

Appendix B

Existing Conditions Flood Maps

B1 - Existing Flood Depth 39% AEP

B2 – Existing Flood Depth 10% AEP

B3 – Existing Flood Depth 1% AEP

B4 – Existing Flood Velocity 39% AEP

B5 – Existing Flood Velocity 10% AEP

B6 – Existing Flood Velocity 1% AEP

B7 – Existing Flood Duration 39% AEP

B8 – Existing Flood Duration 10% AEP

B9 – Existing Flood Duration 1% AEP





Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

- Existing Flood Velocity (m/s):
- <= 0.5
 - 0.5 - 1.0
 - 1.0 - 1.5
 - 1.5 - 2.0
 - > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



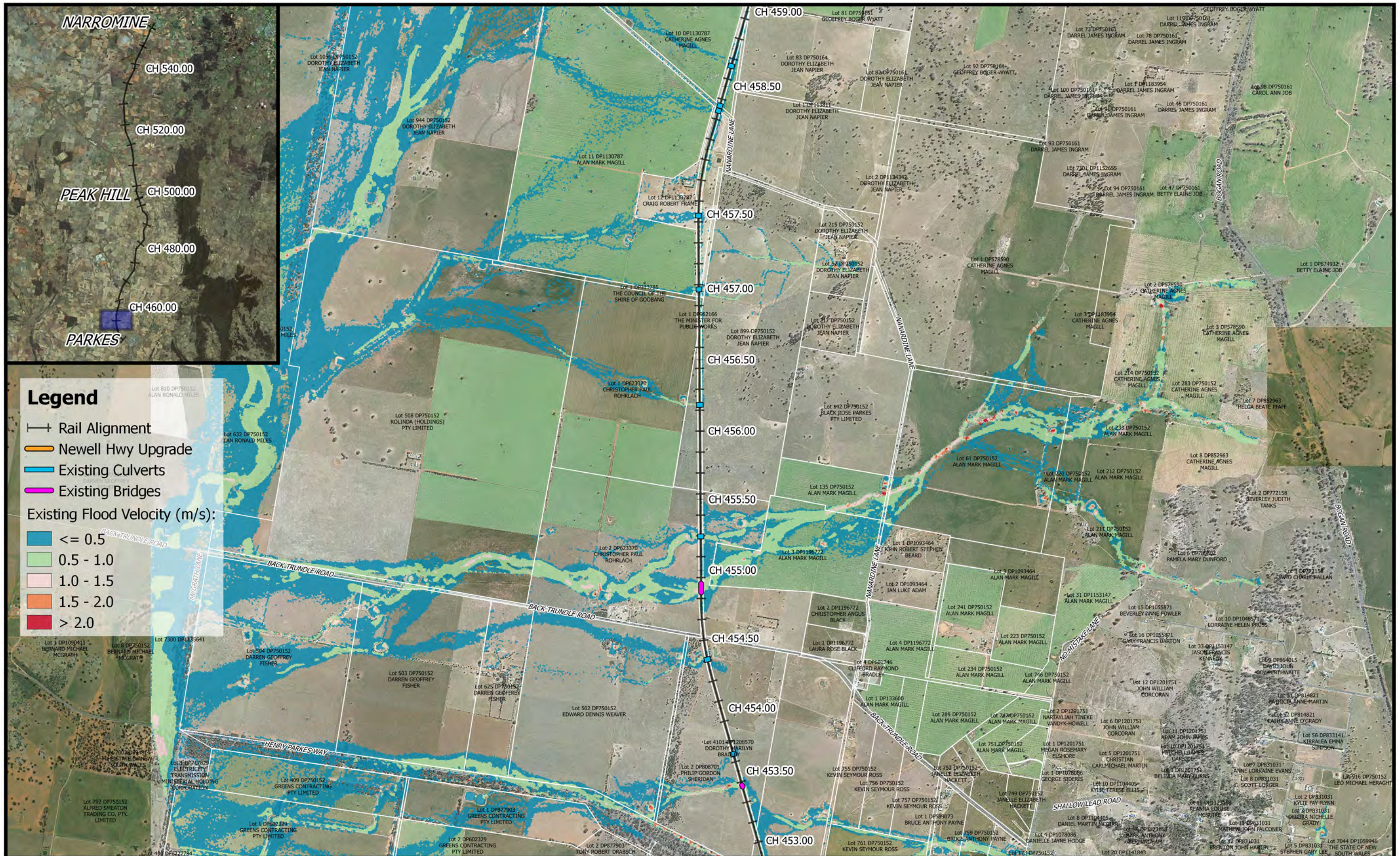
Date: 18/10/2018

Rev: B

Prepared By: YeohM

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V1
39% AEP Existing Flood Velocity - CH 450.00

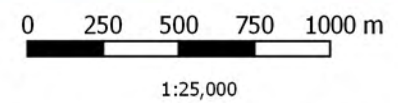


Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



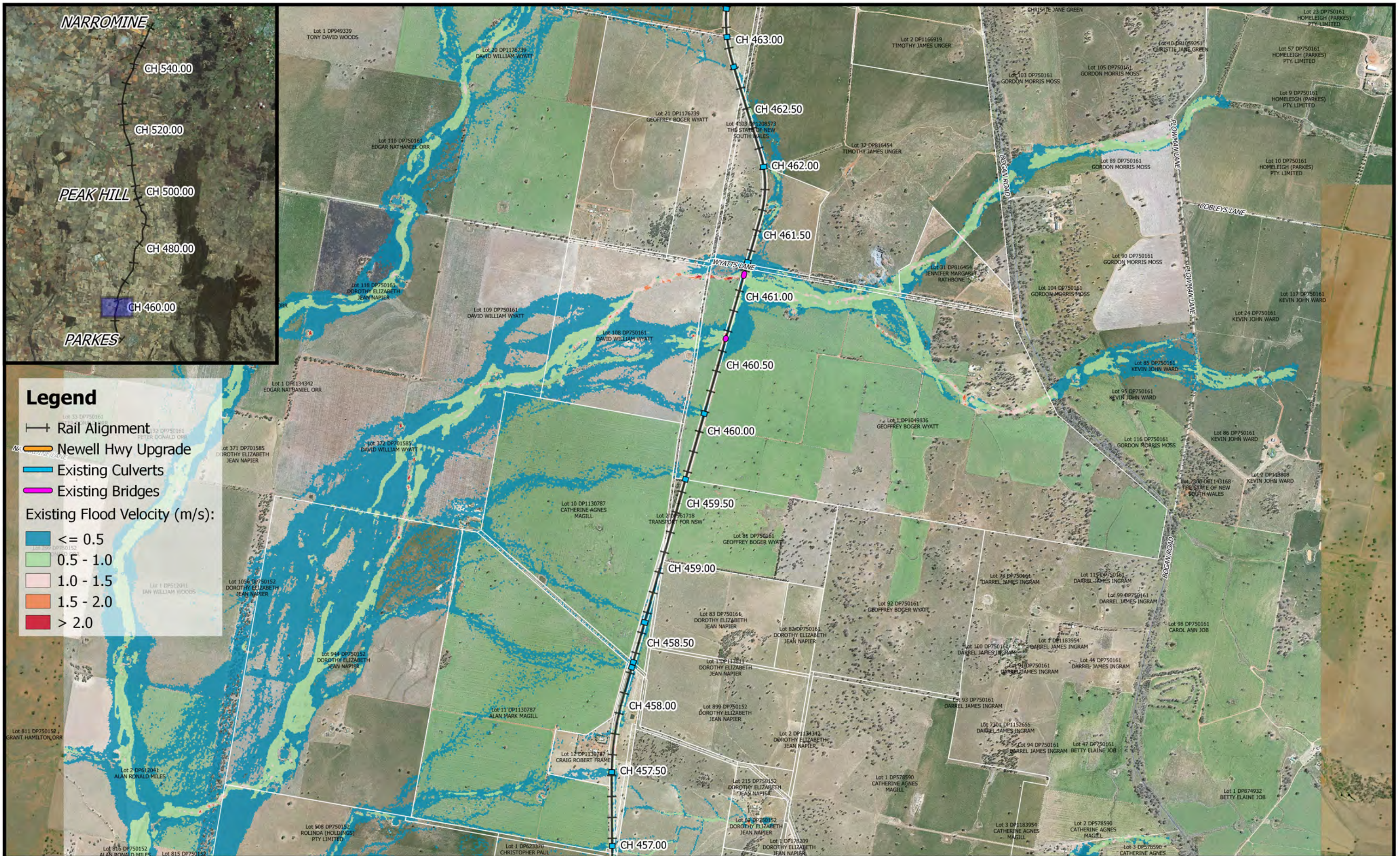
Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



Date: 18/10/2018
Rev: B
Prepared By: YeohM

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V2
39% AEP Existing Flood Velocity - CH 455.00



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V3 <i>39% AEP Existing Flood Velocity - CH 460.00</i></p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



