

**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

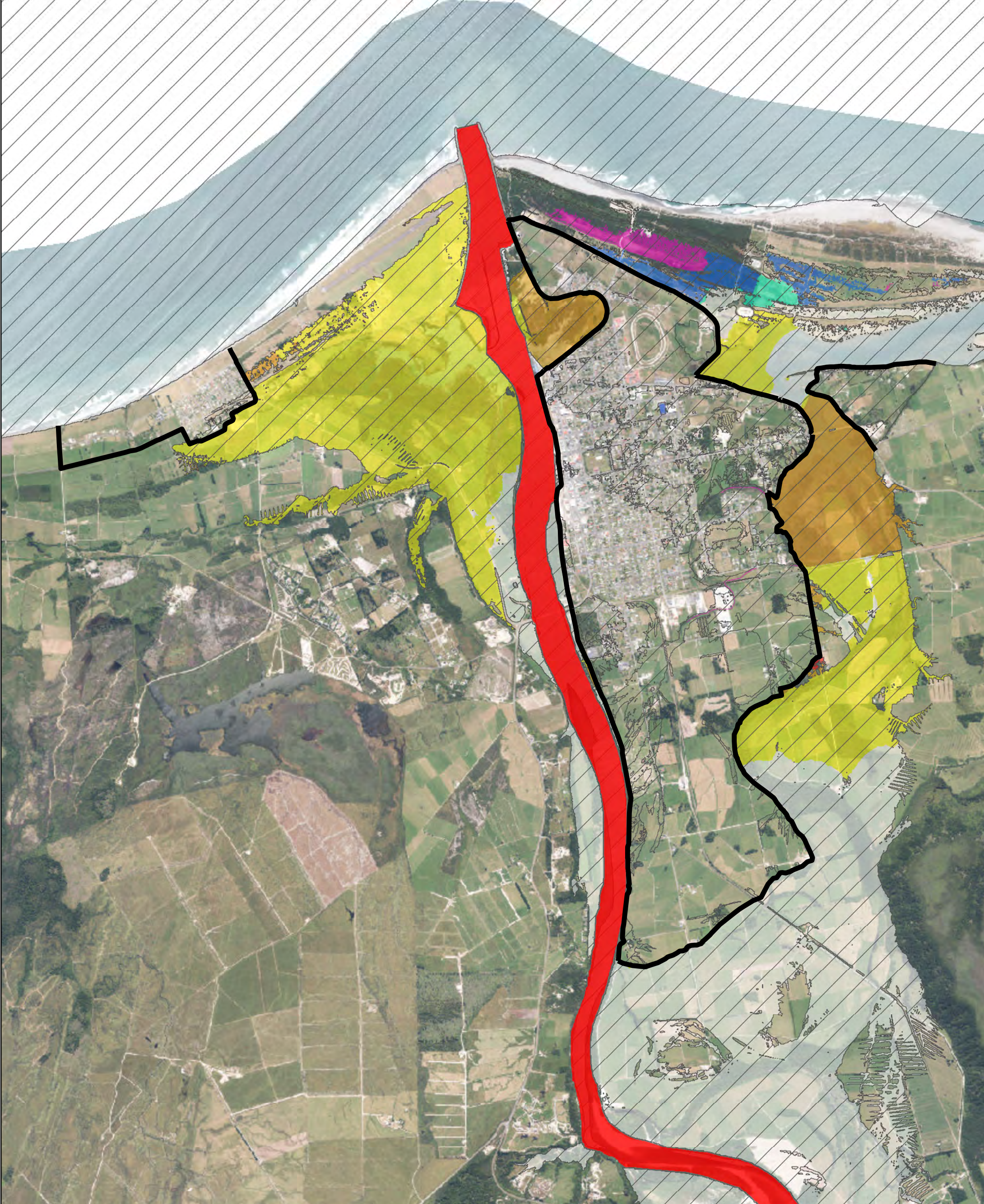
PROJECT  
**Buller River Flood Modelling**

DEPTH DIFFERENCE MAP  
OPTION 1 - 20yr ARI  
Extensive ring bank including  
Carter's beach and Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
Vertical Datum: NZVD2016  
Model Completed: March 2022

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**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

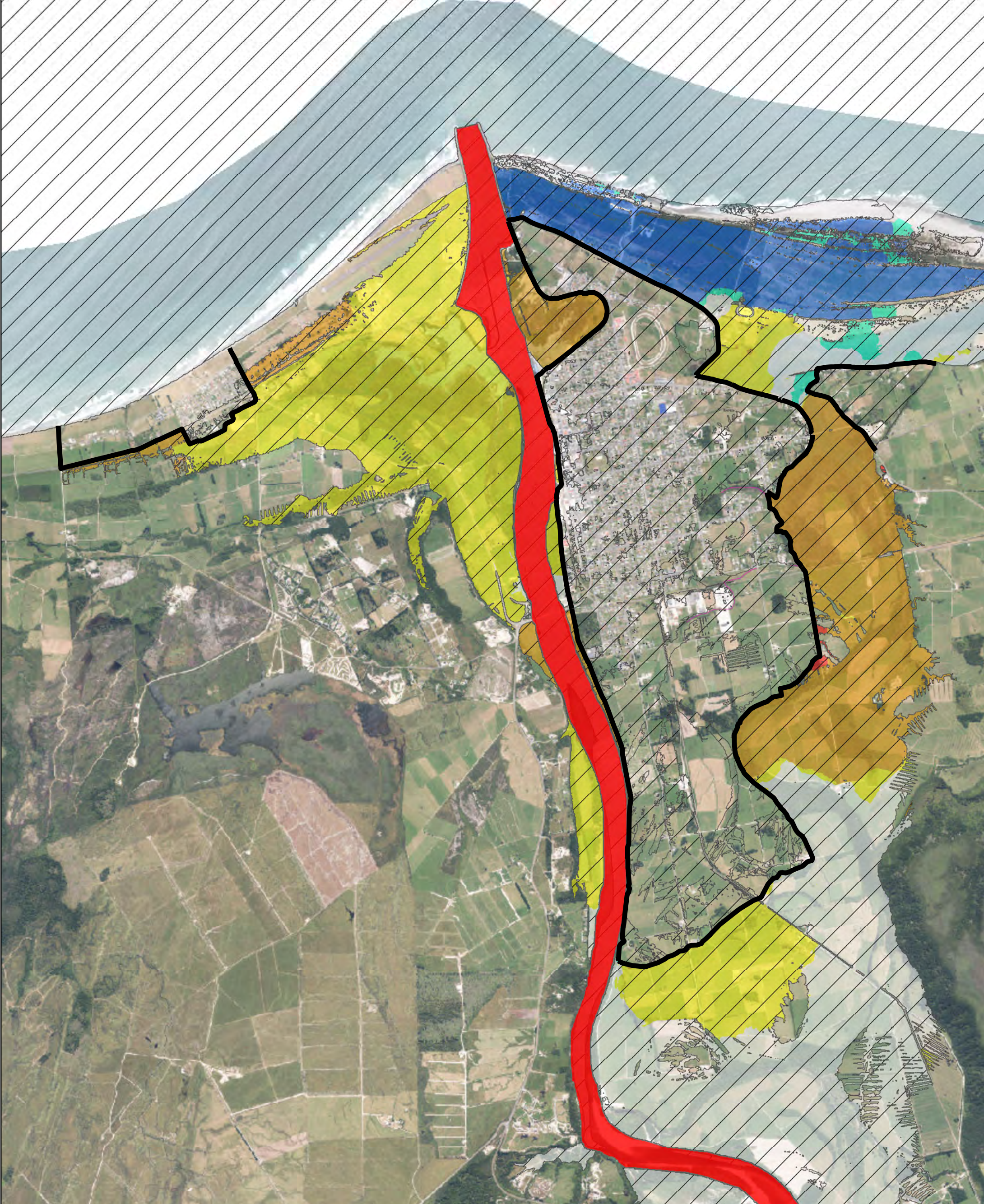
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 1 - 50yr ARI**  
**Extensive ring bank including**  
**Carter's beach and Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
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**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

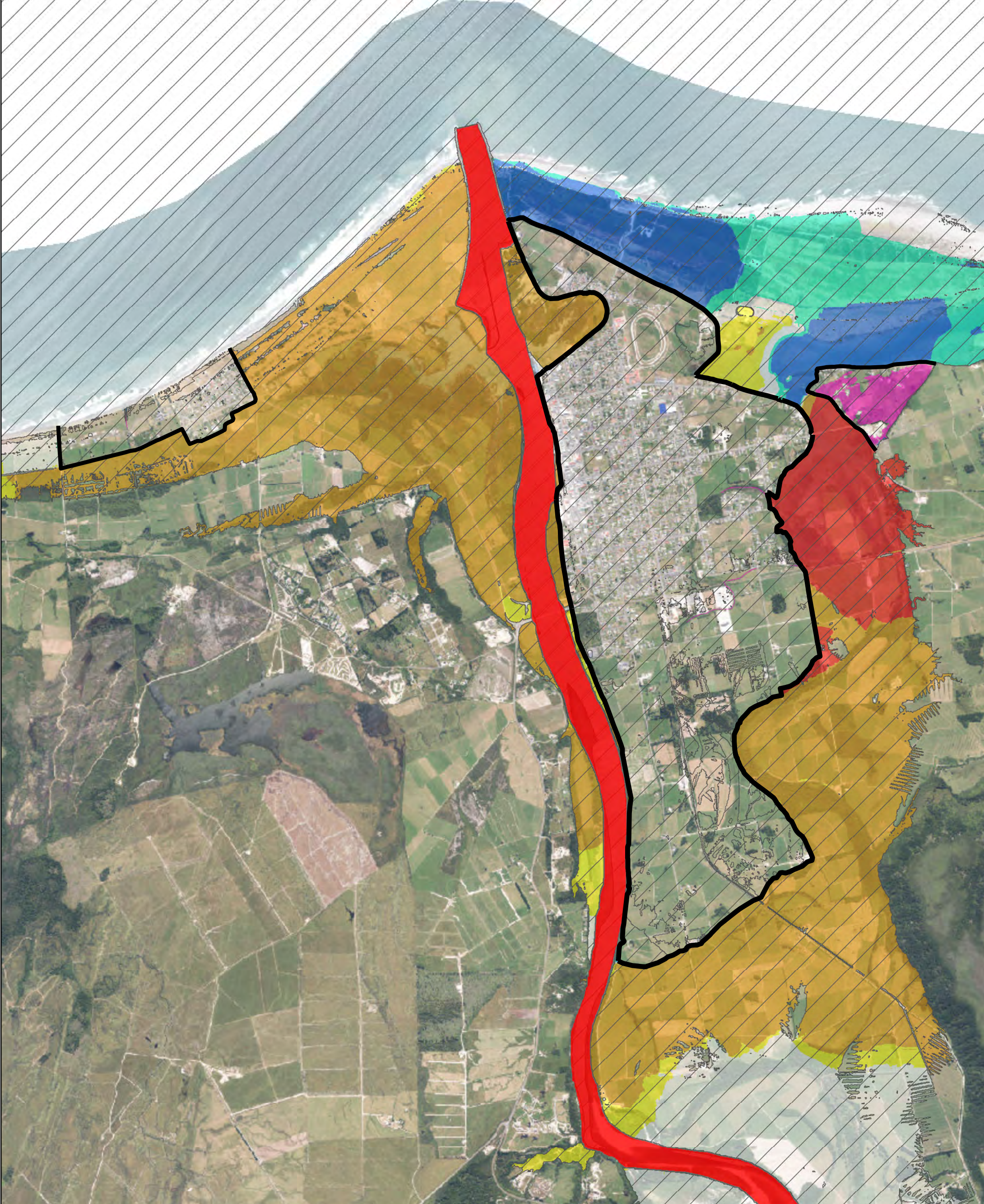
PROJECT  
**Buller River Flood Modelling**

DEPTH DIFFERENCE MAP  
OPTION 1 - 100yr ARI  
Extensive ring bank including  
Carter's beach and Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
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Model Completed: March 2022

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**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

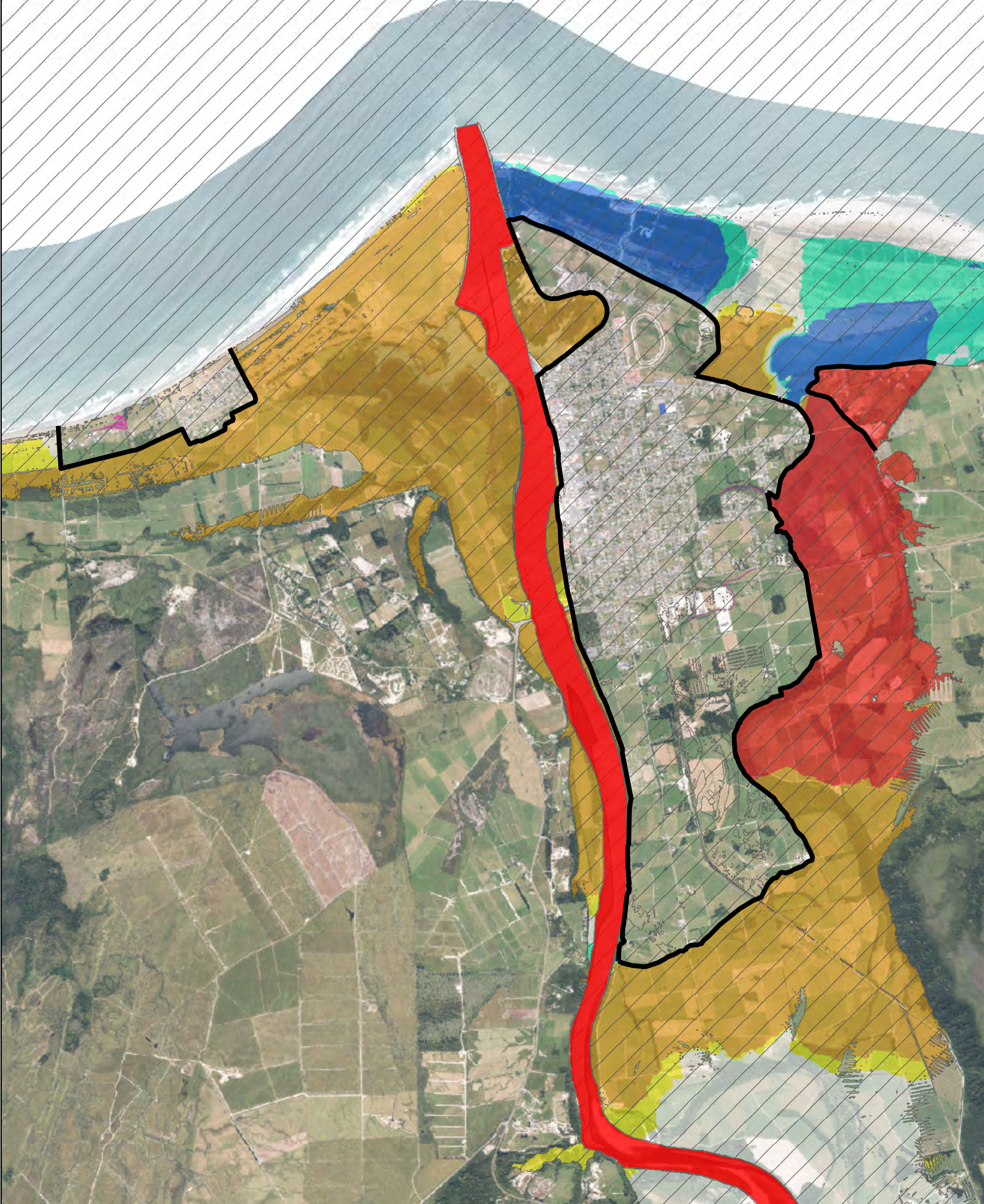
A3 SCALE 1:30,000

MAP (1 of 1)

<b>PROJECT</b> Buller River Flood Modelling					
<b>DEPTH DIFFERENCE MAP</b>					
<b>OPTION 1 - 100yr ARI RCP6</b> Extensive ring bank including Carter's beach and Snodgrass banks					
REVISION	01	Created By	BS	Reviewed By	MG
AUTHOR	Matthew Gardner		DATE	21/03/2022	

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5

**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

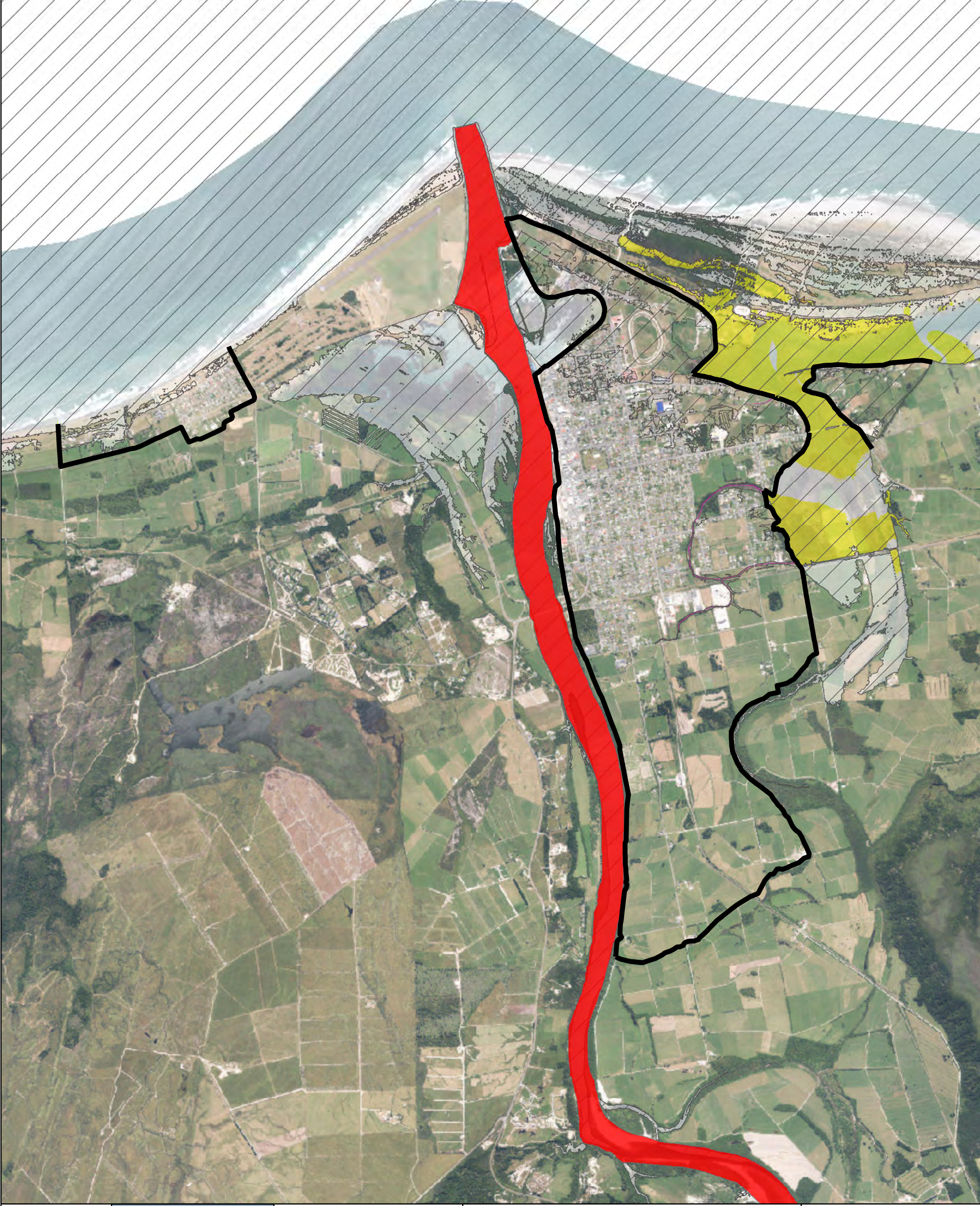
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 1 - 100yr ARI RCP 8.5**  
**Extensive ring bank including**  
**Carter's beach and Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	14/04/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

