

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



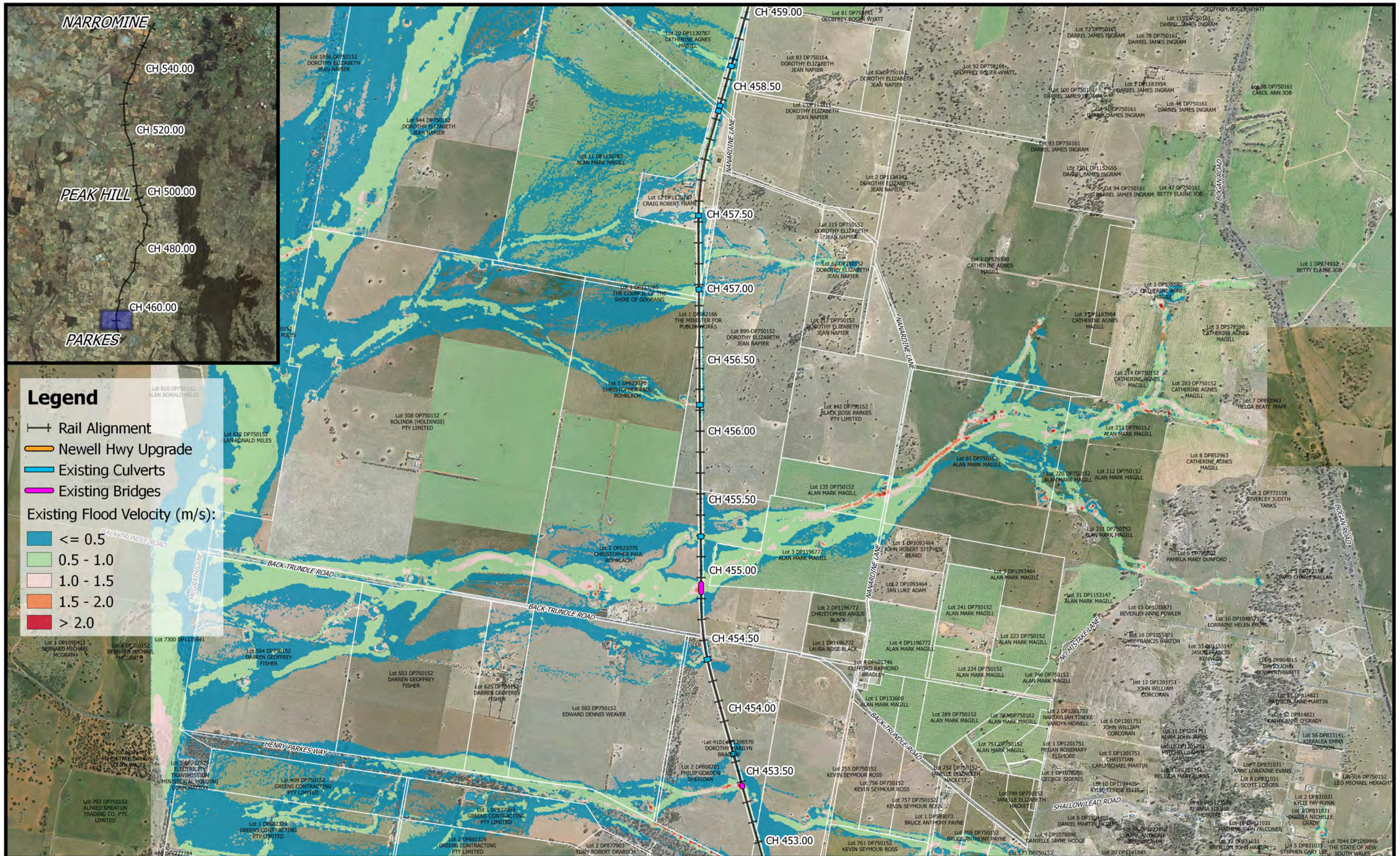
Date: 18/10/2018

Rev: B

Prepared By: YeohM

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

Figure EX10V1
10% 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



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 EX10V2
10% 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



0 250 500 750 1000 m

1:25,000

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



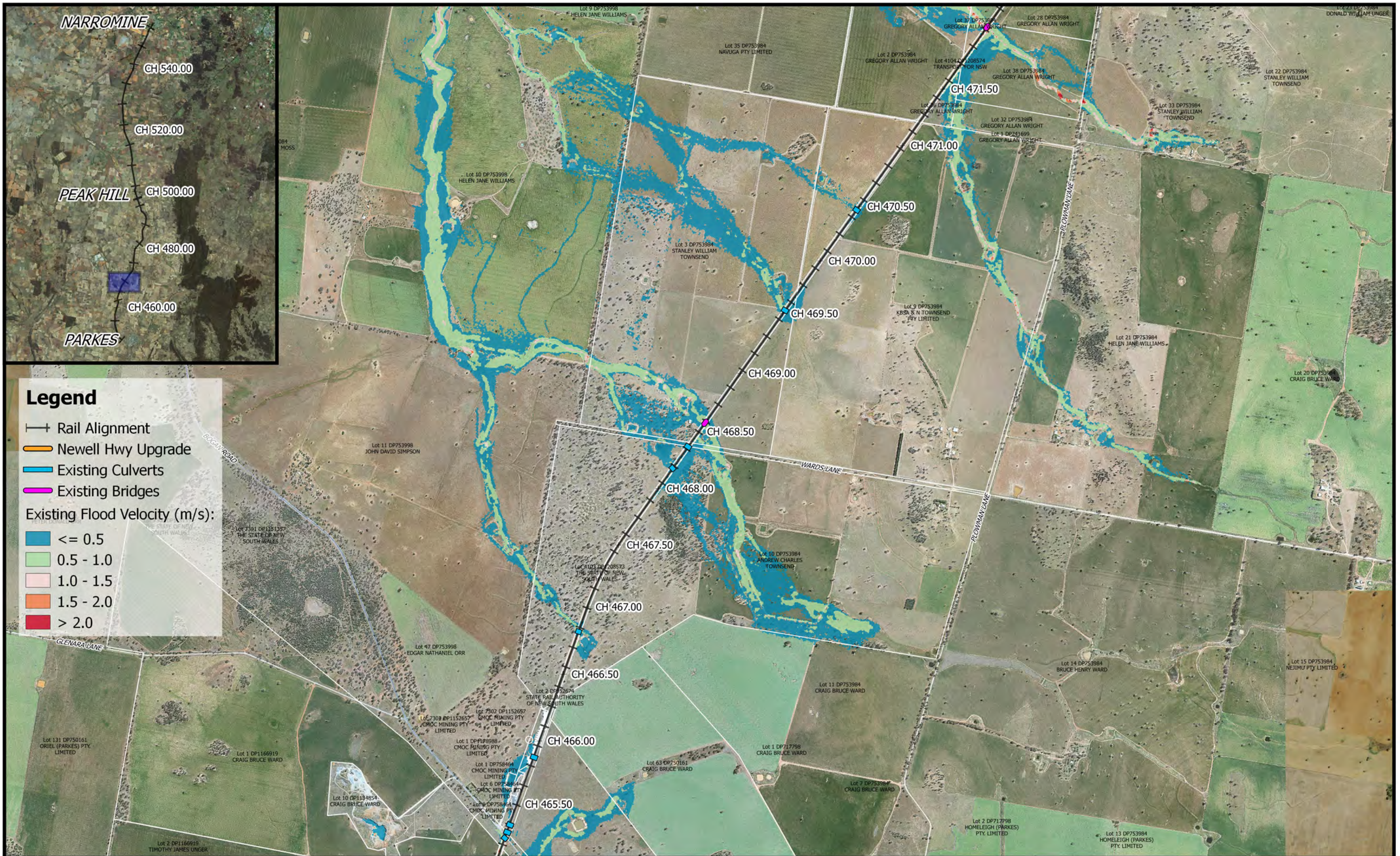
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