0 250 500 750 1000 m
1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



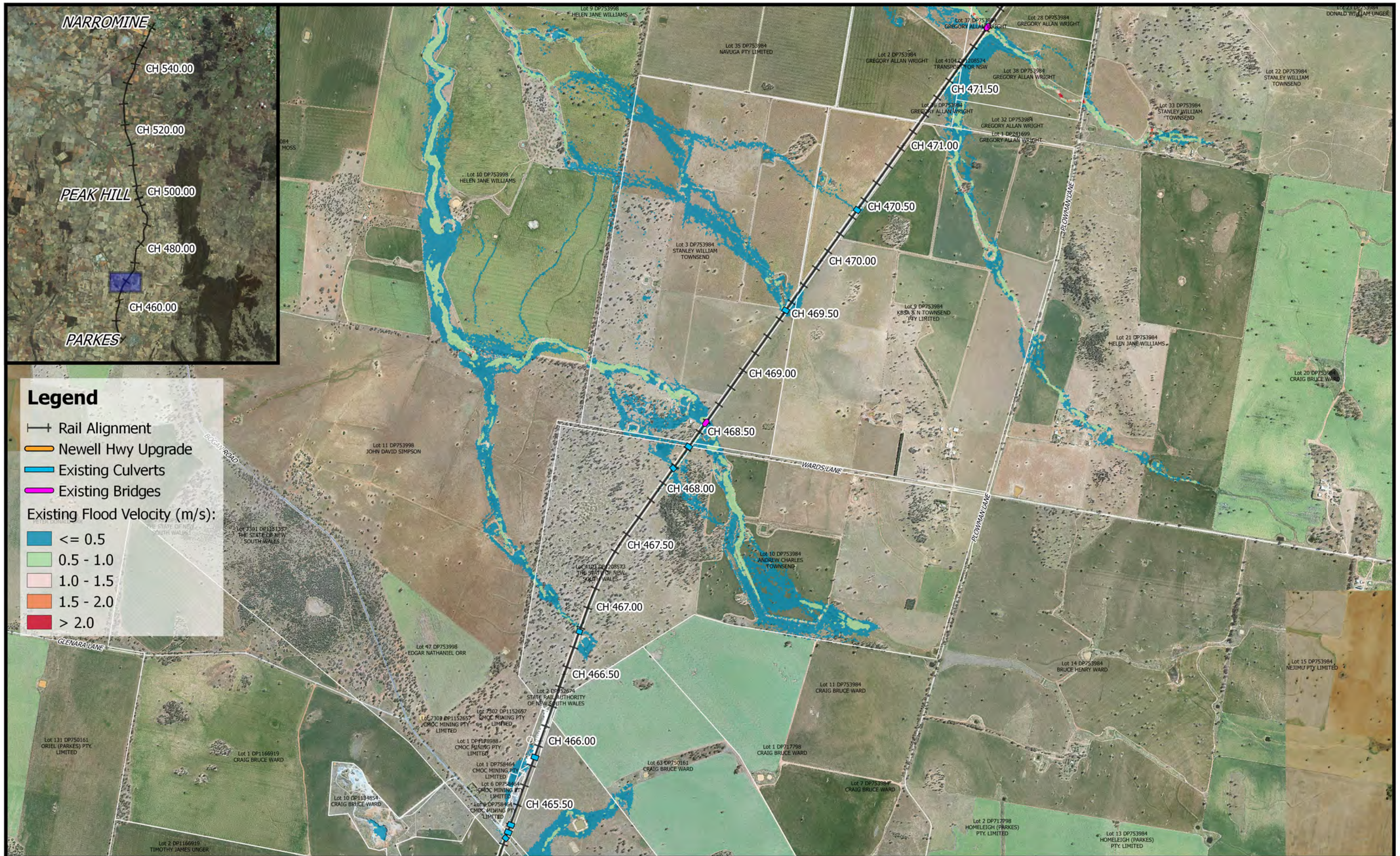
Date: 18/10/2018

Rev: B

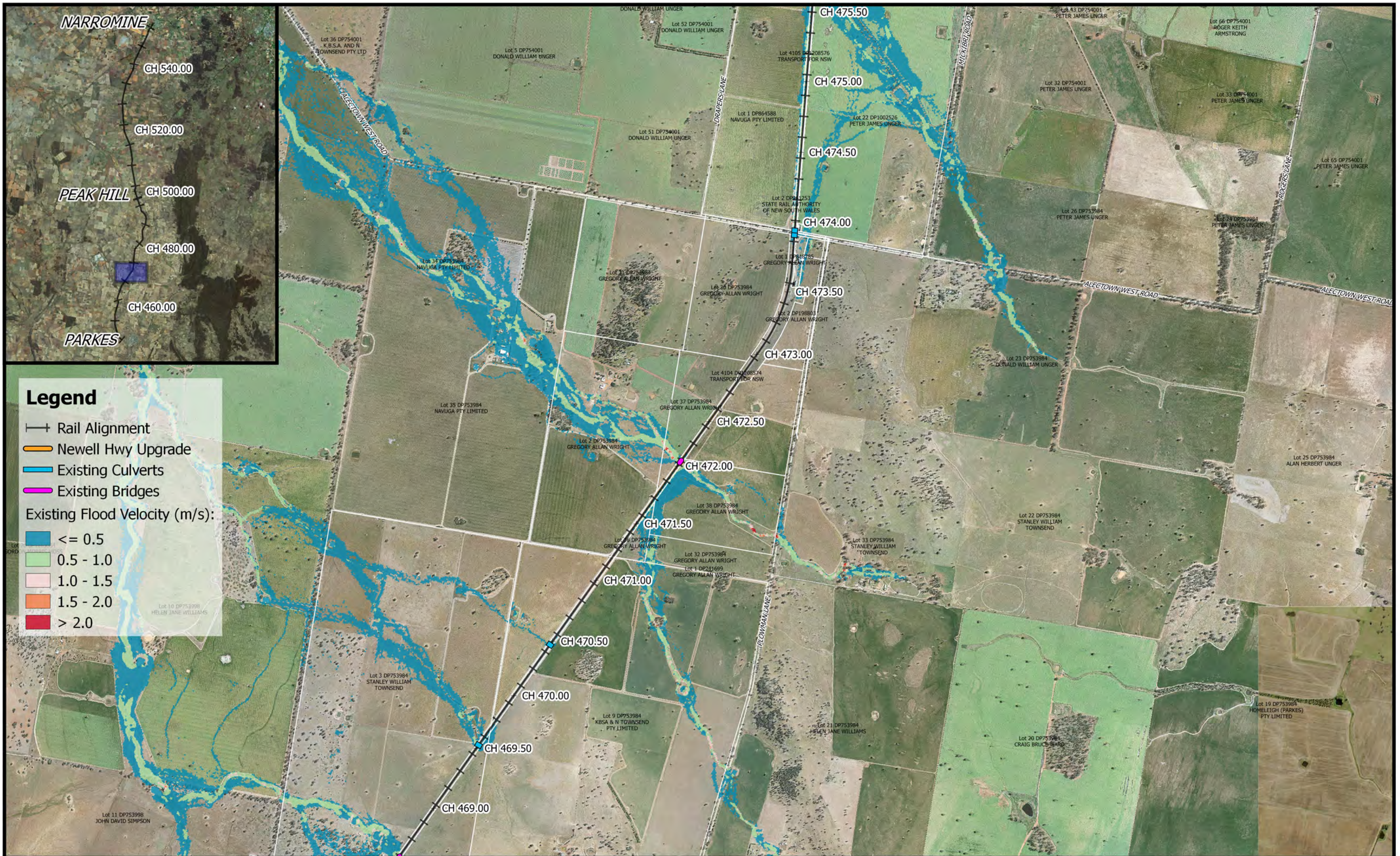
Prepared By: YeohM

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V4
39% AEP Existing Flood Velocity - CH 465.00



	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 18/10/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V5 39% AEP Existing Flood Velocity - CH 470.00</p>
			Rev: B	
			Prepared By: YeohM	



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 18/10/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V6 39% AEP Existing Flood Velocity - CH 472.00</p>
			Rev: B	
			Prepared By: YeohM	