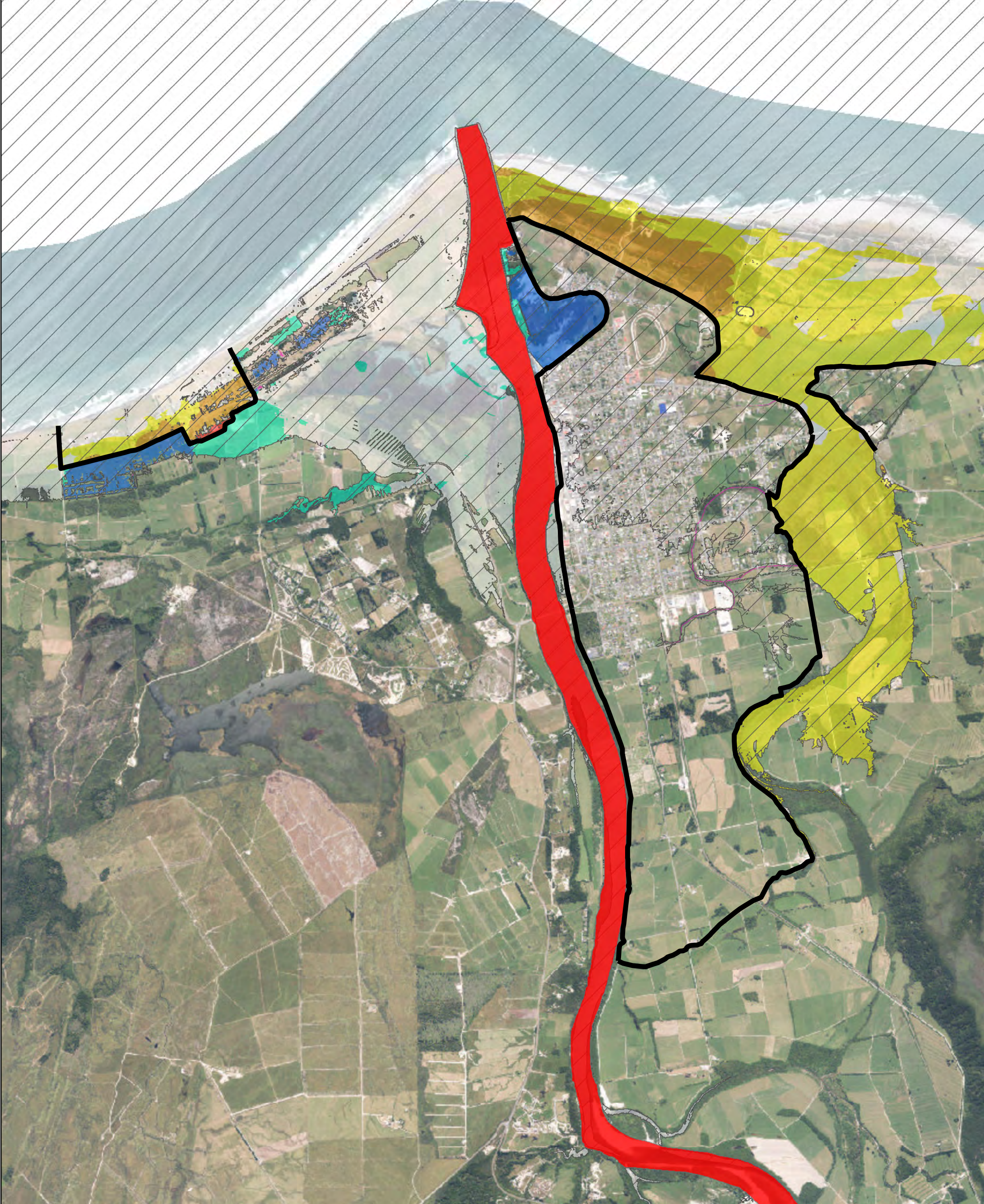
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 1 - 100yr ARI Coastal storm**  
**Extensive ring bank including**  
**Carter's beach and Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/04/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

**PROJECT**  
Buller River Flood Modelling

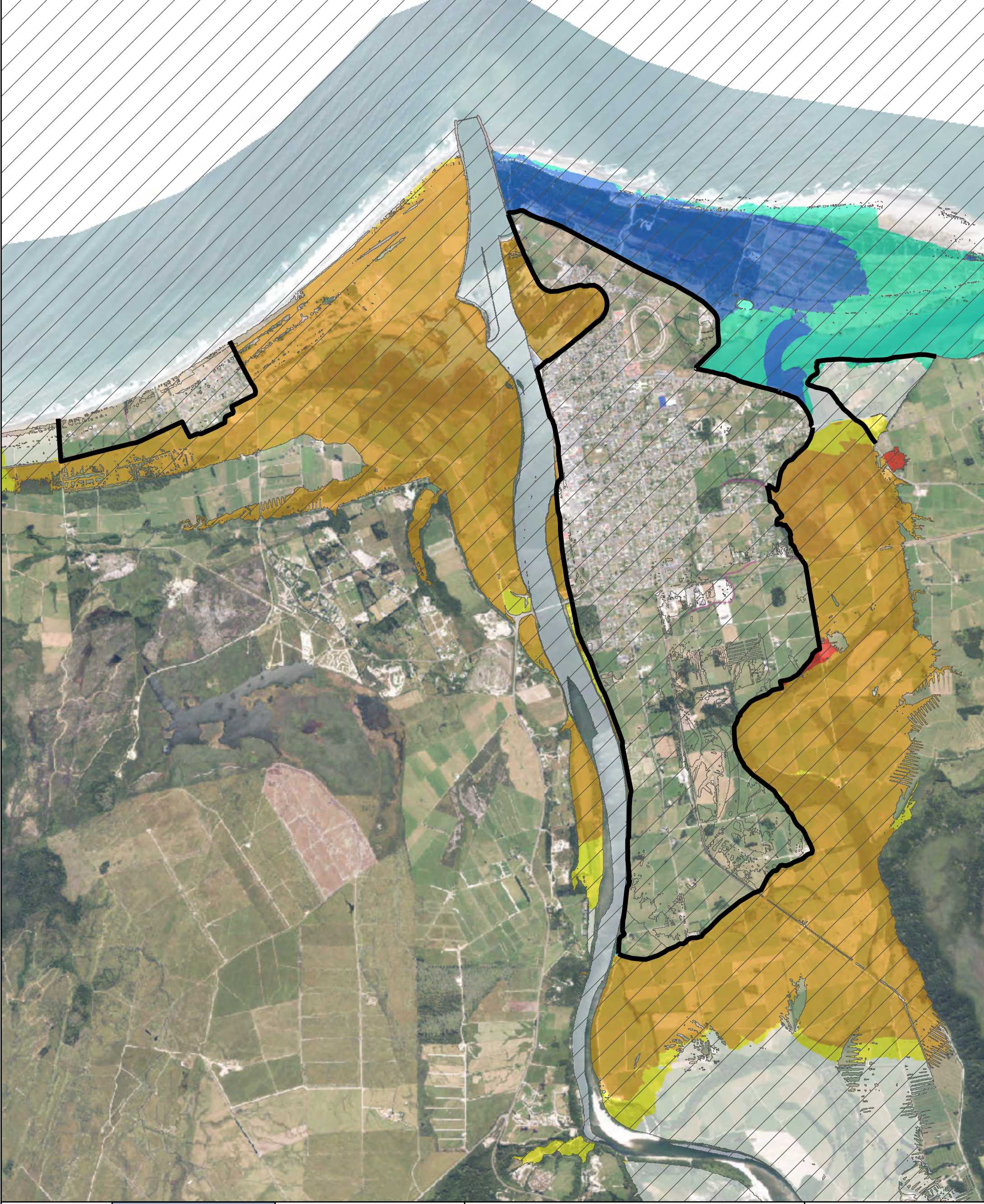
**DEPTH DIFFERENCE MAP**  
OPTION 1 - 100yr ARI RCP6 Coastal storm  
Extensive ring bank including  
Carter's beach and Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/04/2022		

**Model Information**  
Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stop bank
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

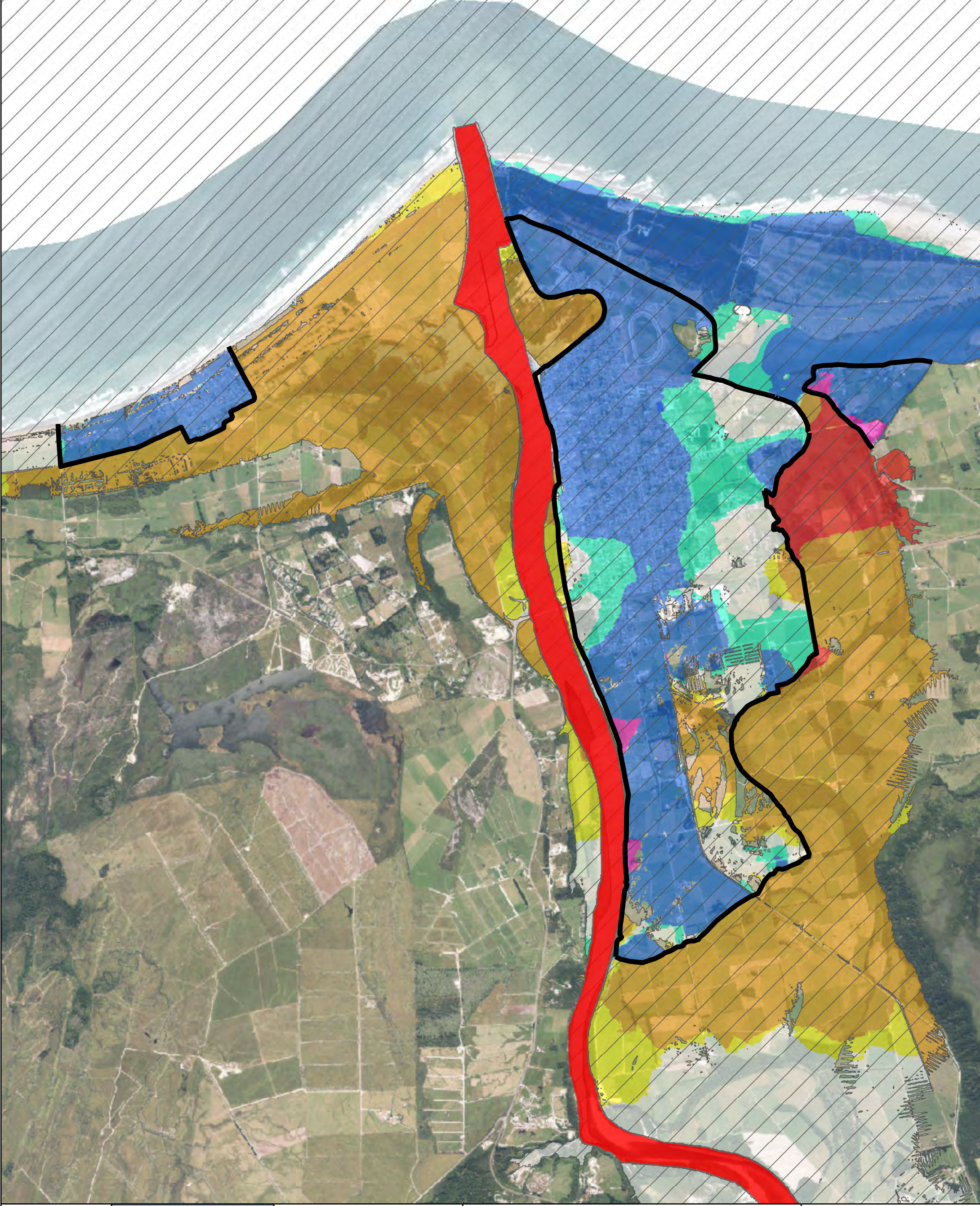
PROJECT  
**Buller River Flood Modelling**

DEPTH DIFFERENCE MAP  
**OPTION 1 - 100yr ARI RCP 6**  
**Extensive ring bank including Carter's beach and Snodgrass banks with 20yr Crest Level**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	26/04/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

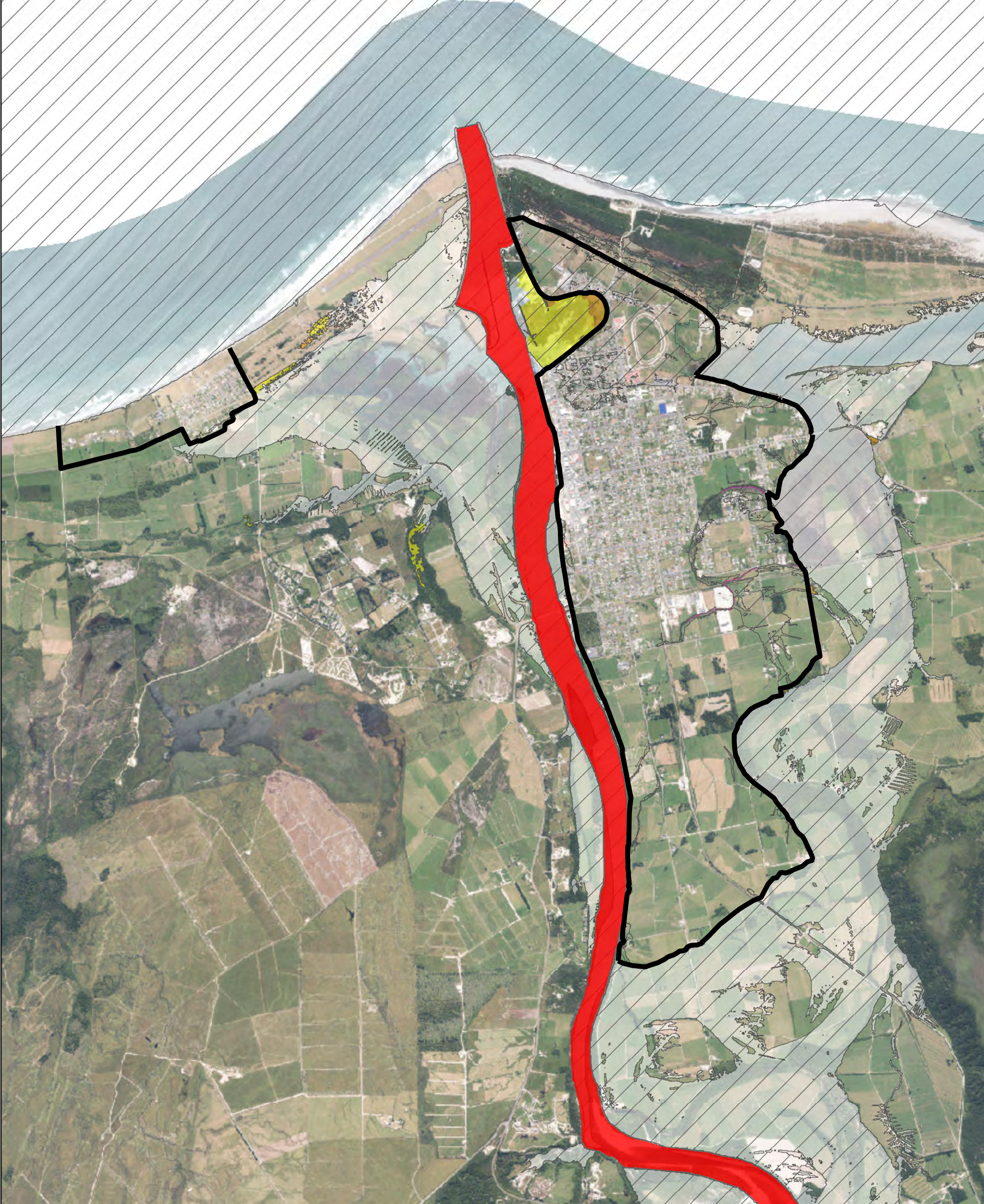
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 1 - 100yr ARI RCP 8.5 Overdesign**  
**Extensive ring bank including**  
**Carter's beach and Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	14/04/2022		

**Model Information**  
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**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

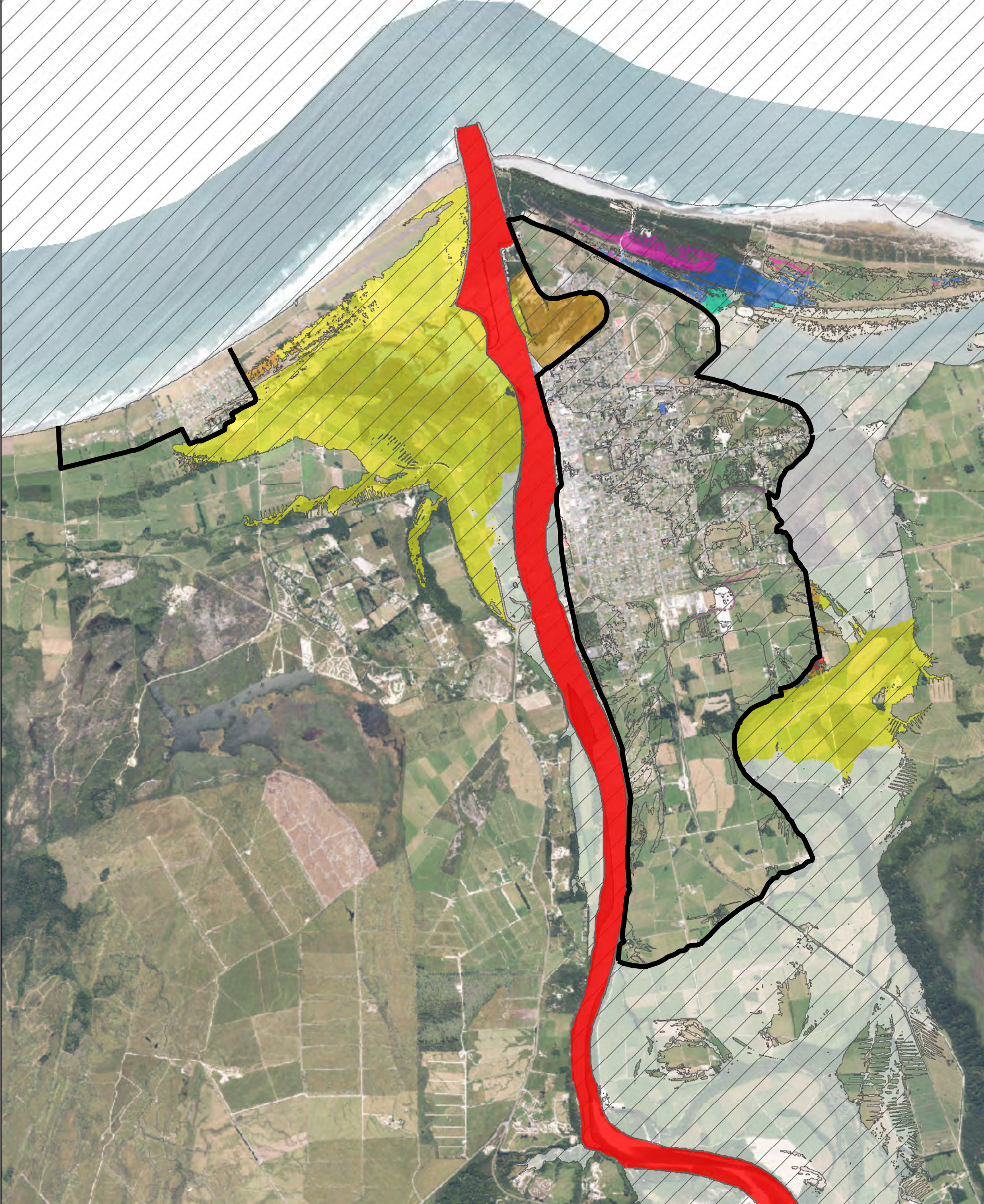
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 2 - 20yr ARI**  
**Extensive ring bank including**  
**Carter's beach excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
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**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