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

Figure EX10V4
10% AEP Existing Flood Velocity - CH 465.00



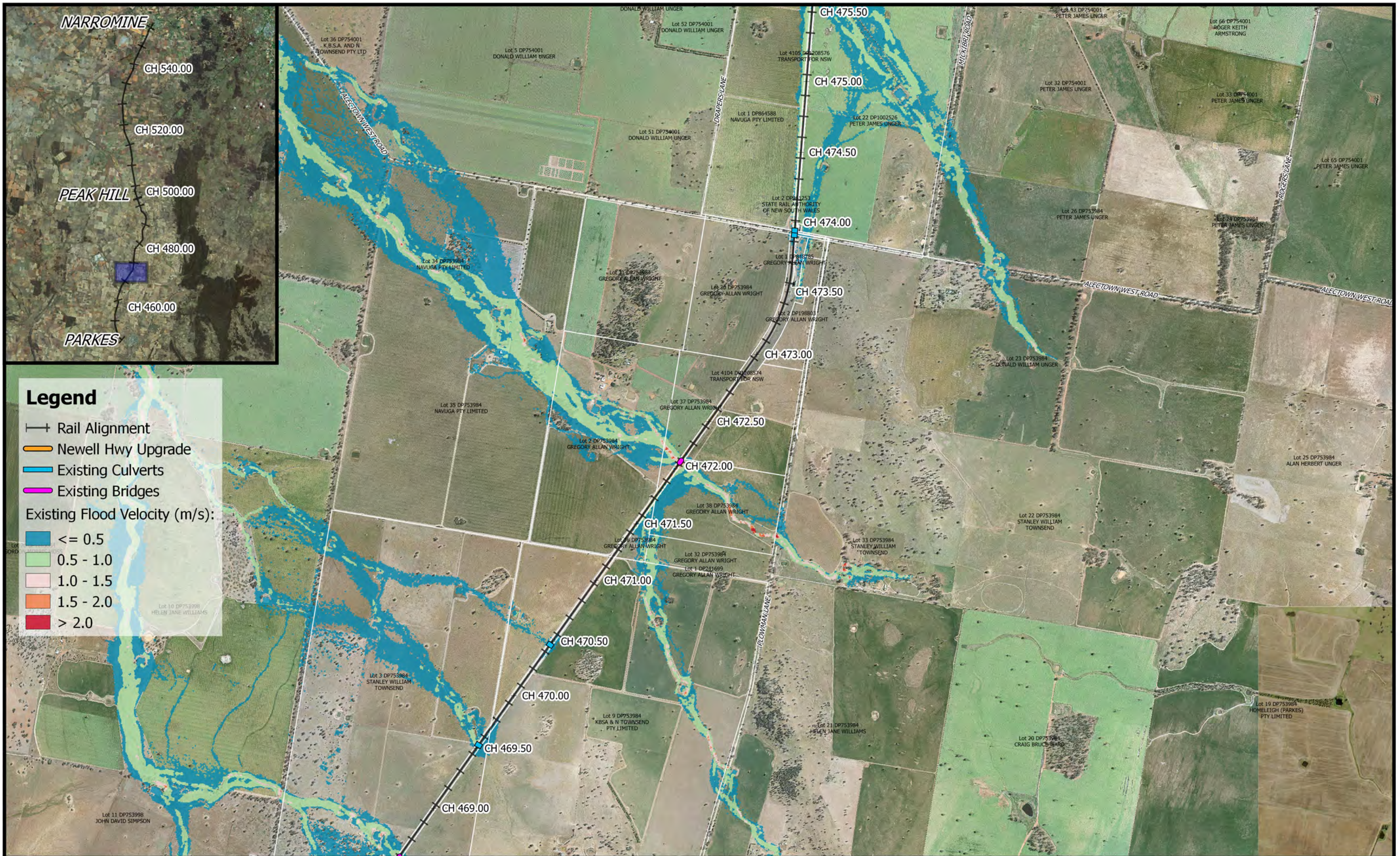
Legend

- +— 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

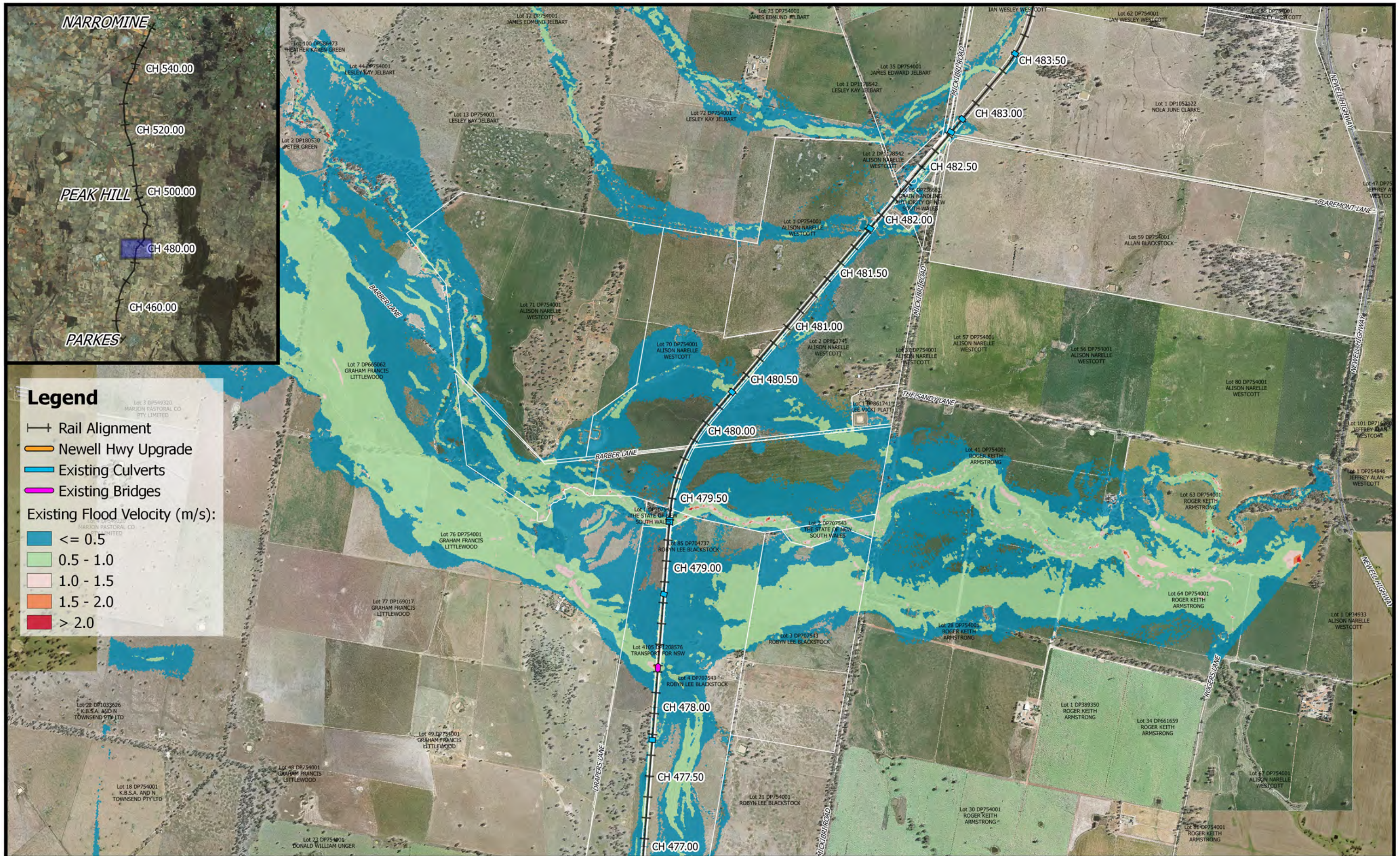
| | | | | |
|--|---|--|----------------|--|
| | <p>1:25,000</p> | | Date: 9/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10V5 <i>10% AEP Existing Flood Velocity - CH 470.00</i></p> |
| | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct 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>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10V6 10% AEP Existing Flood Velocity - CH 472.00</p> |
| | | | 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 EX10V7 10% AEP Existing Flood Velocity - CH 475.00</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

| | | | | |
|--|---|--|----------------|---|
| | 1:25,000 | | Date: 9/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX10V8 <i>10% AEP Existing Flood Velocity - CH 480.00</i> |
| | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 | | Rev: A | |
| | Prepared By: WhiteleyD | | | |