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



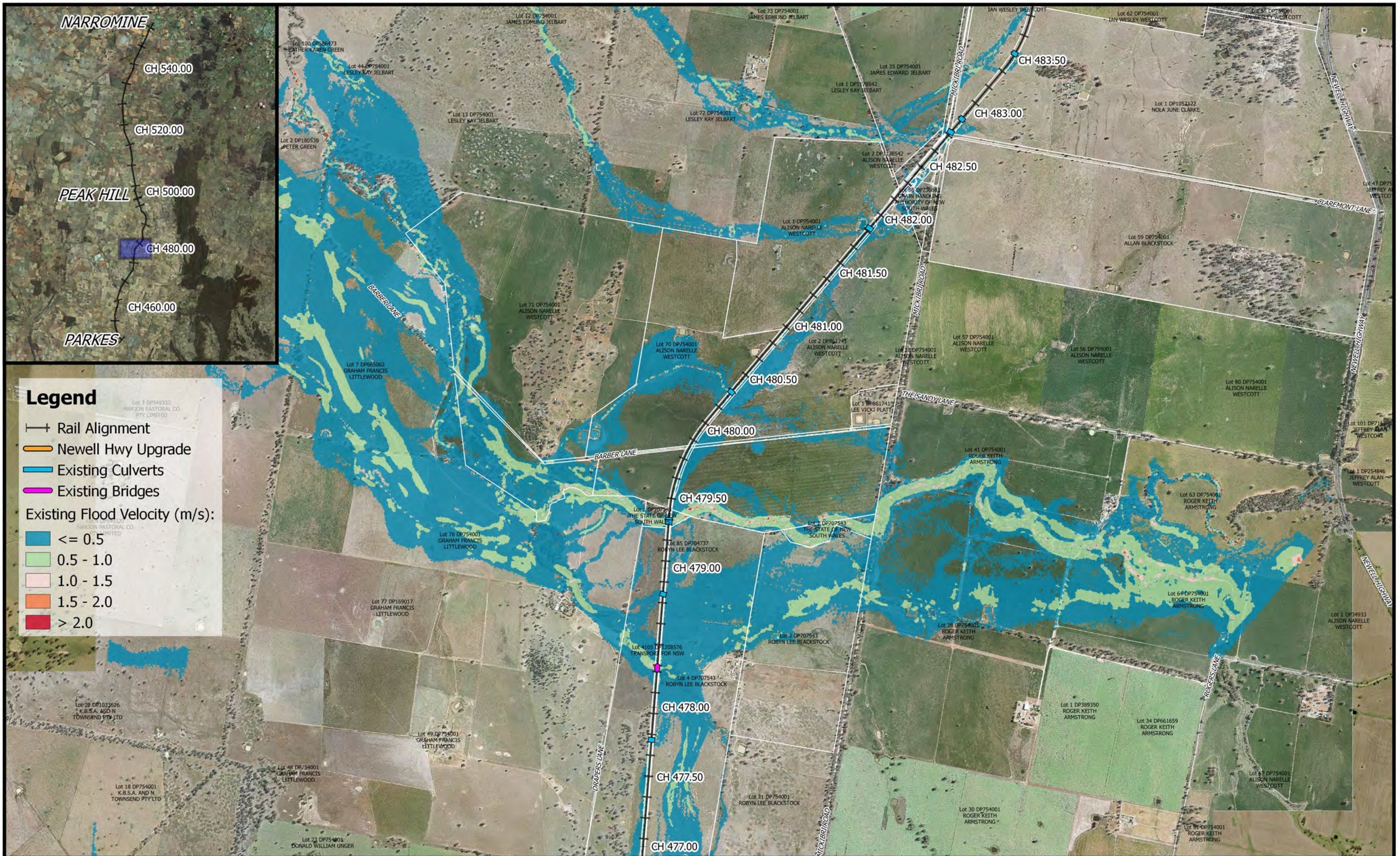
Date: 18/10/2018

Rev: B

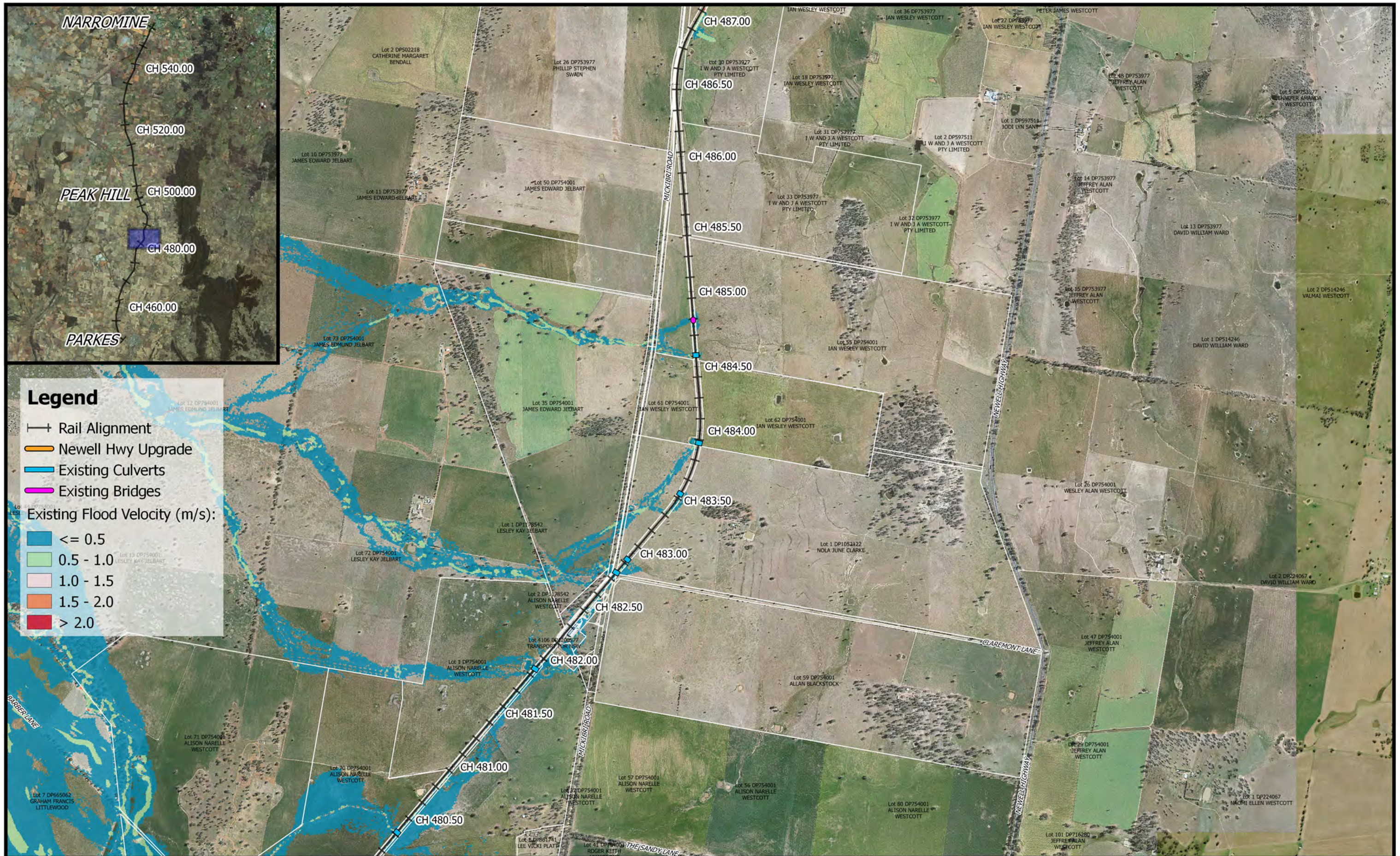
Prepared By: YeohM

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

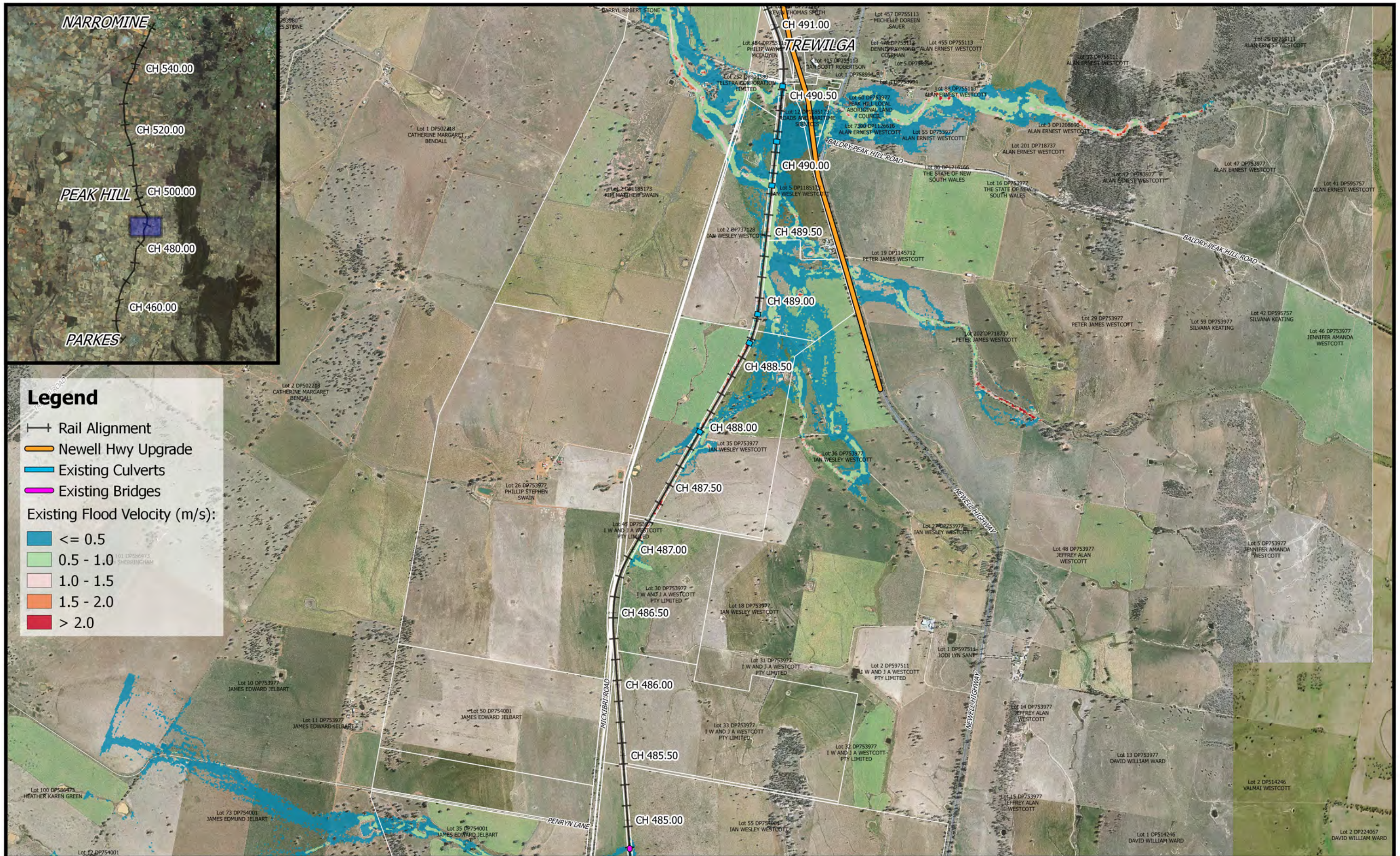
Figure EX39V7
39% AEP Existing Flood Velocity - CH 475.00



			Date: 18/10/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX39V8 <i>39% AEP Existing Flood Velocity - CH 480.00</i>
	1:25,000		Rev: B	
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Prepared By: YeohM	



	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 18/10/2018	<p align="center">Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure EX39V1 39% AEP Existing Flood Velocity - CH 485.00</p>
			Rev: B	
			Prepared By: YeohM	