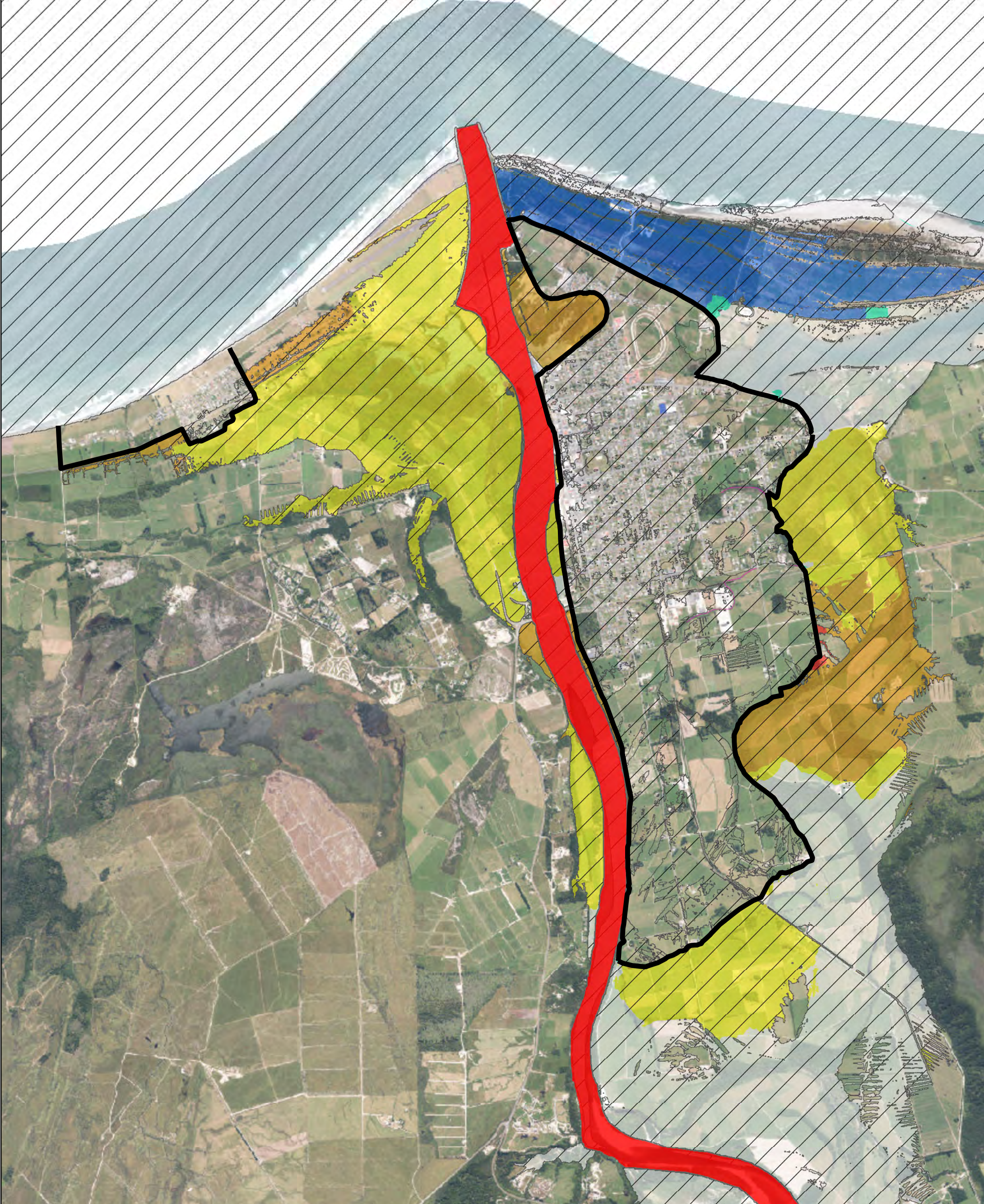
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 2 - 50yr ARI**  
**Extensive ring bank including**  
**Carter's beach excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

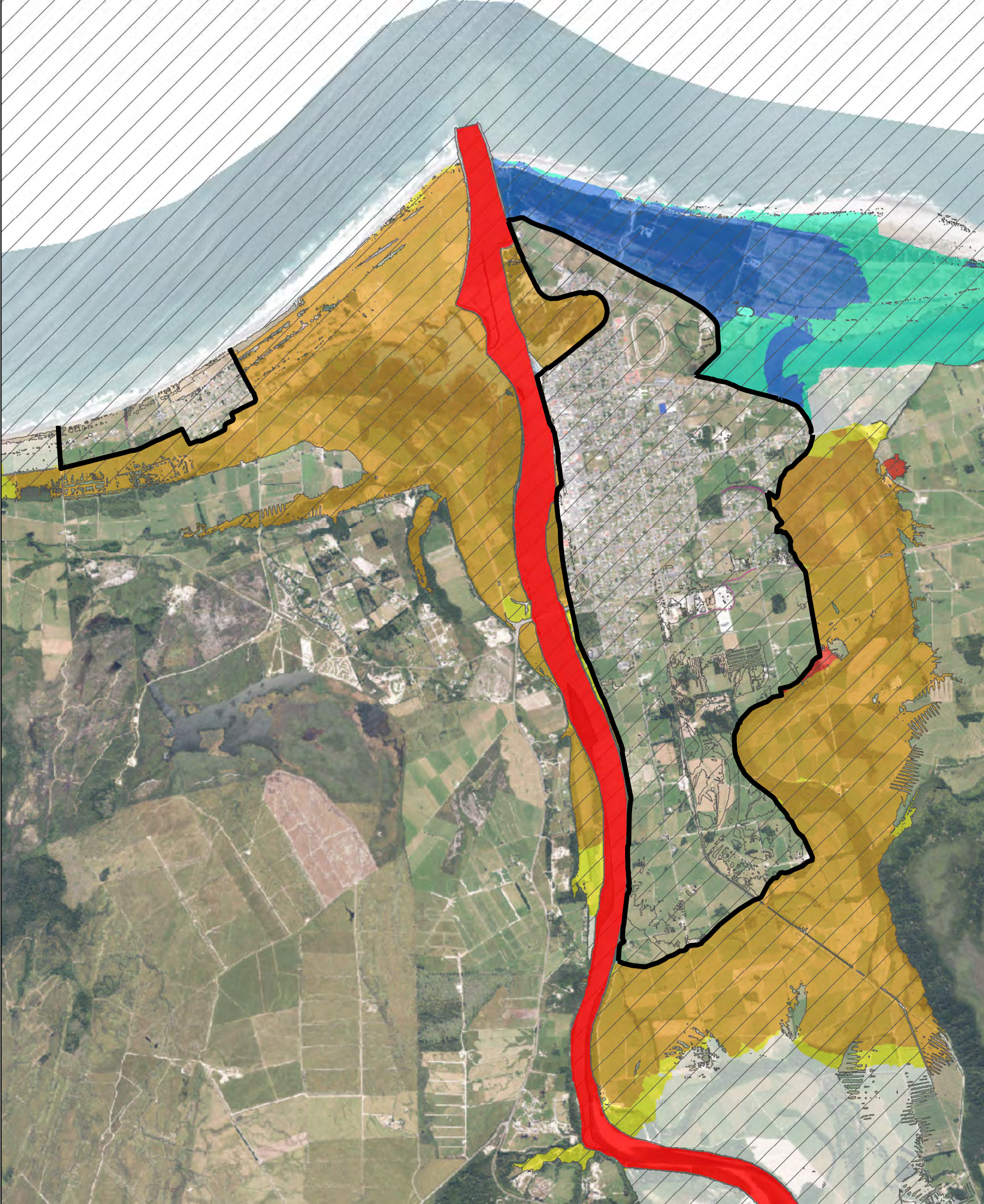
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 2 - 100yr ARI**  
**Extensive ring bank including**  
**Carter's beach excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
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**Legend**

- Stopbank
- 1D River channel
- Flood Extent
- Change in Peak Depth (m)**
- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

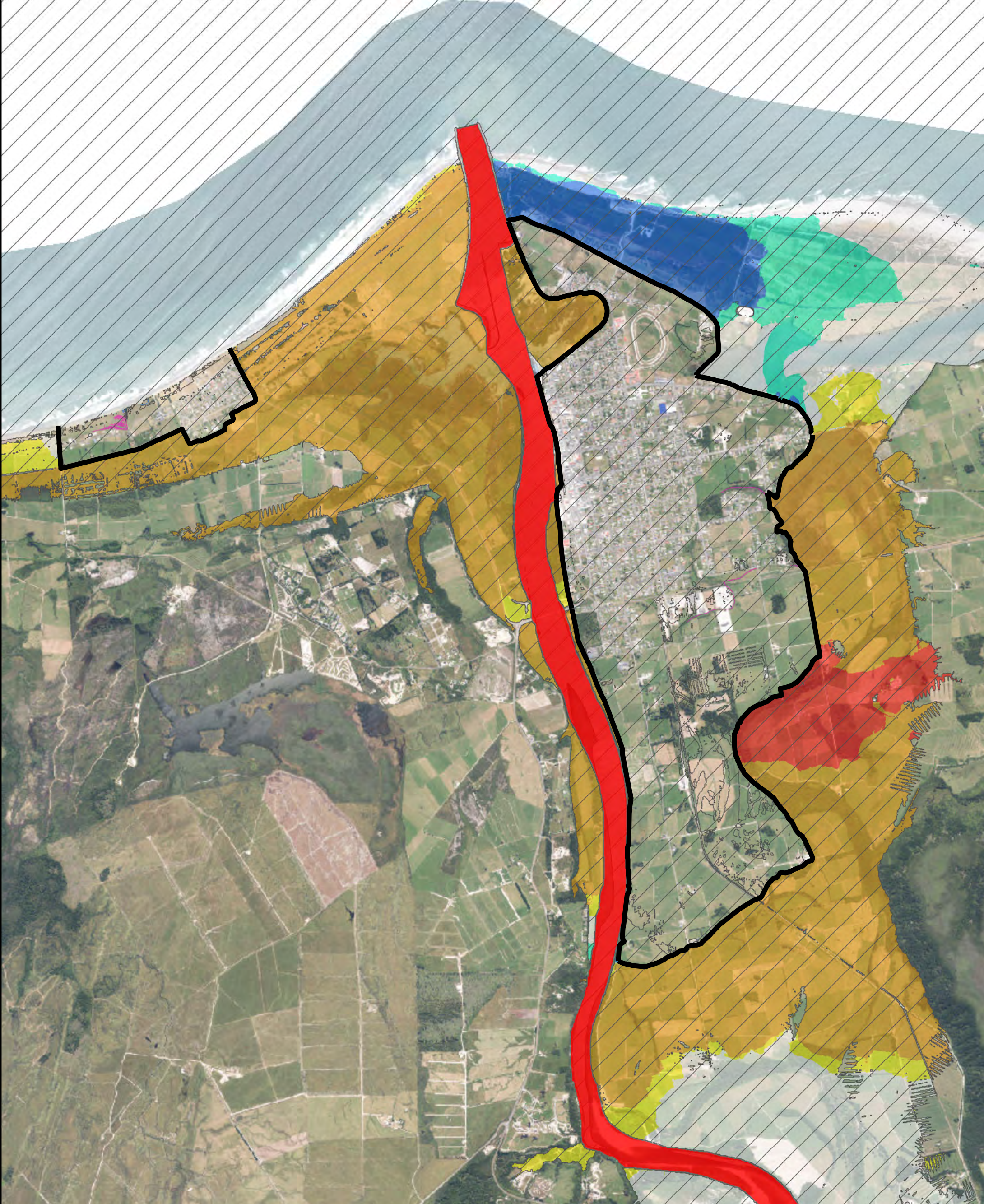
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 2 - 100yr ARI RCP6**  
**Extensive ring bank including**  
**Carter's beach excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	21/03/2022		

**Model Information**  
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- Legend**
- Stop bank
  - 1D River channel
  - Base Extent
  - Change in Peak depth (m)**
  - <-0.5
  - 0.5 to -0.1
  - 0.1 to -0.05
  - 0.05 to 0.05
  - 0.05 to 0.1
  - 0.1 to 0.5
  - >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

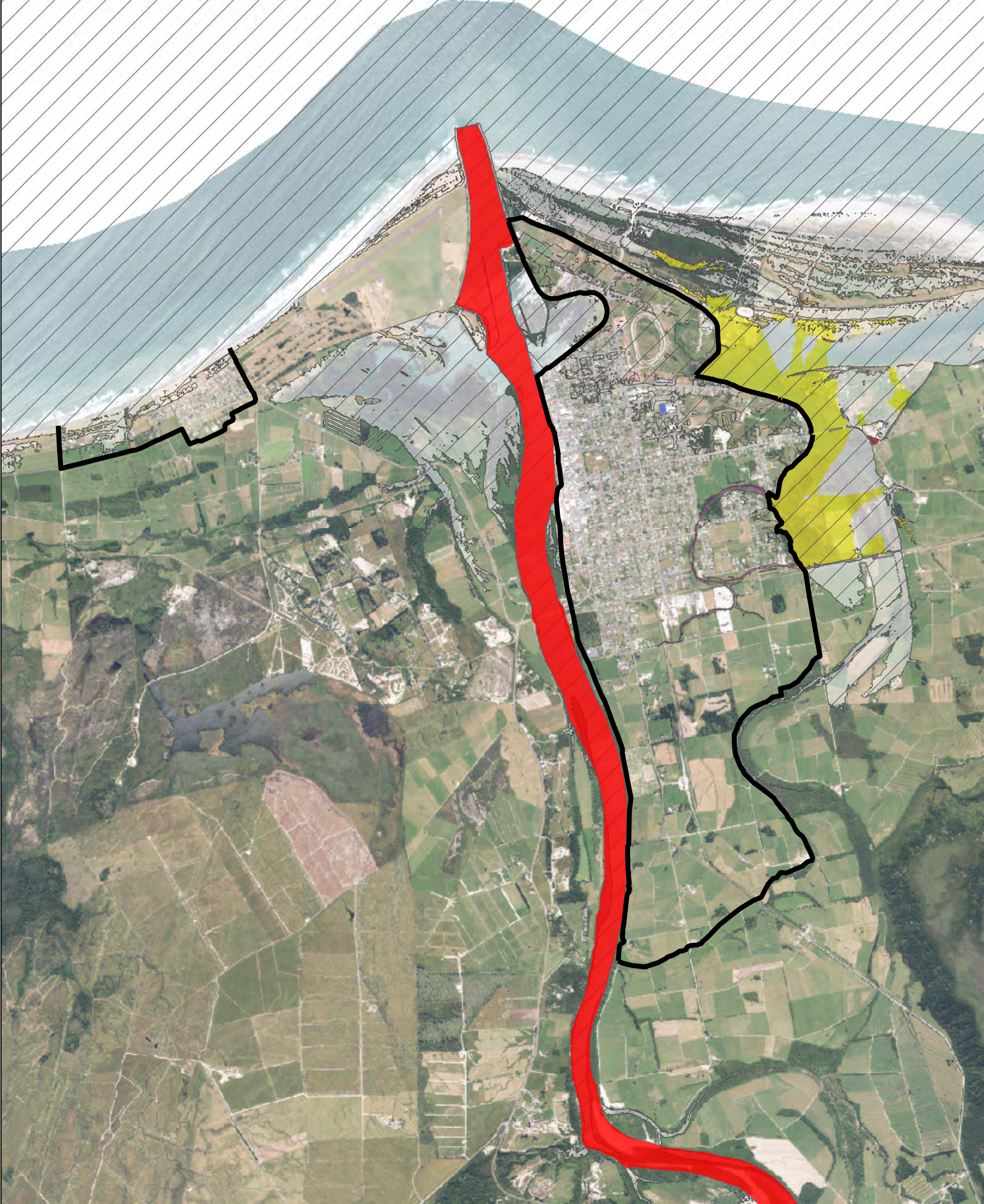
A3 SCALE **1:30,000**

MAP (1 of 1)

<b>PROJECT</b> Buller River Flood Modelling					
<b>DEPTH DIFFERENCE MAP</b> OPTION 2 - 100yr ARI RCP 8.5 Extensive ring bank including Carter's beach excluding Snodgrass banks					
REVISION	01	Created By	BS	Reviewed By	MG
AUTHOR	Matthew Gardner		DATE	19/04/2022	

**Model Information**  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**

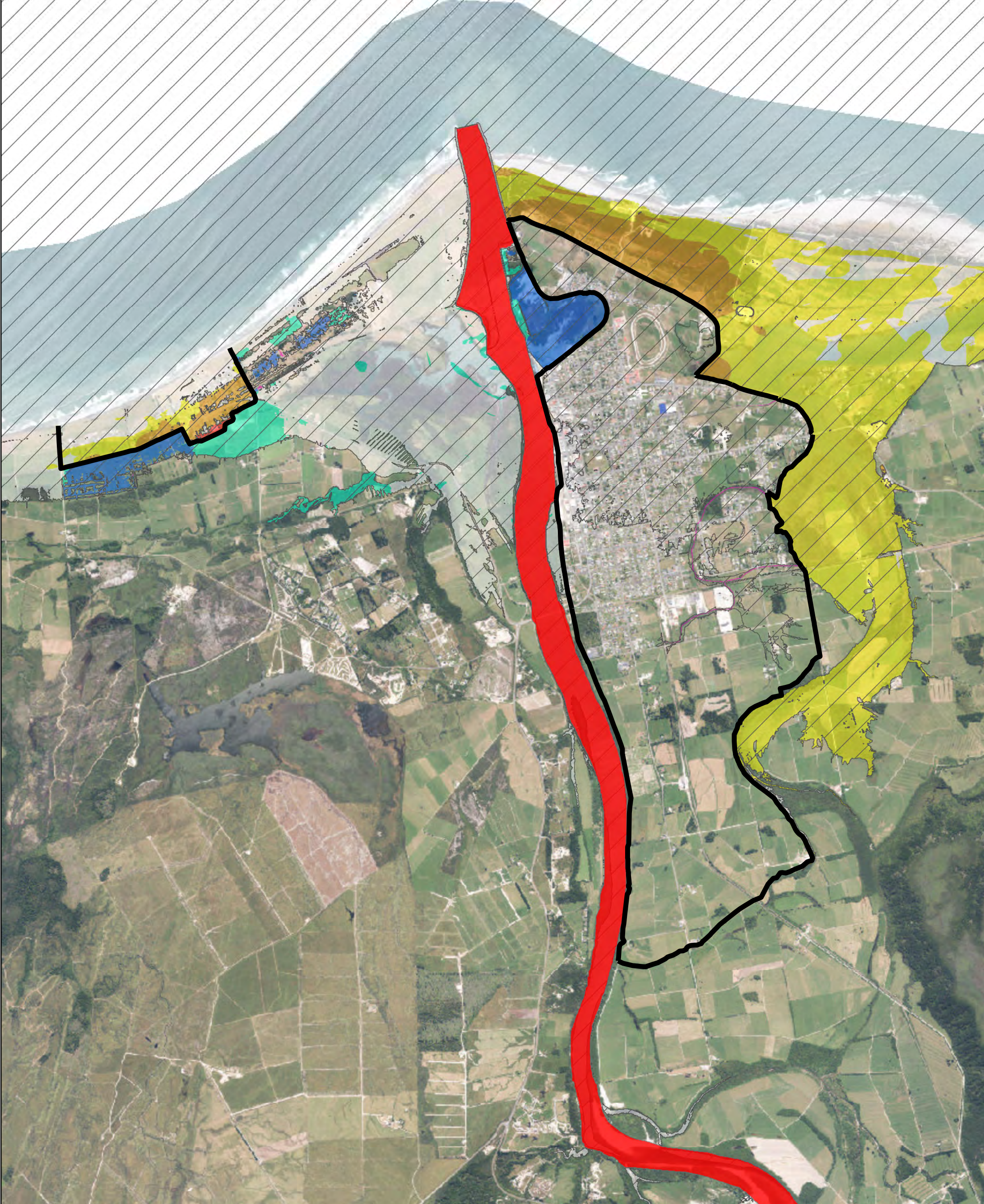
**OPTION 2 - 100yr ARI Coastal storm**  
**Extensive ring bank including**  
**Carter's beach excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/04/2022		