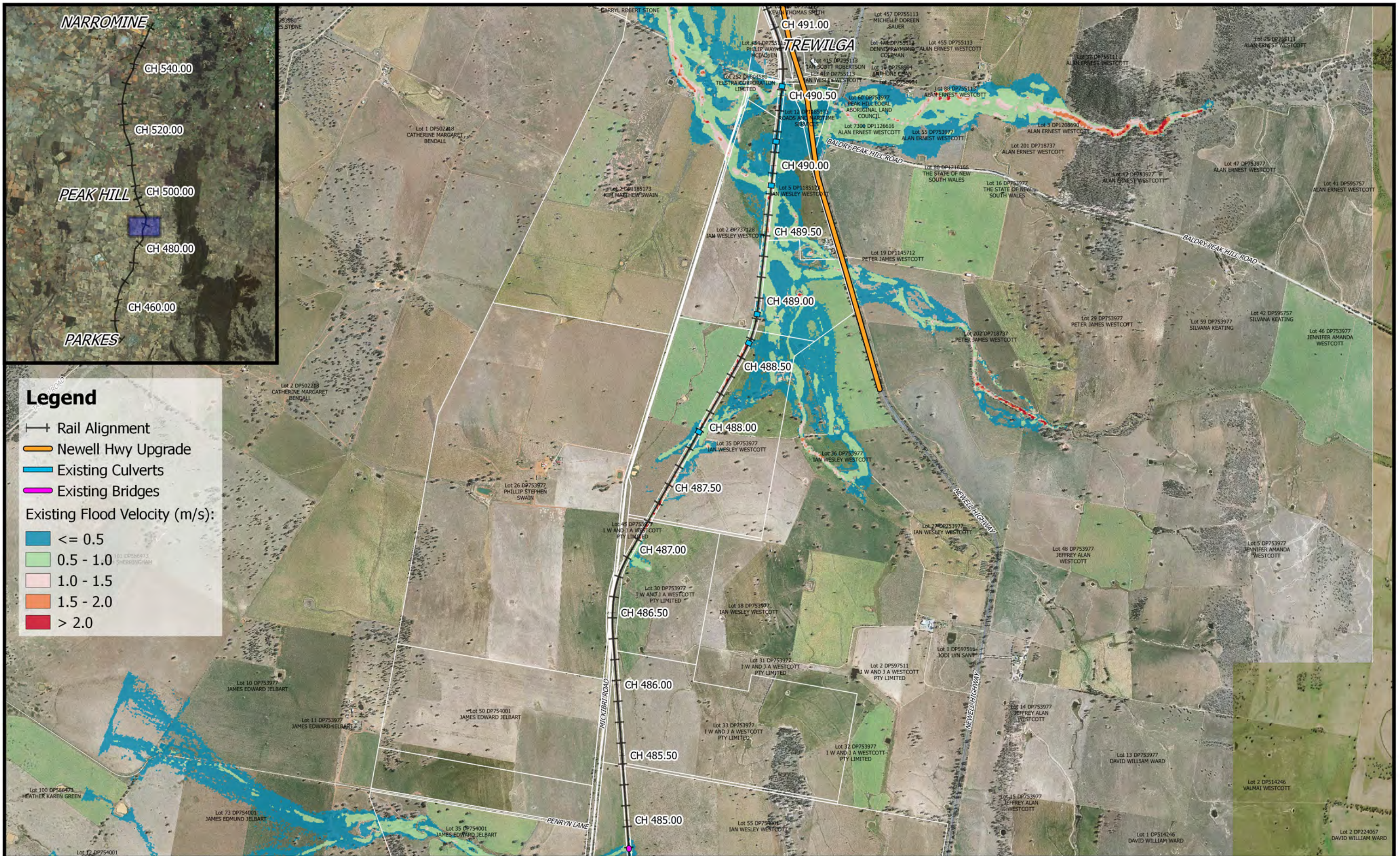
Legend

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

Existing Flood Velocity (m/s):

- Blue: <= 0.5
- Light Green: 0.5 - 1.0
- Pink: 1.0 - 1.5
- Orange: 1.5 - 2.0
- Red: > 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 EX10V9 10% AEP Existing Flood Velocity - CH 485.00</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



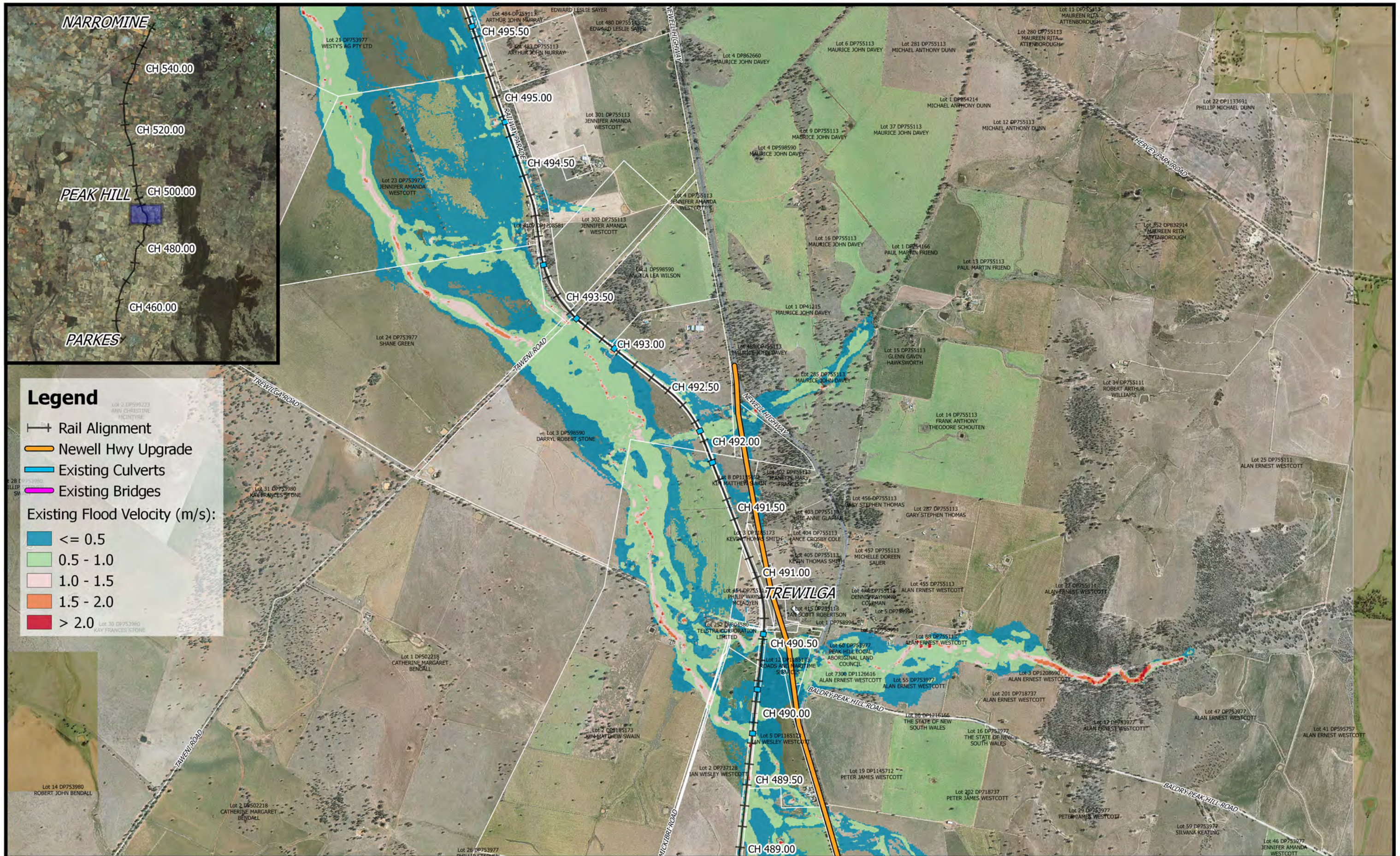
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

