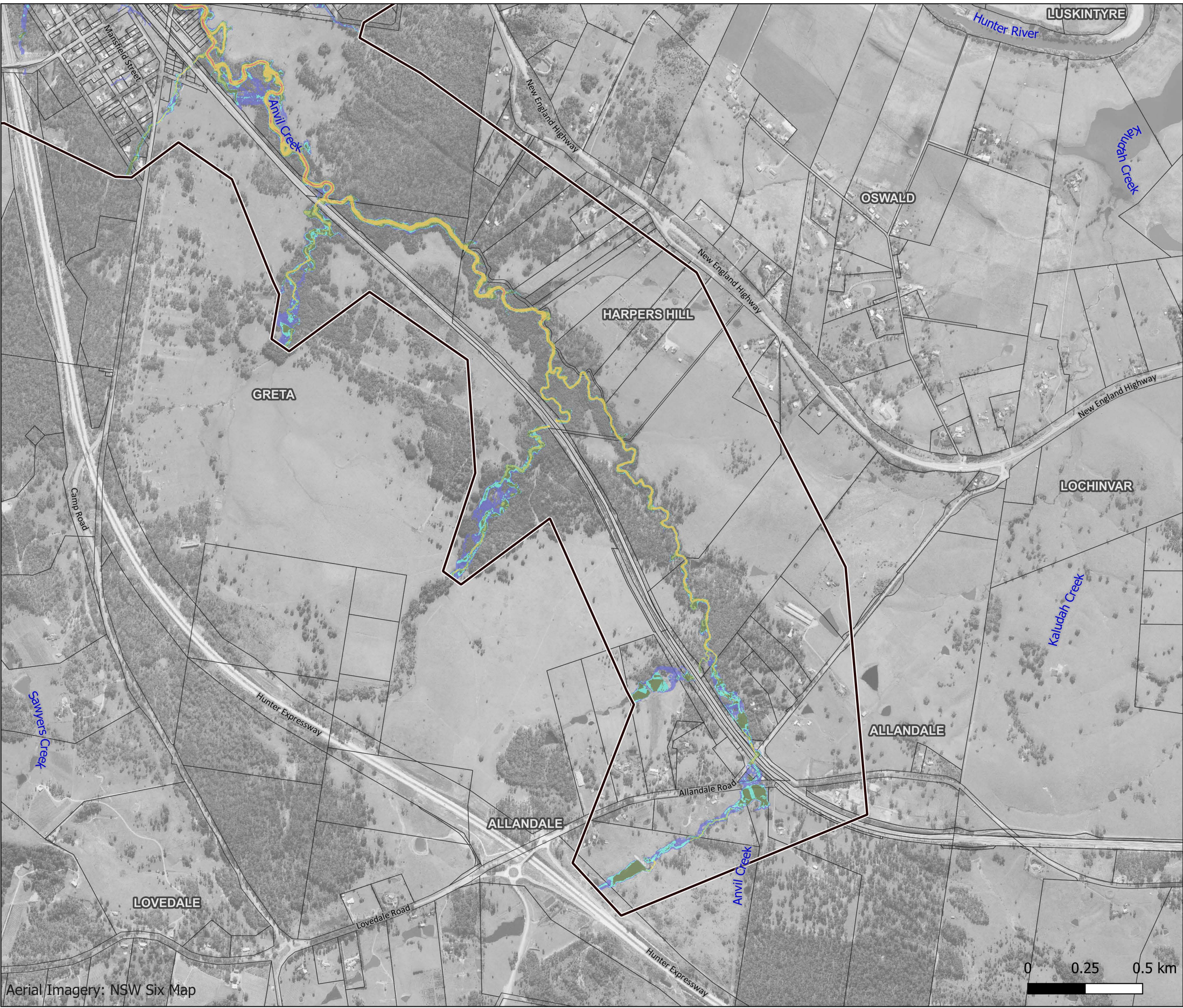
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-030c

Greta Updated Flood Study

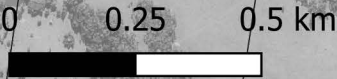
Peak Flood Hazard  
5% AEP  
Map 3 of 3

Legend

- Cadastral
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







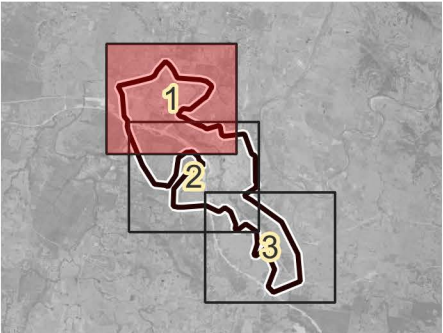
RG-01-031a

Greta Updated Flood Study

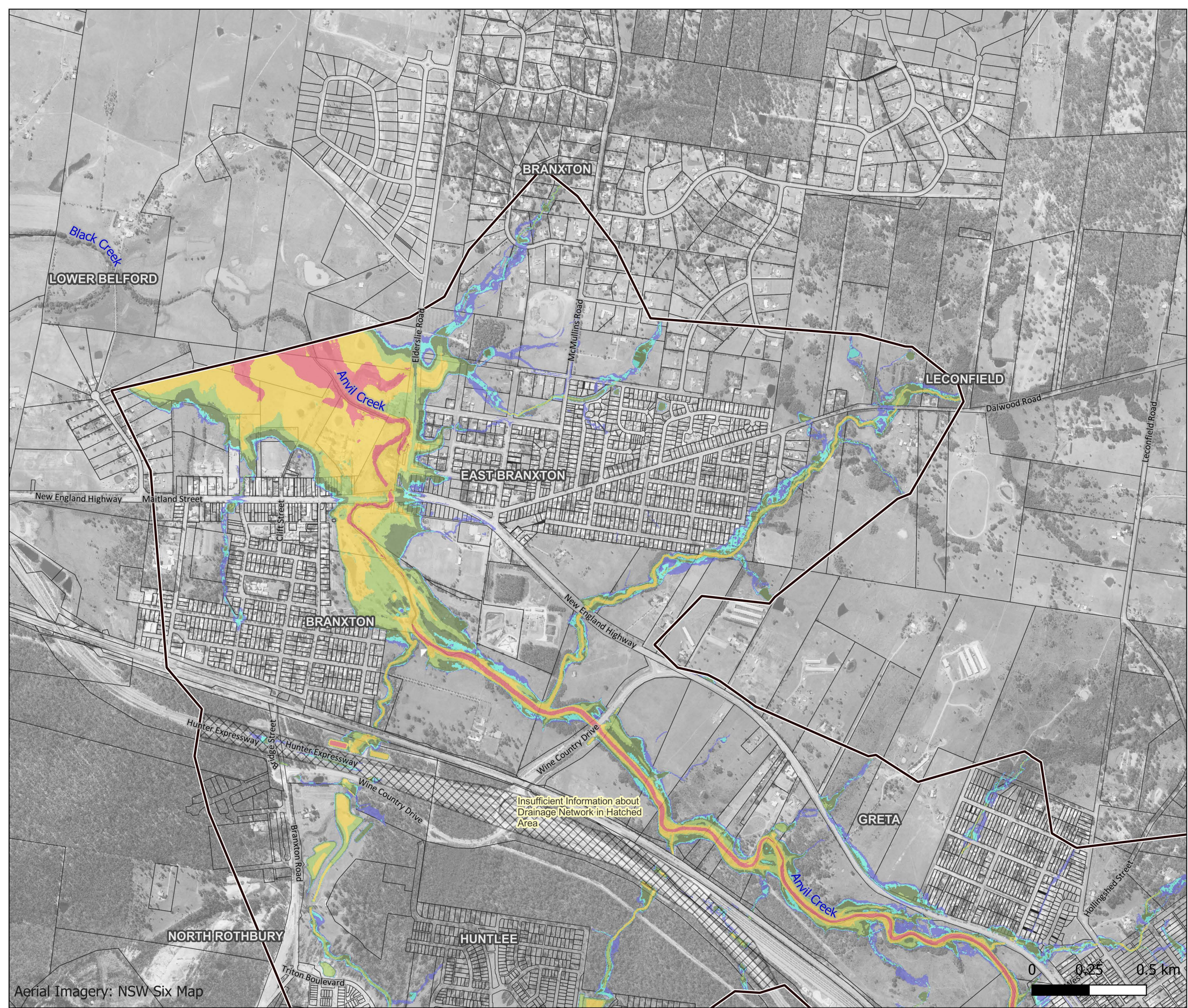
Peak Flood Hazard  
1% AEP  
Map 1 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







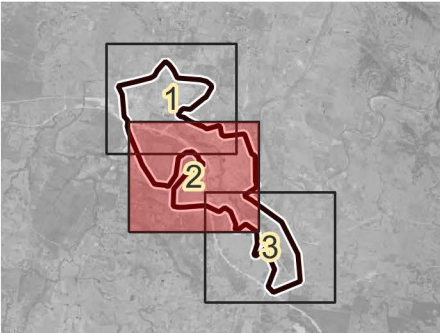
RG-01-031b

Greta Updated Flood Study

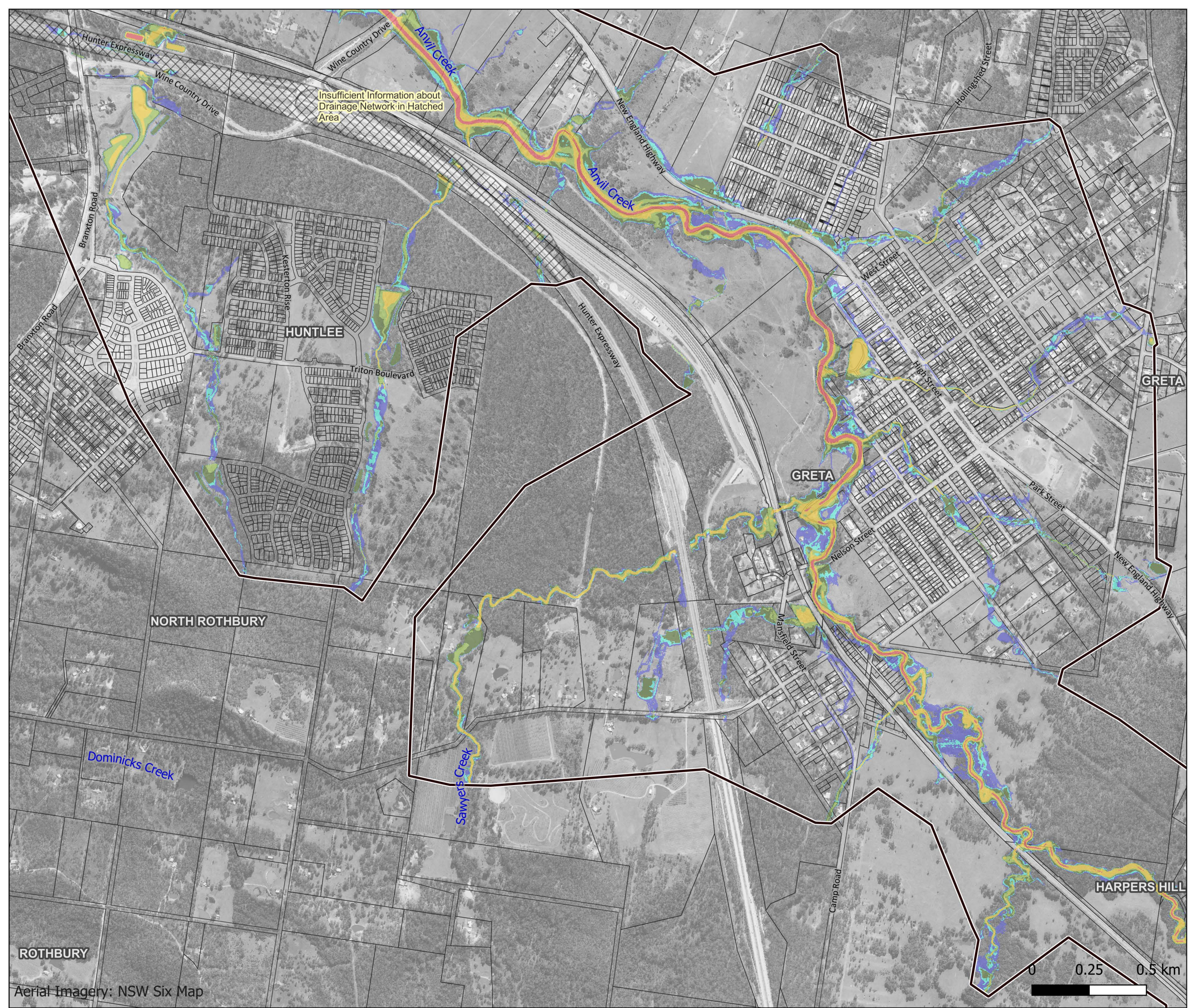
Peak Flood Hazard  
1% AEP  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



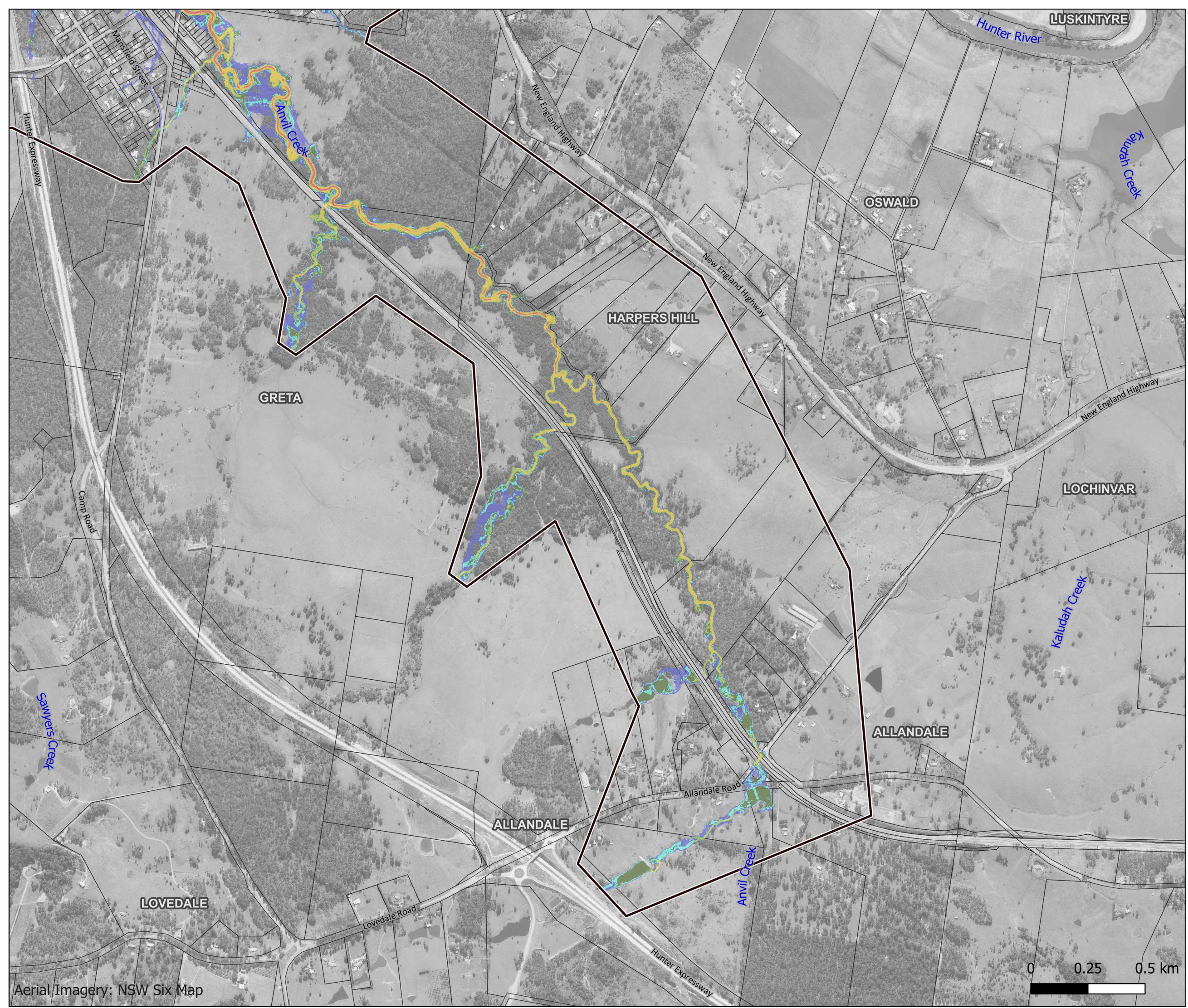
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-031c