**Model Information**  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

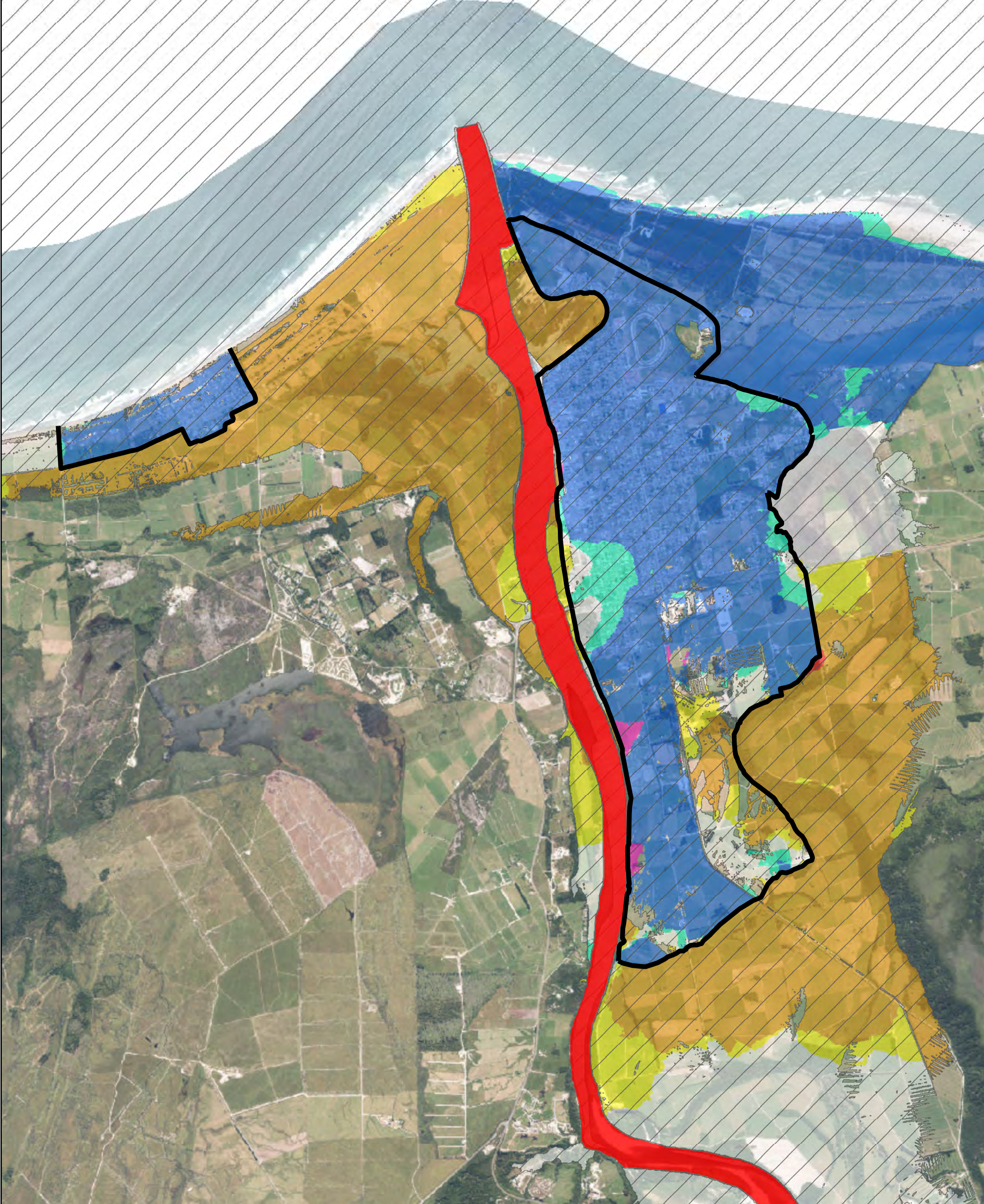
**PROJECT**  
Buller River Flood Modelling

**DEPTH DIFFERENCE MAP**  
OPTION 2 - 100yr ARI RCP6 Coastal storm  
Extensive ring bank including  
Carter's beach excluding Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/04/2022		

**Model Information**  
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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

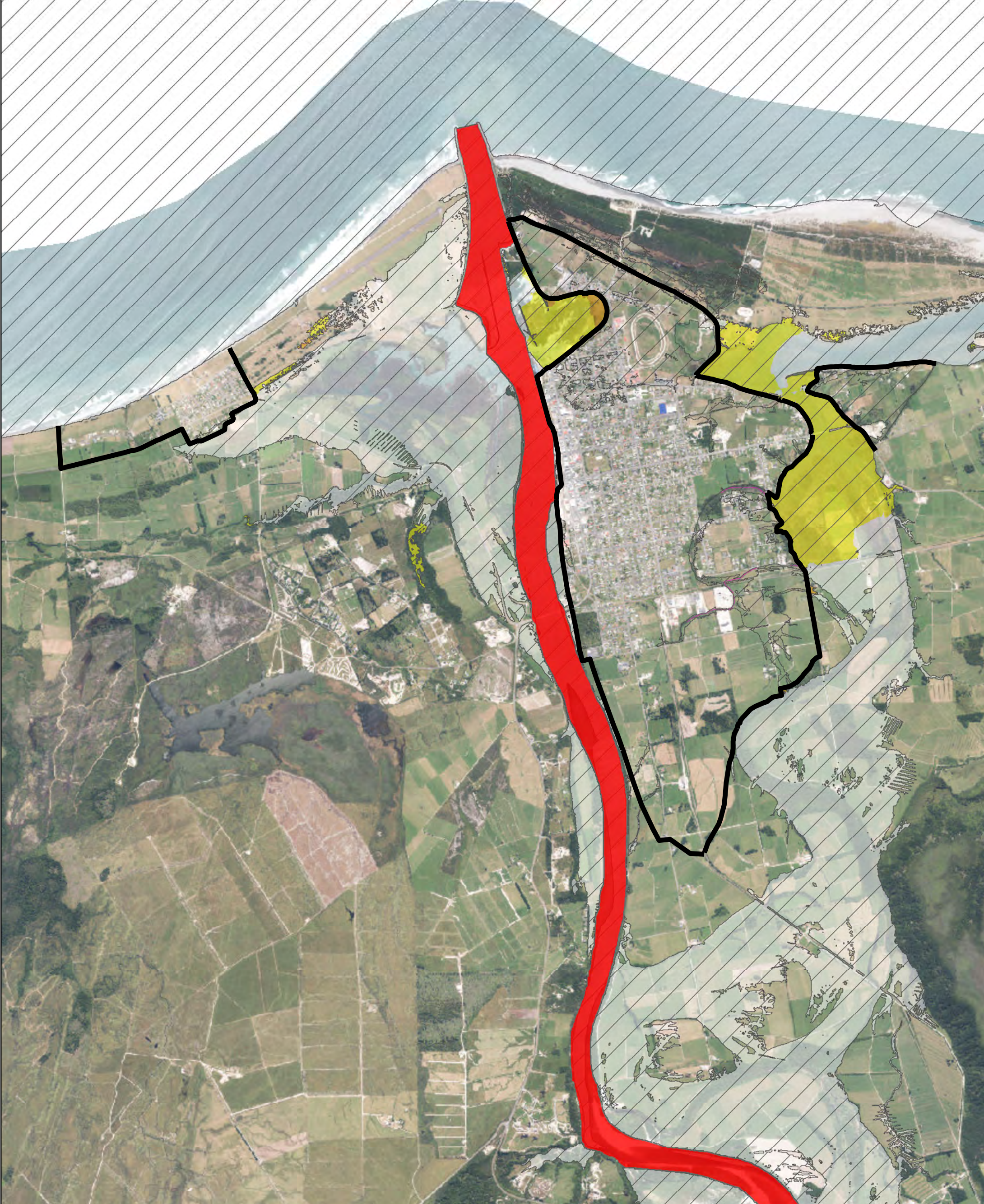
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 2 - 100yr ARI RCP 8.5 Overdesign**  
**Extensive ring bank including**  
**Carter's beach excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	14/04/2022		

**Model Information**  
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**Legend**

- Stop bank
- 1D River channel
- Flood Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

PROJECT  
**Buller River Flood Modelling**

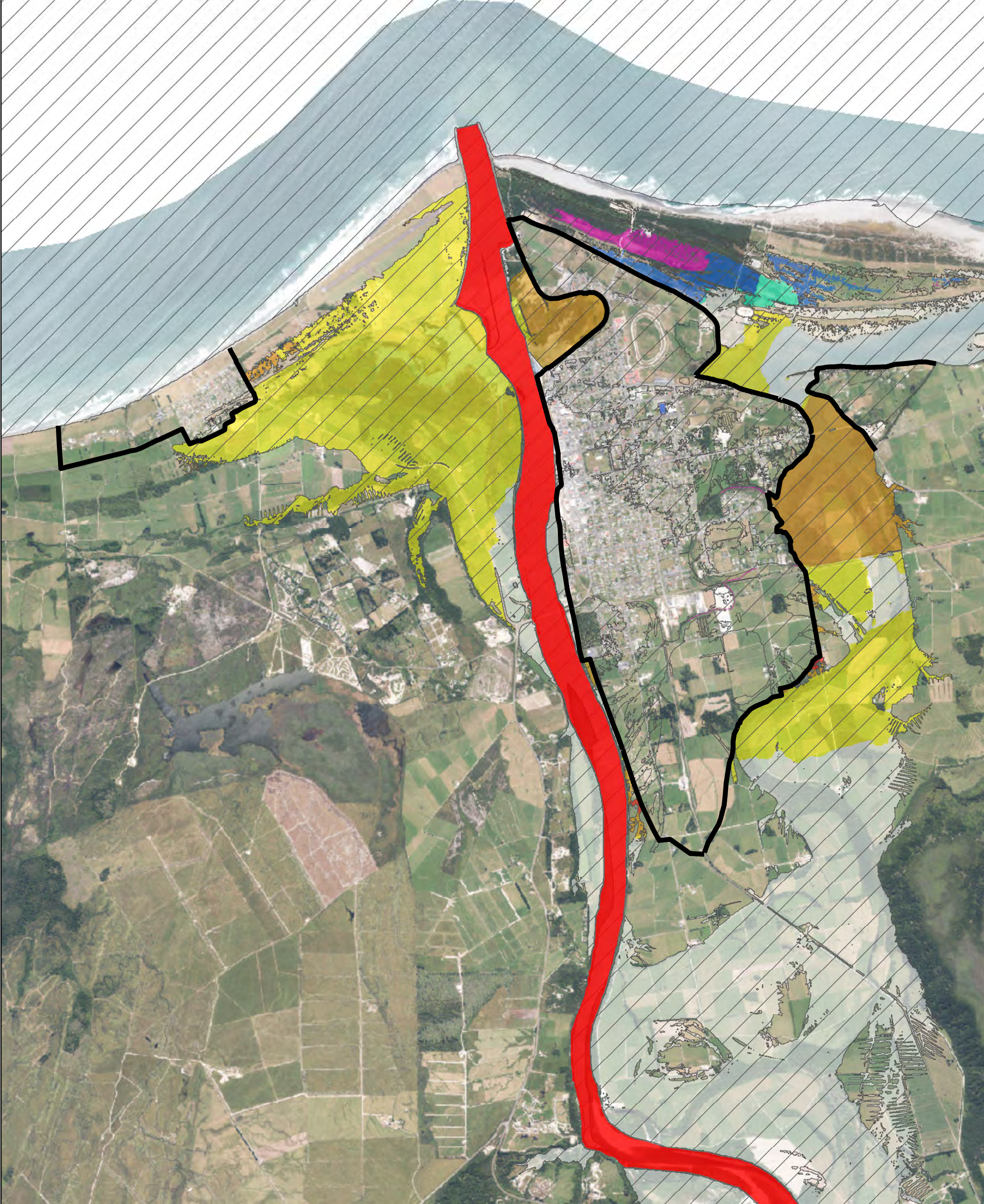
DEPTH DIFFERENCE MAP  
OPTION 3 - 20yr ARI

Initial ring bank including  
**Carter's beach and Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE	29/03/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stop bank
- 1D River channel
- Flood Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

PROJECT  
**Buller River Flood Modelling**

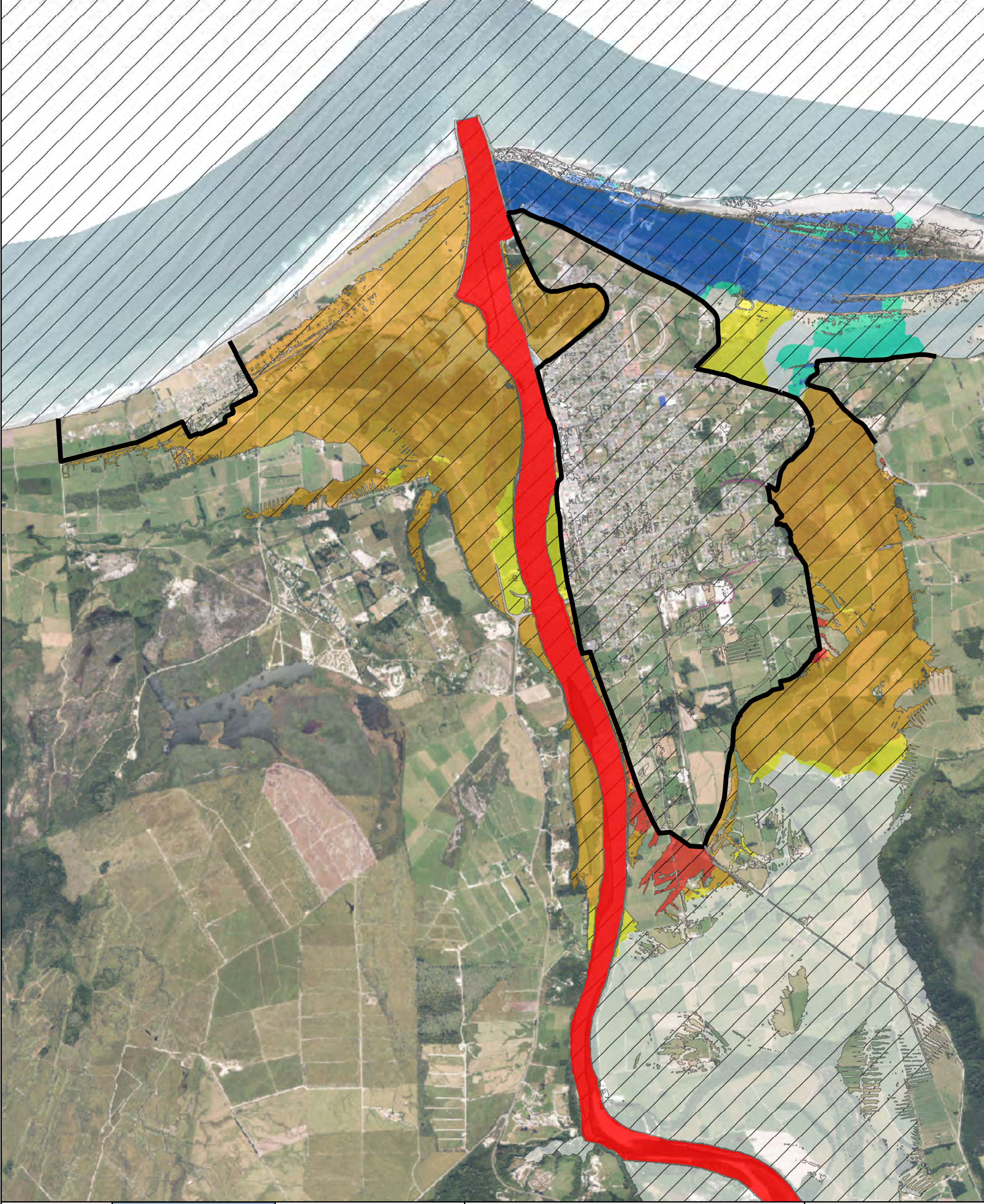
DEPTH DIFFERENCE MAP  
OPTION 3 - 50yr ARI

Initial ring bank including  
**Carter's beach and Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
Vertical Datum: NZVD2016  
Model Completed: March 2022

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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

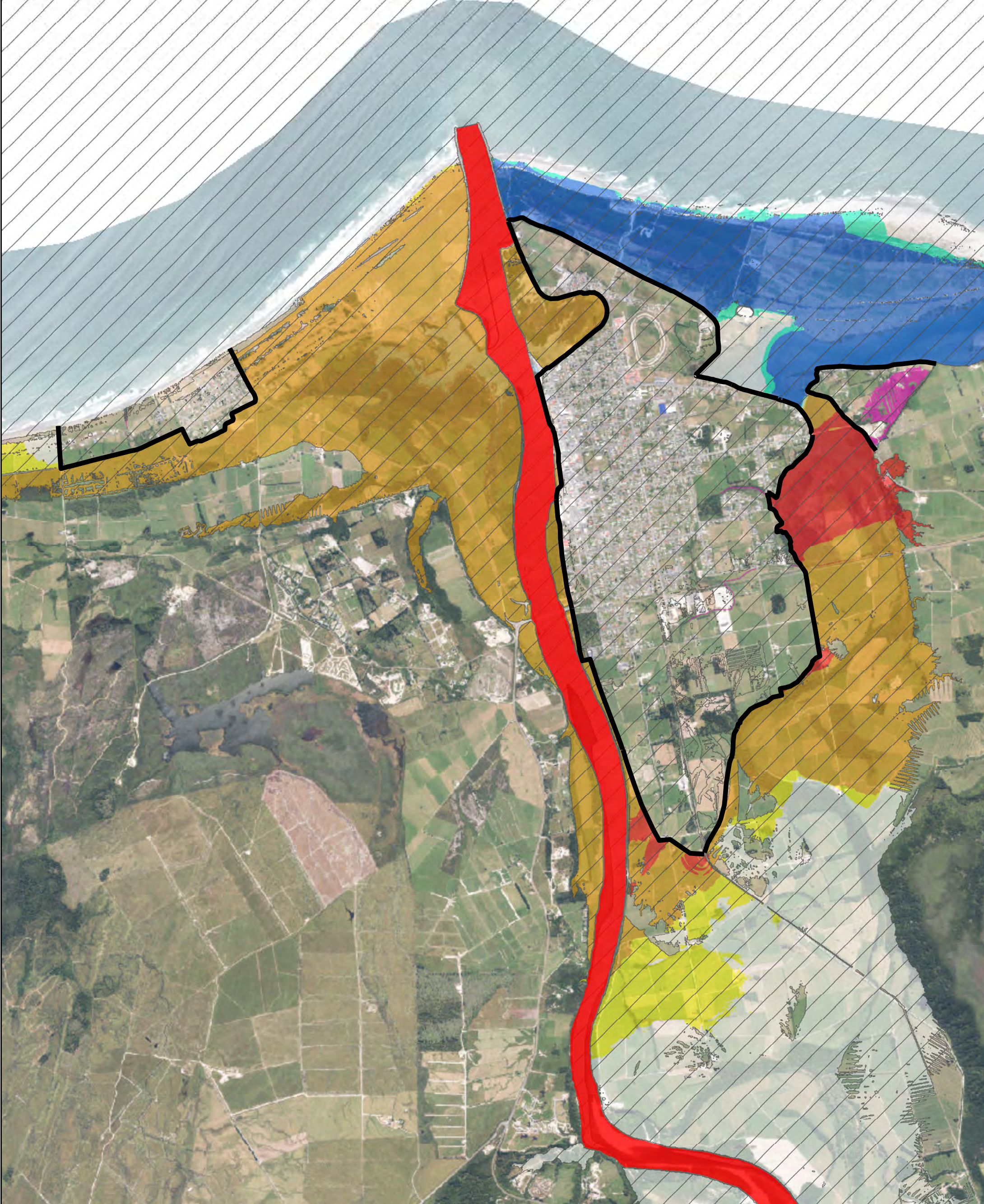
PROJECT  
**Buller River Flood Modelling**