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

Figure EX10V10
10% 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



0 250 500 750 1000 m

1:25,000

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



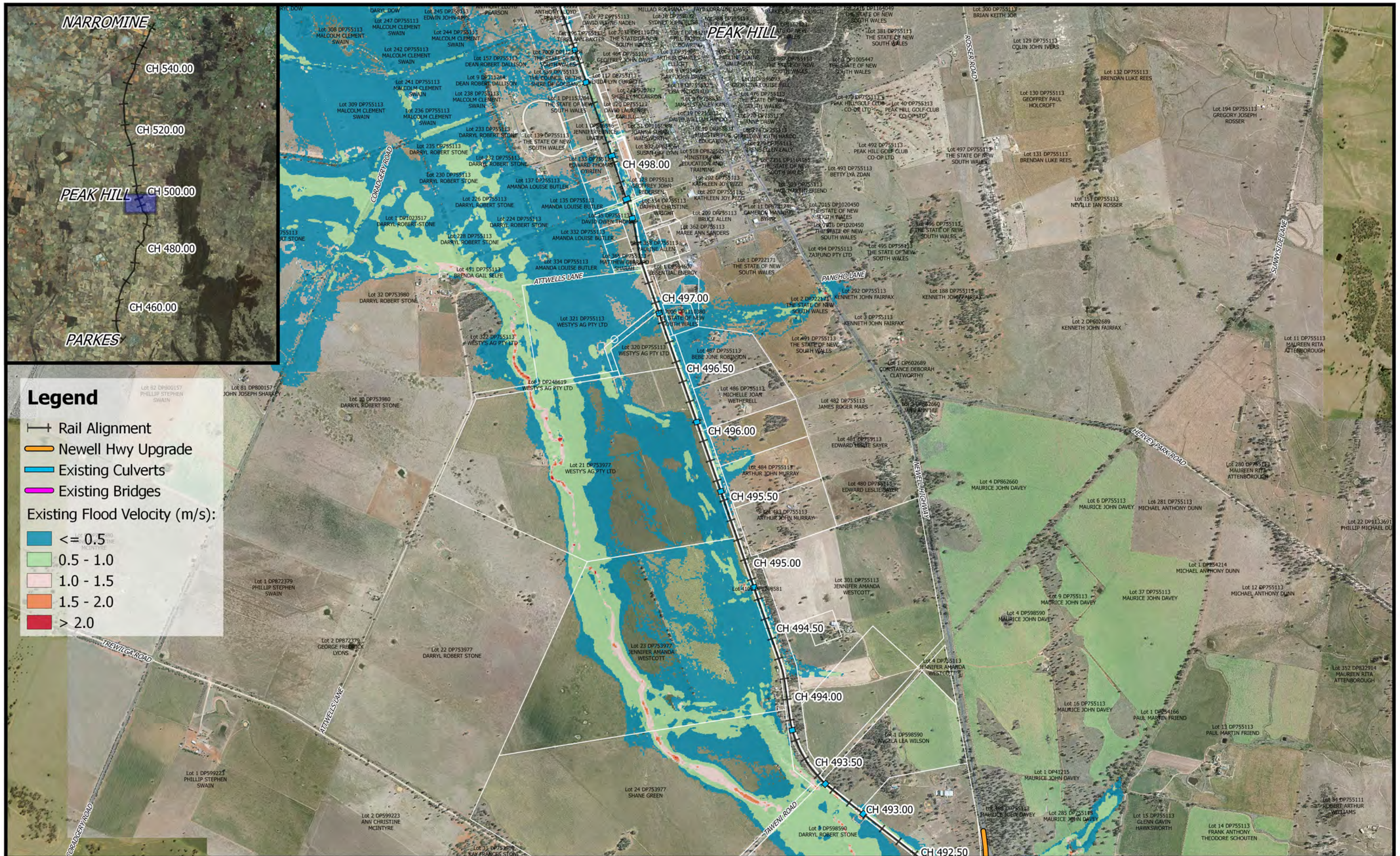
Date: 9/7/2018

Rev: A

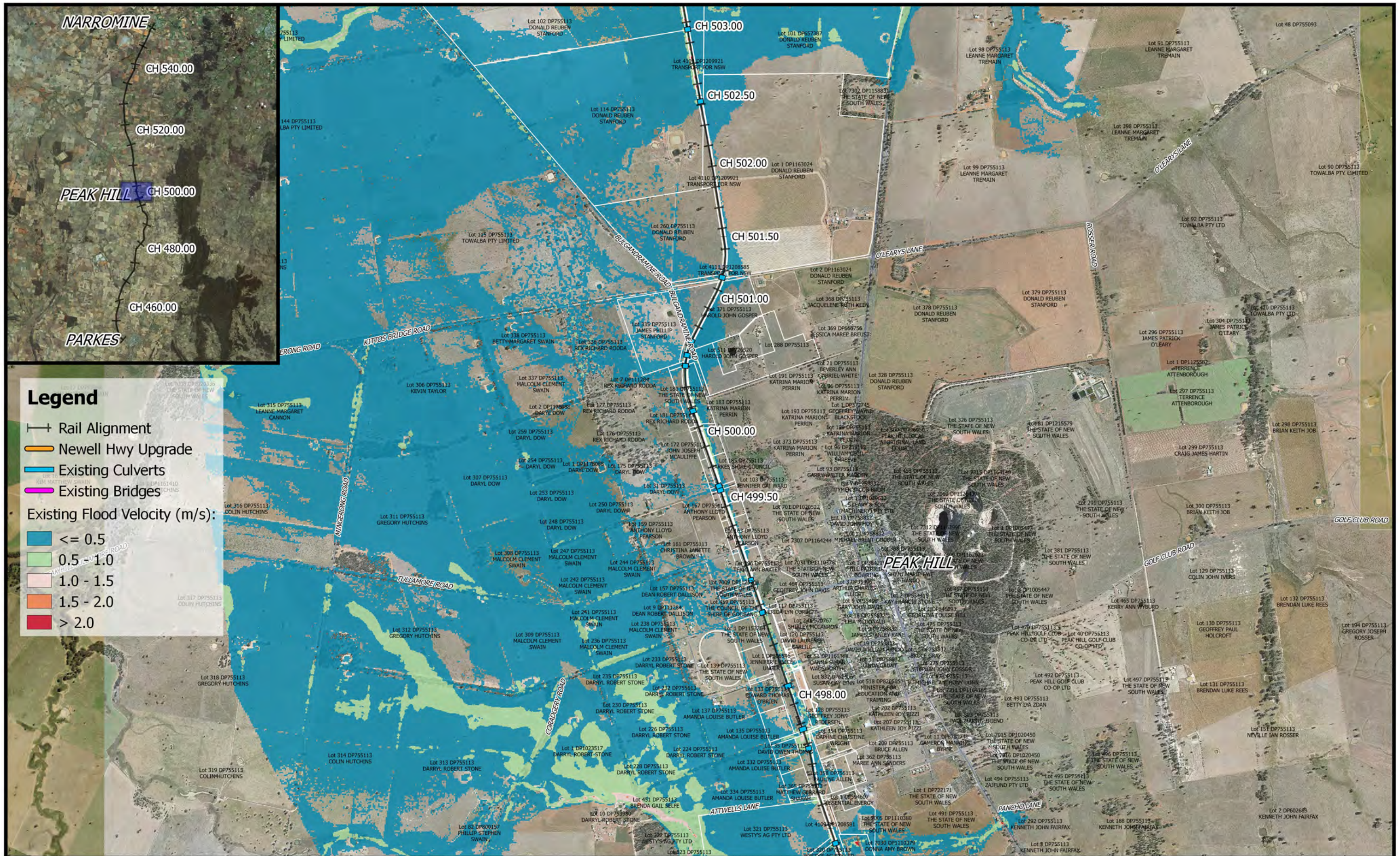
Prepared By: WhiteleyD

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

Figure EX10V11
10% AEP Existing Flood Velocity - CH 492.00



| | | | | |
|--|---|--|----------------|---|
| | 1:25,000 | | Date: 9/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX10V12 10% AEP Existing Flood Velocity - CH 495.00 |
| | 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