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



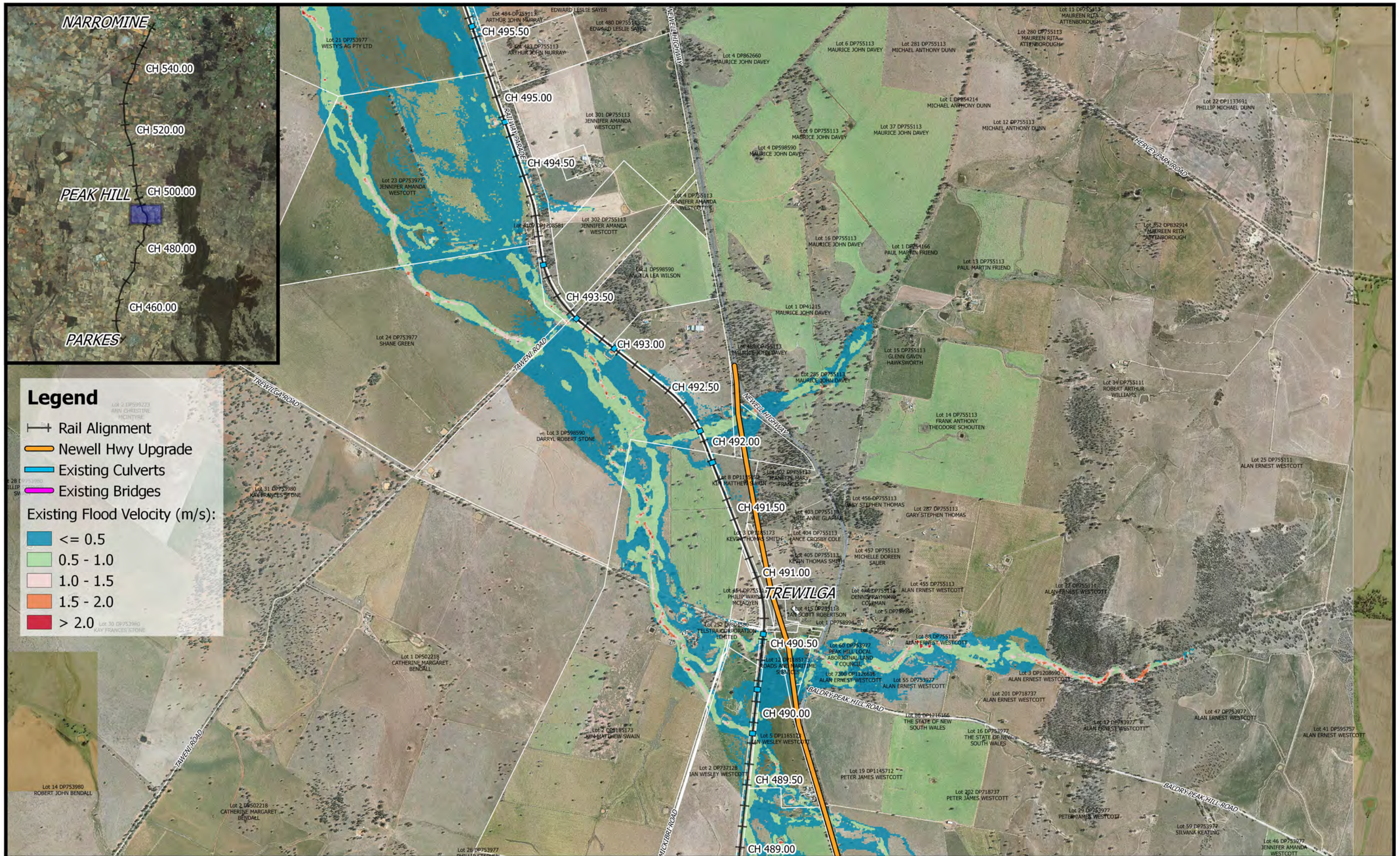
Date: 18/10/2018

Rev: B

Prepared By: YeohM

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V2
39% AEP Existing Flood Velocity - CH 490.00



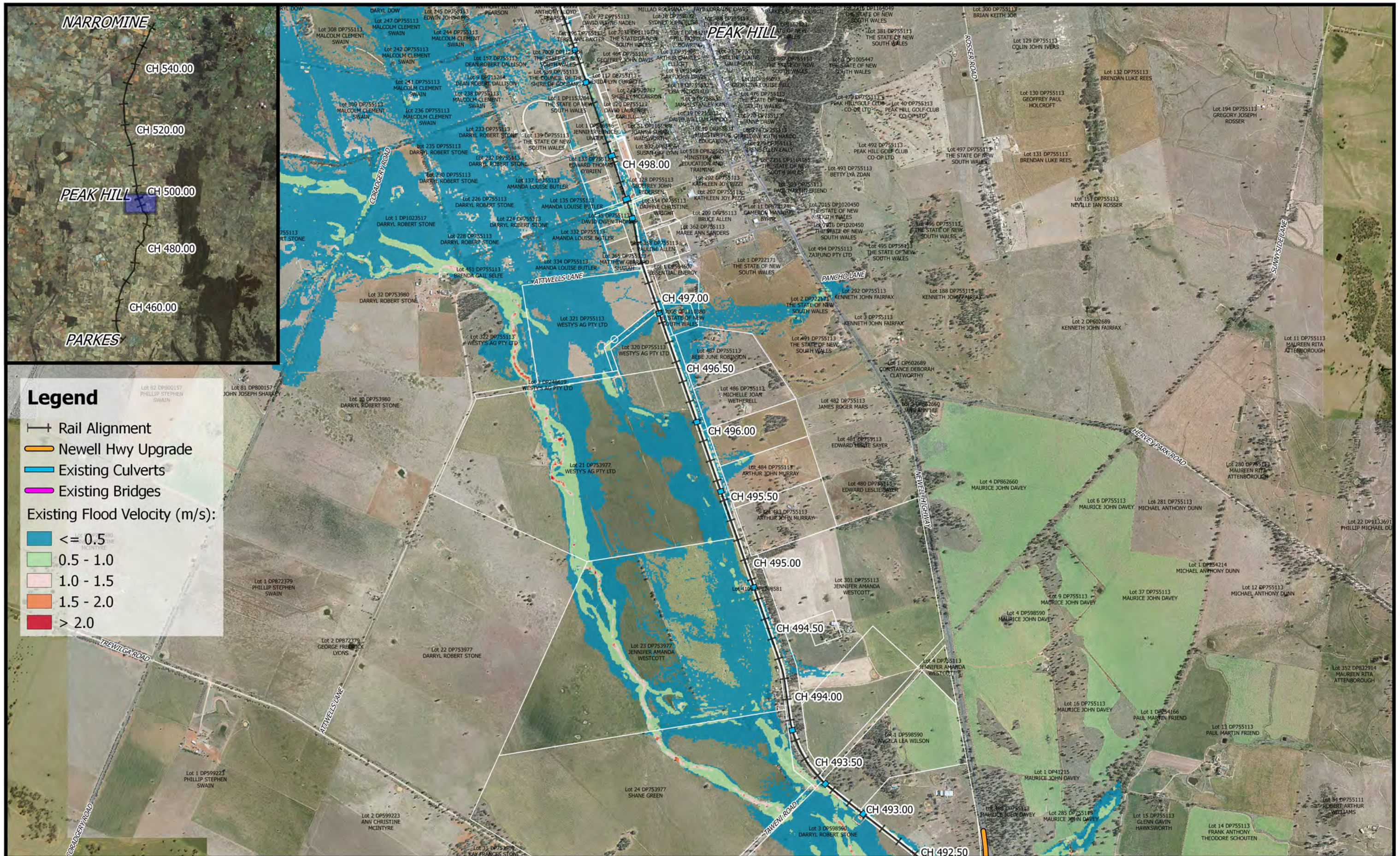
Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p style="text-align: center;">Parkes to Narromine</p> <p style="text-align: center;">DD100% - Cross Drainage Flood Impact Assessment Results</p> <p style="text-align: center;">Figure EX39V11</p> <p style="text-align: center;">39% AEP Existing Flood Velocity - CH 492.00</p>
	Rev: A			
	Prepared By: WhiteleyD			



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

Date: 9/7/2018

Rev: A

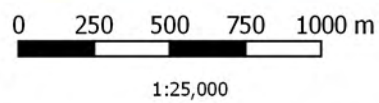
Prepared By: WhiteleyD



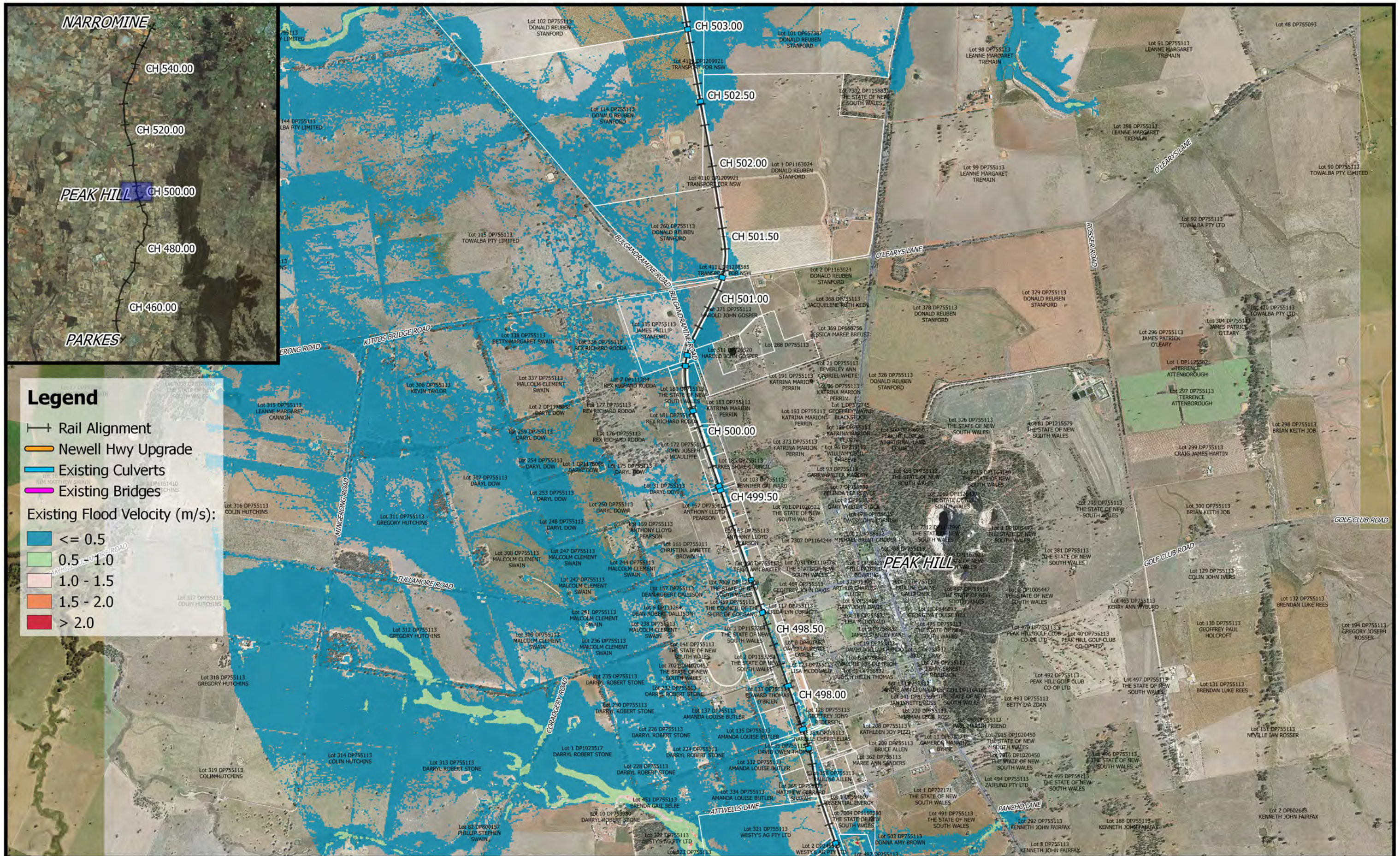
Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V12