DEPTH DIFFERENCE MAP  
OPTION 3 - 100yr ARI  
Initial ring bank including  
Carter's beach and Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	31/03/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
Vertical Datum: NZVD2016  
Model Completed: March 2022

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**Legend**

- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

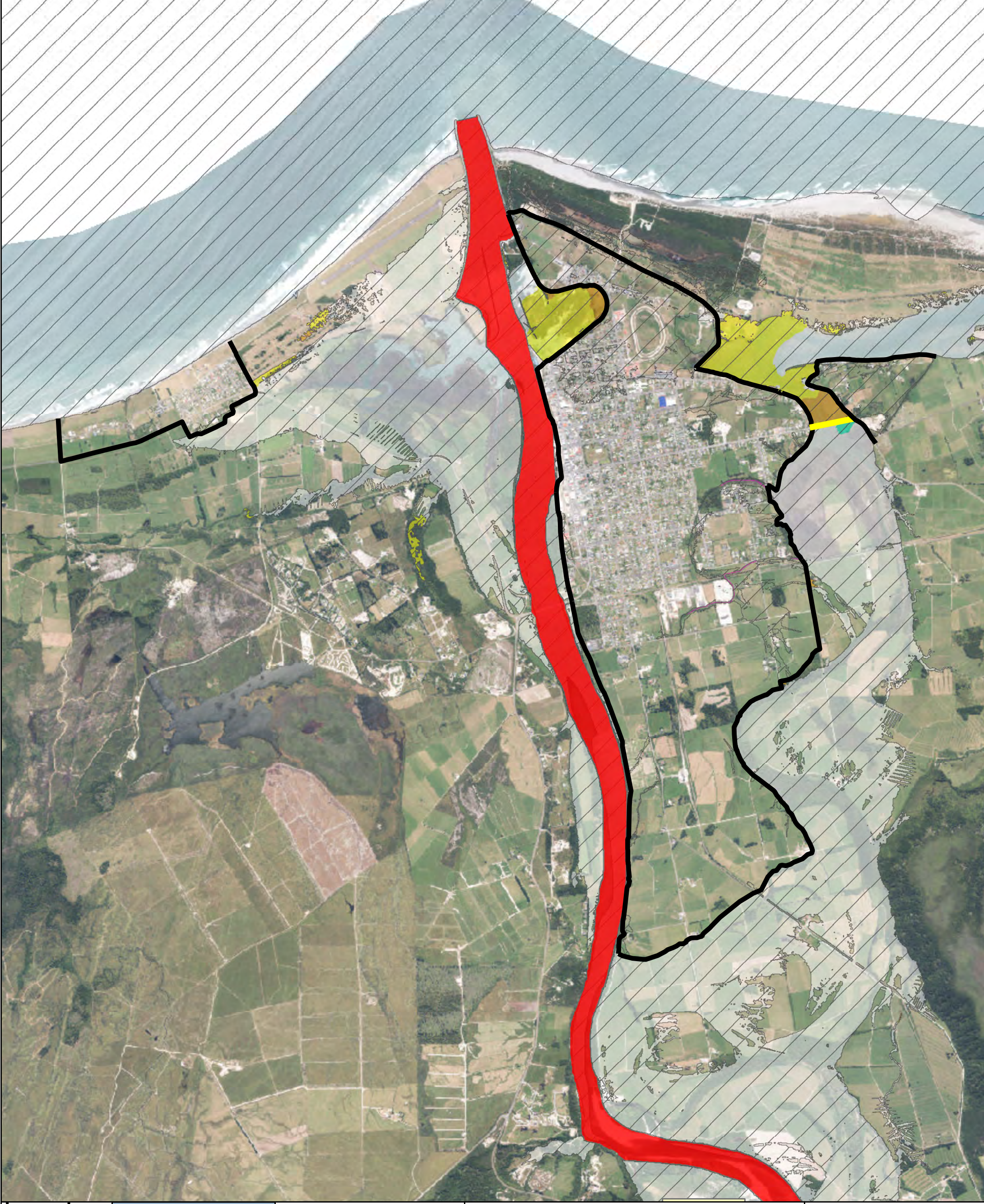
**PROJECT**  
Buller River Flood Modelling

**DEPTH DIFFERENCE MAP**  
OPTION 3 - 100yr ARI RCP6  
Initial ring bank including  
Carter's beach and Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	31/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
 Model Completed: March 2022

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**Legend**

- Orowaiti Causeway
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

**PROJECT**  
**Buller River Flood Modelling**

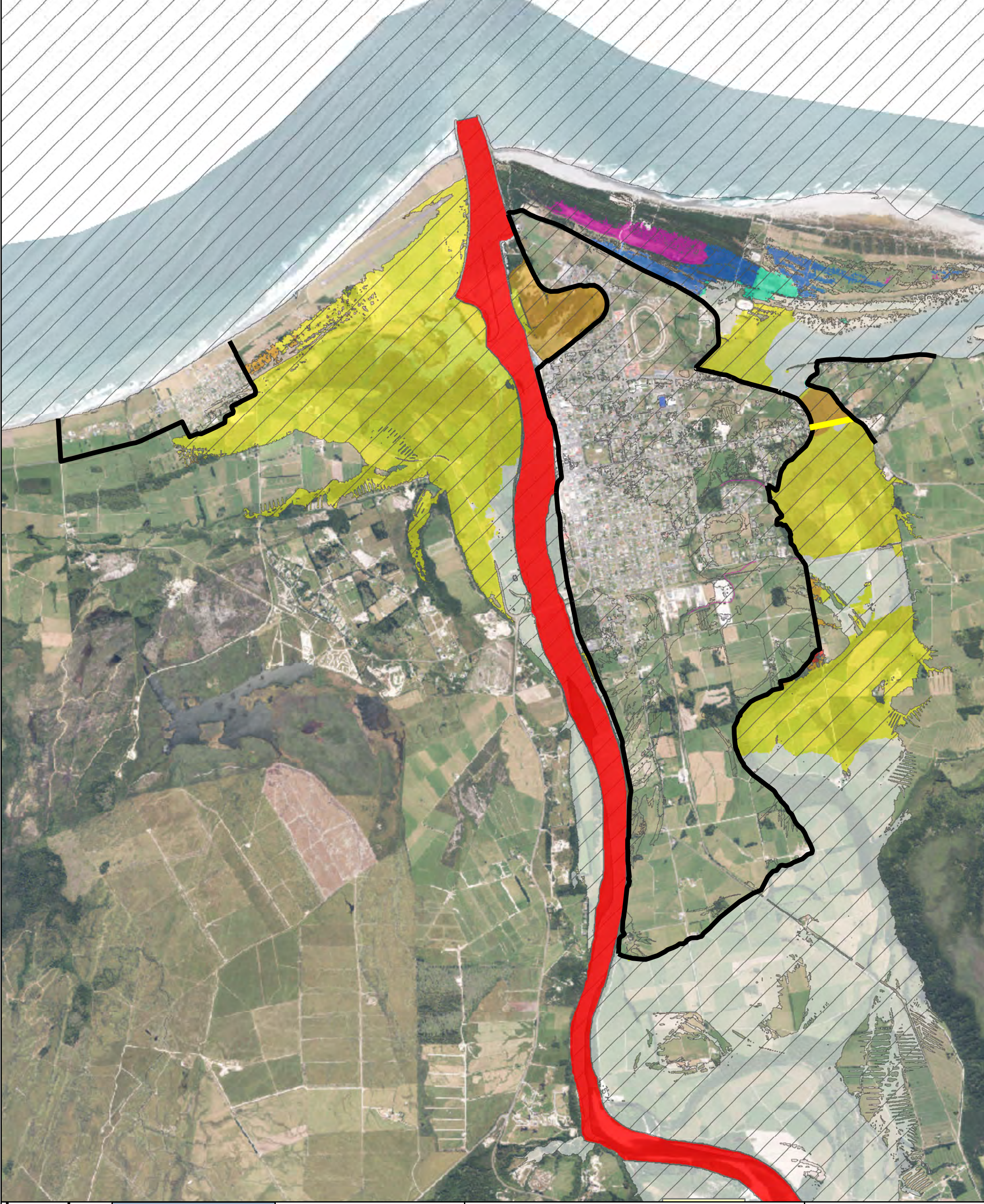
**DEPTH DEPTH MAP**

**OPTION 4 - 20yr ARI**  
**Extensive ring bank including Carters and Snodgrass Banks Remove Orowaiti Causeway**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
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**Legend**

- Orowaiti Causeway
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**

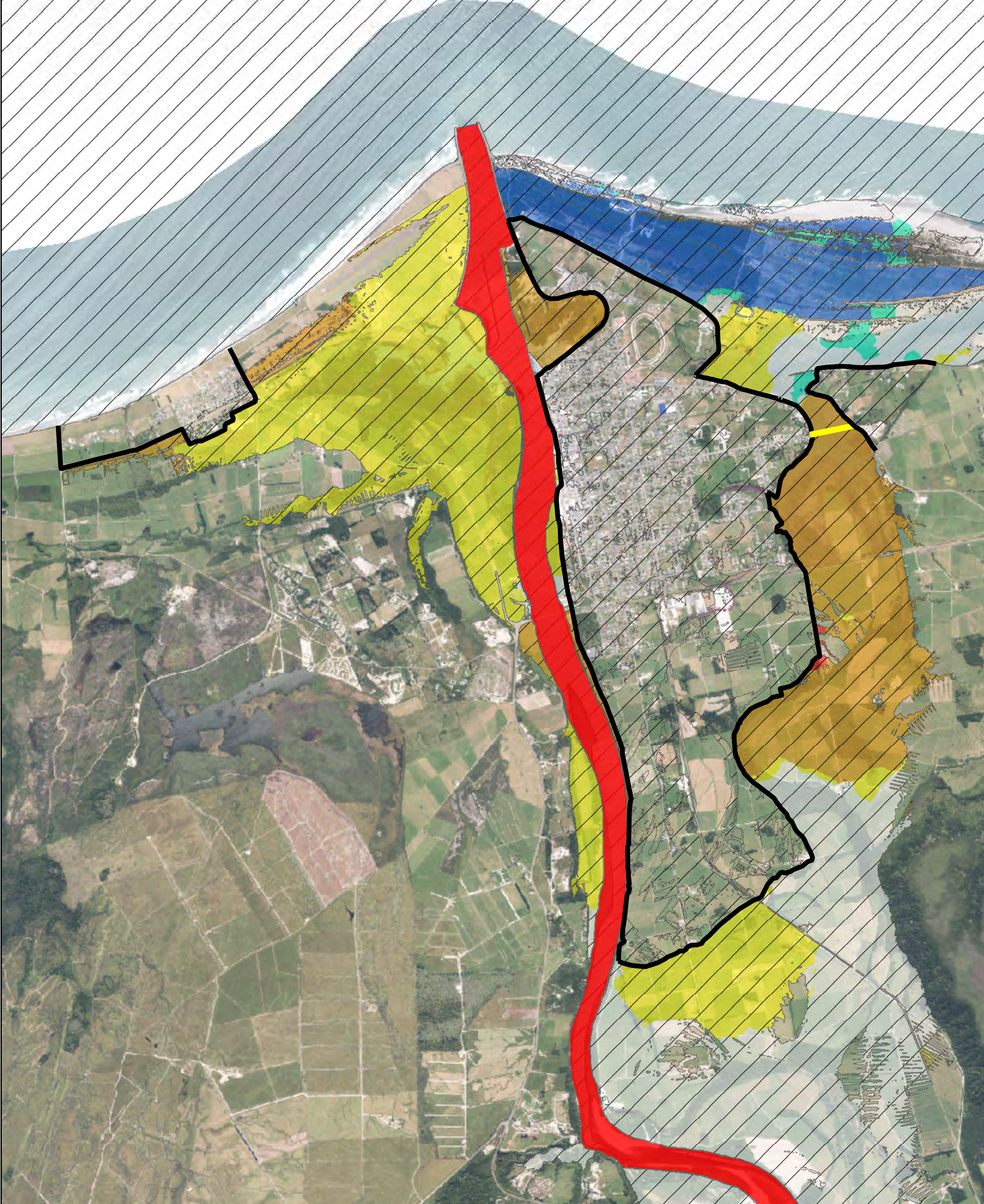
**OPTION 4 - 50yr ARI**  
**Extensive ring bank including Carters and Snodgrass Banks Remove Orowaiti Causeway**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Orowaiti Causeway
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

**PROJECT**  
**Buller River Flood Modelling**

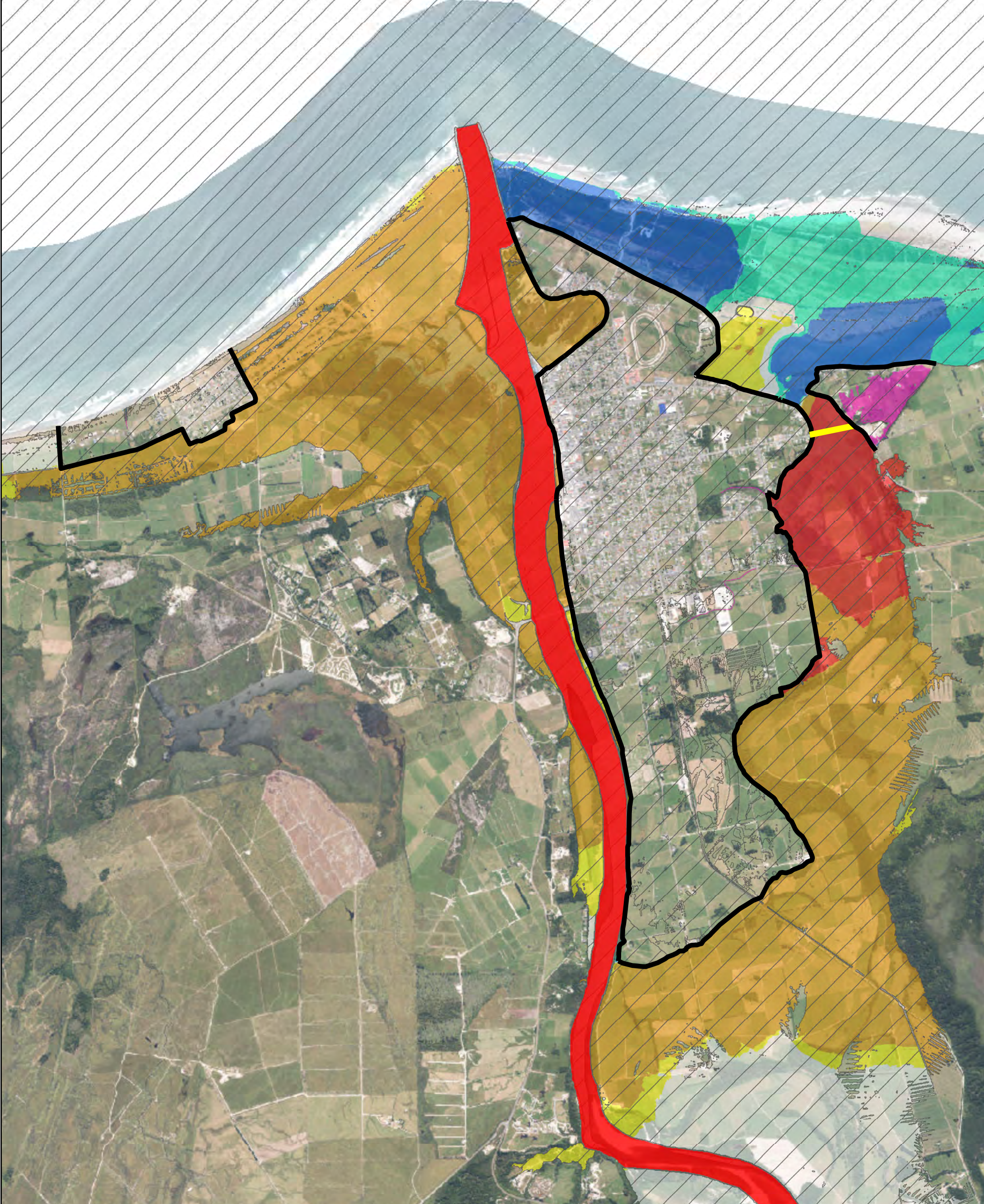
**DEPTH DIFFERENCE MAP**

**OPTION 4 - 100yr ARI**  
**Extensive ring bank including Carters and Snodgrass Banks Remove Orowaiti Causeway**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

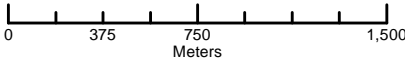
- Orowaiti Causeway
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5






A3 SCALE **1:30,000**

MAP (1 of 1)