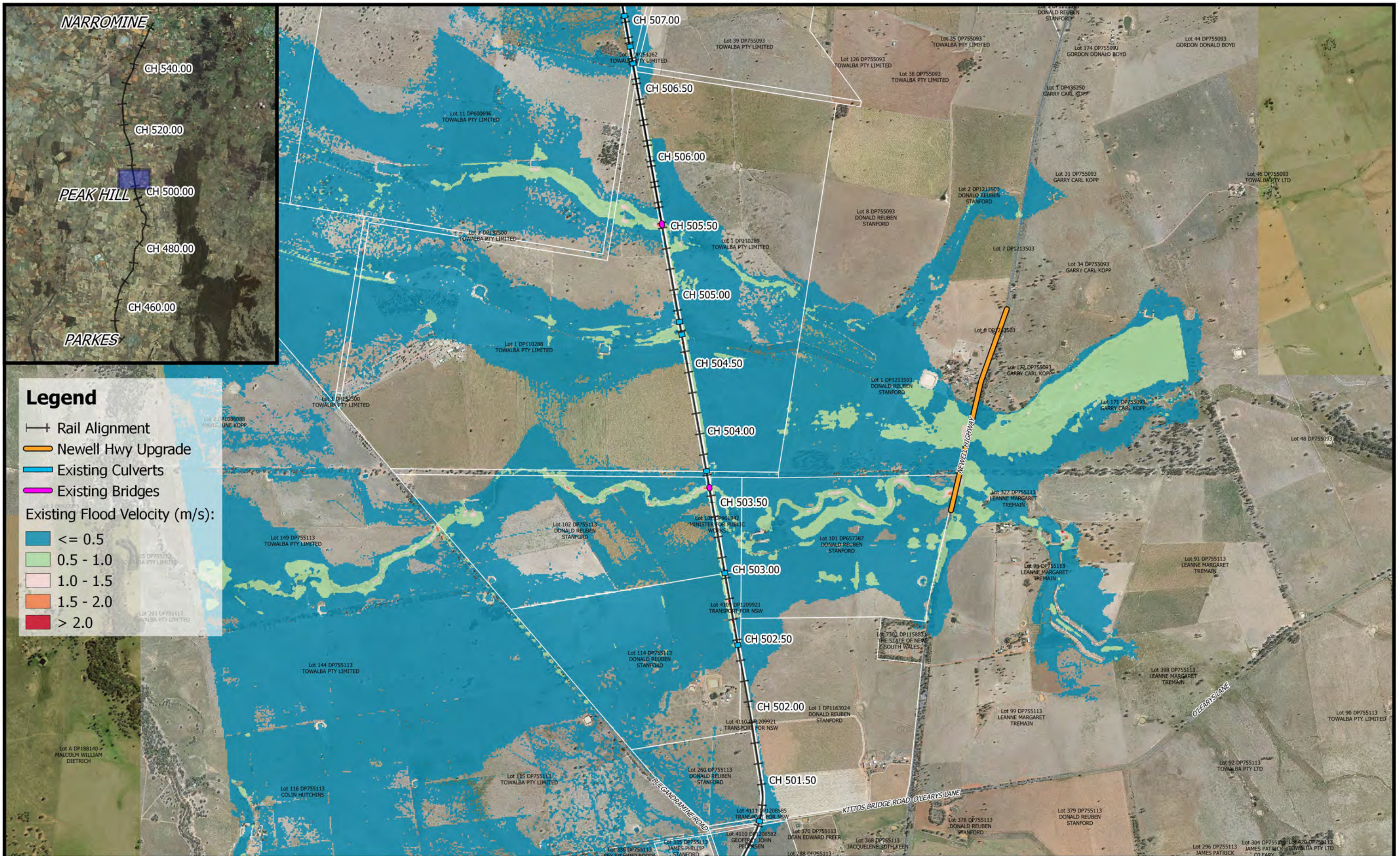
Date: 9/7/2018

Rev: A

Prepared By: WhiteleyD

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

Figure EX10V13
10% AEP Existing Flood Velocity - CH 500.00



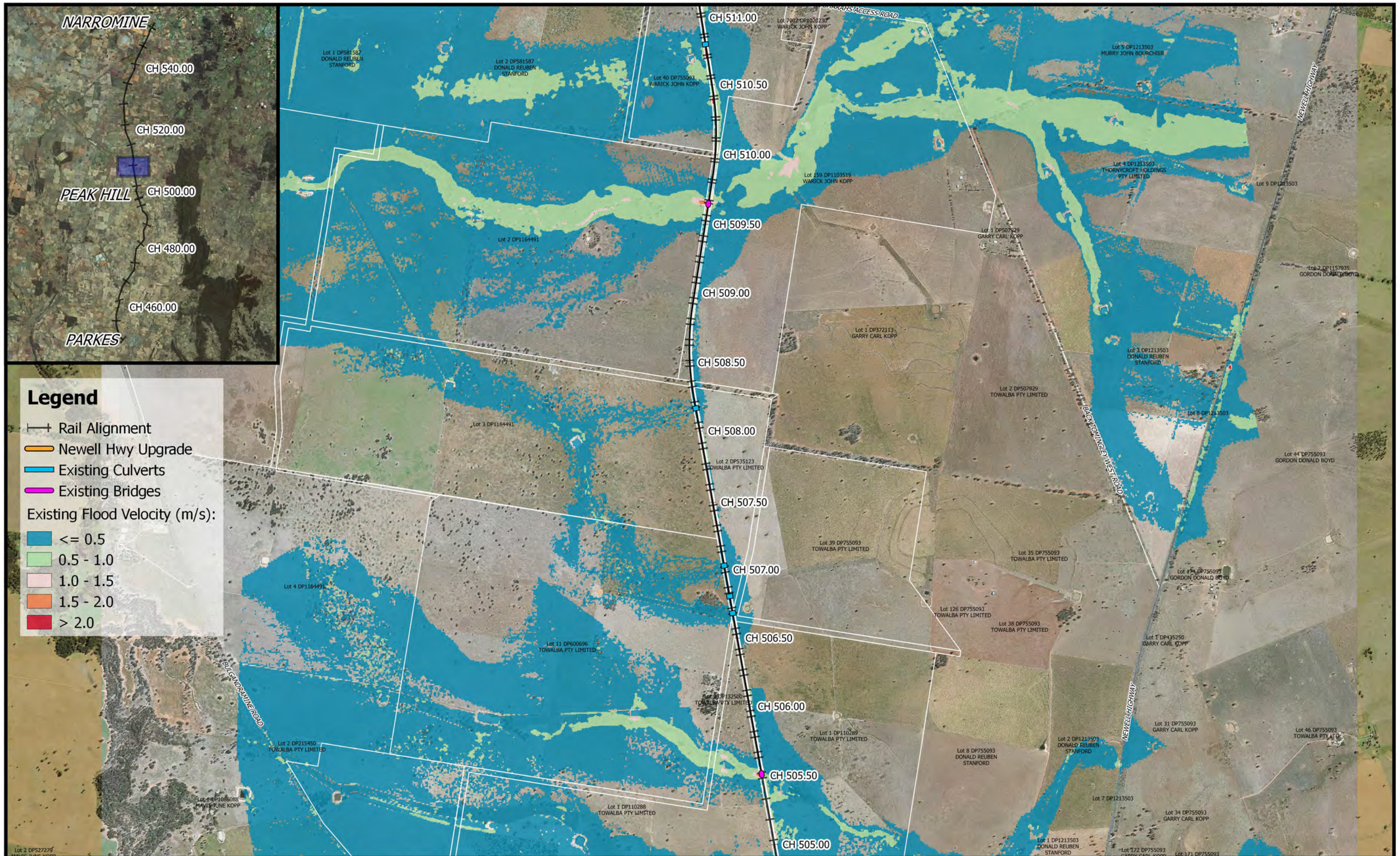
Legend

- 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

| | | | | |
|--|---|--|----------------|--|
| | <p>1:25,000</p> | | Date: 9/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10V14 10% AEP Existing Flood Velocity - CH 505.00</p> |
| | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 | | Rev: A | |
| | Prepared By: WhiteleyD | | | |