39% AEP Existing Flood Velocity - CH 495.00



Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



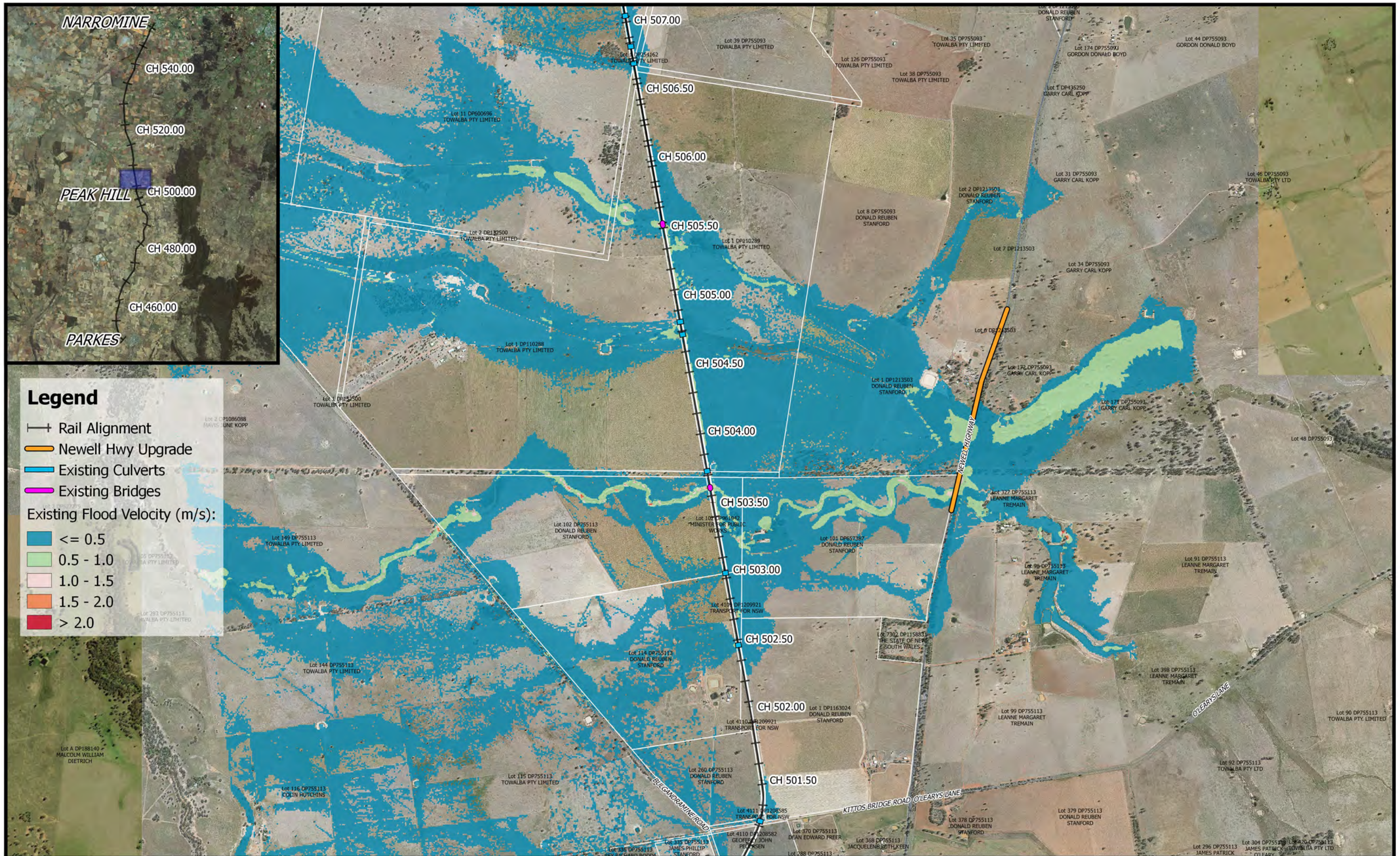
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V13
39% AEP Existing Flood Velocity - CH 500.00



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



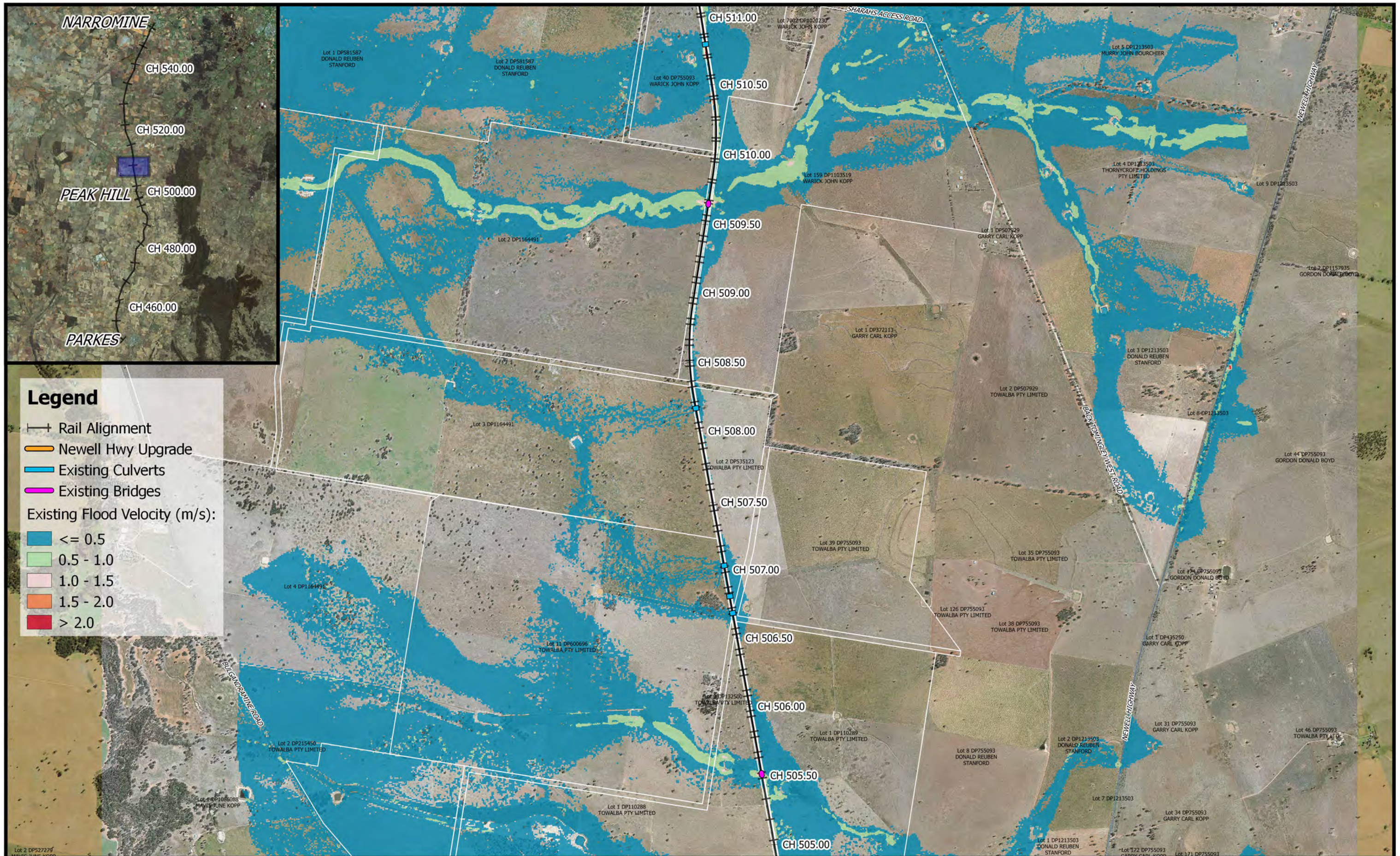
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V14
39% AEP Existing Flood Velocity - CH 505.00