## Greta Updated Flood Study

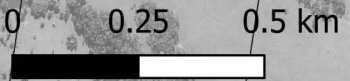
### Peak Flood Hazard 1% AEP Map 3 of 3

#### Legend

- Cadastral
- Hydraulic Model Extent
- Peak Flood Hazard**
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







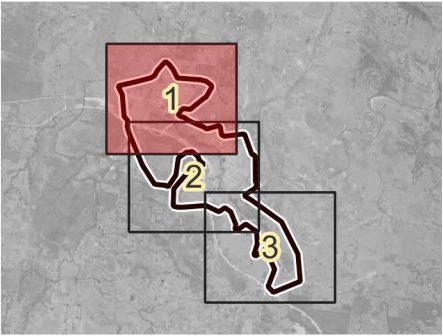
RG-01-032a

Greta Updated Flood Study

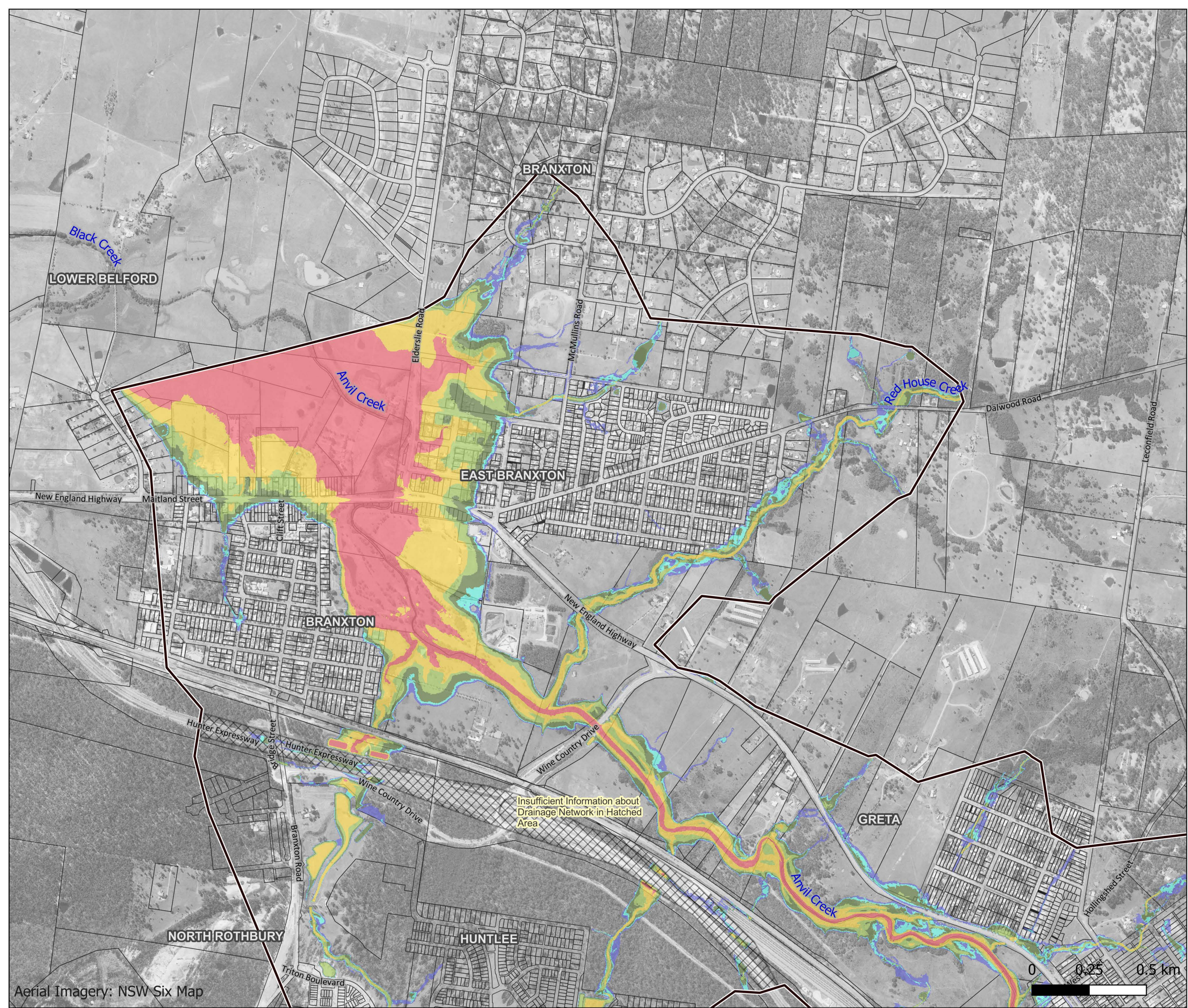
Peak Flood Hazard  
0.2% AEP  
Map 1 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







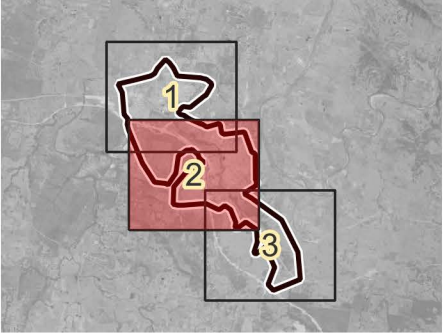
RG-01-032b

Greta Updated Flood Study

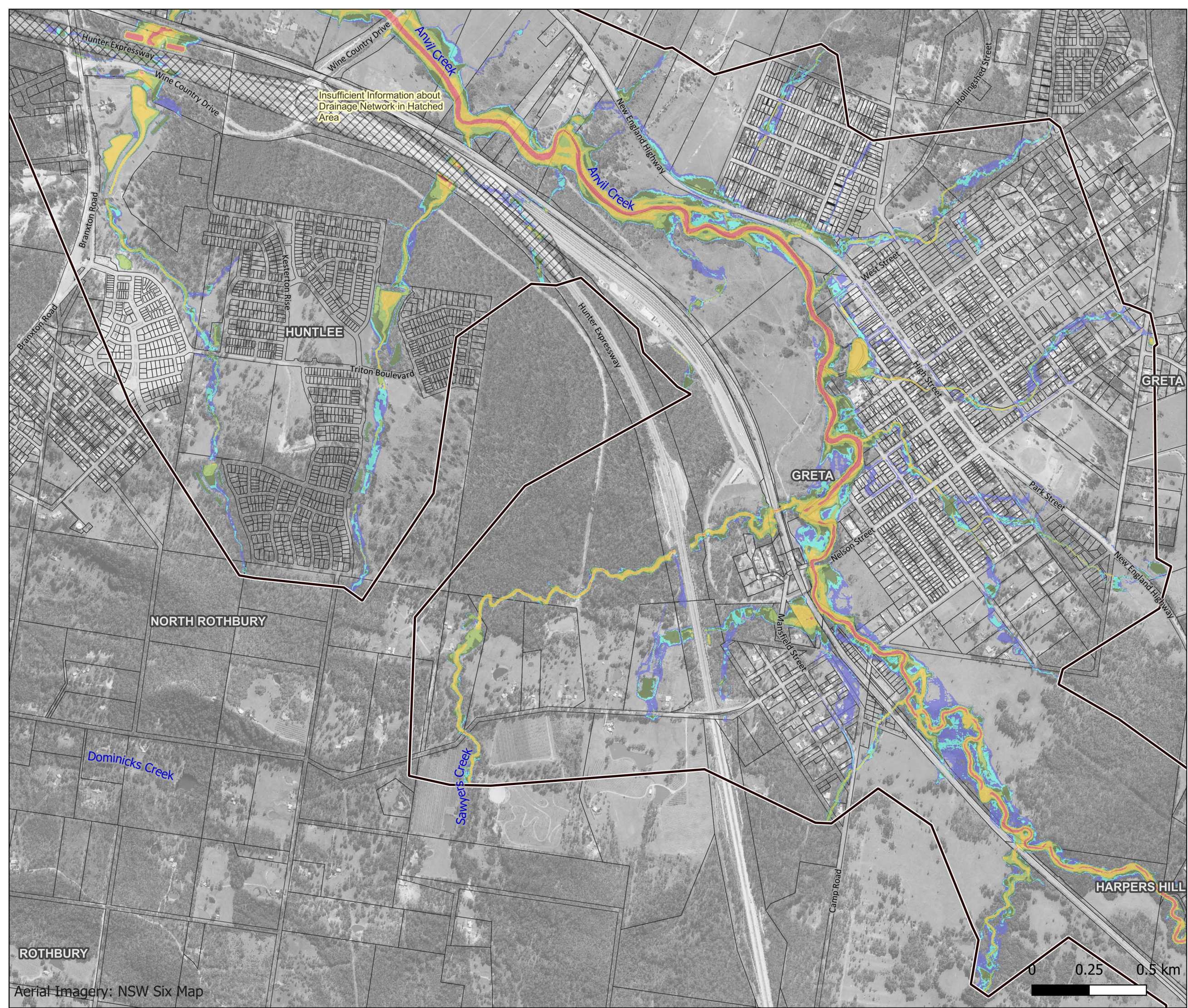
Peak Flood Hazard  
0.2% AEP  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



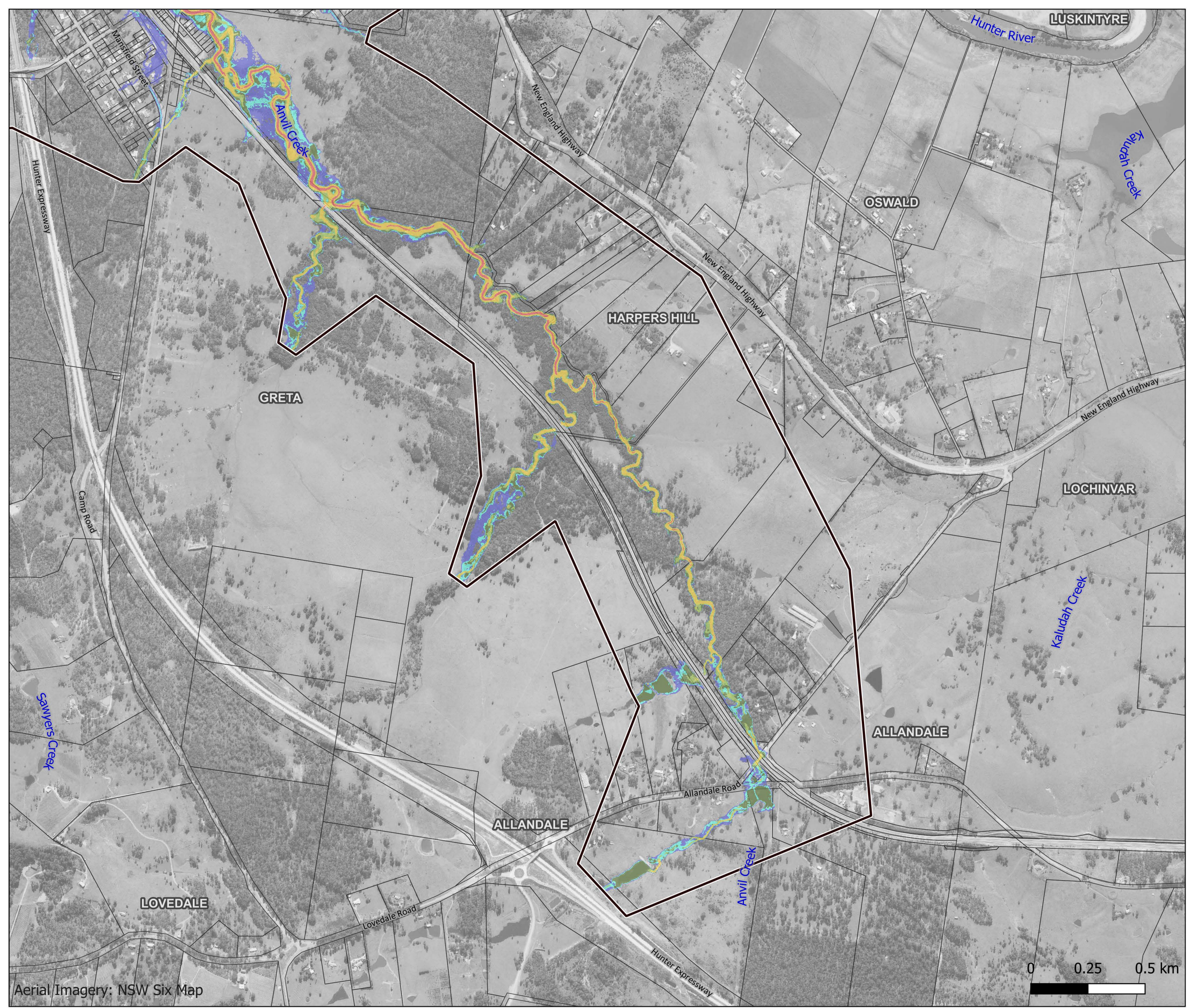
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-032c

## Greta Updated Flood Study

**Peak Flood Hazard  
0.2% AEP  
Map 3 of 3**

### Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard**
- H1 - Generally safe for vehicles, people & buildings
- H2 - Unsafe for small vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for vehicles and people
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



