

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 Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24



0 250 500 750 1000 m

1:25,000

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



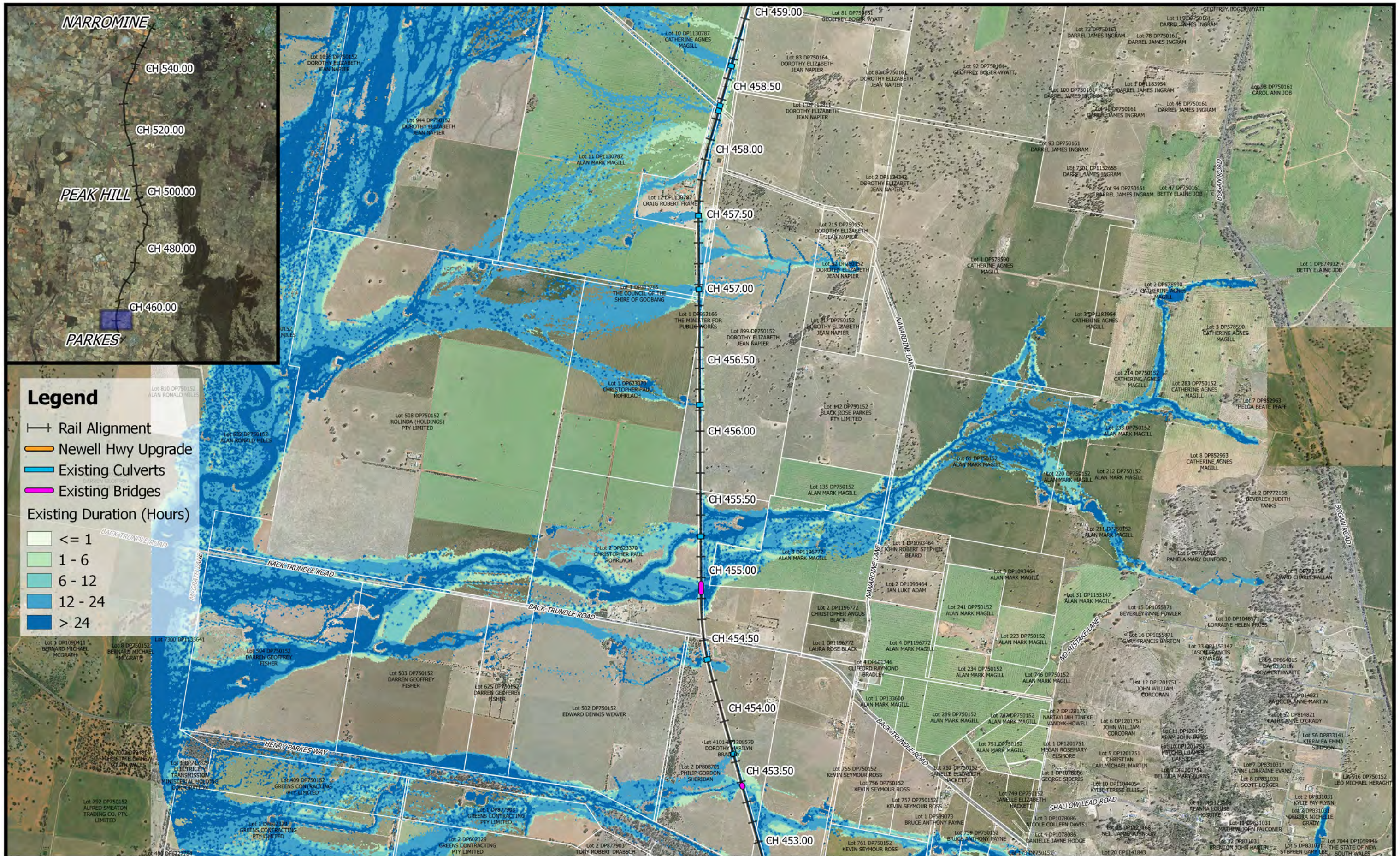
Date: 18/10/2018

Rev: B

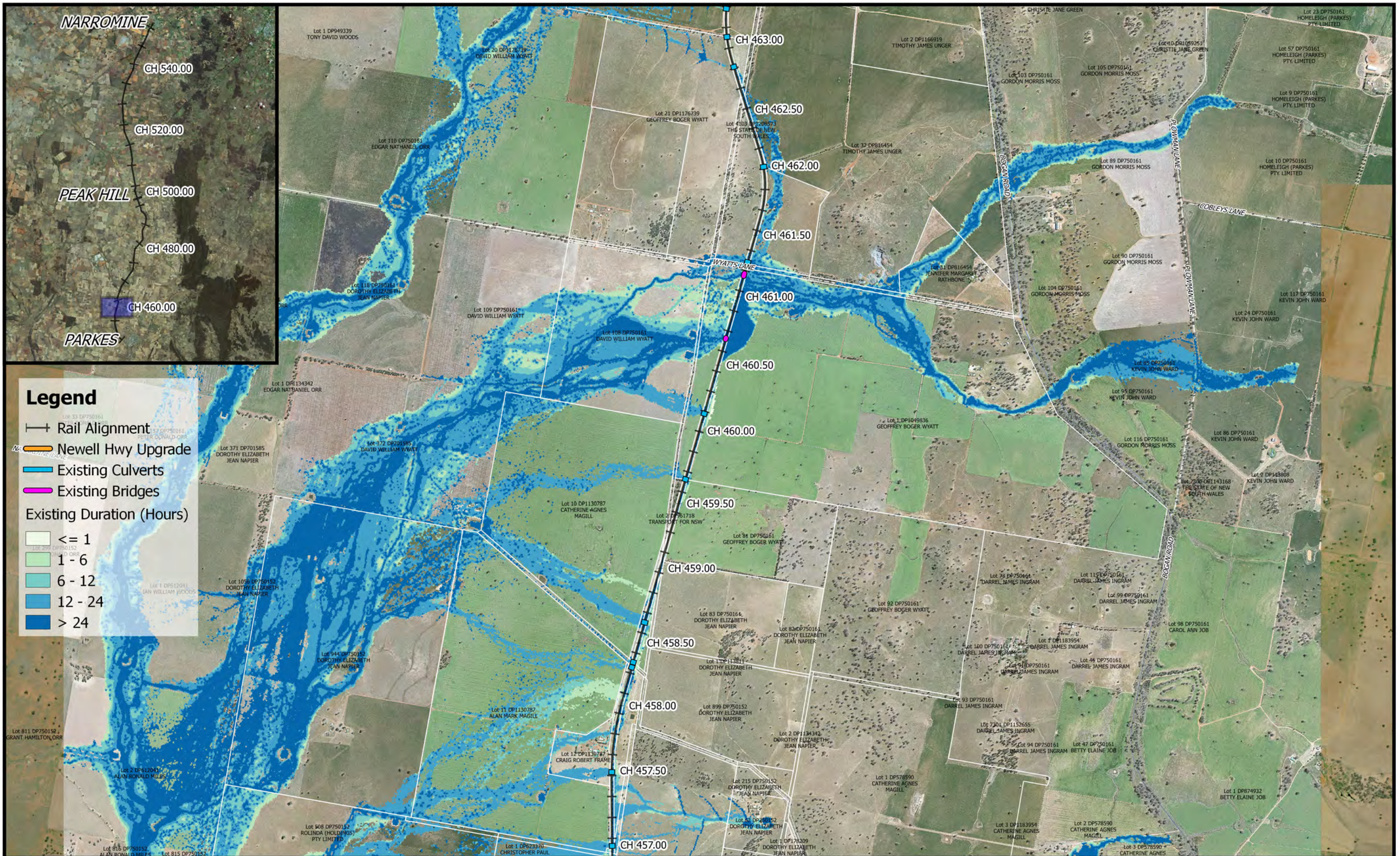
Prepared By: YeohM

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

Figure EX10D1
10% AEP Existing Flood Duration - CH 450.00



| | | | | |
|--|---|--|--------------------|---|
| | <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 EX10D2 10% AEP Existing Flood Duration - CH 455.00</p> |
| | | | Rev: B | |
| | | | Prepared By: YeohM | |



Legend

- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges
- Existing Duration (Hours)**
- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