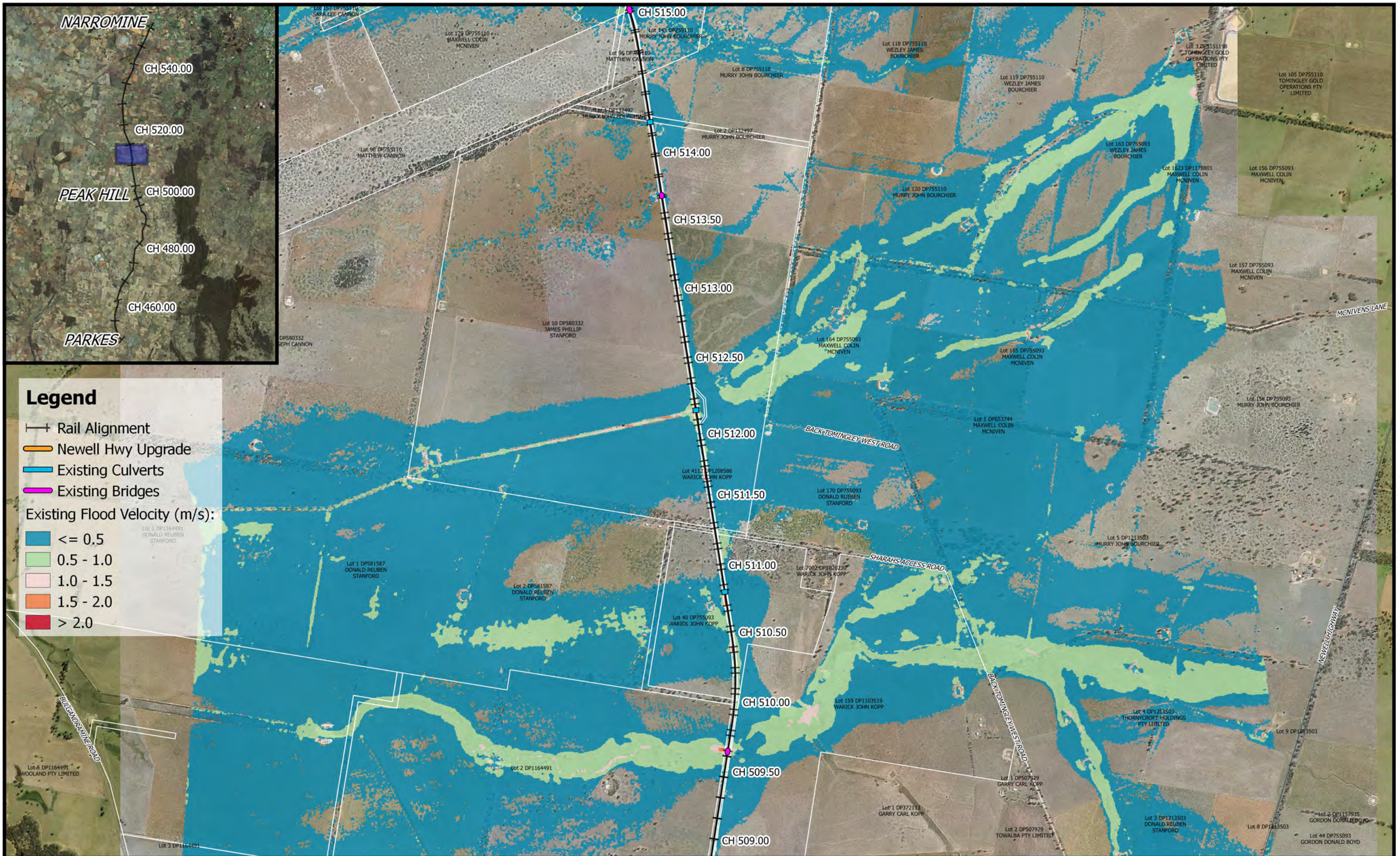
Legend

- 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

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



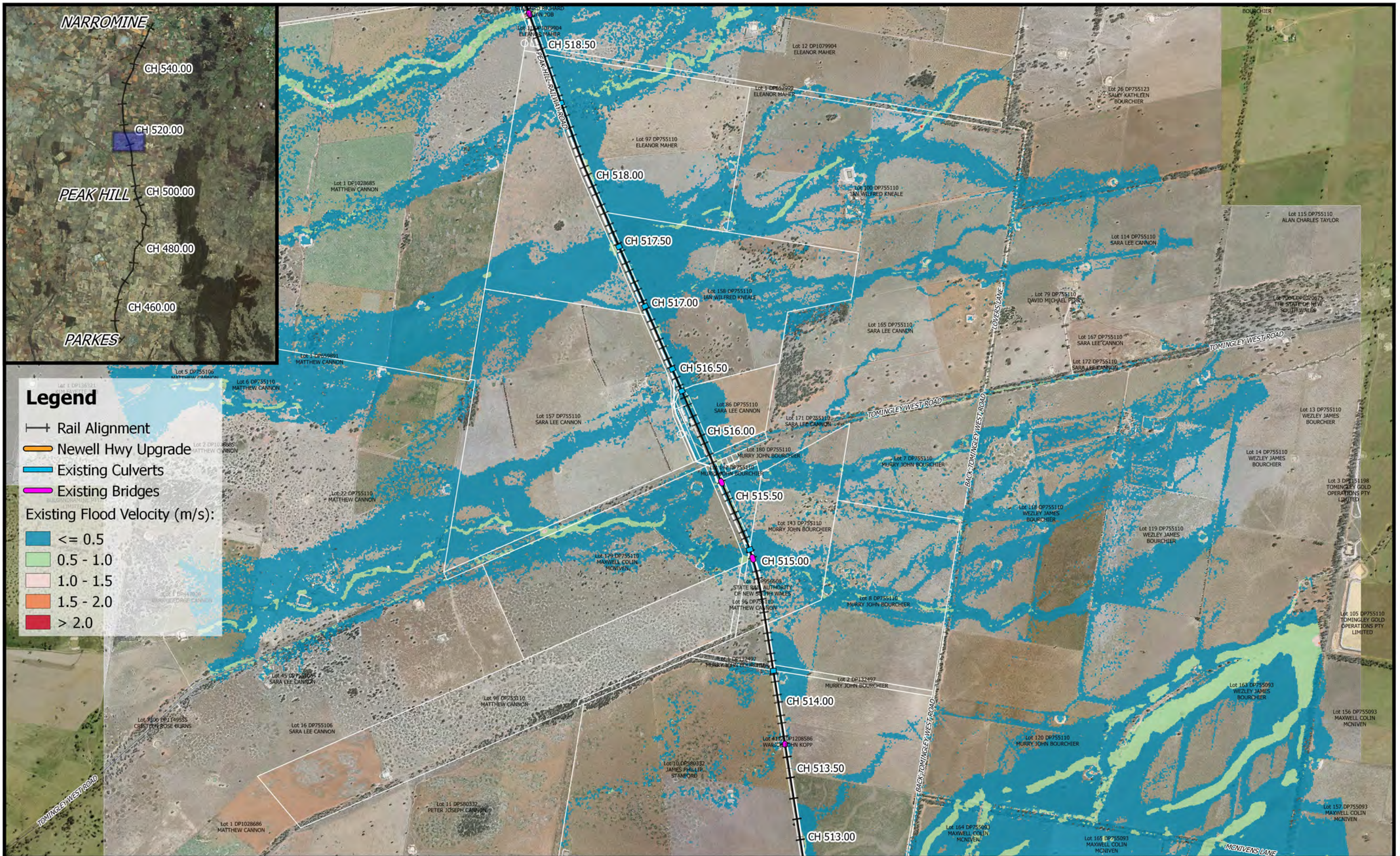
Legend

- +— 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

| | | | | |
|--|---|--|----------------|--|
| | 1:25,000 | | Date: 9/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX10V16 <i>10% 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 | | | |



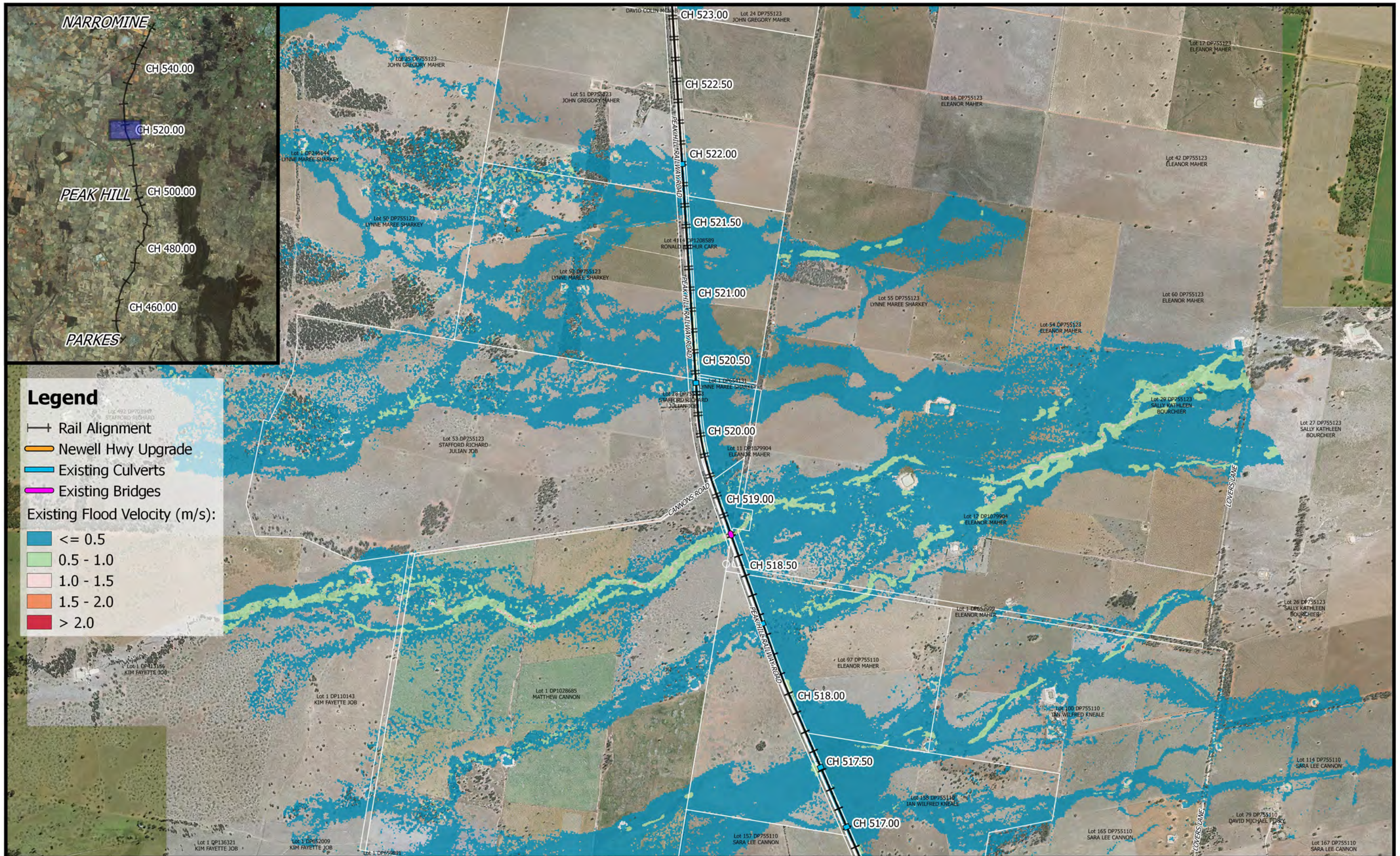
Legend

- 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

| | | | | |
|--|---|--|---|--|
| | <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> | | <p>Date: 9/7/2018</p> | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10V17 10% AEP Existing Flood Velocity - CH 515.00</p> |
| | | | <p>Rev: A</p> <p>Prepared By: WhiteleyD</p> | |