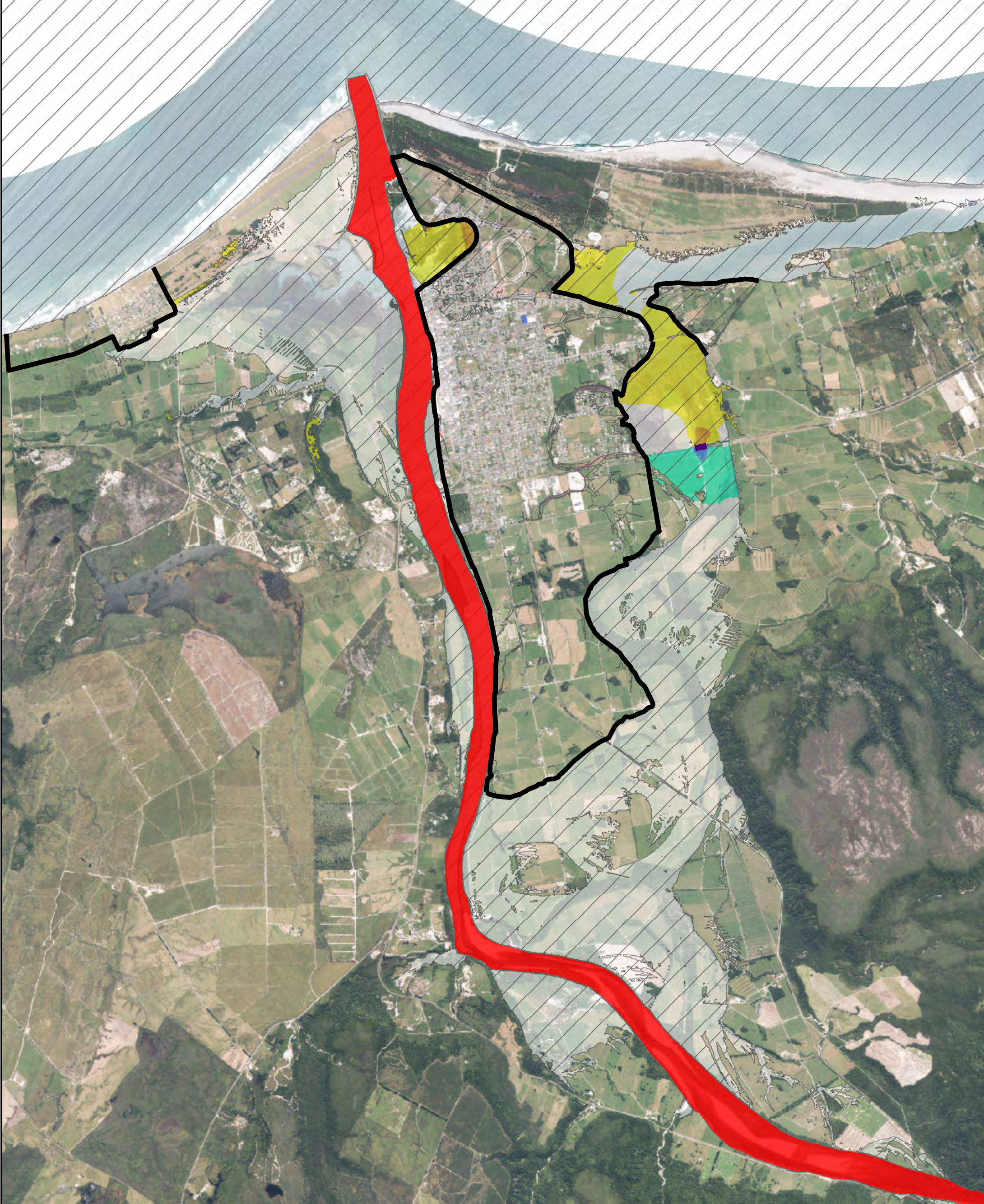
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 4 - 100yr ARI RCP6**  
**Extensive ring bank including Carters and Snodgrass Banks Remove Orowaiti Causeway**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE		29/03/2022	

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stephen Rd Railways
- Stopbank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 437.5 875 1,750  
Meters

A3 SCALE 1:35,000

MAP (1 of 1)

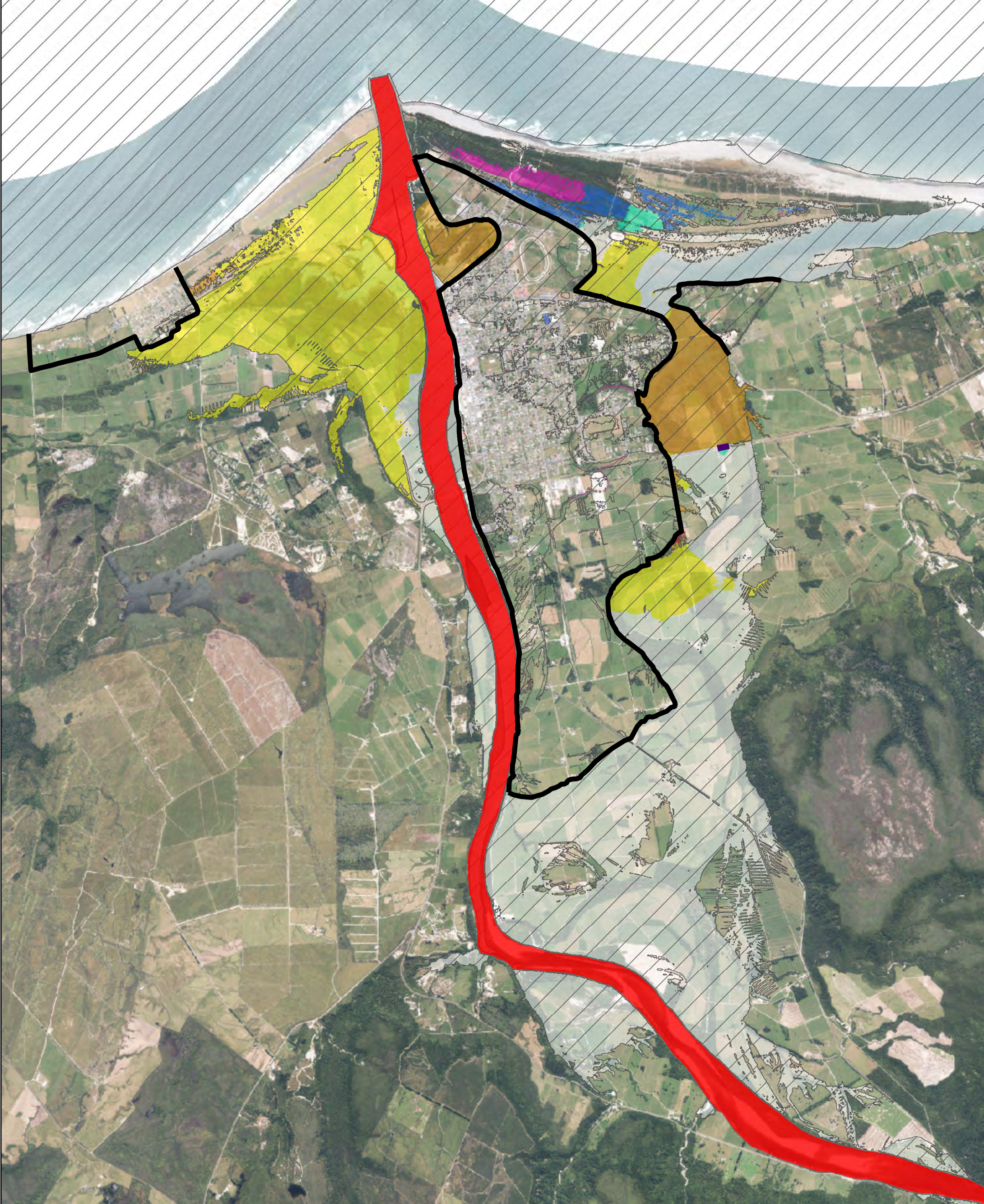
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 5 - 20yr ARI**  
**Extensive ring bank including Carters and Snodgrass Stephens Rd Railway Opening**

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

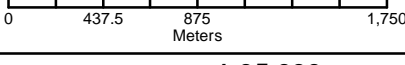
- Stephen Rd Railways
- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <math>< -0.5 </math>
- <math>-0.5 </math> to <math>-0.1 </math>
- <math>-0.1 </math> to <math>-0.05 </math>
- <math>-0.05 </math> to <math>0.05 </math>
- <math>0.05 </math> to <math>0.1 </math>
- >0.5






A3 SCALE **1:35,000**

MAP (1 of 1)

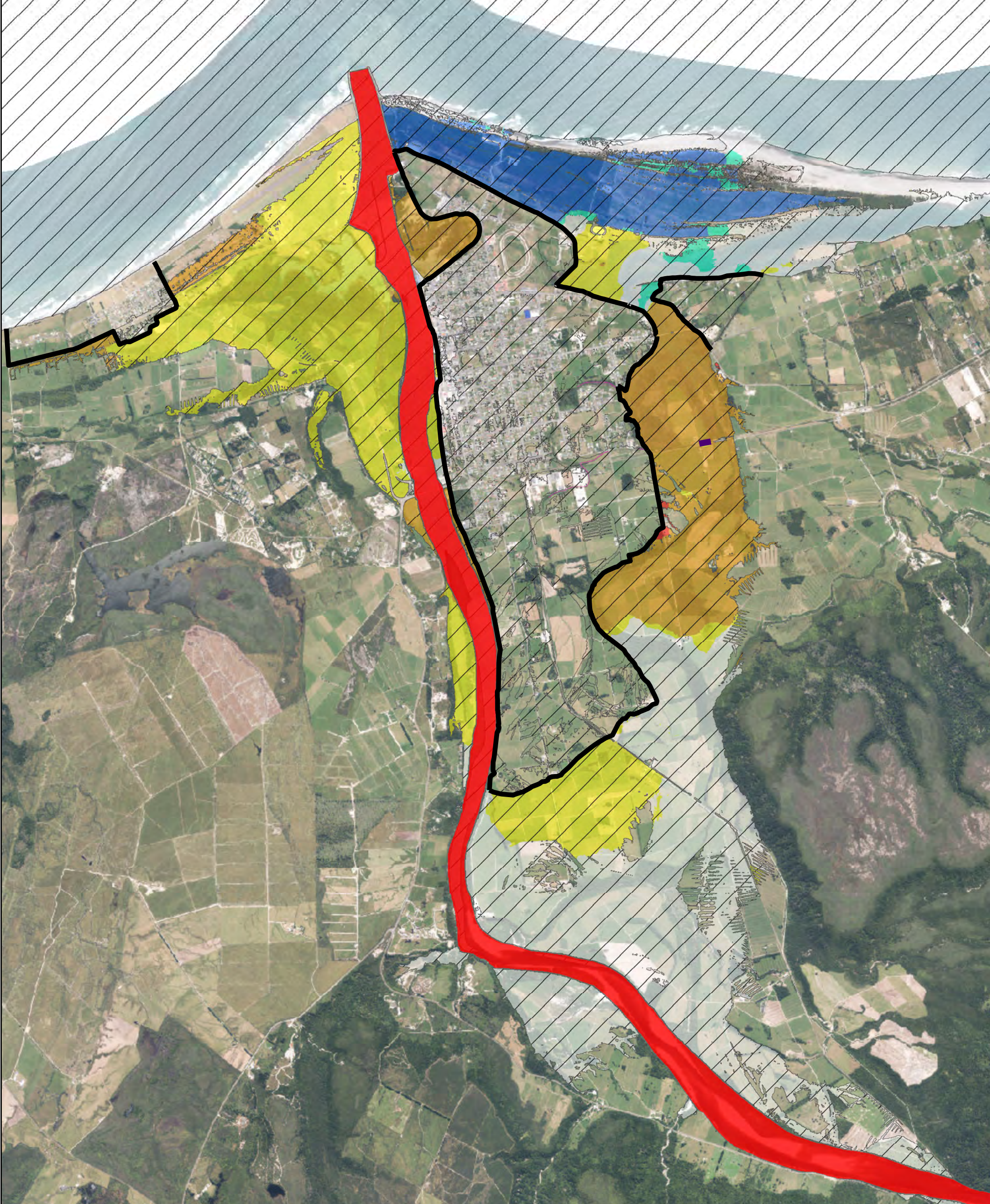
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 5 - 50yr ARI**  
**Extensive ring bank including Carters and Snodgrass - Stephens Rd Railway Opening**

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner			DATE	12/04/2022	

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
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**Legend**

- Stephen Rd Railways
- Stopbank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 437.5 875 1,750  
Meters

A3 SCALE 1:35,000

MAP (1 of 1)

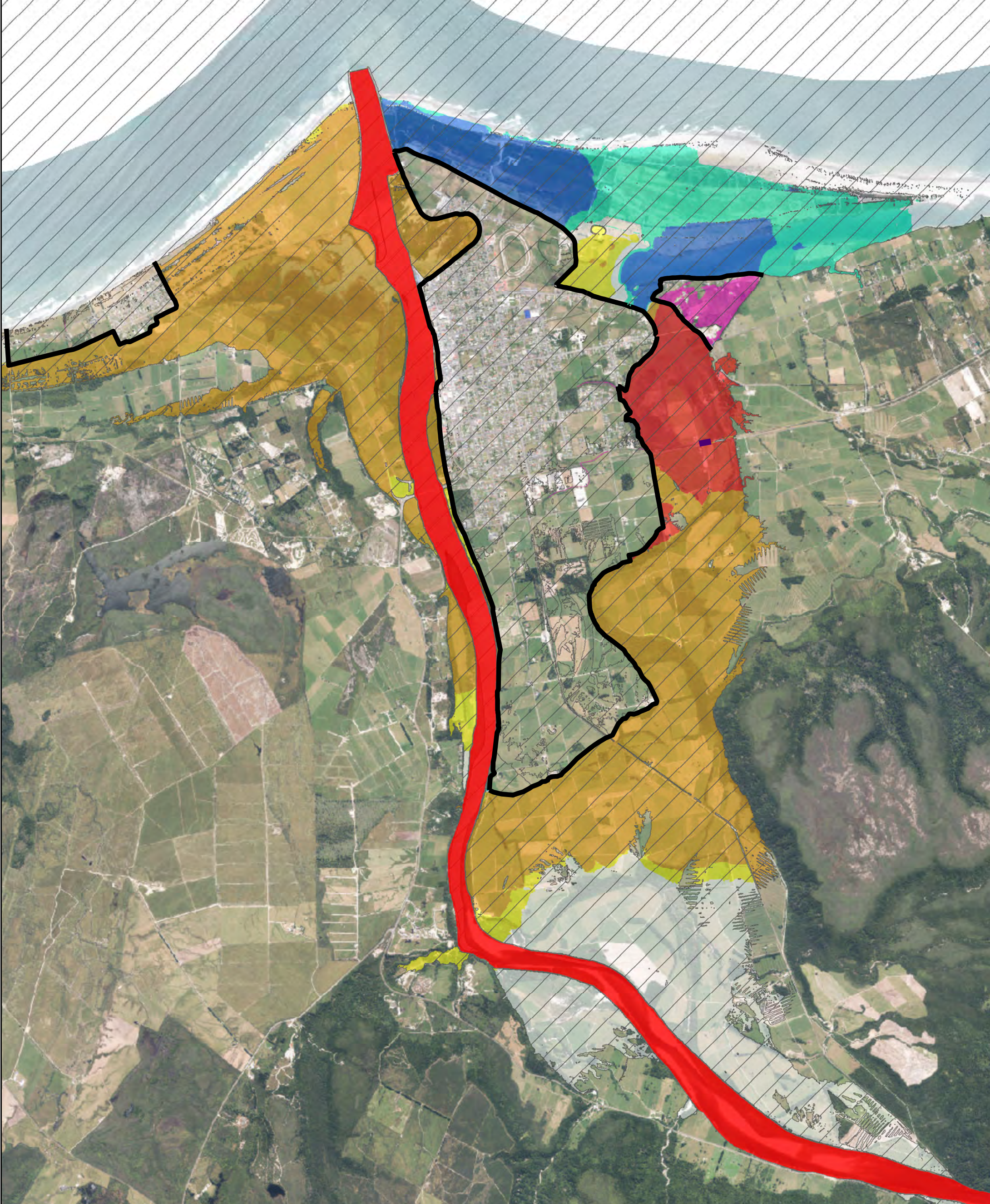
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 5 - 100yr ARI**  
**Extensive ring bank including Carters and Snodgrass Stephens Rd Railway Opening**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Stephen Rd Railways
- Stopbank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 437.5 875 1,750  
Meters

A3 SCALE 1:35,000

MAP (1 of 1)

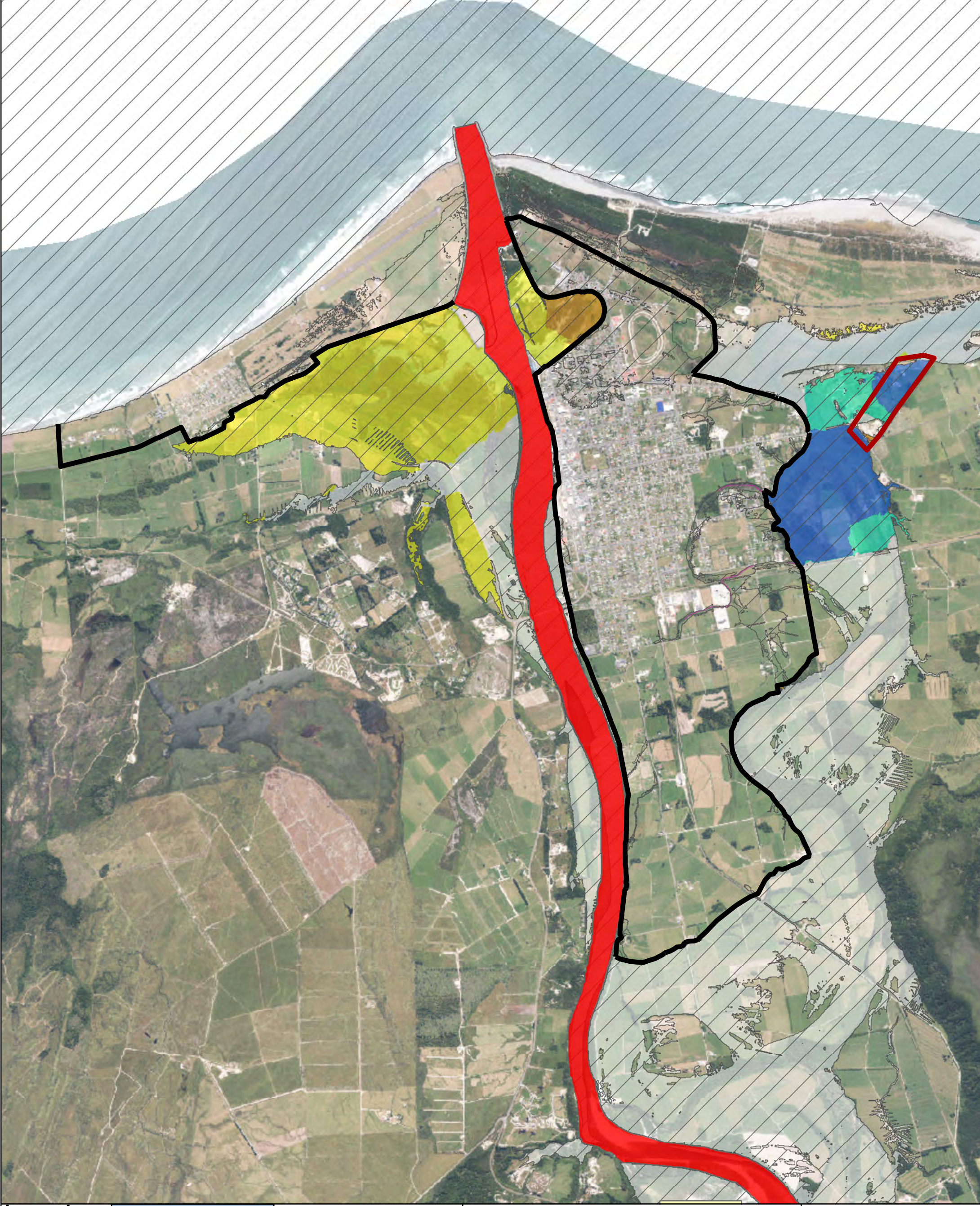
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 5 - 100yr ARI RCP6**  
**Extensive ring bank including Carters and Snodgrass Stephens Rd Railway Opening**

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Snodgrass cut
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