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



0 250 500 750 1000 m

1:25,000

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



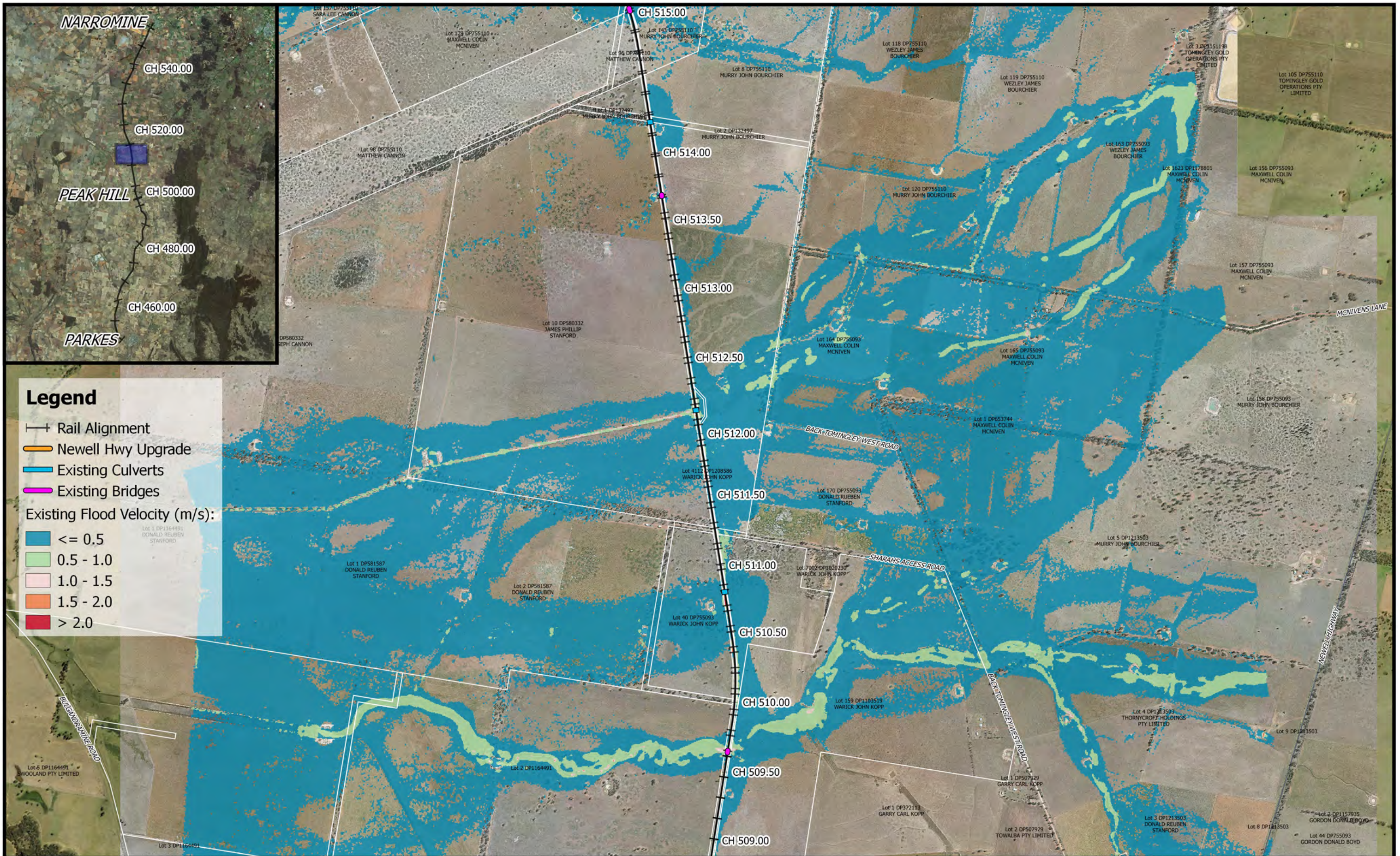
Date: 9/7/2018

Rev: A

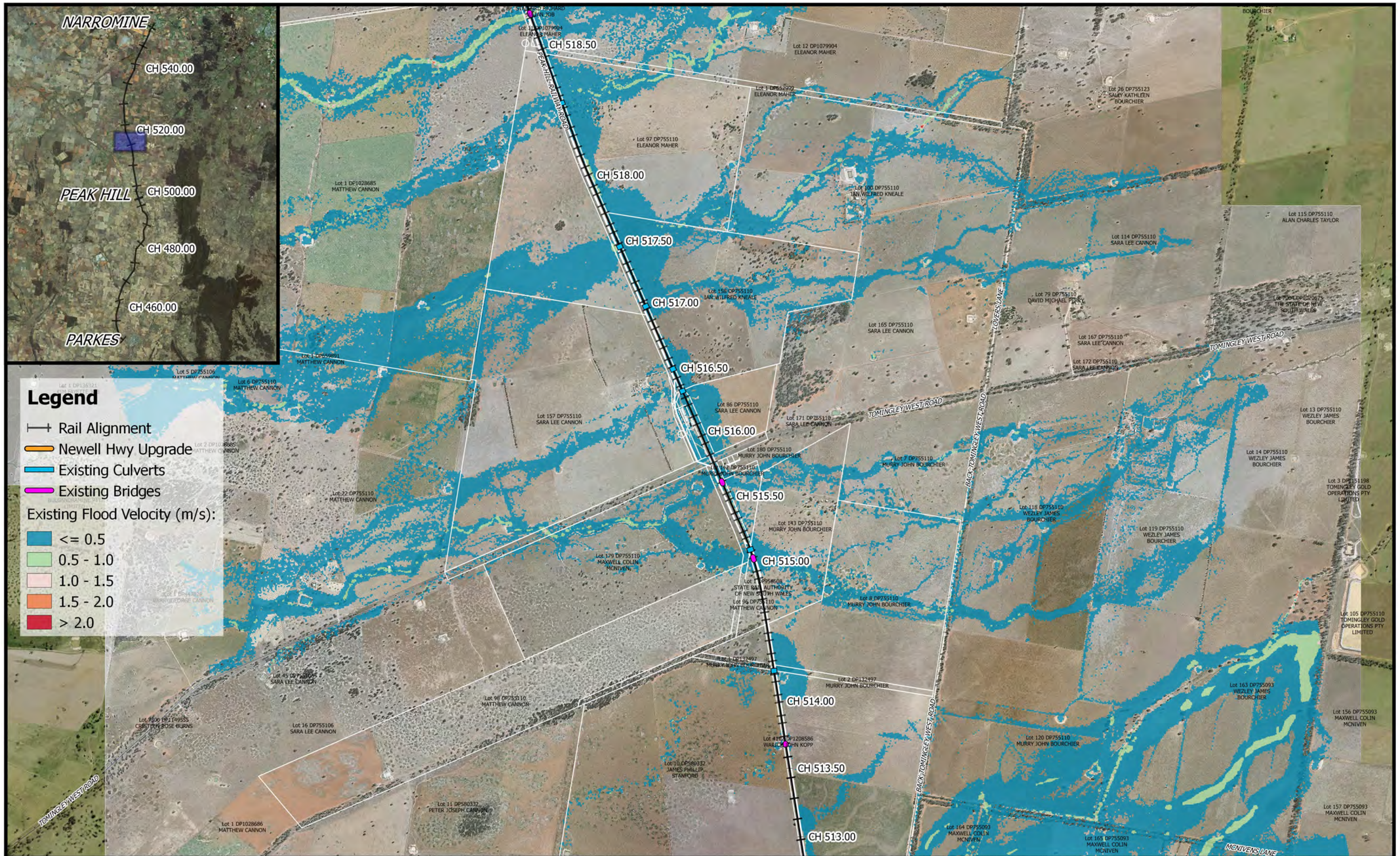
Prepared By: WhiteleyD

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V15
39% AEP Existing Flood Velocity - CH 510.00



	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX39V16 <i>39% AEP Existing Flood Velocity - CH 512.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			

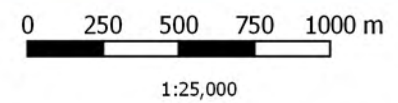


Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



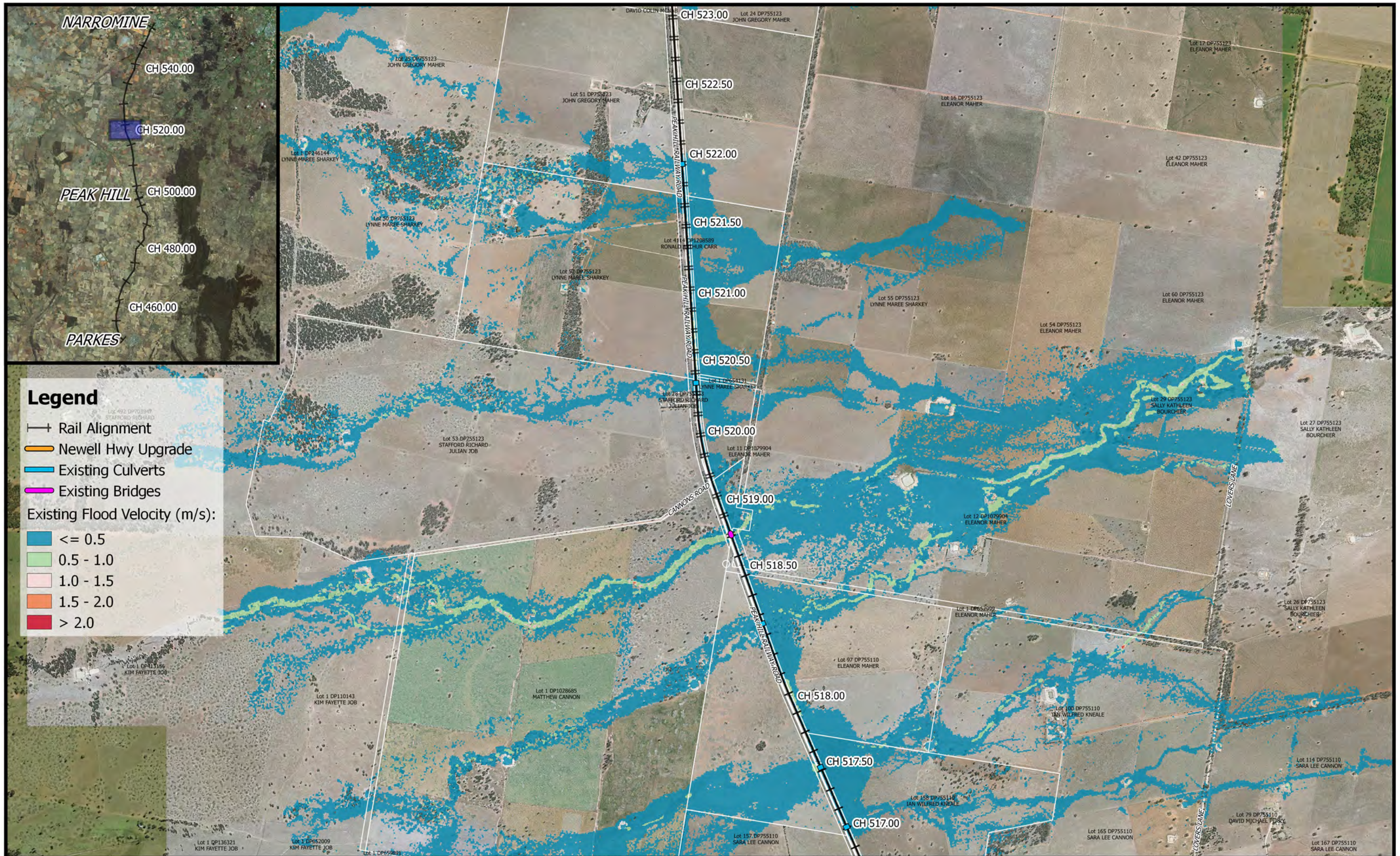
Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