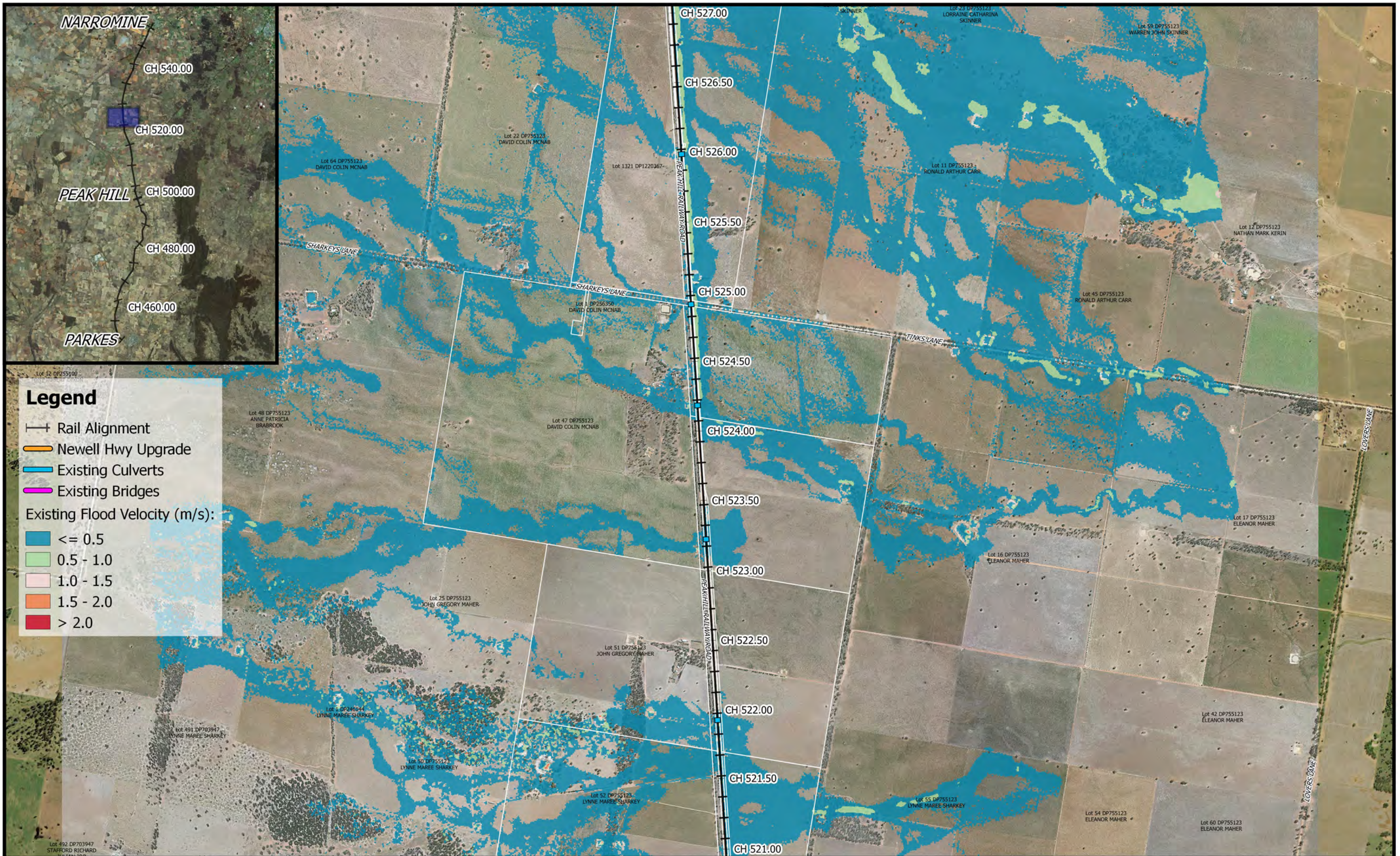
Legend

- 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

| | | | | |
|--|---|--|----------------|--|
| | <p>1:25,000</p> | | Date: 9/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10V18 10% AEP Existing Flood Velocity - CH 520.00</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



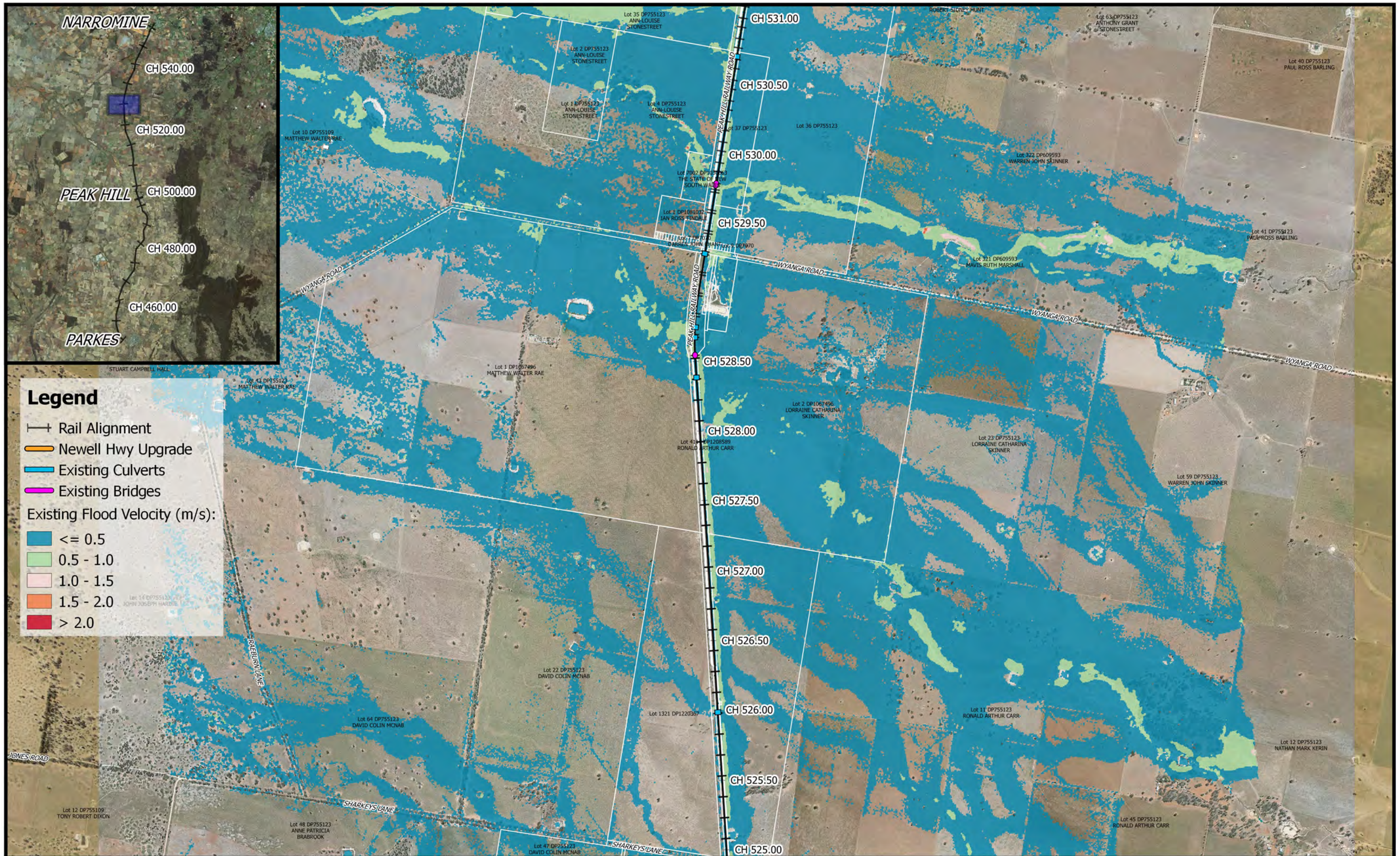
Date: 9/7/2018

Rev: A

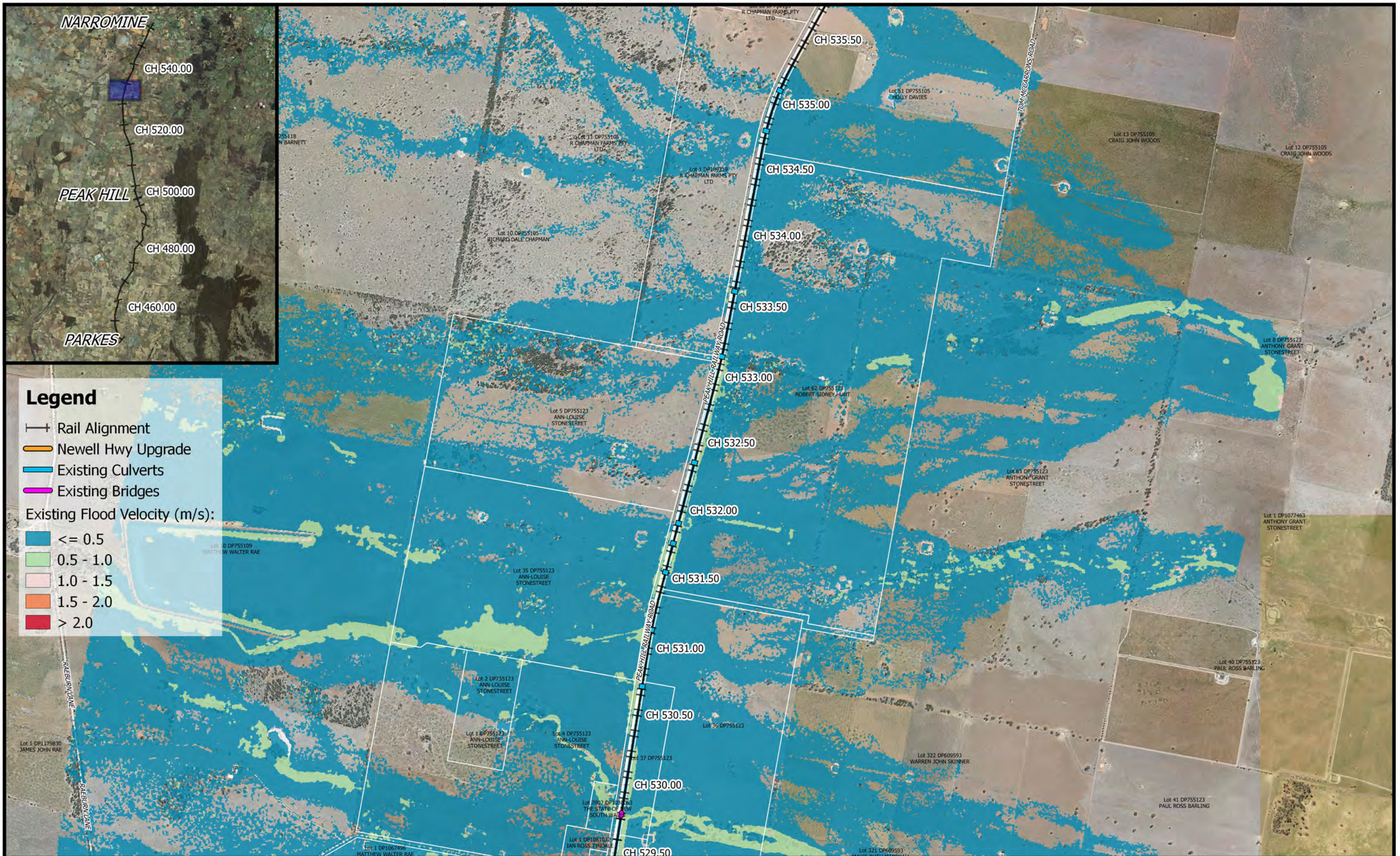
Prepared By: WhiteleyD

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

Figure EX10V19
10% AEP Existing Flood Velocity - CH 525.00



| | | | | |
|--|---|--|------------------------|---|
| | 0 250 500 750 1000 m 1:25,000 | | Date: 9/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results |
| | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 | | Rev: A | |
| | | | Prepared By: WhiteleyD | Figure EX10V20 10% AEP Existing Flood Velocity - CH 530.00 |