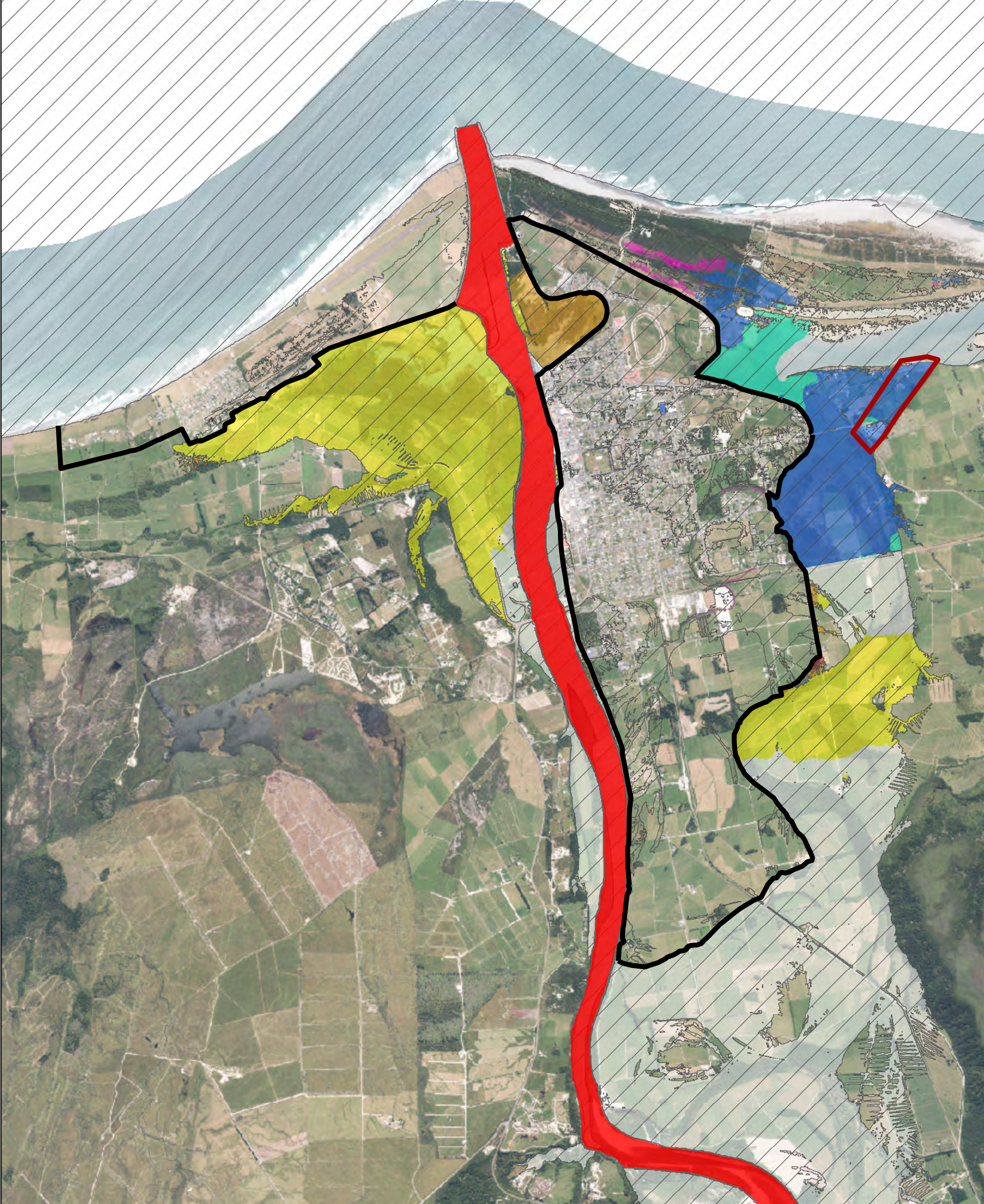
PROJECT  
**Buller River Flood Modelling**

DEPTH DIFFERENCE MAP  
OPTION 6 - 20yr ARI  
Extensive ring bank  
Snodgrass cut excluding Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE	29/03/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Snodgrass cut
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <math><-0.5</math>
- <math>-0.5</math> to <math>-0.1</math>
- <math>-0.1</math> to <math>-0.05</math>
- <math>-0.05</math> to <math>0.05</math>
- <math>0.05</math> to <math>0.1</math>
- <math>0.1</math> to <math>0.5</math>
- ><math>0.5</math>



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE 1:30,000

MAP (1 of 1)

**PROJECT**  
Buller River Flood Modelling

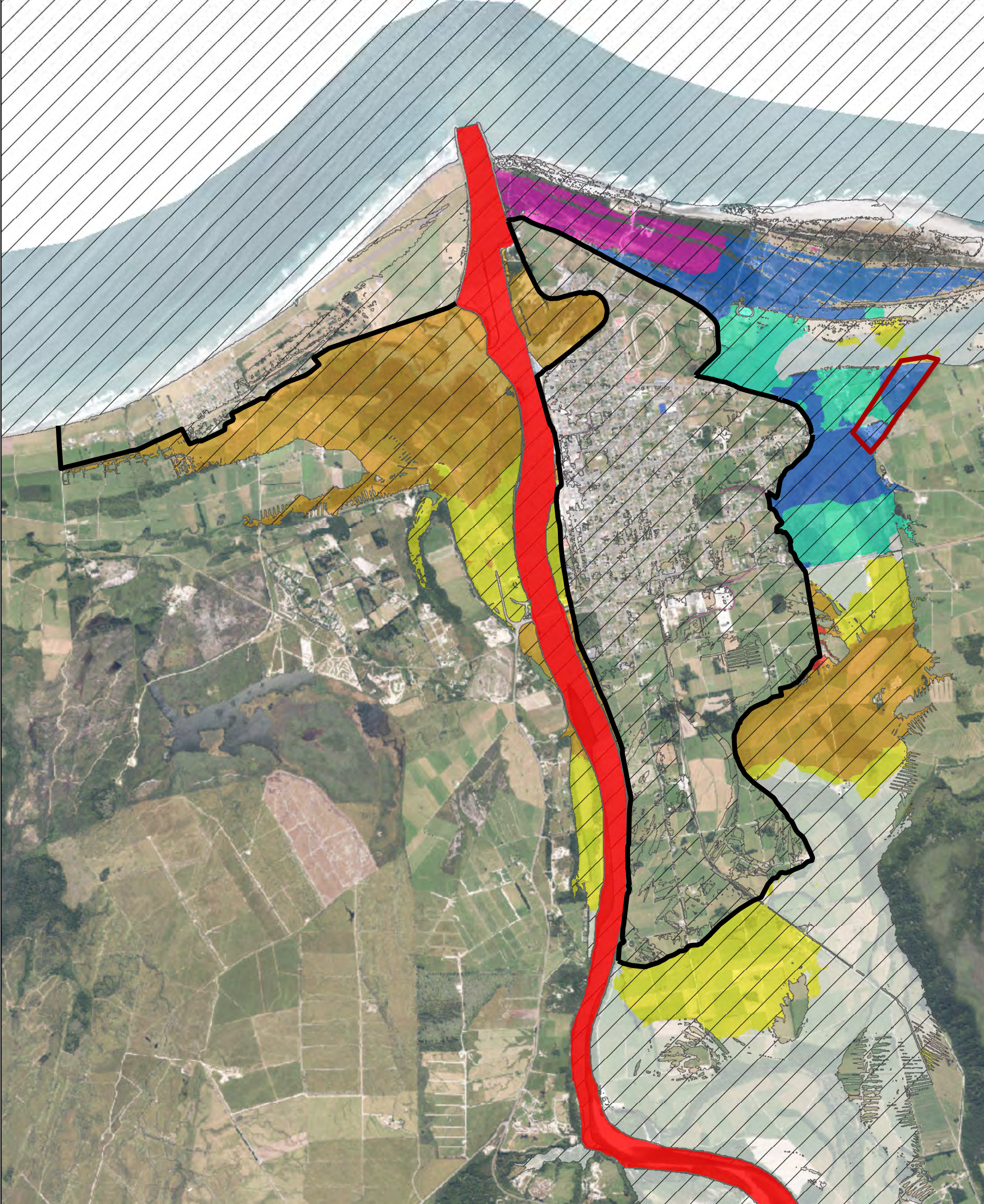
**DEPTH DIFFERENCE MAP**  
OPTION 6 - 50yr ARI  
Extensive ring bank  
Snodgrass cut excluding Snodgrass banks

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
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**Legend**

- Snodgrass cut
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- >0.1



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

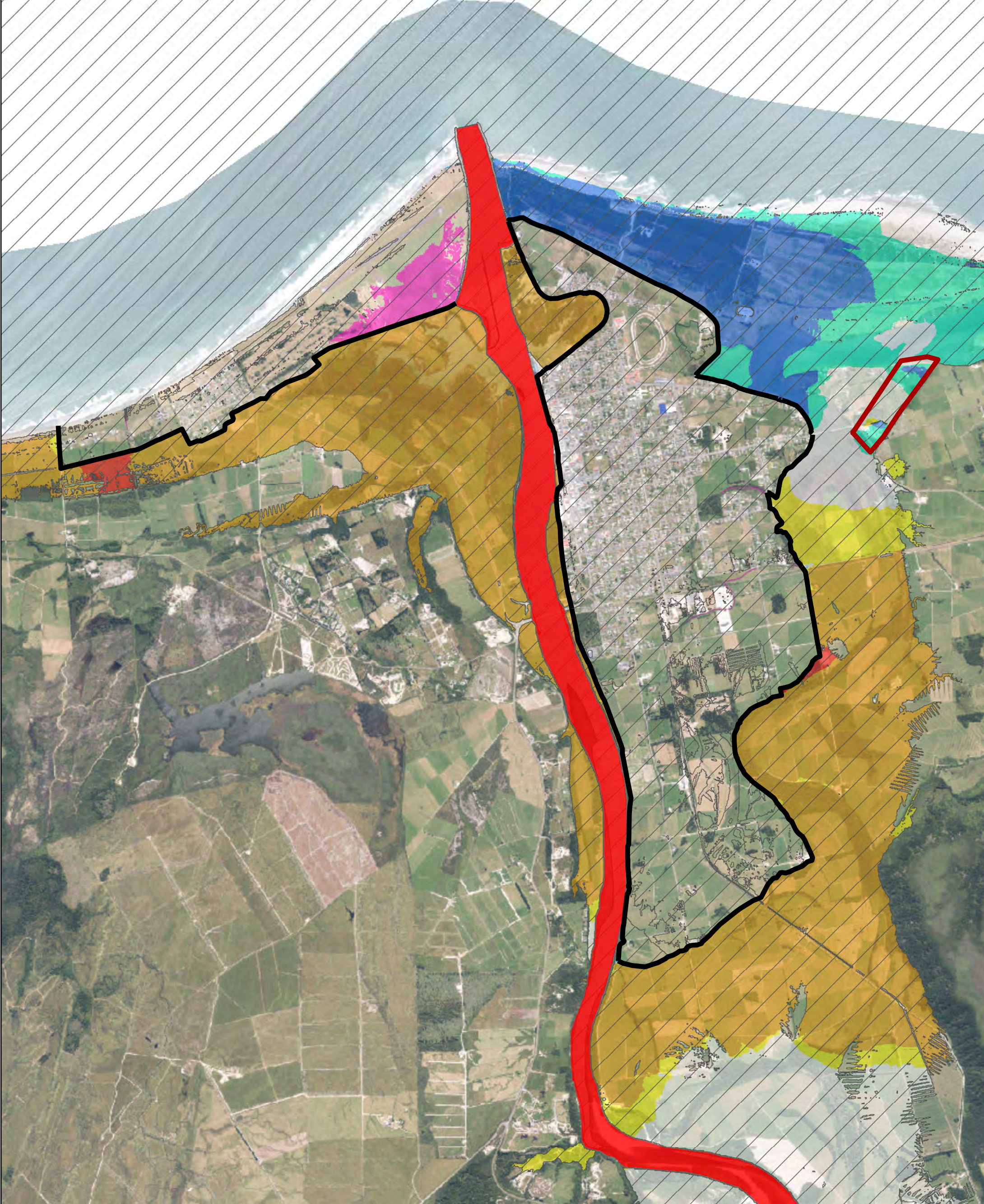
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 6 - 100yr ARI**  
**Extensive ring bank**  
**Snodgrass cut excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- Snodgrass cut
- Stopbank
- 1D River channel
- Flood Extent

**Change in Peak Depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 375 750 1,500  
Meters

A3 SCALE **1:30,000**

MAP (1 of 1)

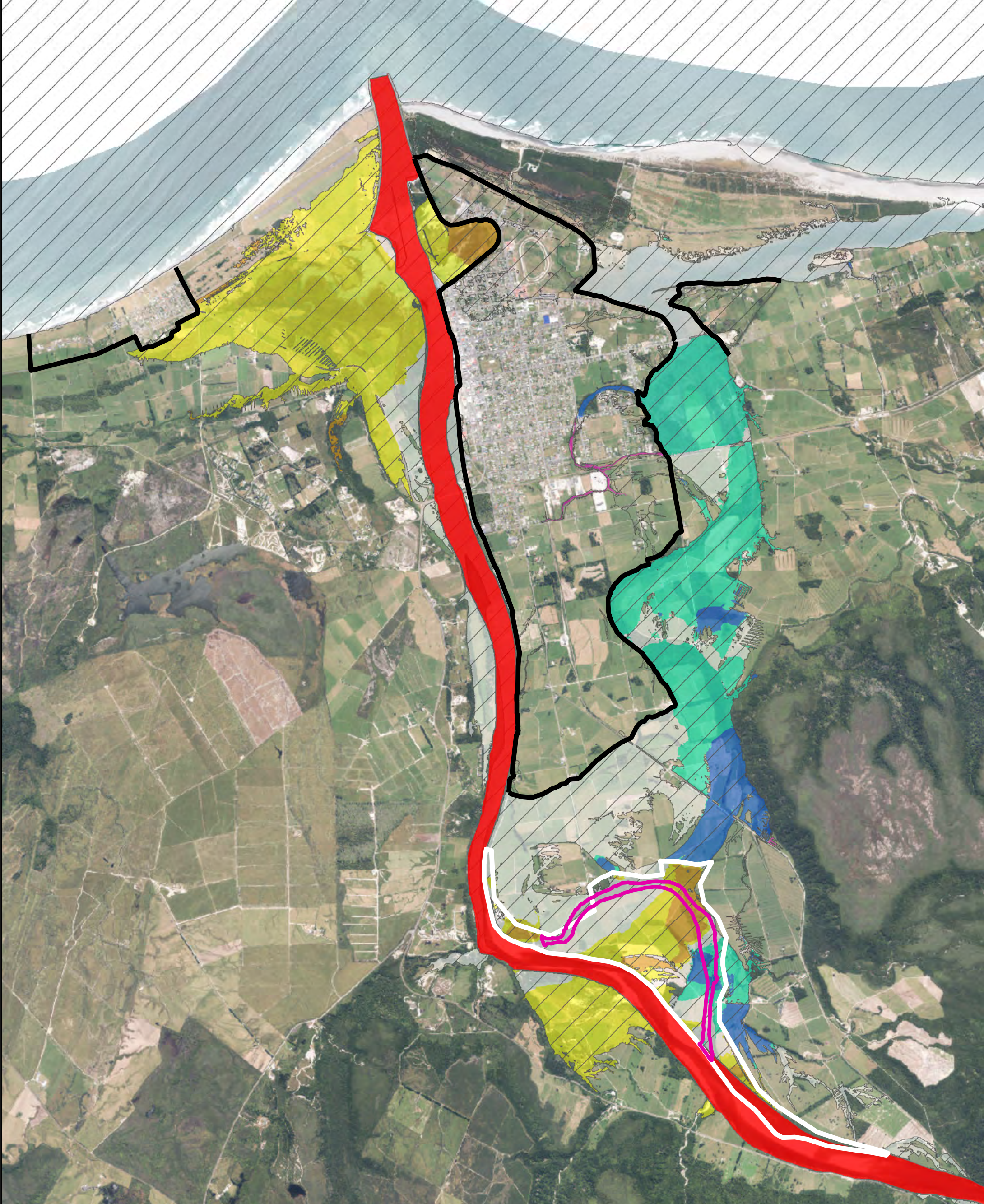
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 6 - 100yr ARI RCP6**  
**Extensive ring bank**  
**Snodgrass cut excluding Snodgrass banks**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	29/03/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- River channel
- Organ's Island
- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 437.5 875 1,750  
Meters

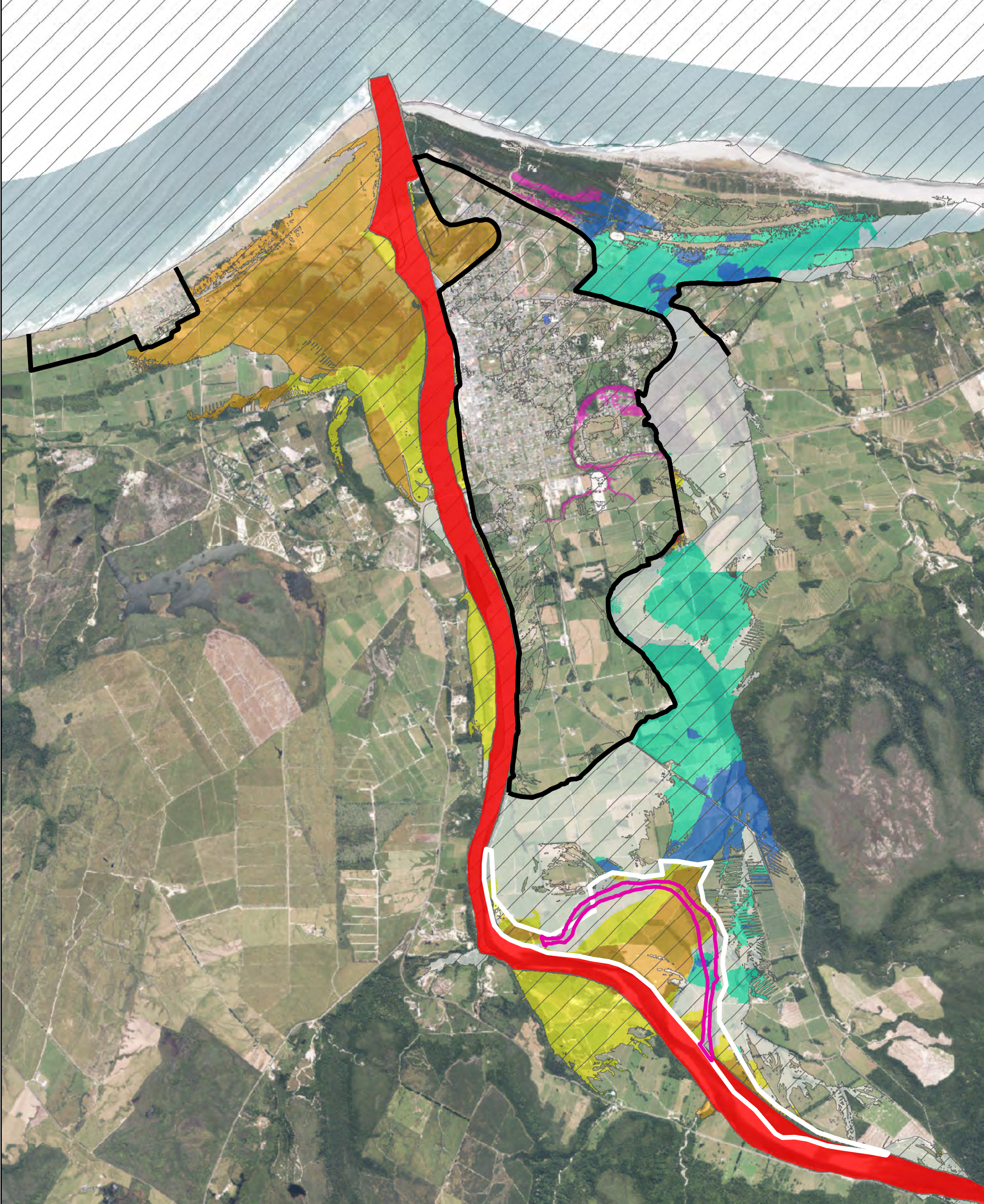
A3 SCALE 1:35,000

MAP (1 of 1)