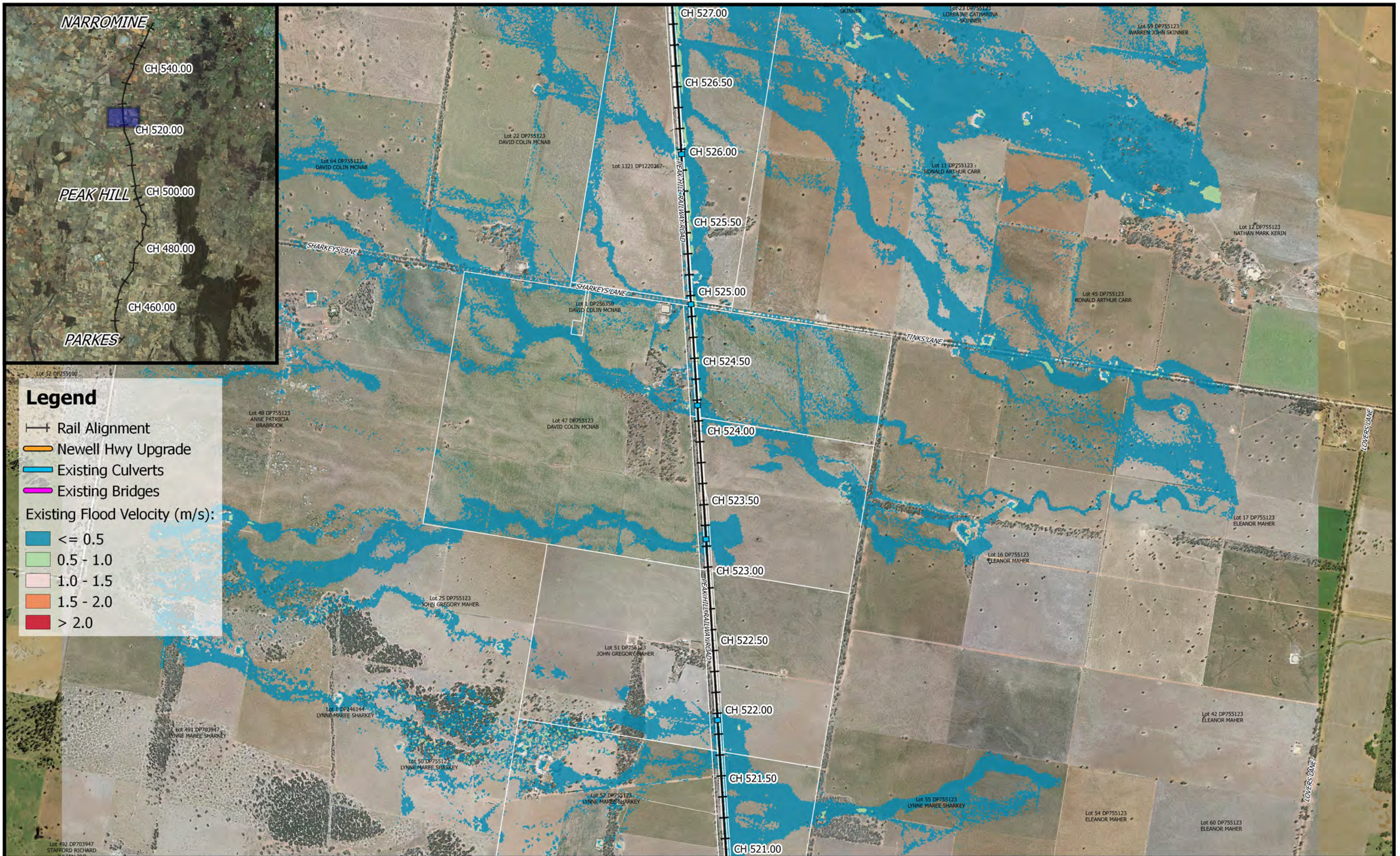
Date: 9/7/2018
Rev: A
Prepared By: WhiteleyD

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V17
39% AEP Existing Flood Velocity - CH 515.00



	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V18 39% AEP Existing Flood Velocity - CH 520.00</p>
			Rev: A	
			Prepared By: WhiteleyD	



Legend

- Rail Alignment
 - Newell Hwy Upgrade
 - Existing Culverts
 - Existing Bridges
- Existing Flood Velocity (m/s):
- ≤ 0.5
 - 0.5 - 1.0
 - 1.0 - 1.5
 - 1.5 - 2.0
 - > 2.0

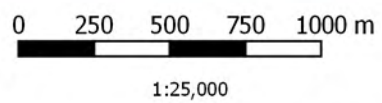
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

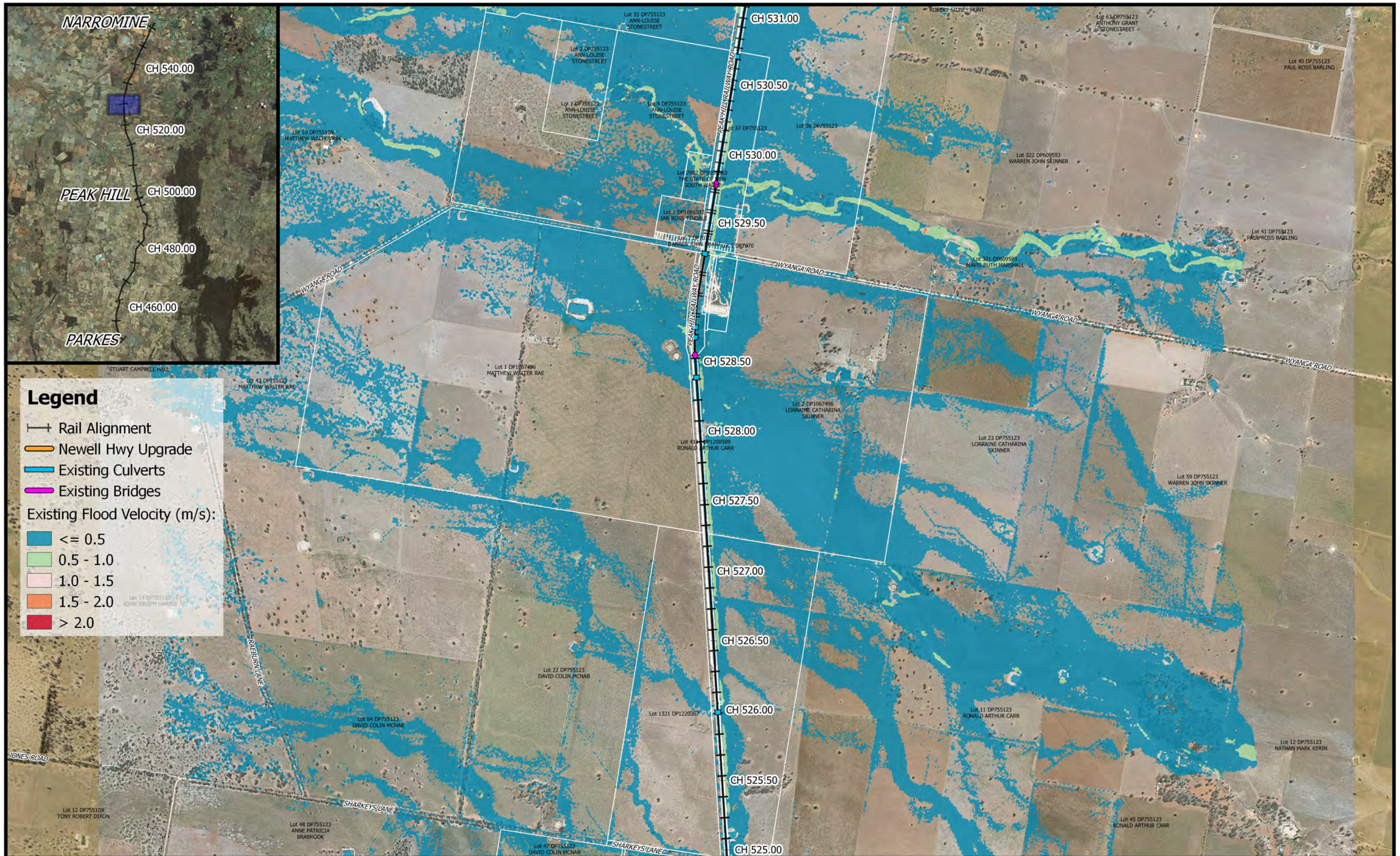
Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V19
39% AEP Existing Flood Velocity - CH 525.00



Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3





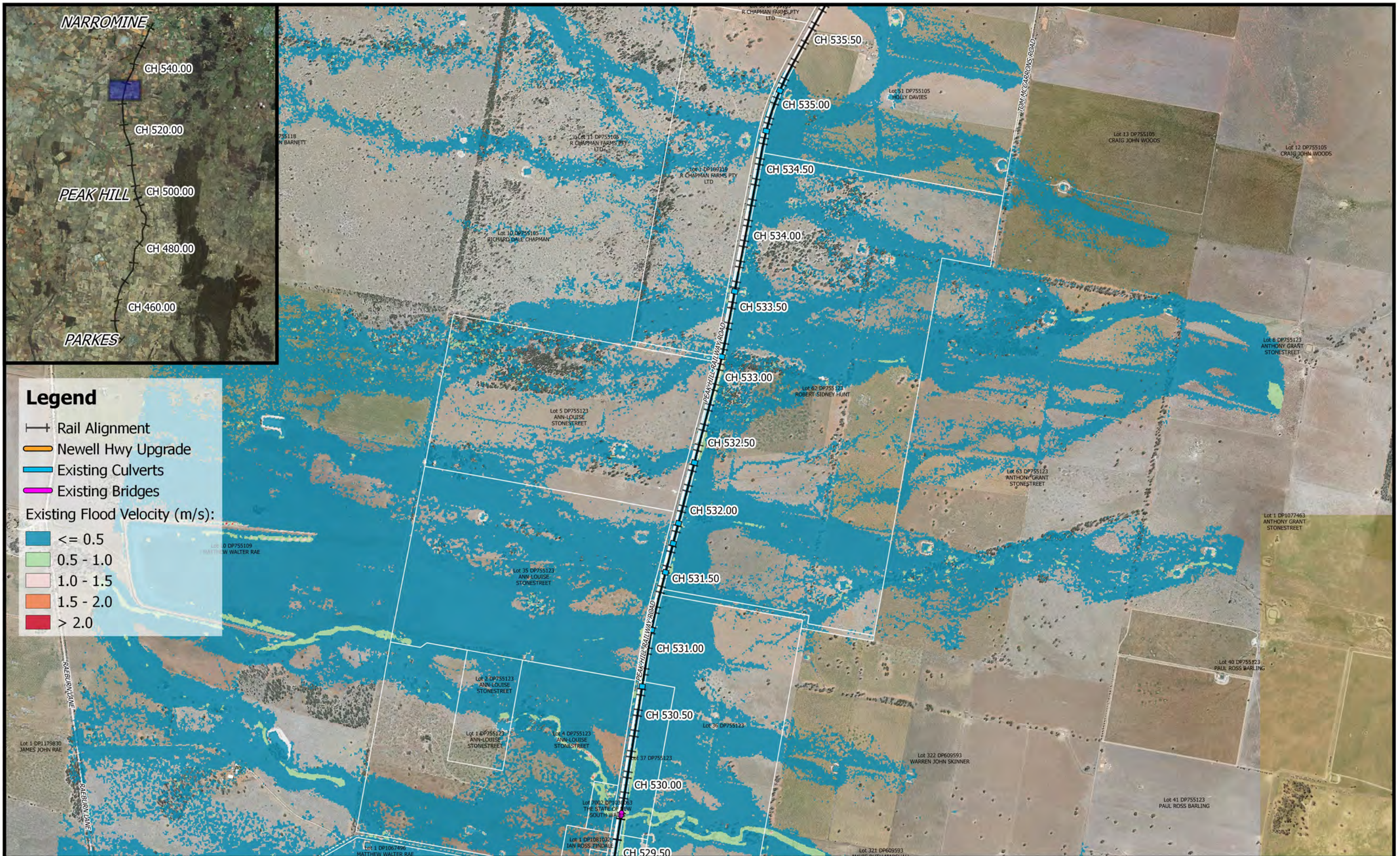
Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V20 39% AEP Existing Flood Velocity - CH 530.00</p>
	<p>Rev: A</p> <p>Prepared By: WhiteleyD</p>			