0 0.25 0.5 km





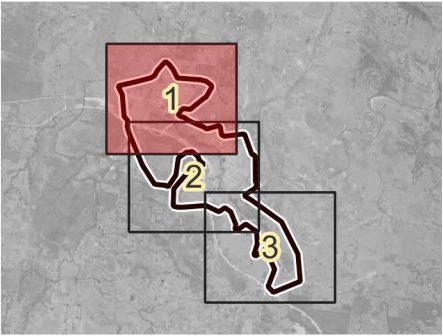
RG-01-033a

Greta Updated Flood Study

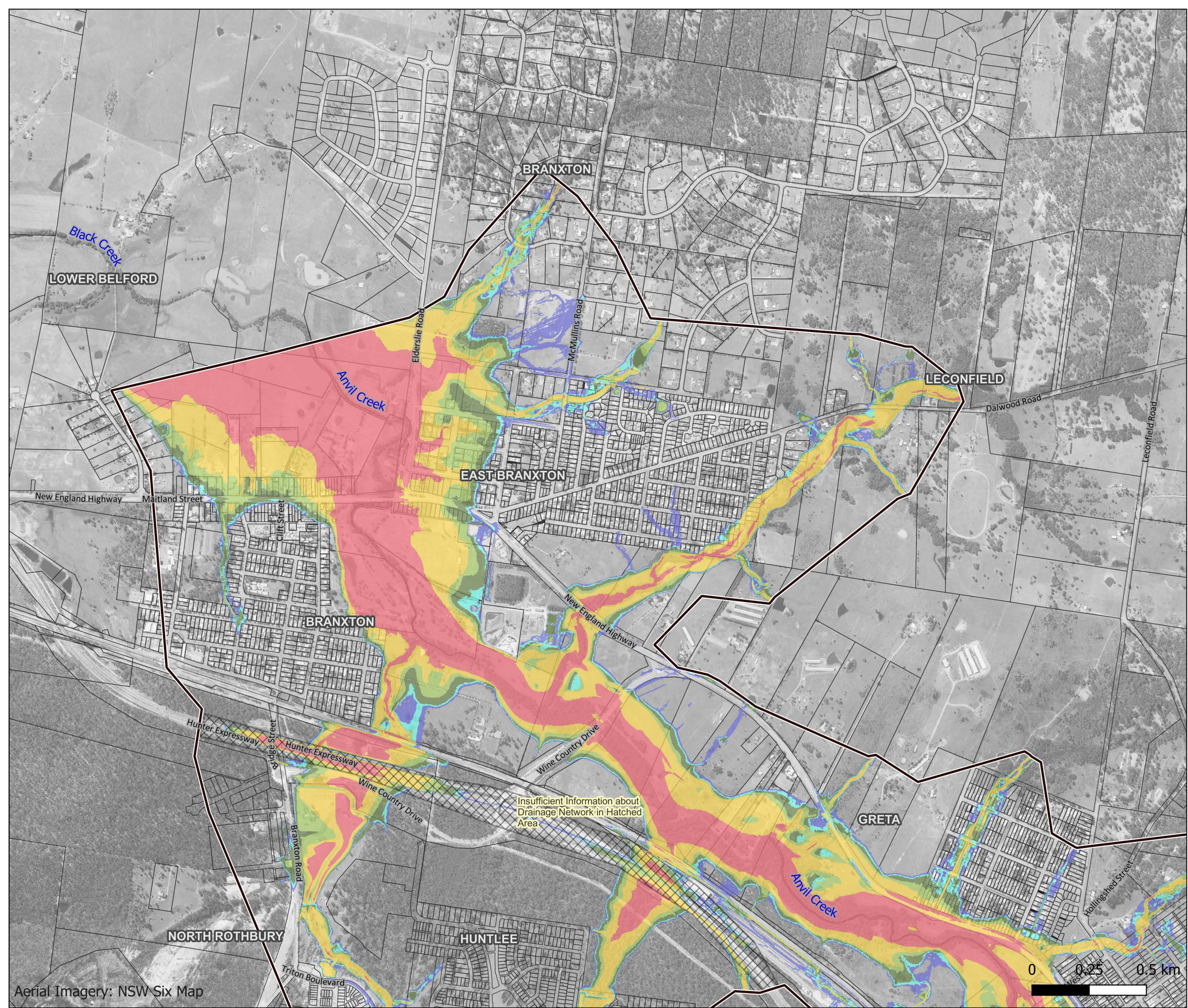
Peak Flood Hazard  
PMF  
Map 1 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







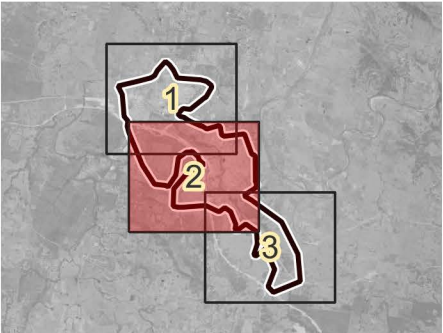
RG-01-033b

Greta Updated Flood Study

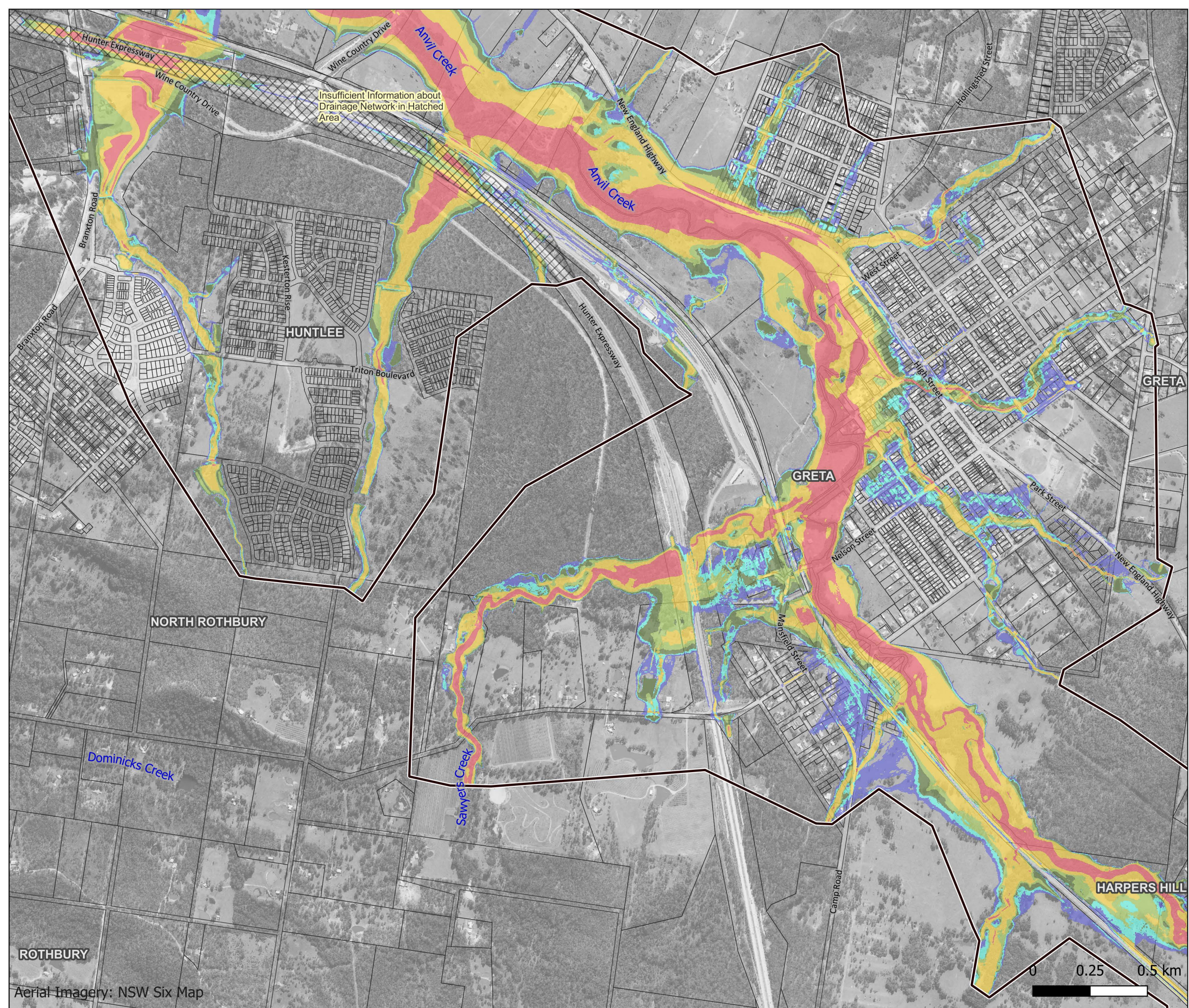
Peak Flood Hazard  
PMF  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



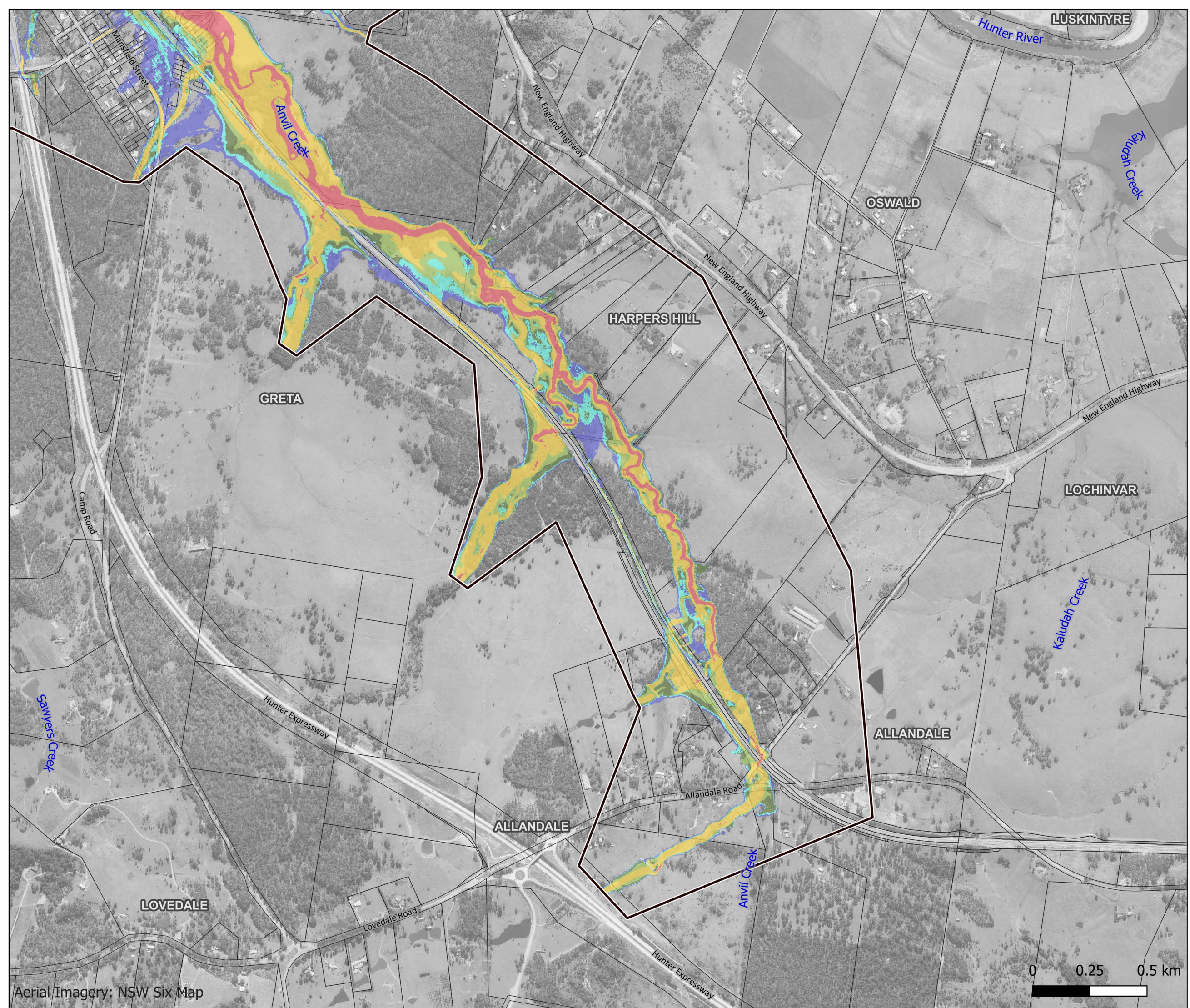
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





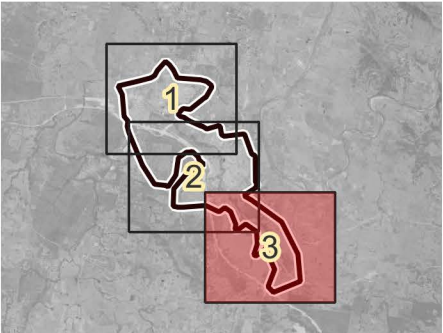
RG-01-033c

Greta Updated Flood Study

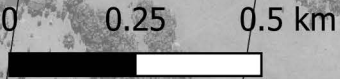
Peak Flood Hazard  
PMF  
Map 3 of 3

Legend

- Cadastral
- Hydraulic Model Extent
- Peak Flood Hazard
  - H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA zone 56







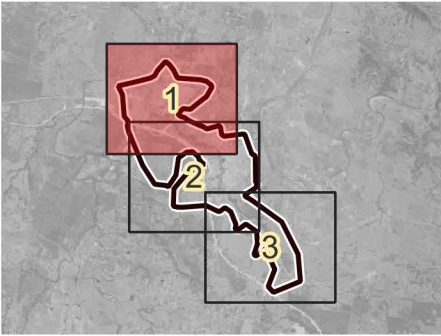
RG-01-040a

Greta Updated Flood Study

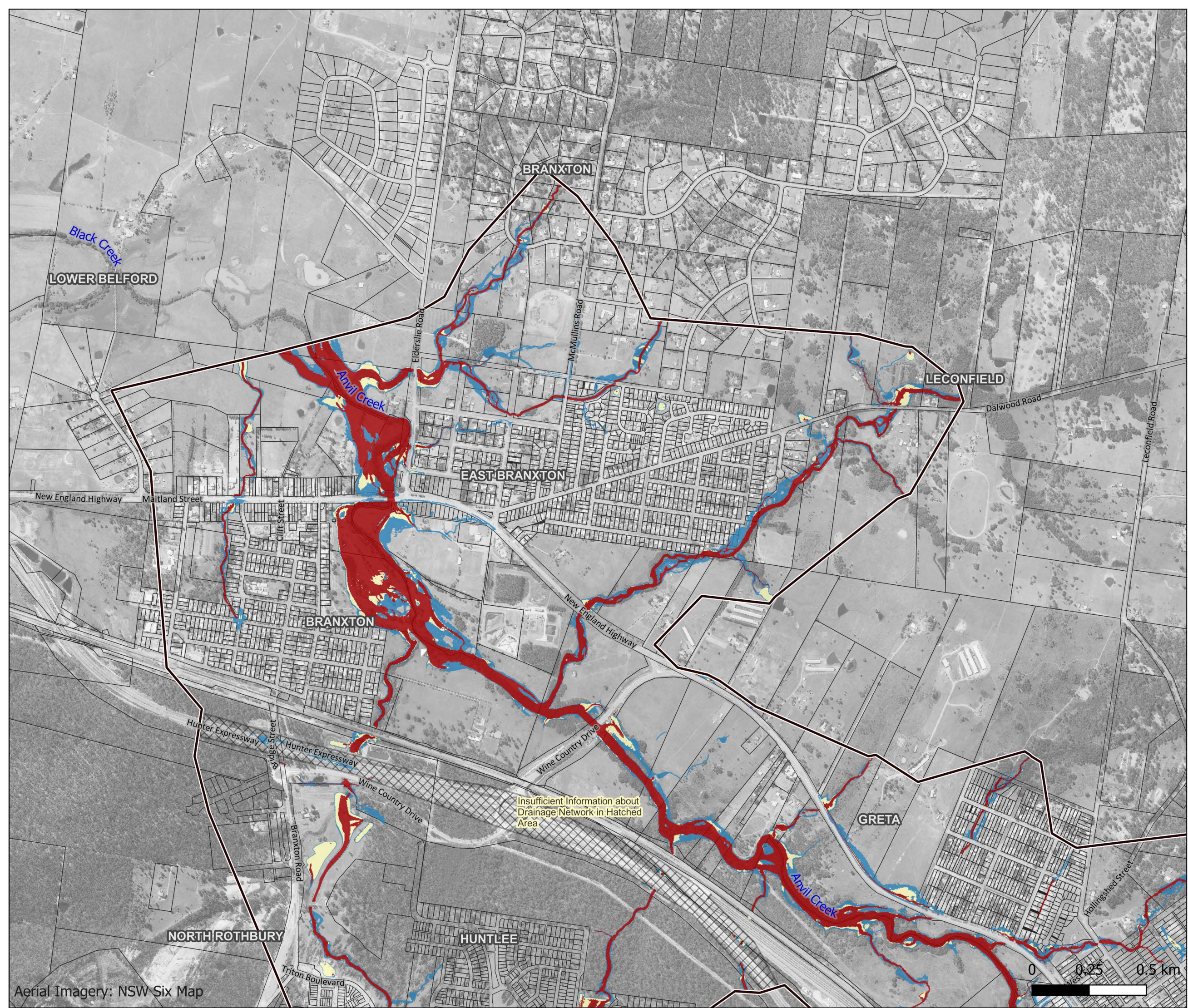
Flood Function  
5% AEP  
Map 1 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