<b>PROJECT</b> Buller River Flood Modelling						
<b>DEPTH DIFFERENCE MAP</b> OPTION 7 - 20yr ARI Extensive ring bank including Carters and Snodgrass banks - Organ's Island Revegetation						
REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	05/04/2022		

**Model Information**  
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**Legend**

- River channel
- Organ's Island
- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 437.5 875 1,750  
Meters

A3 SCALE 1:35,000

MAP (1 of 1)

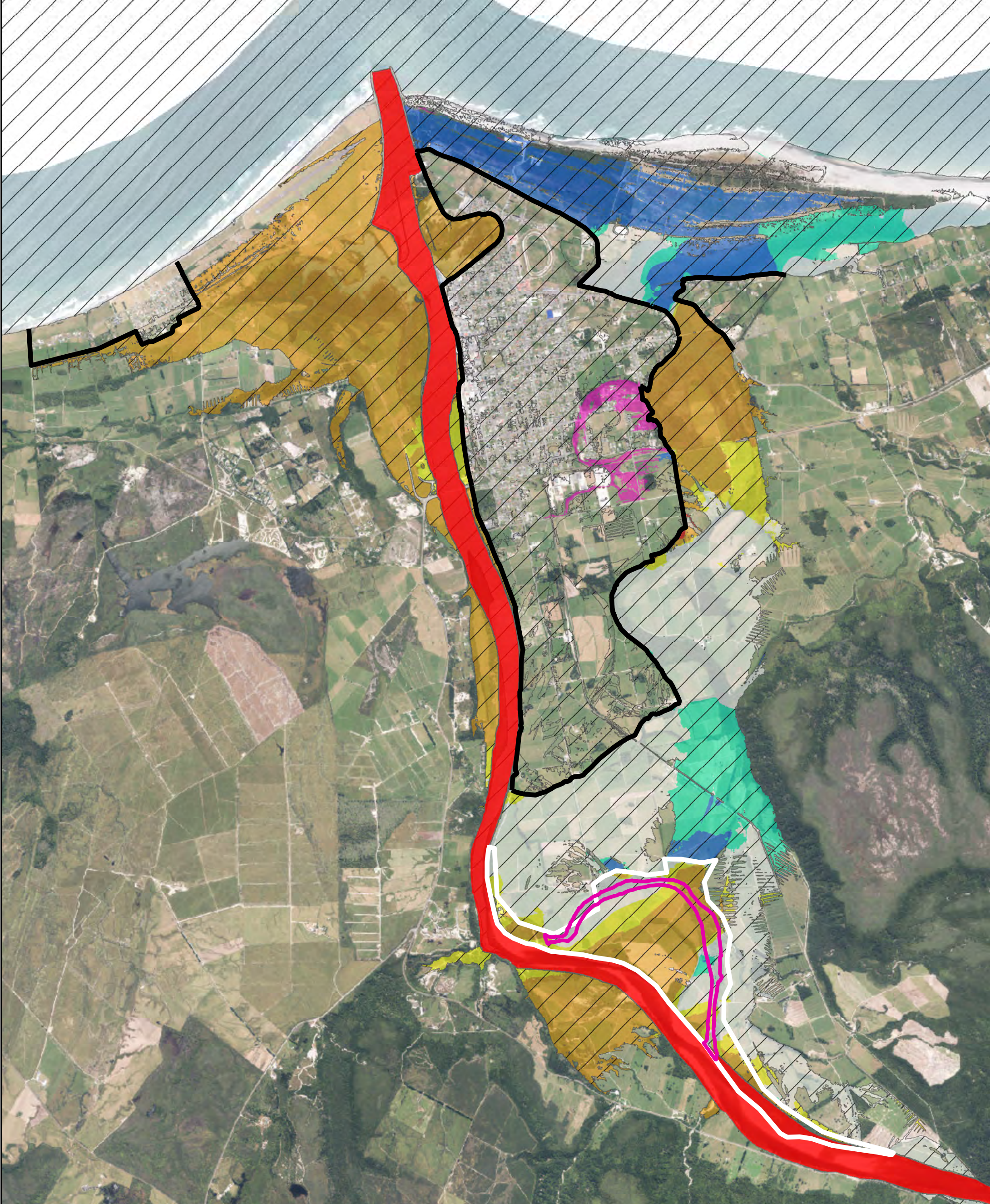
**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 7 - 50yr ARI**  
**Extensive ring bank including Carters and Snodgrass banks - Organ's Island Revegetation**

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE	05/04/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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**Legend**

- River channel
- Organ's Island
- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <math><-0.5</math>
- <math>-0.5</math> to <math>-0.1</math>
- <math>-0.1</math> to <math>-0.05</math>
- <math>-0.05</math> to <math>0.05</math>
- <math>0.05</math> to <math>0.1</math>
- <math>0.1</math> to <math>0.5</math>
- ><math>0.5</math>



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 437.5 875 1,750  
Meters

A3 SCALE 1:35,000

MAP (1 of 1)

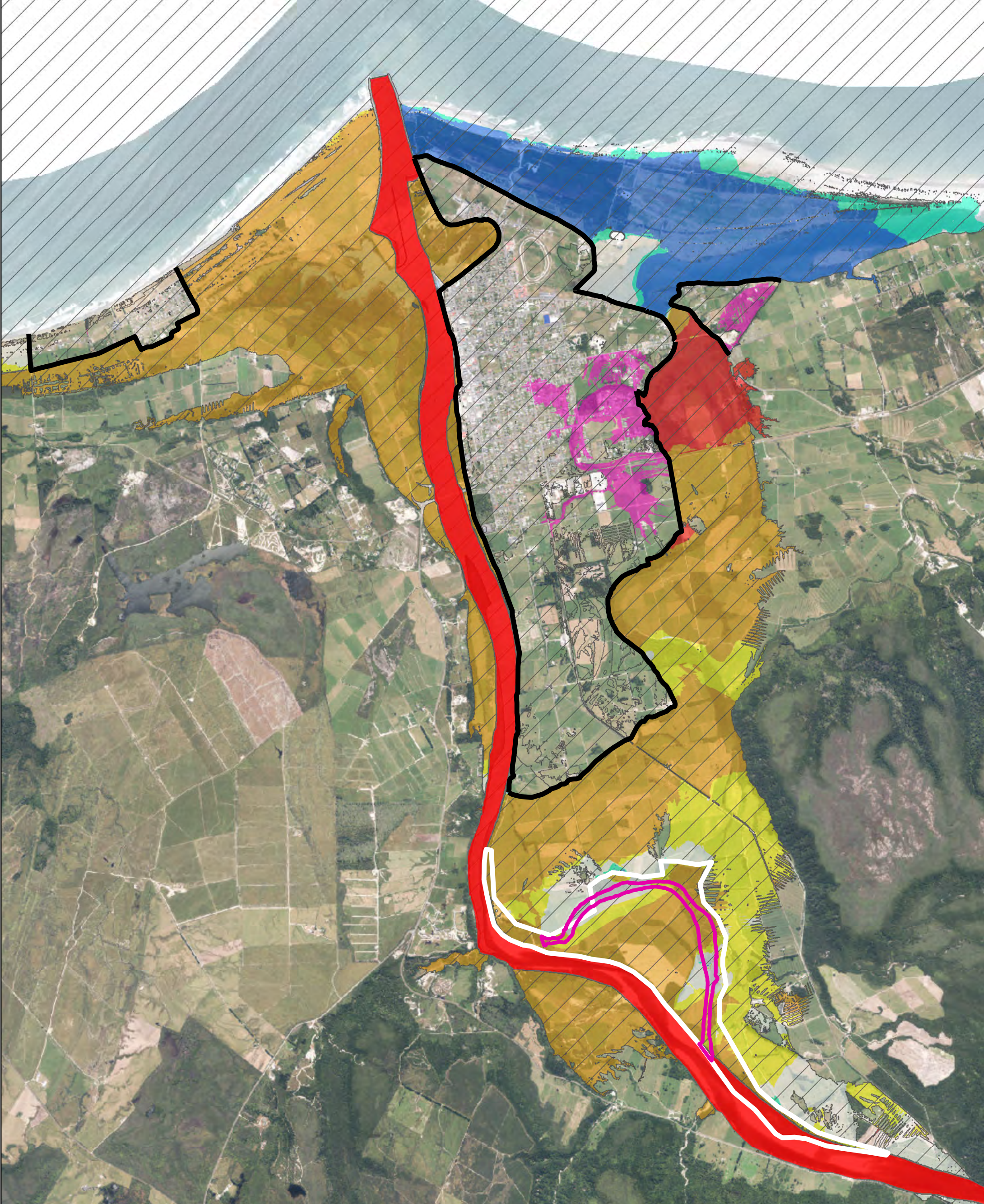
PROJECT  
**Buller River Flood Modelling**

DEPTH DIFFERENCE MAP  
OPTION 7 - 100yr ARI  
Extensive ring bank including Carters and Snodgrass banks - Organ's Island Revegetation

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE		05/04/2022	

Model Information  
Coordinate System: New Zealand Transverse Mercator  
Vertical Datum: NZVD2016  
Model Completed: March 2022

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**Legend**

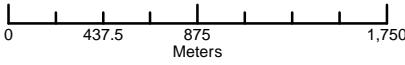
- Clear river channel
- Dense Vegetation
- Stop bank
- 1D River channel
- Base Extent

**Change in Peak depth (m)**

- <-0.5
- 0.5 to -0.1
- 0.1 to -0.05
- 0.05 to 0.05
- 0.05 to 0.1
- 0.1 to 0.5
- >0.5






A3 SCALE **1:35,000**

MAP (1 of 1)

**PROJECT**  
**Buller River Flood Modelling**

**DEPTH DIFFERENCE MAP**  
**OPTION 7 - 100yr ARI RCP6**  
**Extensive ring bank including Carters and Snodgrass banks - Organ's Island Revegetation**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	28/04/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
 Model Completed: March 2022

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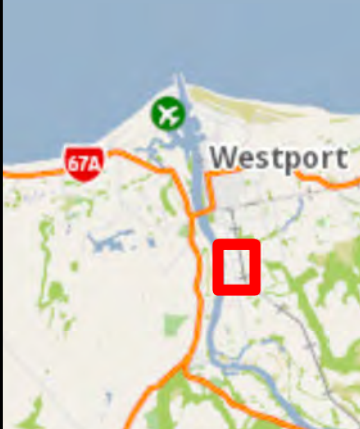
Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (1 of 12)

**PROJECT**  
Buller River Flood Modelling

**MAP TITLE**  
Proposed Stopbank Alignment / Footprint (Option A)

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
 Model Completed: March 2022

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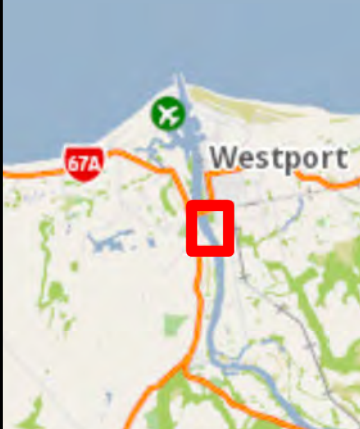
Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (2 of 12)

**PROJECT**  
Buller River Flood Modelling

**MAP TITLE**  
Proposed Stopbank Alignment / Footprint (Option A)

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
 Model Completed: March 2022

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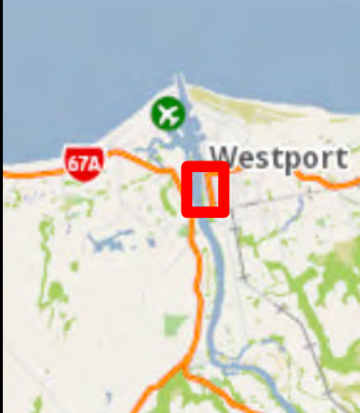
Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (3 of 12)

**PROJECT**  
Buller River Flood Modelling

**MAP TITLE**  
Proposed Stopbank Alignment / Footprint (Option A)

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
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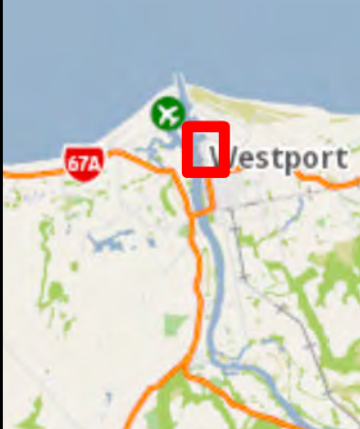
Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



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CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (4 of 12)

**PROJECT**  
Buller River Flood Modelling

**MAP TITLE**  
Proposed Stopbank Alignment / Footprint (Option A)

REVISION	01	Created By	BS	Reviewed By	MG	 N
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
 Vertical Datum: NZVD2016  
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Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (5 of 12)

**PROJECT**  
Buller River Flood Modelling

**MAP TITLE**  
Proposed Stopbank Alignment / Footprint (Option A)

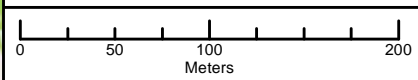
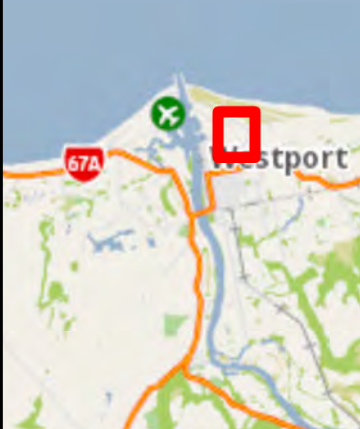
REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
 Coordinate System: New Zealand Transverse Mercator  
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- Legend**
- ◆ Distance markers
  - Roads
  - × Bank / Wall Average Height (m)
- Material**
- Concrete block
  - Concrete floodwall
  - Double timber wall
  - Single timber wall
  - Approximate stopbank footprint
  - Property boundary



A3 SCALE 1:4,000  
MAP (6 of 12)

PROJECT  
**Buller River Flood Modelling**

MAP TITLE  
**Proposed Stopbank Alignment / Footprint (Option A)**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
Vertical Datum: NZVD2016  
Model Completed: March 2022

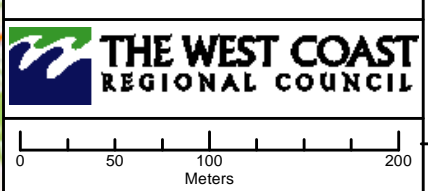
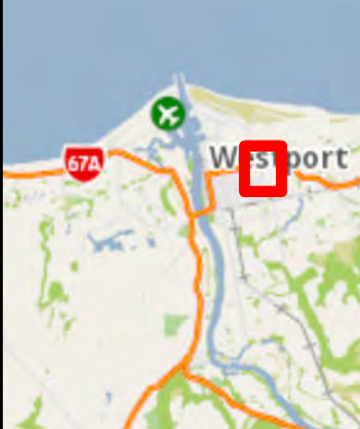
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Preliminary design - final design alignment may be refined

### Legend

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)
- Material**
- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



A3 SCALE 1:4,000  
MAP (7 of 12)

### PROJECT Buller River Flood Modelling

### MAP TITLE Proposed Stopbank Alignment / Footprint (Option A)

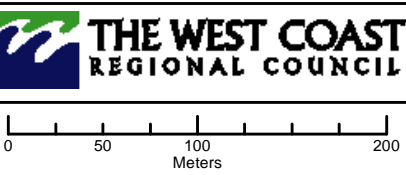
REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
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- Legend**
- ◆ Distance markers
  - Roads
  - × Bank / Wall Average Height (m)
- Material**
- Concrete block
  - Concrete floodwall
  - Double timber wall
  - Single timber wall
  - Approximate stopbank footprint
  - Property boundary



A3 SCALE 1:4,000  
MAP (8 of 12)

PROJECT  
**Buller River Flood Modelling**

MAP TITLE  
**Proposed Stopbank Alignment / Footprint (Option A)**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

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Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (9 of 12)

PROJECT  
**Buller River Flood Modelling**

MAP TITLE  
**Proposed Stopbank Alignment / Footprint (Option A)**

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

Model Information  
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Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (10 of 12)

PROJECT  
**Buller River Flood Modelling**

MAP TITLE  
**Proposed Stopbank Alignment / Footprint (Option A)**

REVISION	01	Created By	BS	Reviewed By	MG
AUTHOR	Matthew Gardner		DATE	12/05/2022	

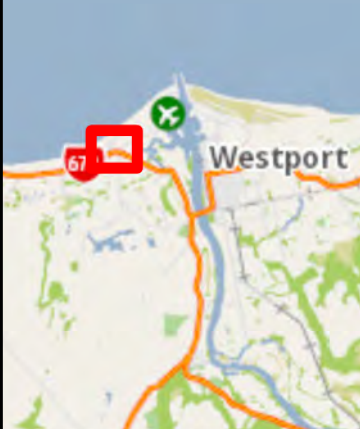
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Preliminary design - final design alignment may be refined

- Legend**
- ◆ Distance markers
  - Roads
  - × Bank / Wall Average Height (m)
- Material**
- Concrete block
  - Concrete floodwall
  - Double timber wall
  - Single timber wall
  - Approximate stopbank footprint
  - Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (11 of 12)

PROJECT <b>Buller River Flood Modelling</b>						
MAP TITLE <b>Proposed Stopbank Alignment / Footprint (Option A)</b>						
REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

Model Information  
Coordinate System: New Zealand Transverse Mercator  
Vertical Datum: NZVD2016  
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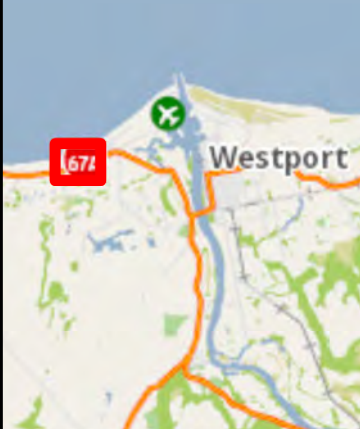
Preliminary design - final design alignment may be refined

**Legend**

- ◆ Distance markers
- Roads
- × Bank / Wall Average Height (m)

**Material**

- Concrete block
- Concrete floodwall
- Double timber wall
- Single timber wall
- Approximate stopbank footprint
- Property boundary



**LANDRIVERSEA**  
CONSULTING

**THE WEST COAST**  
REGIONAL COUNCIL

0 50 100 200  
Meters

A3 SCALE 1:4,000

MAP (12 of 12)

**PROJECT**  
Buller River Flood Modelling

**MAP TITLE**  
Proposed Stopbank Alignment / Footprint (Option A)

REVISION	01	Created By	BS	Reviewed By	MG	
AUTHOR	Matthew Gardner		DATE	12/05/2022		

**Model Information**  
Coordinate System: New Zealand Transverse Mercator  
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