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0

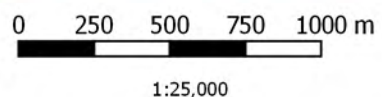
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX39V21
39% AEP Existing Flood Velocity - CH 533.00



Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3





Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: ≤ 0.5
- Light Green: 0.5 - 1.0
- Light Orange: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

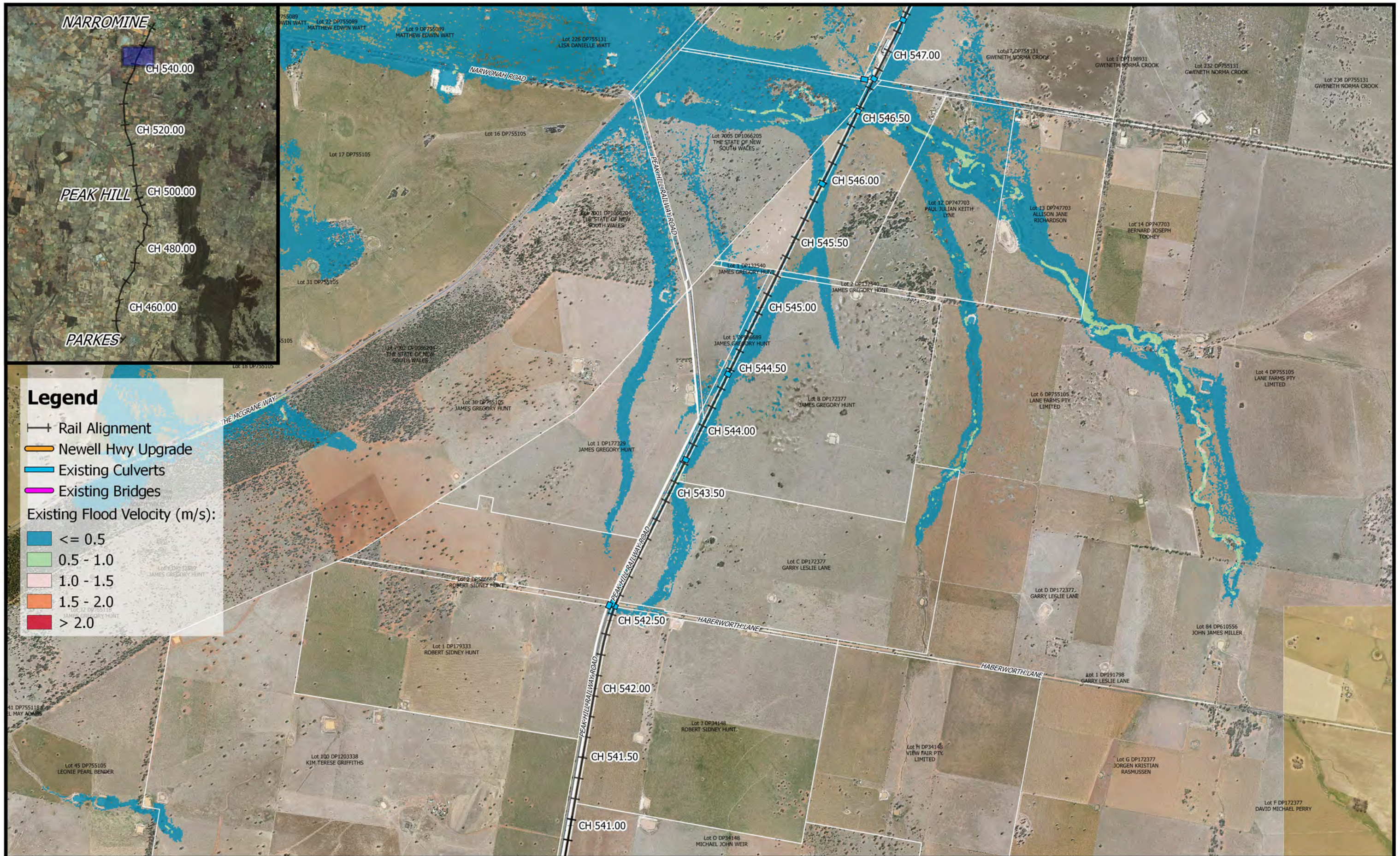
	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V22 39% AEP Existing Flood Velocity - CH 535.00</p>
	Rev: A		Prepared By: WhiteleyD	



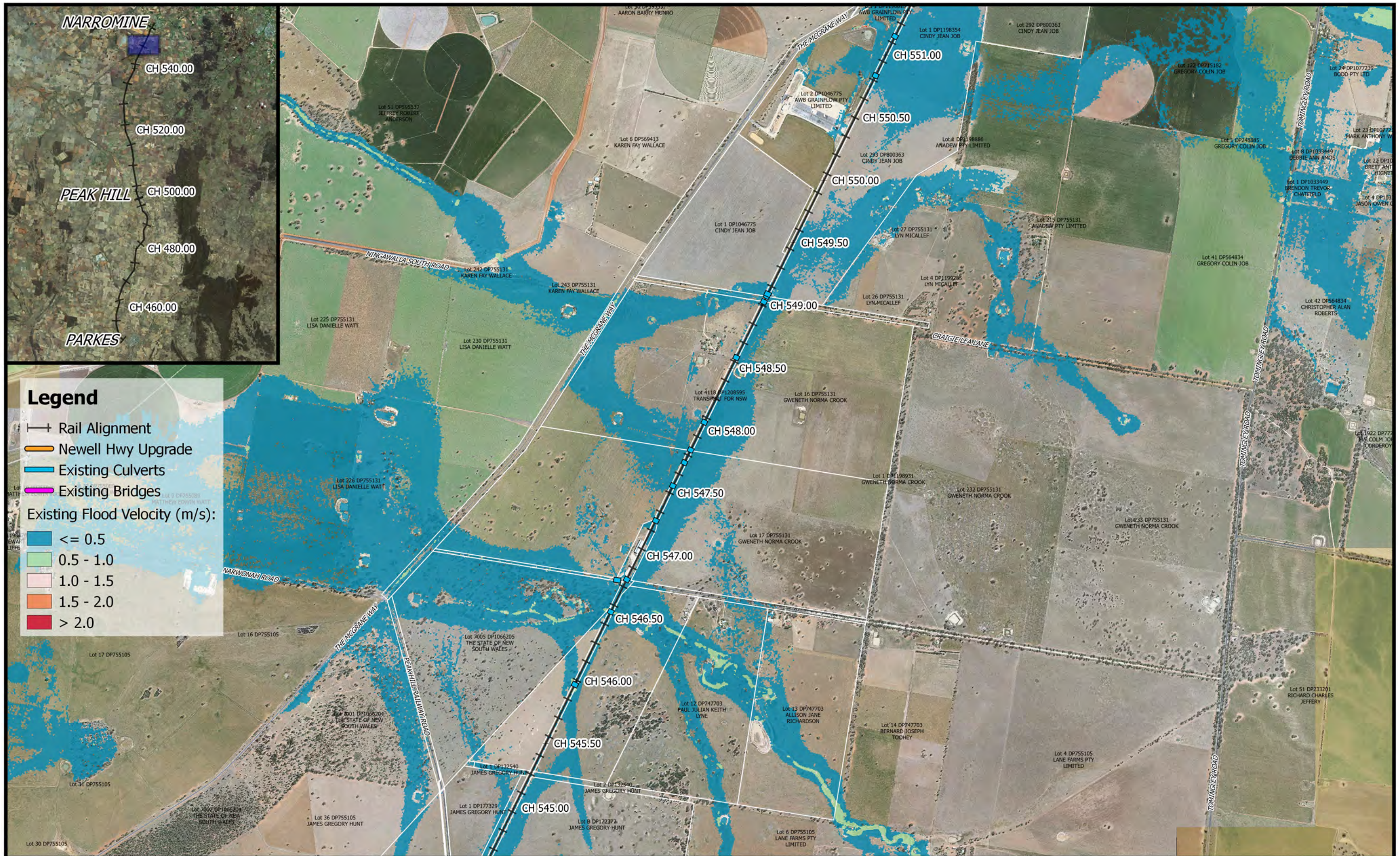
Legend

- Rail Alignment
 - Newell Hwy Upgrade
 - Existing Culverts
 - Existing Bridges
- Existing Flood Velocity (m/s):
- <= 0.5
 - 0.5 - 1.0
 - 1.0 - 1.5
 - 1.5 - 2.0
 - > 2.0

	<p>1:25,000</p>		Date: 9/7/2018	<p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX39V23 <i>39% AEP Existing Flood Velocity - CH 540.00</i></p>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			



	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 9/7/2018	<p align="center">Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure EX39V24 39% AEP Existing Flood Velocity - CH 545.00</p>
	Rev: A			
	Prepared By: WhiteleyD			



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Yellow: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 2.0

	 1:25,000		Date: 9/7/2018	Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX39V25 <i>39% AEP Existing Flood Velocity - CH 550.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: WhiteleyD			