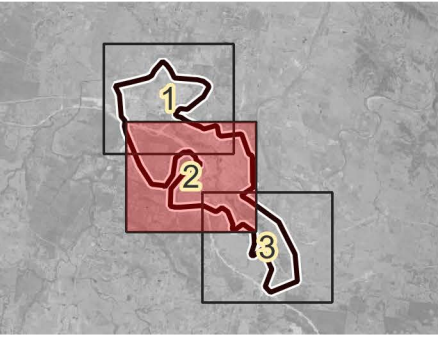
RG-01-040b

Greta Updated Flood Study

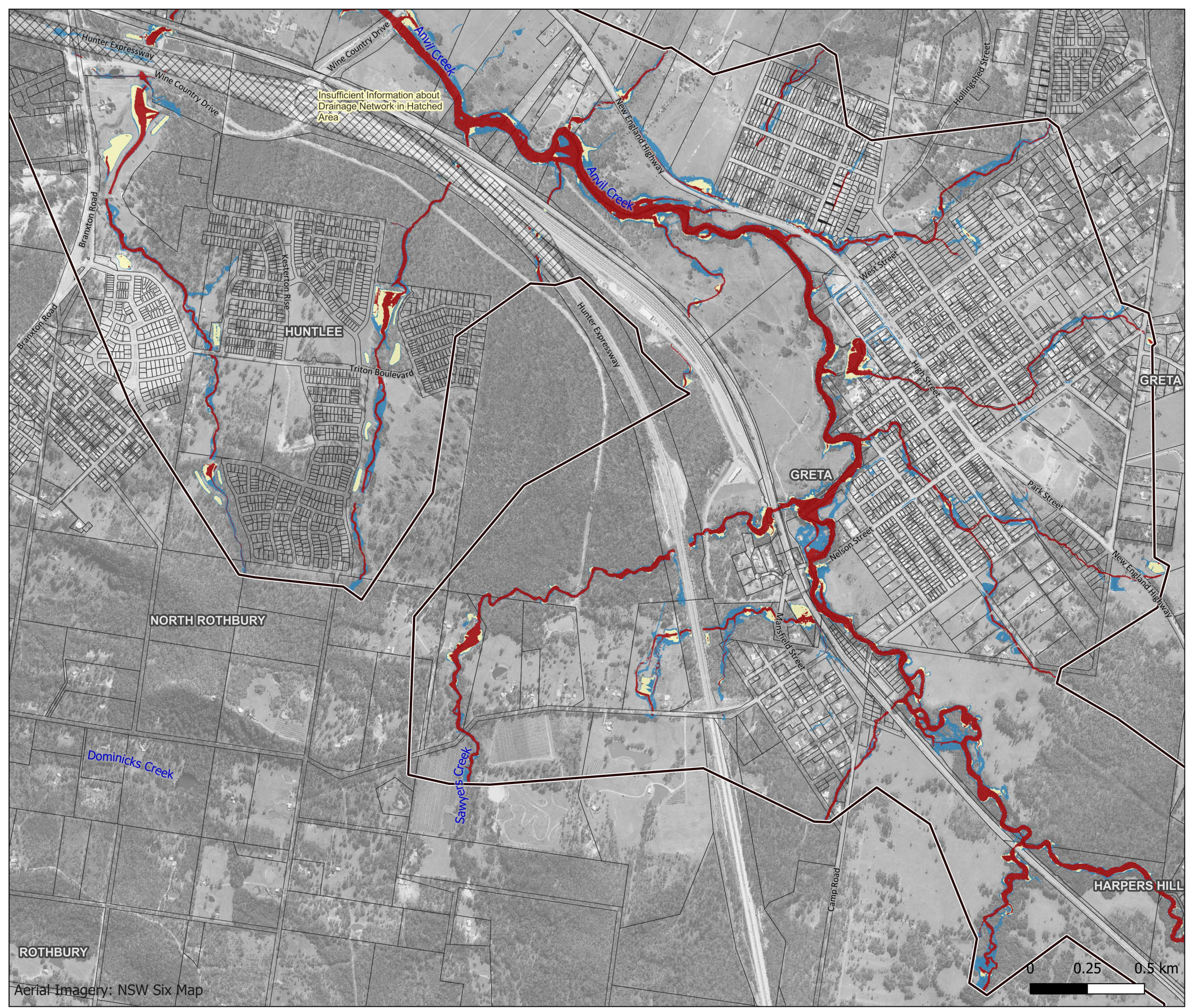
Flood Function  
5% AEP  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



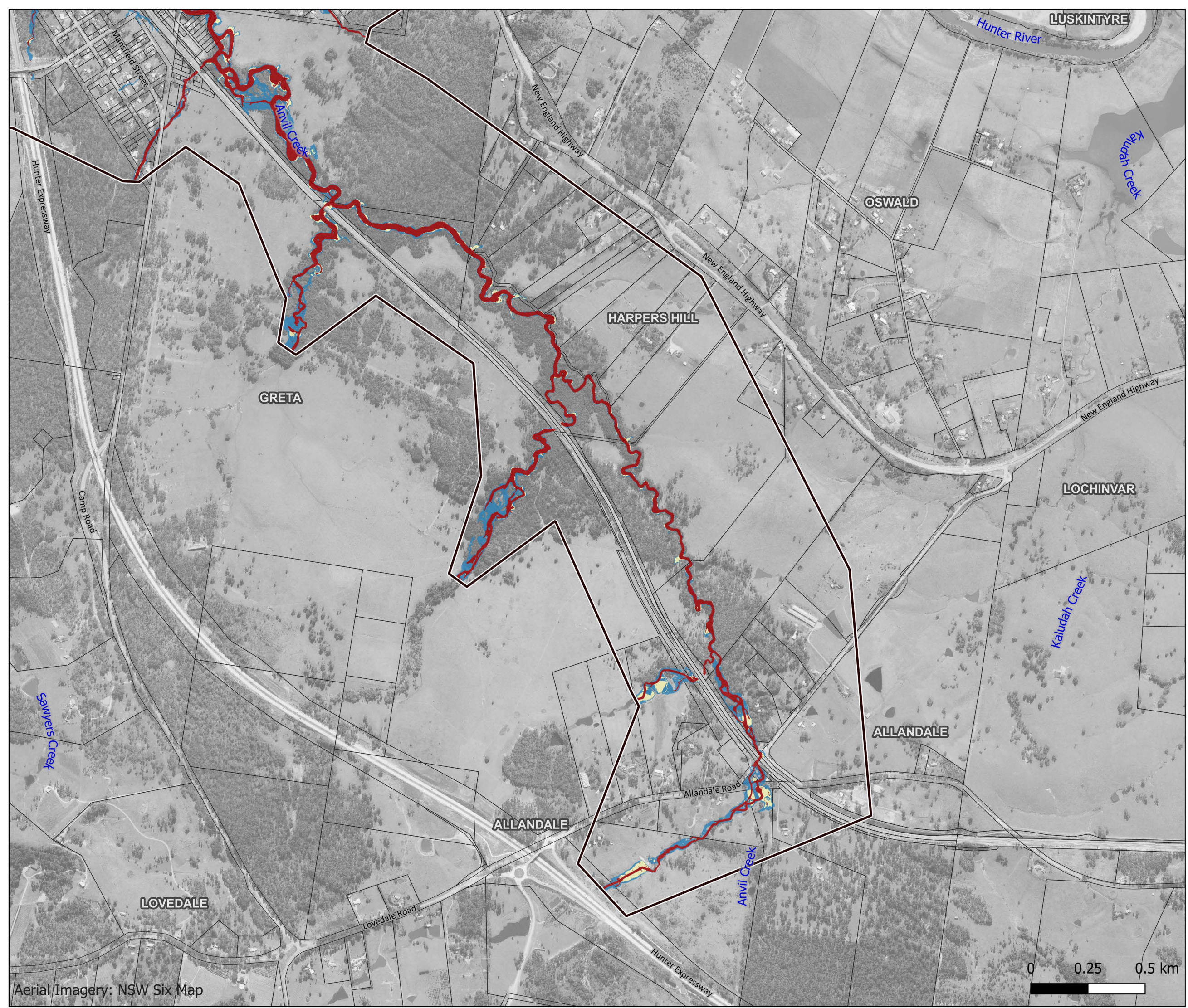
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-040c

Greta Updated Flood Study

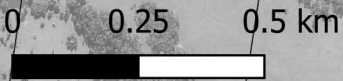
Flood Function  
5% AEP  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







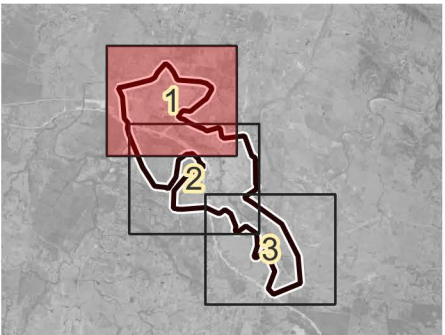
RG-01-041a

**Greta Updated Flood Study**

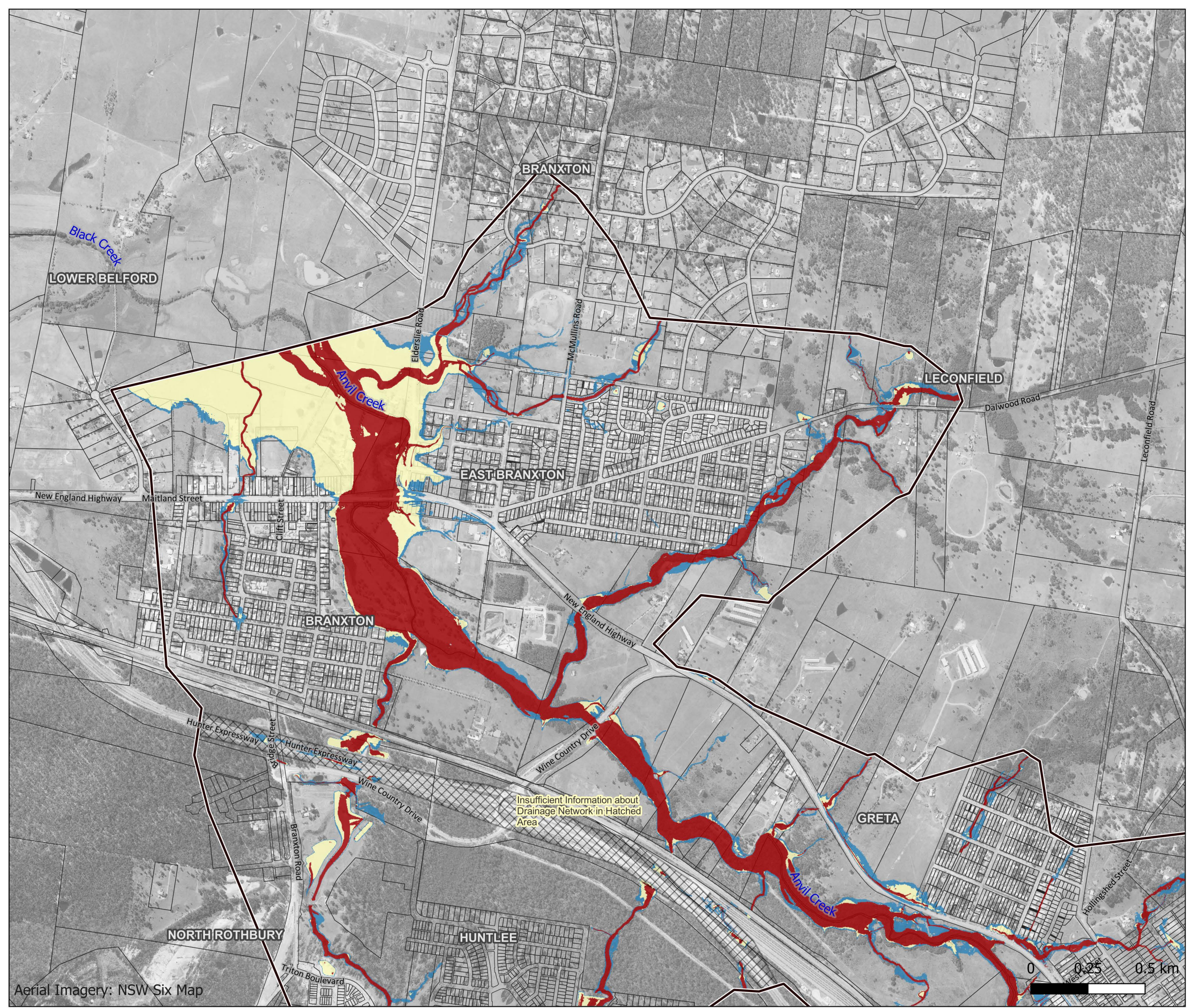
**Flood Function  
1% AEP  
Map 1 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent
- Flood Function**
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