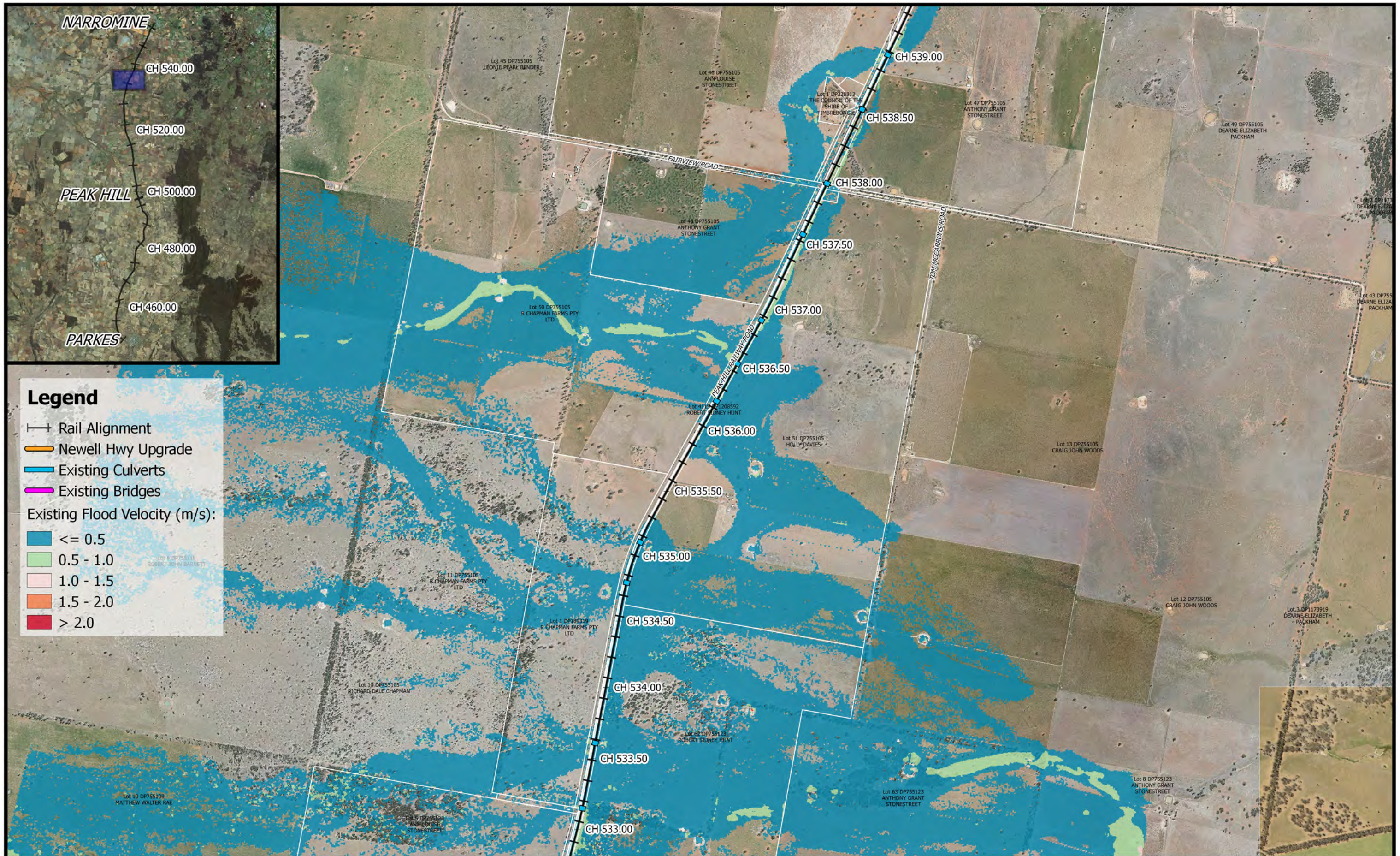
Legend

- +— 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>Date: 9/7/2018</p> | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10V21 10% AEP Existing Flood Velocity - CH 533.00</p> |
| | <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</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

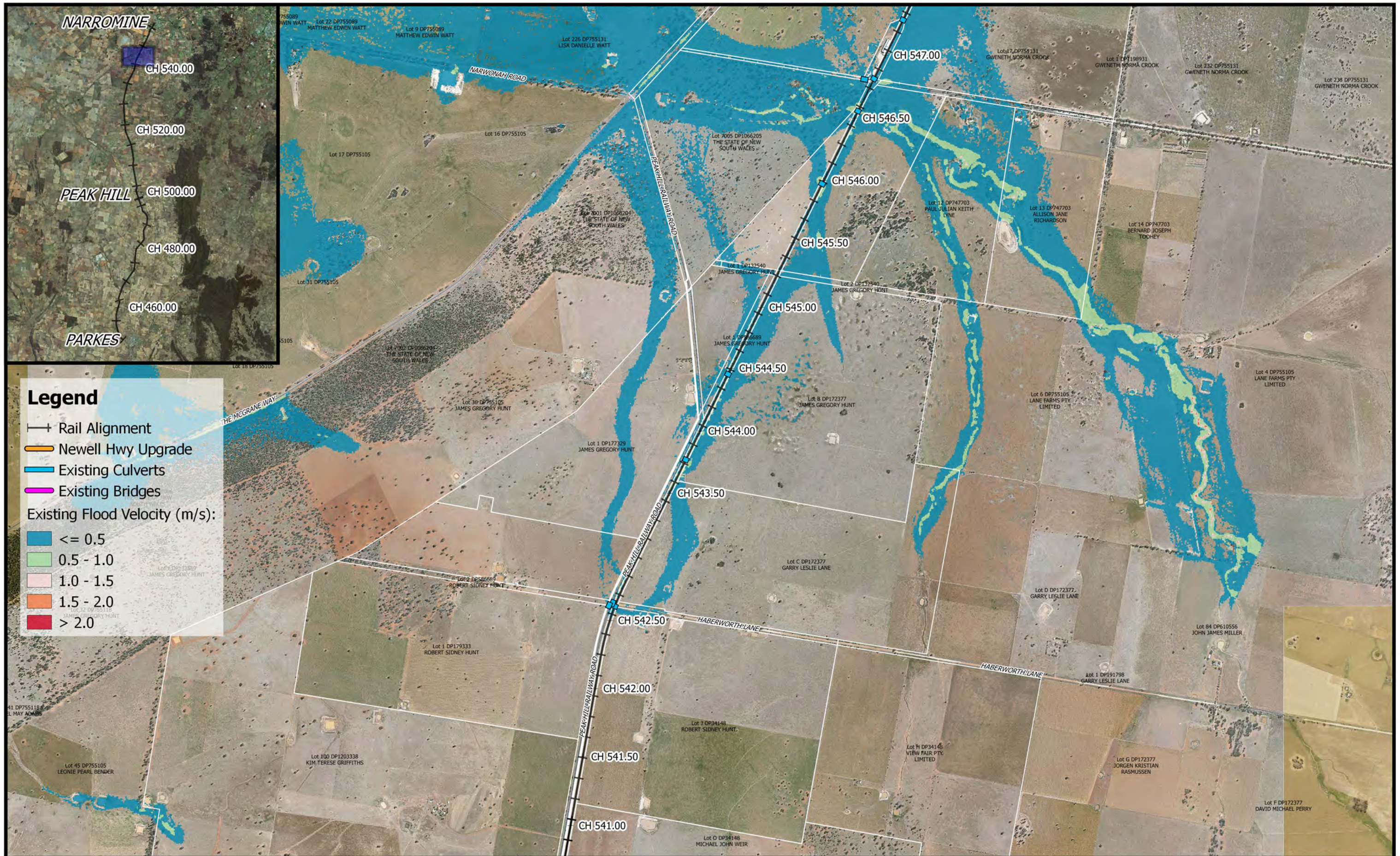
| | | | | |
|--|---|--|----------------|--|
| | 1:25,000 | | Date: 9/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX10V22 <i>10% AEP Existing Flood Velocity - CH 535.00</i> |
| | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at 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

| | | | | |
|--|---|--|----------------|---|
| | <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 EX10V23 <i>10% AEP Existing Flood Velocity - CH 540.00</i></p> |
| | Rev: A | | | |
| | Prepared By: WhiteleyD | | | |



| | | | | |
|--|---|--|------------------------|---|
| | <p>1:25,000</p> | | Date: 9/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results |
| | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 | | Rev: A | |
| | | | Prepared By: WhiteleyD | Figure EX10V24 <i>10% AEP Existing Flood Velocity - CH 545.00</i> |