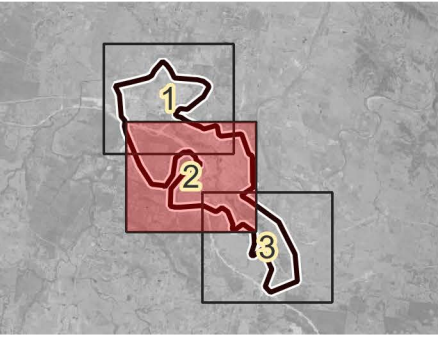
RG-01-041b

Greta Updated Flood Study

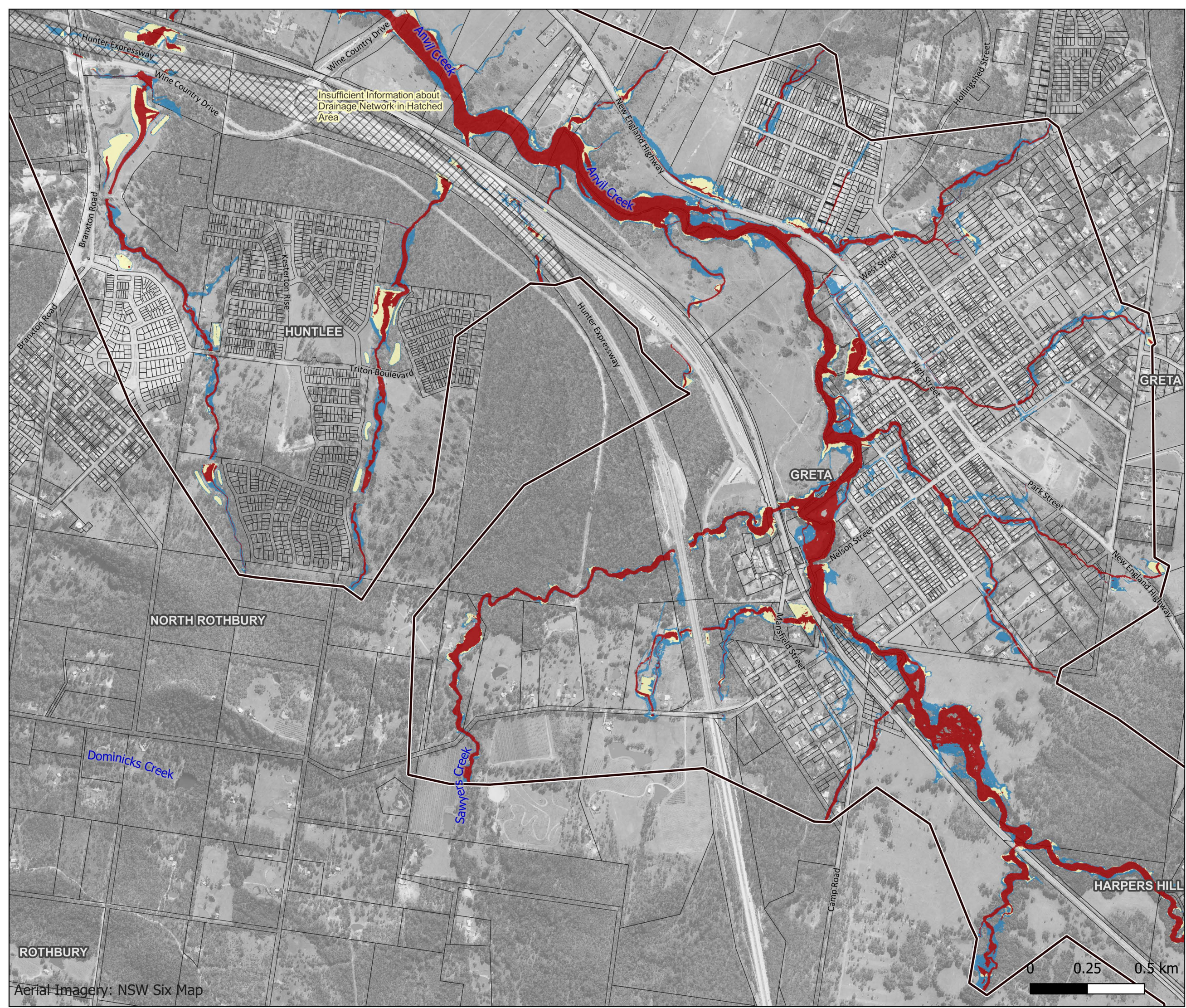
Flood Function  
1% AEP  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



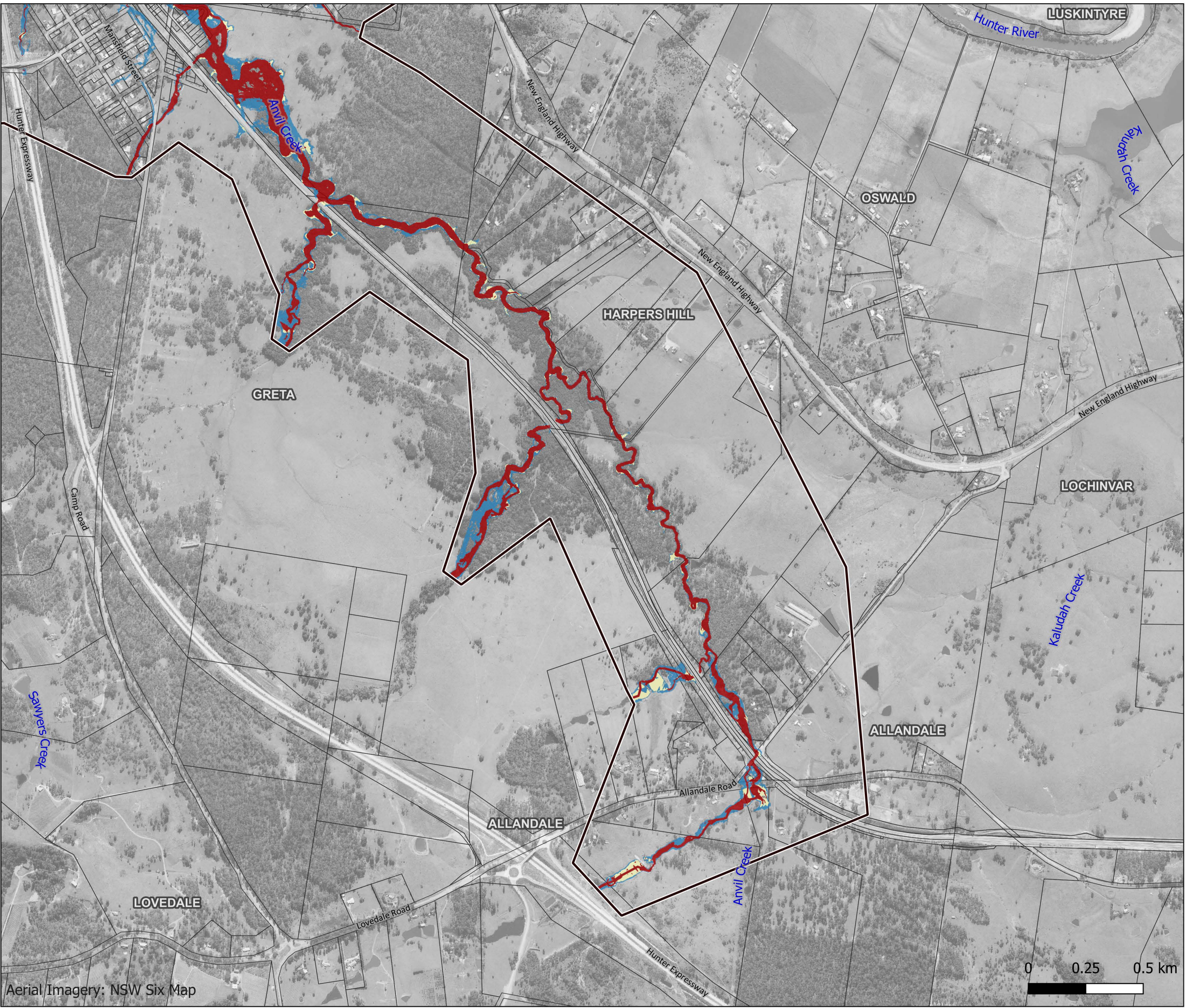
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-041c

Greta Updated Flood Study

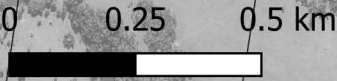
Flood Function  
1% AEP  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







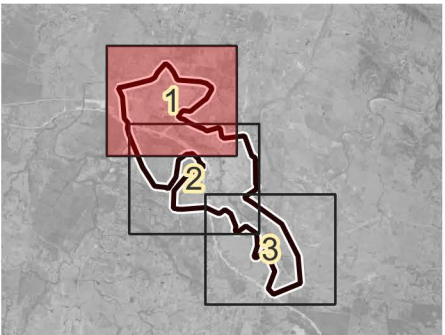
RG-01-042a

**Greta Updated Flood Study**

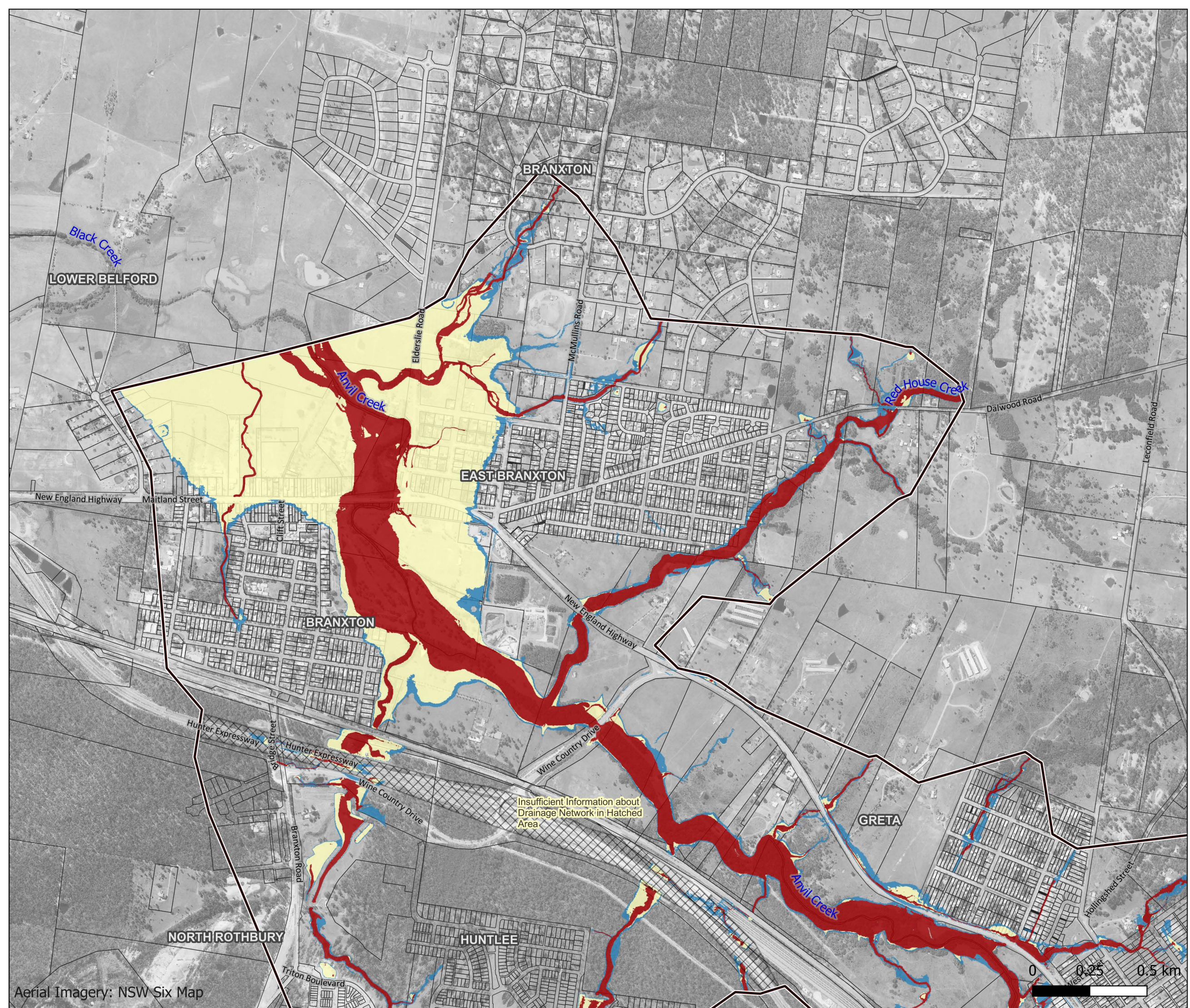
**Flood Function**  
**0.2% AEP**  
**Map 1 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent
- Flood Function**
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







RG-01-042b

Greta Updated Flood Study

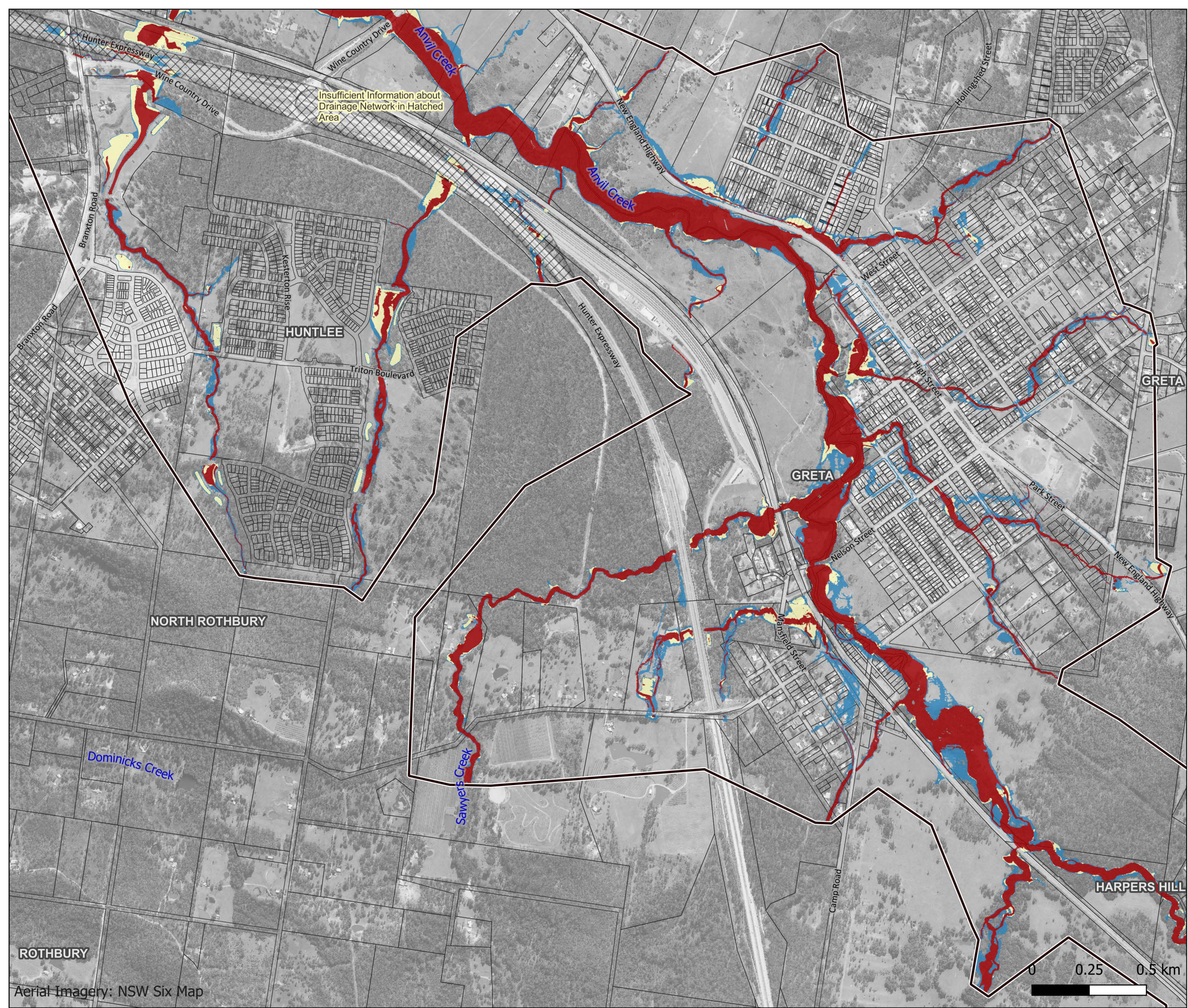
Flood Function  
0.2% AEP  
Map 2 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



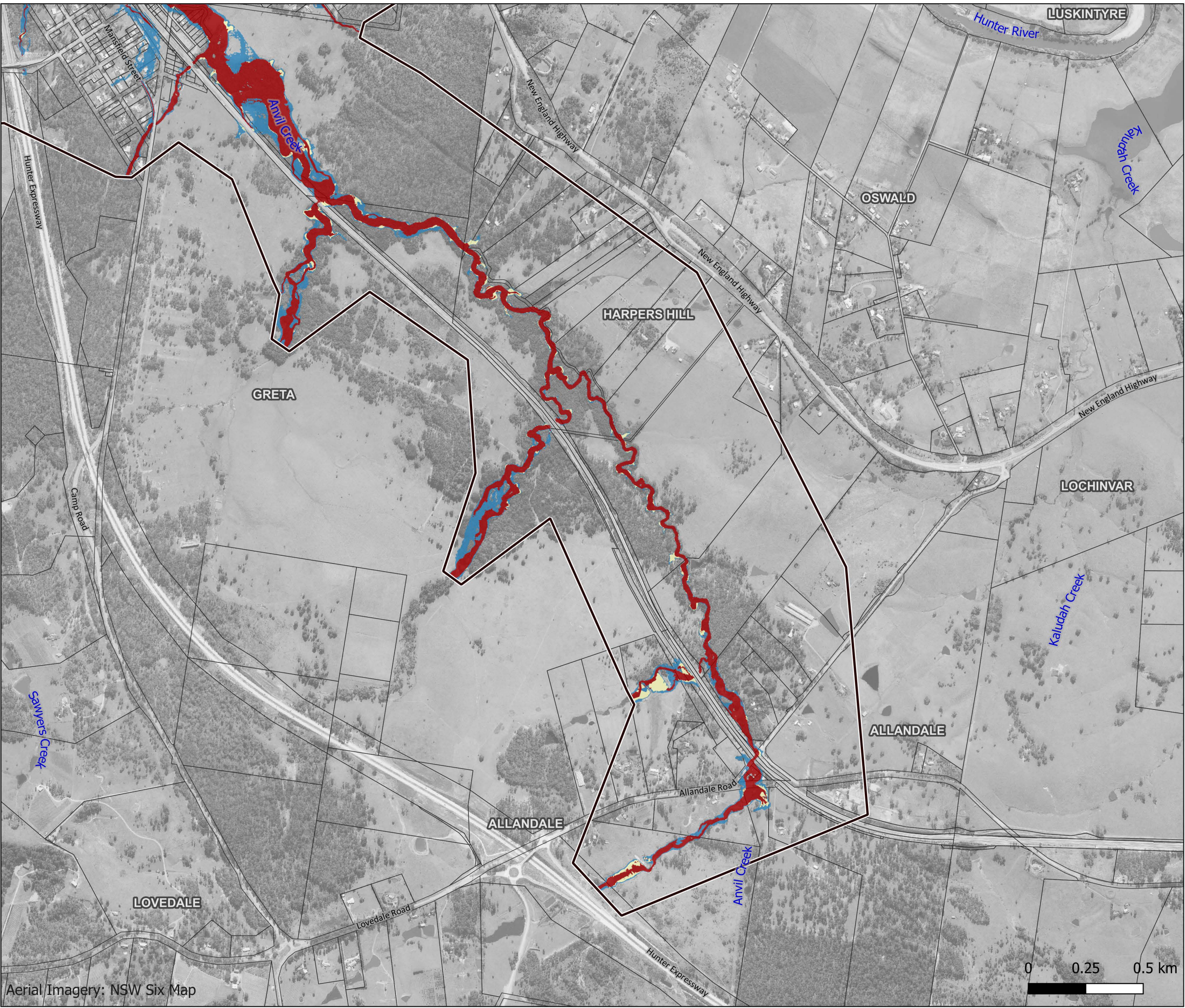
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-042c

Greta Updated Flood Study

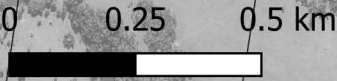
Flood Function  
0.2% AEP  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







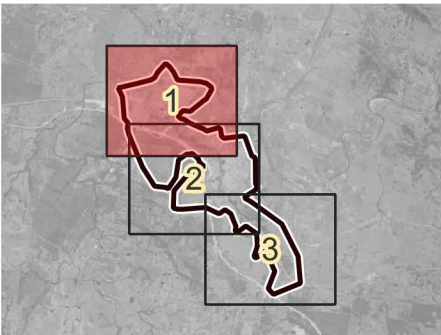
RG-01-043a

Greta Updated Flood Study

Flood Function  
PMF  
Map 1 of 3

Legend

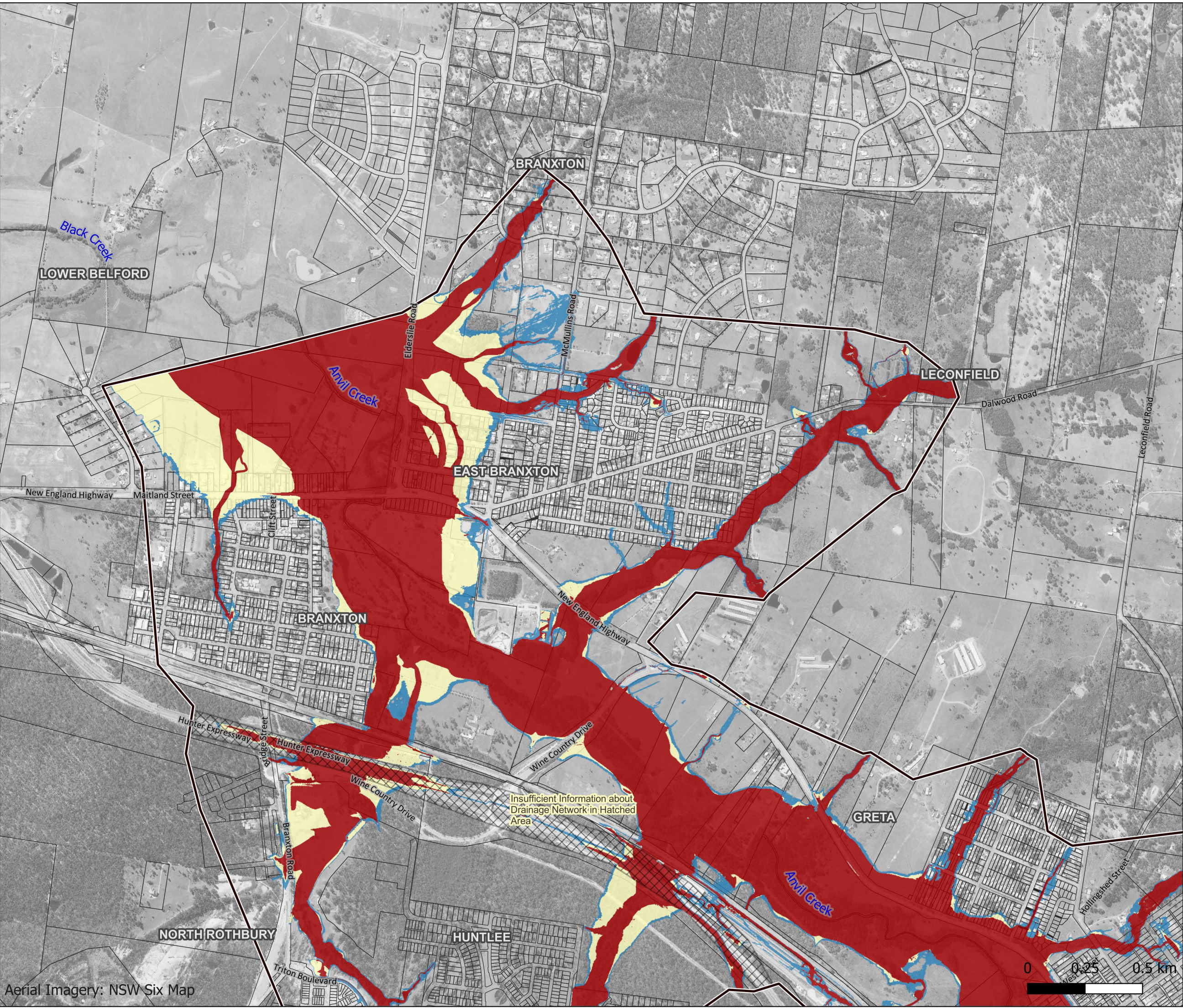
- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



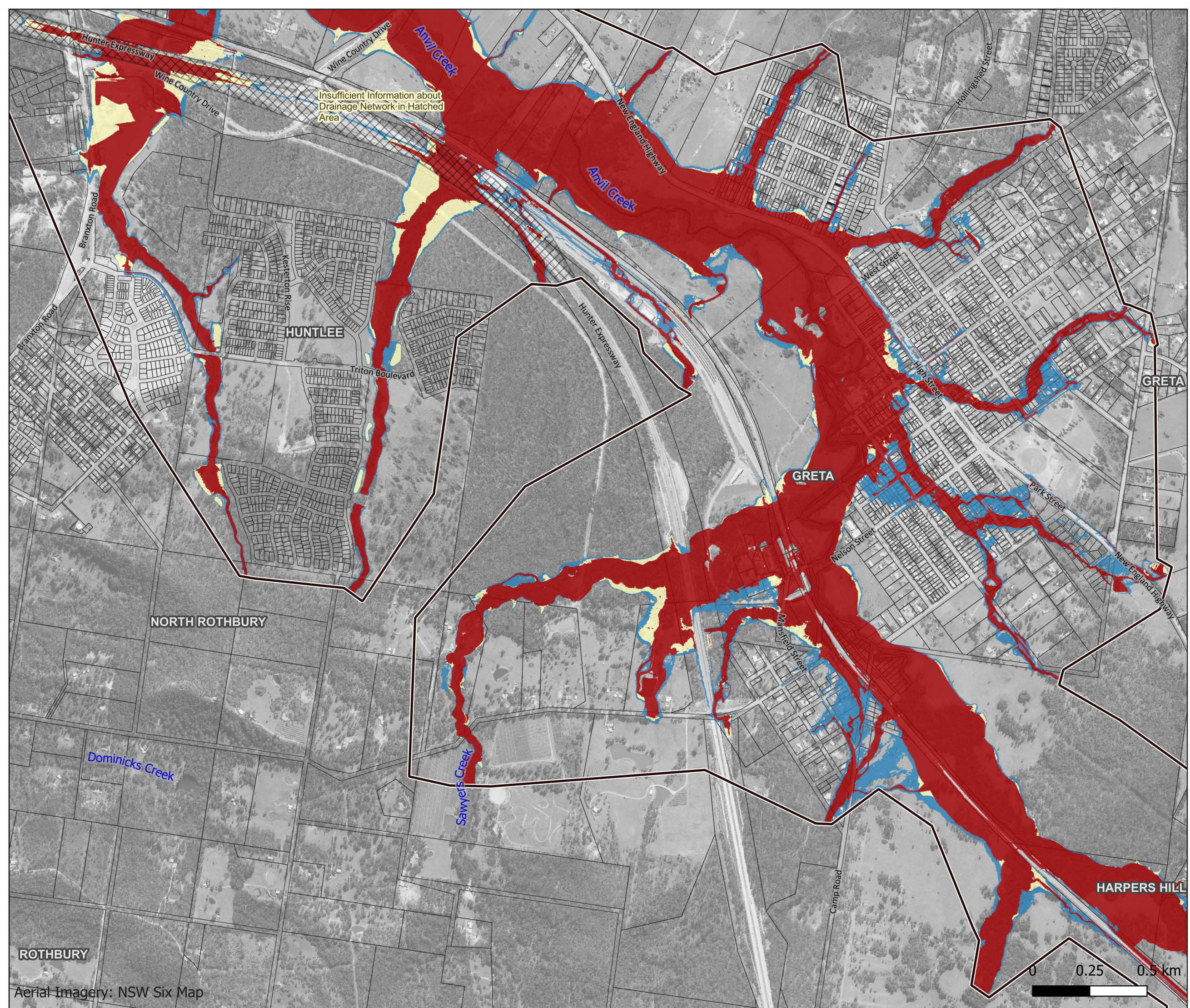
Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



0 0.25 0.5 km







RG-01-043b

## Greta Updated Flood Study

Flood Function  
PMF  
Map 2 of 3

### Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56

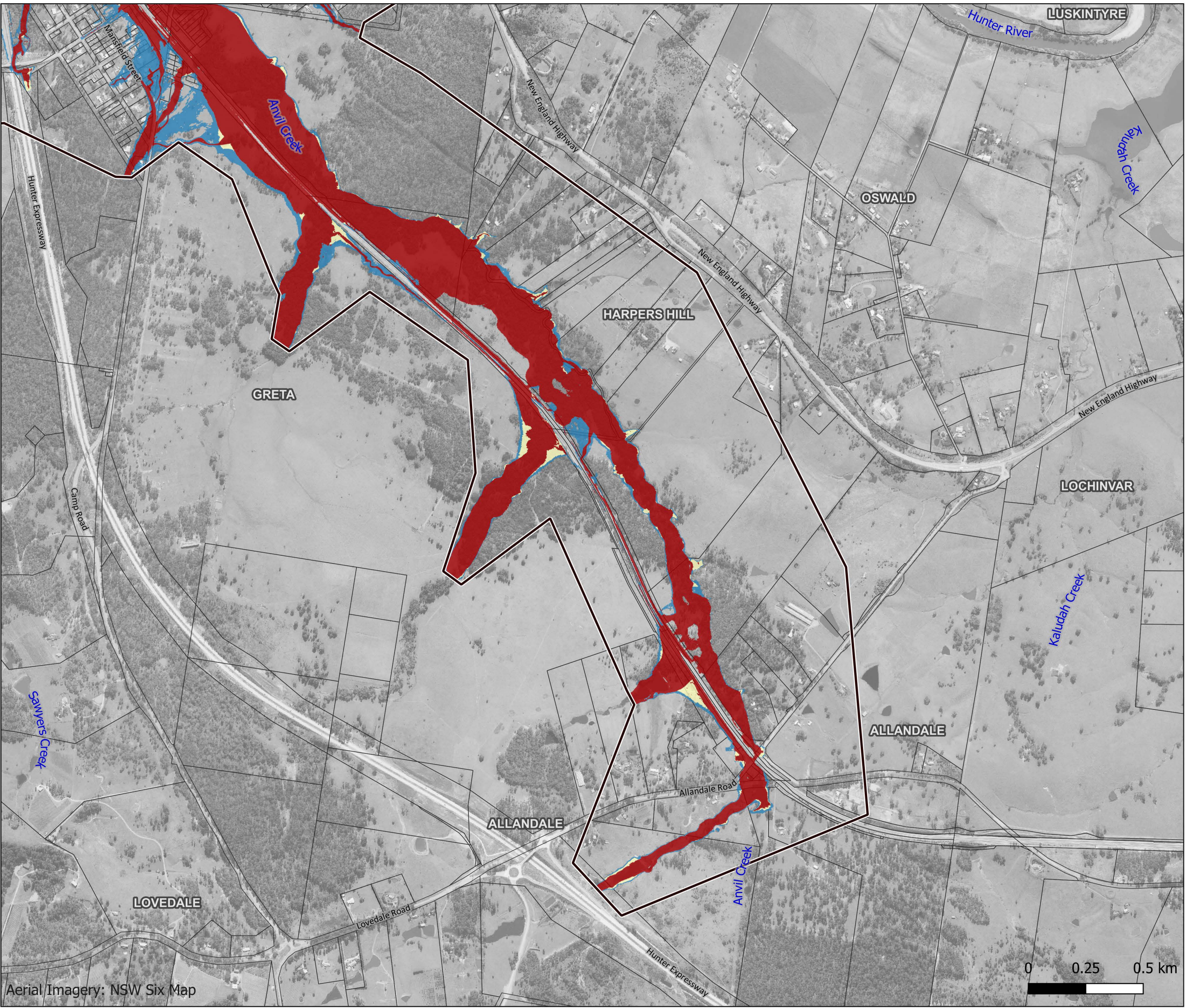


ROTHBURY

Aerial Imagery: NSW Six Map







RG-01-043c

Greta Updated Flood Study

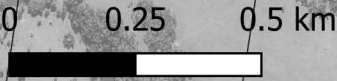
Flood Function  
PMF  
Map 3 of 3

Legend

- Cadastre
- Hydraulic Model Extent
- Flood Function
  - Floodway
  - Flood Storage
  - Flood Fringe



Job Number: J1703  
Scale : 1:15000@A3  
Date : 14/01/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







RG-01-050a

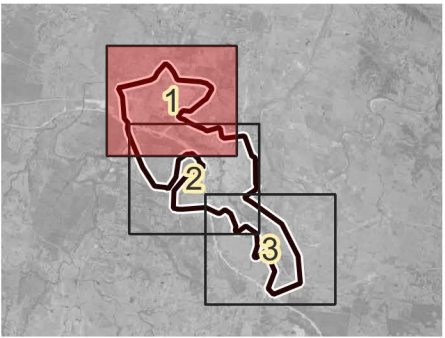
**Greta Updated Flood Study  
Climate Change Impacts -  
0.5% AEP Less 1% AEP  
Map 1 of 3**

**Legend**

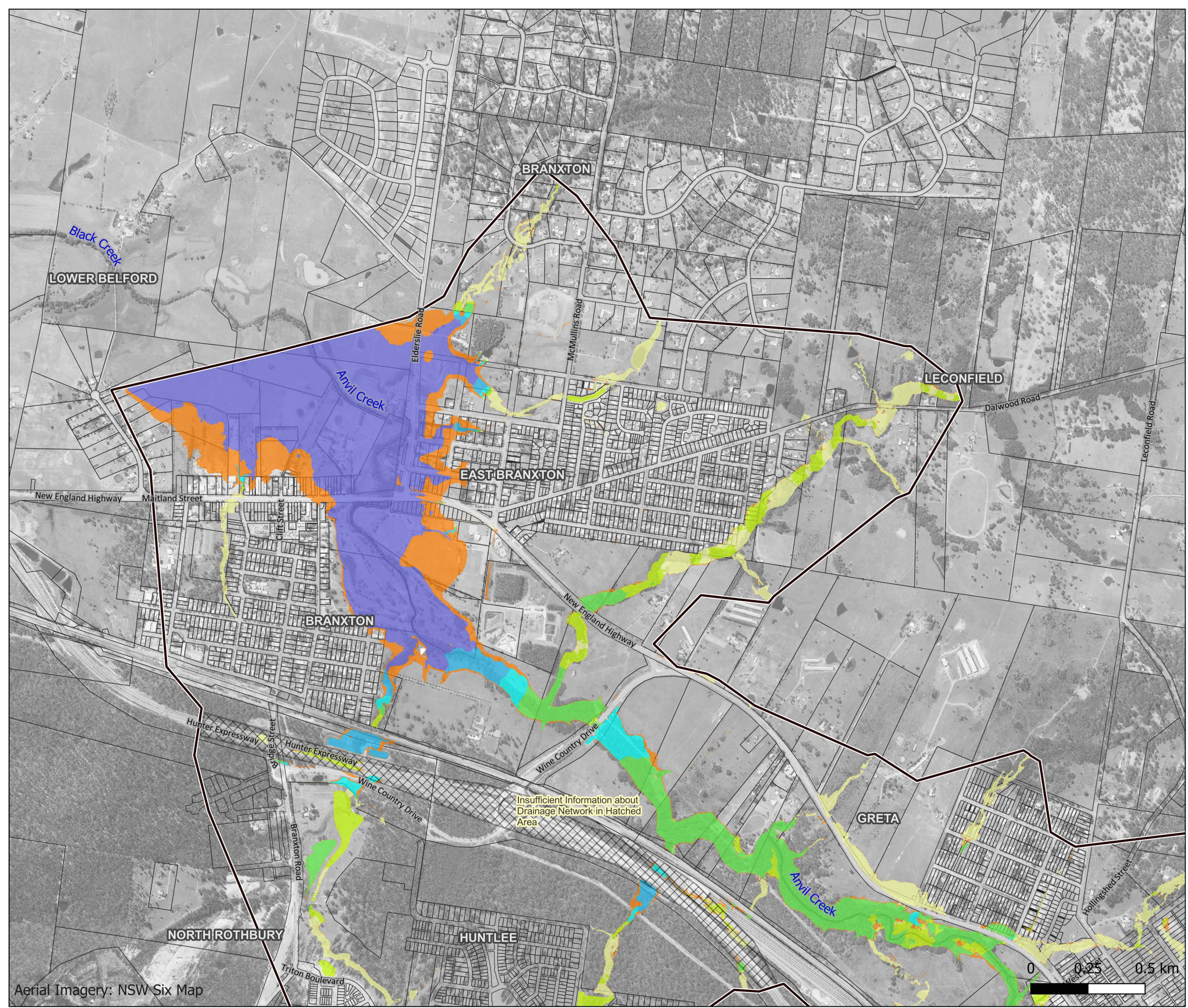
- Cadastre
- Hydraulic Model Extent

**Flood Level Difference (m)**

- <0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- > 3
- Was wet, now dry
- Was dry, now wet



Job Number : J1703  
Scale : 1:15000@A3  
Date : 08/05/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56





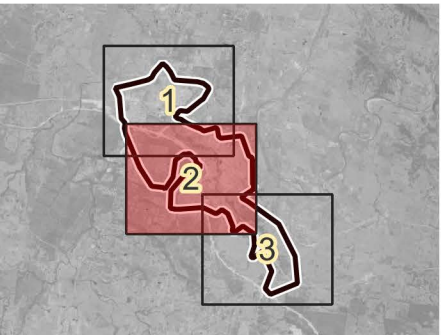


RG-01-050b

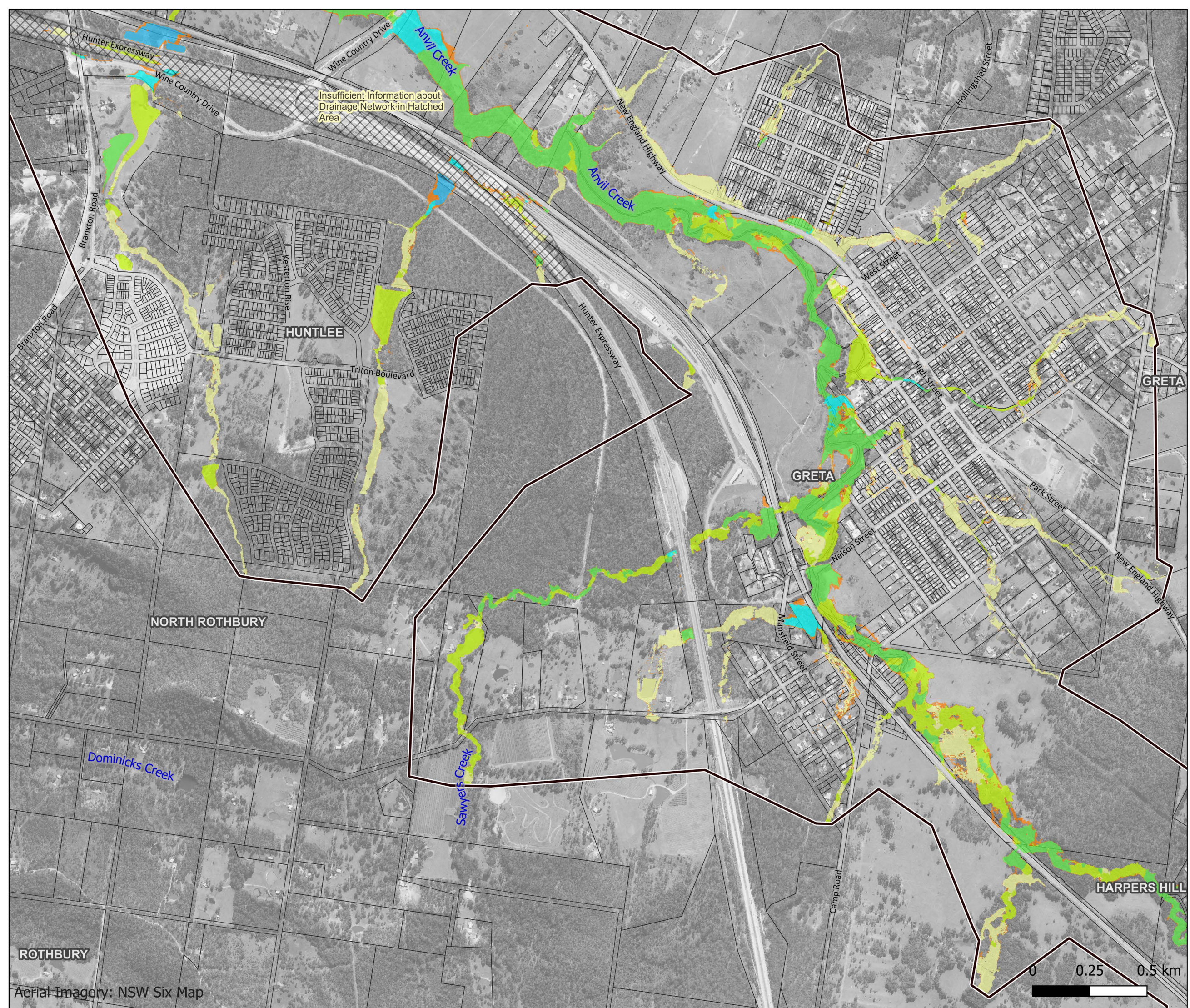
**Greta Updated Flood Study  
Climate Change Impacts -  
0.5% AEP Less 1% AEP  
Map 2 of 3**

**Legend**

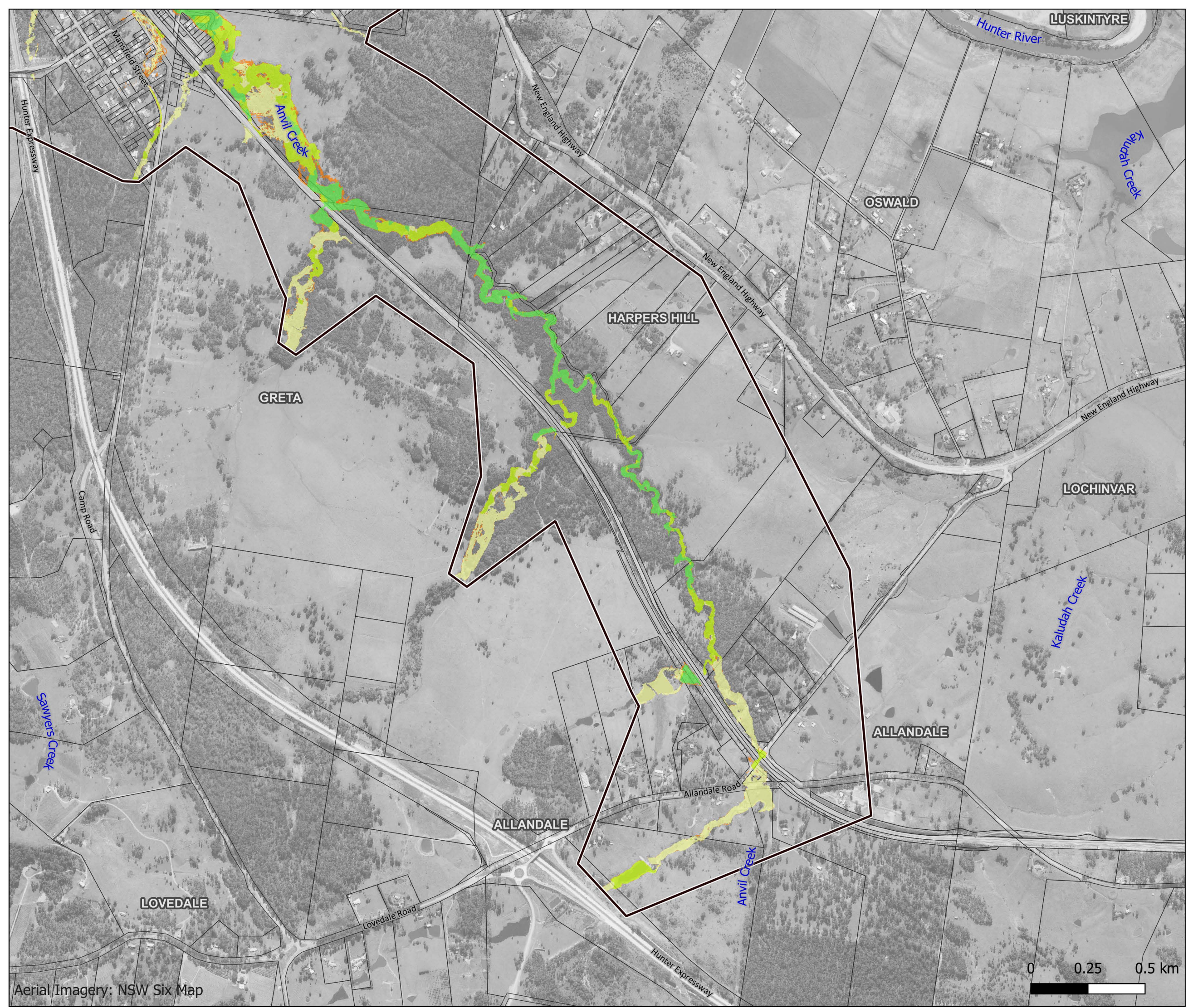
- Cadastre
- Hydraulic Model Extent
- Flood Level Difference (m)**
  - <0.01
  - 0.01 - 0.05
  - 0.05 - 0.1
  - 0.1 - 0.2
  - 0.2 - 0.5
  - 0.5 - 1
  - 1 - 2
  - 2 - 3
  - > 3
- Was wet, now dry
- Was dry, now wet



Job Number: J1703  
Scale : 1:15000@A3  
Date : 08/05/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







RG-01-050c

**Greta Updated Flood Study  
Climate Change Impacts -  
0.5% AEP Less 1% AEP  
Map 3 of 3**

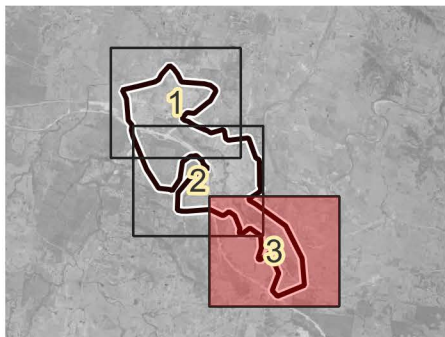
**Legend**

- Cadastre
- Hydraulic Model Extent

**Flood Level Difference (m)**

- <0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- > 3

- Was wet, now dry
- Was dry, now wet



Job Number: J1703  
Scale : 1:15000@A3  
Date : 08/05/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







RG-01-051a

**Greta Updated Flood Study  
Climate Change Impacts -  
0.2% AEP Less 1% AEP  
Map 1 of 3**

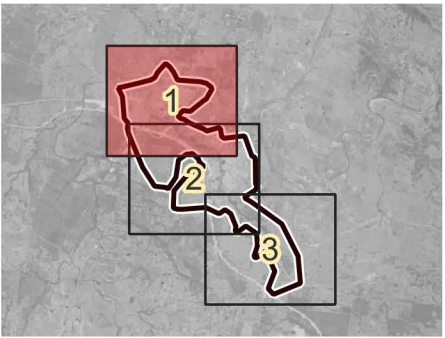
**Legend**

- Cadastre
- Hydraulic Model Extent

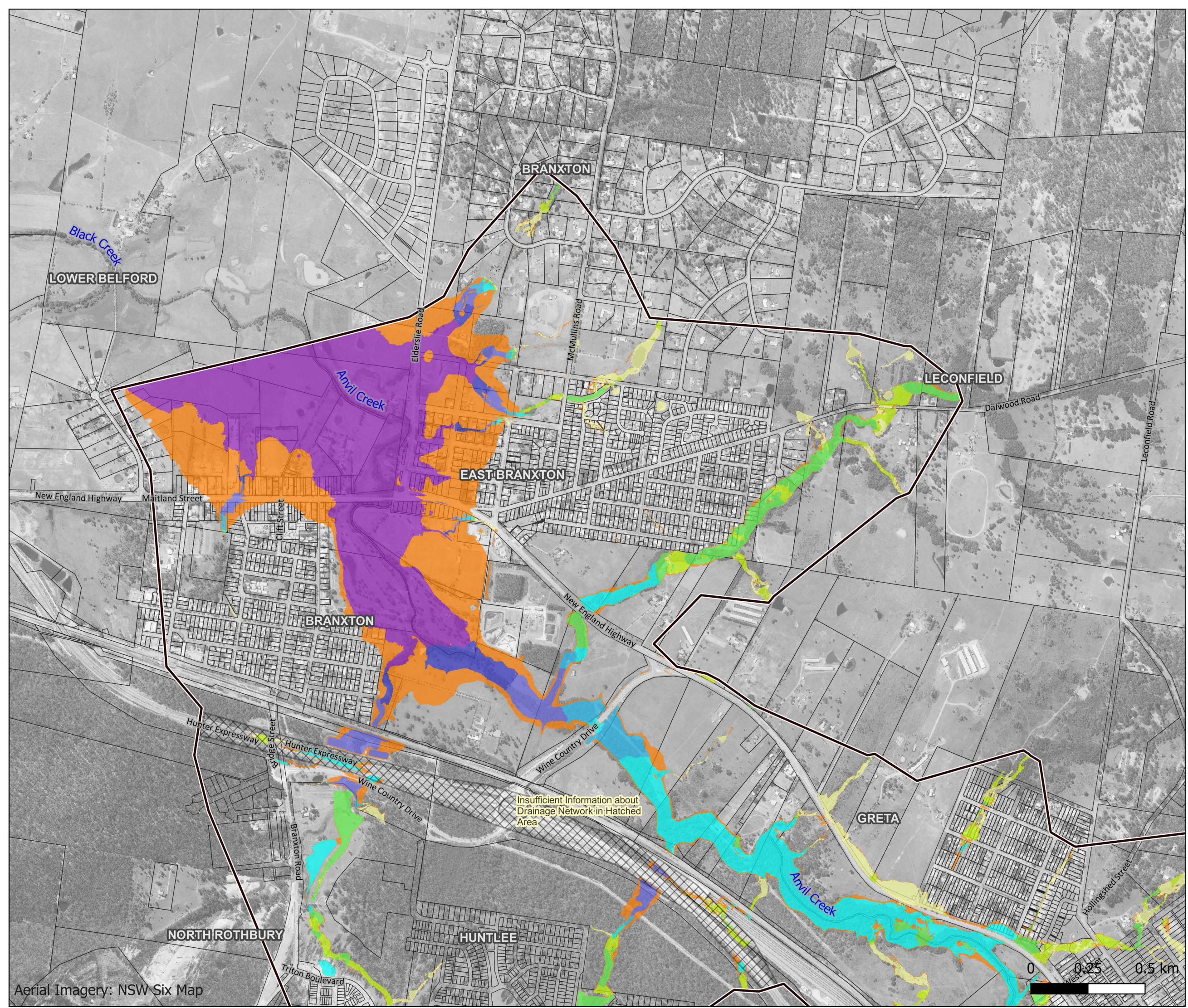
**Flood Level Difference (m)**

- <0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- > 3

- Was wet, now dry
- Was dry, now wet



Job Number : J1703  
Scale : 1:15000@A3  
Date : 08/05/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56







RG-01-051b

**Greta Updated Flood Study  
Climate Change Impacts -  
0.2% AEP Less 1% AEP  
Map 2 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent

**Flood Level Difference (m)**

- <0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- > 3

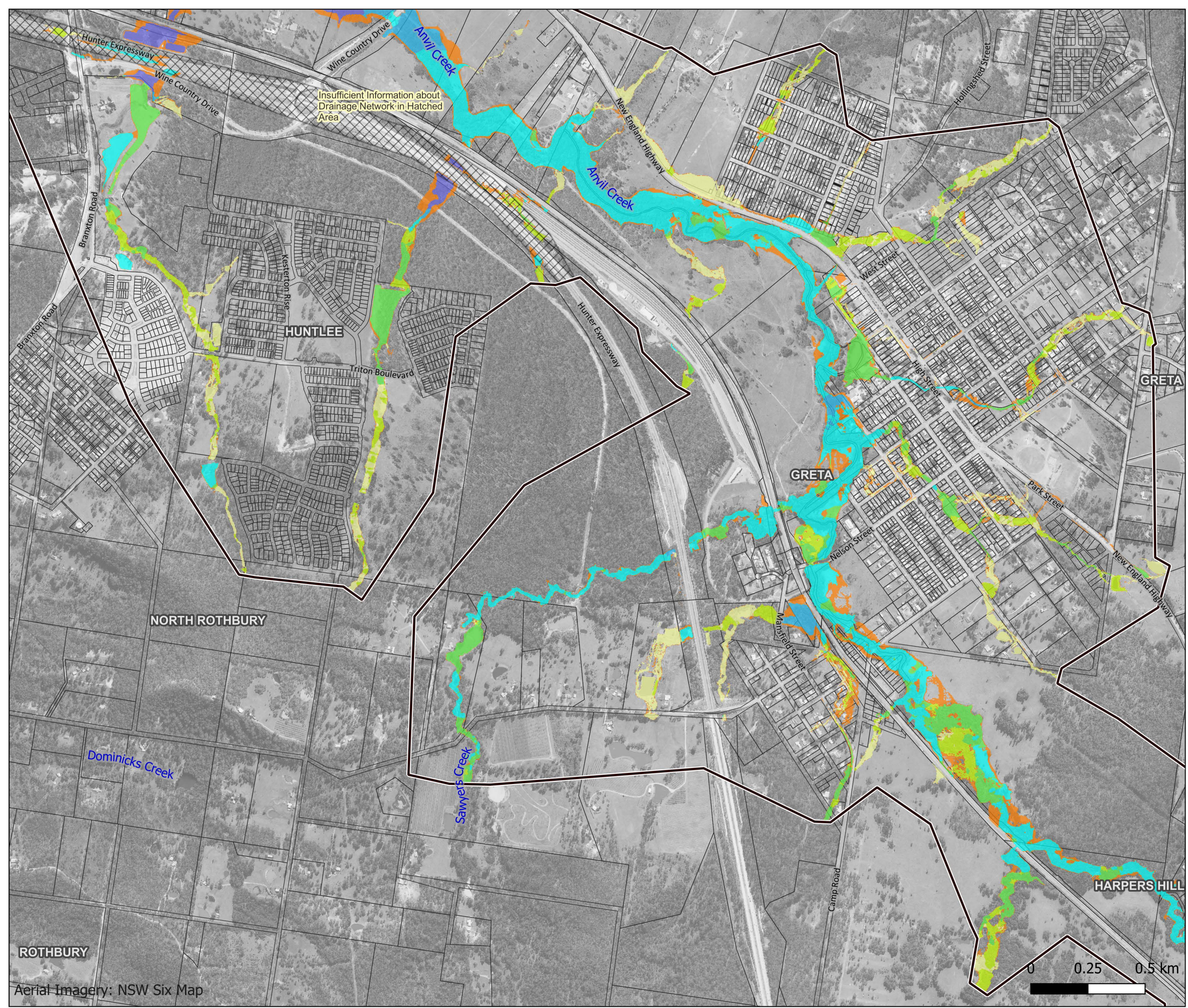
- Was wet, now dry
- Was dry, now wet



Job Number: J1703  
Scale : 1:15000@A3  
Date : 08/05/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56



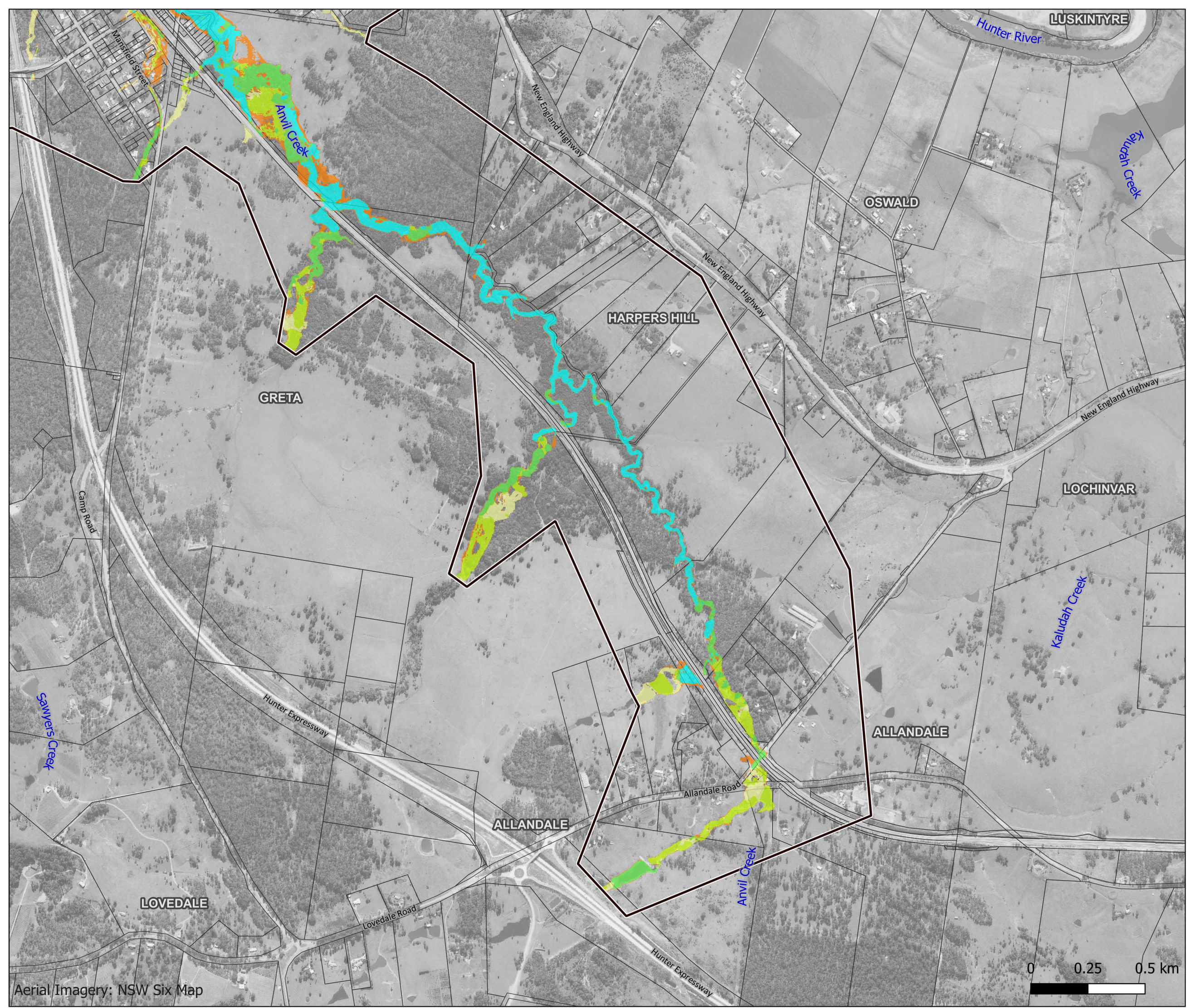
0 0.25 0.5 km



ROTHBURY

Aerial Imagery: NSW Six Map





RG-01-051c

**Greta Updated Flood Study  
Climate Change Impacts -  
0.2% AEP Less 1% AEP  
Map 3 of 3**

**Legend**

- Cadastre
- Hydraulic Model Extent

**Flood Level Difference (m)**

- <0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- > 3
- Was wet, now dry
- Was dry, now wet



Job Number: J1703  
Scale : 1:15000@A3  
Date : 08/05/2025  
Revision : 02  
Created by : JPS  
Reviewed by : JRF  
Coordinate System : GDA94 / MGA  
zone 56