Date: 12/7/2018

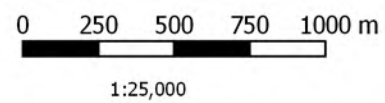
Rev: A

Prepared By: WhiteleyD

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

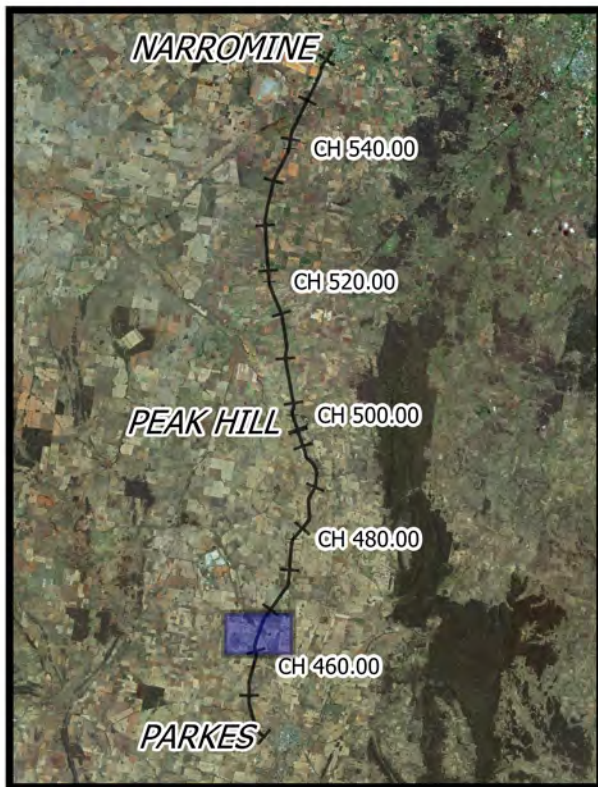
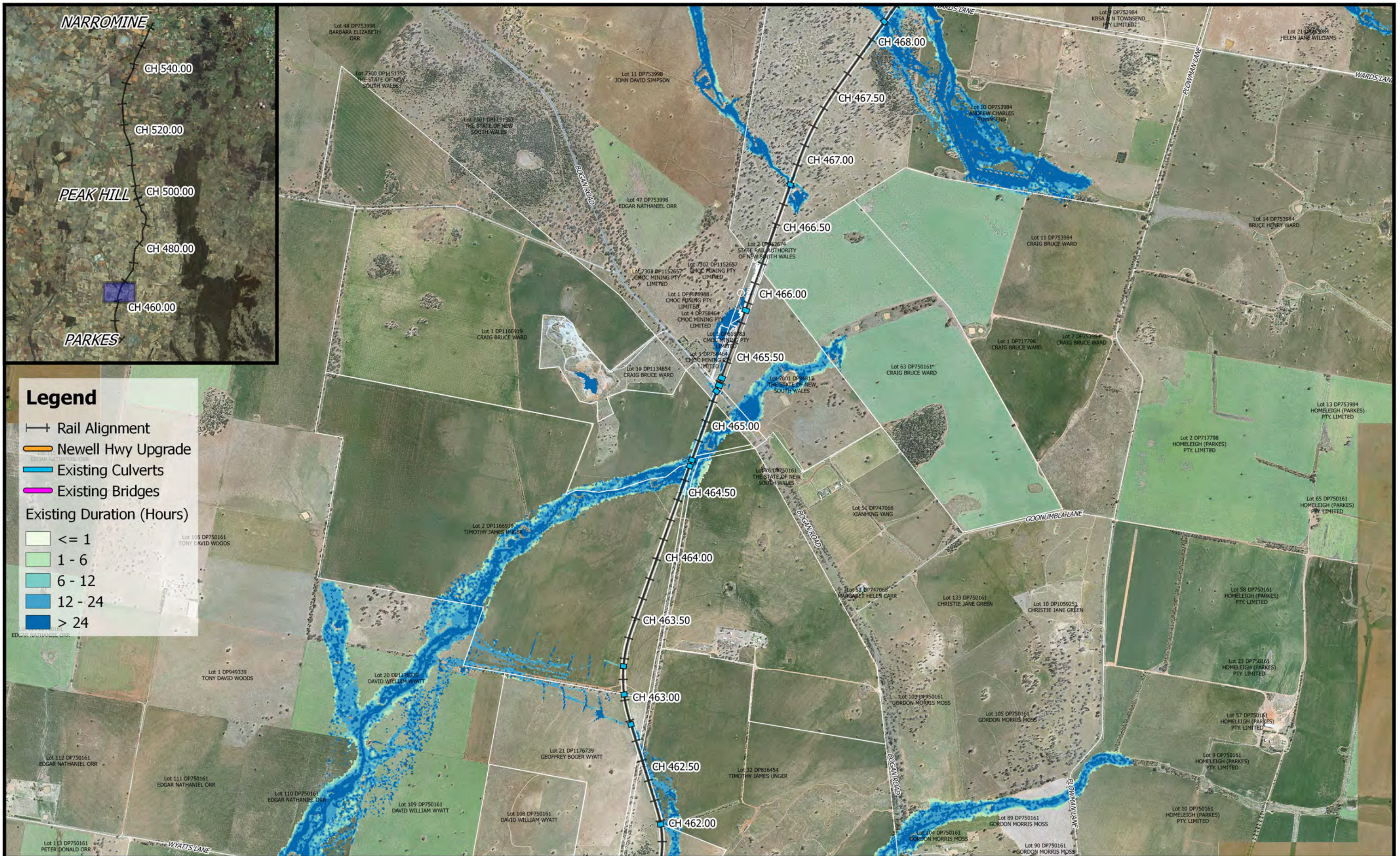
Figure EX10D3

10% AEP Existing Flood Duration - CH 460.00



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



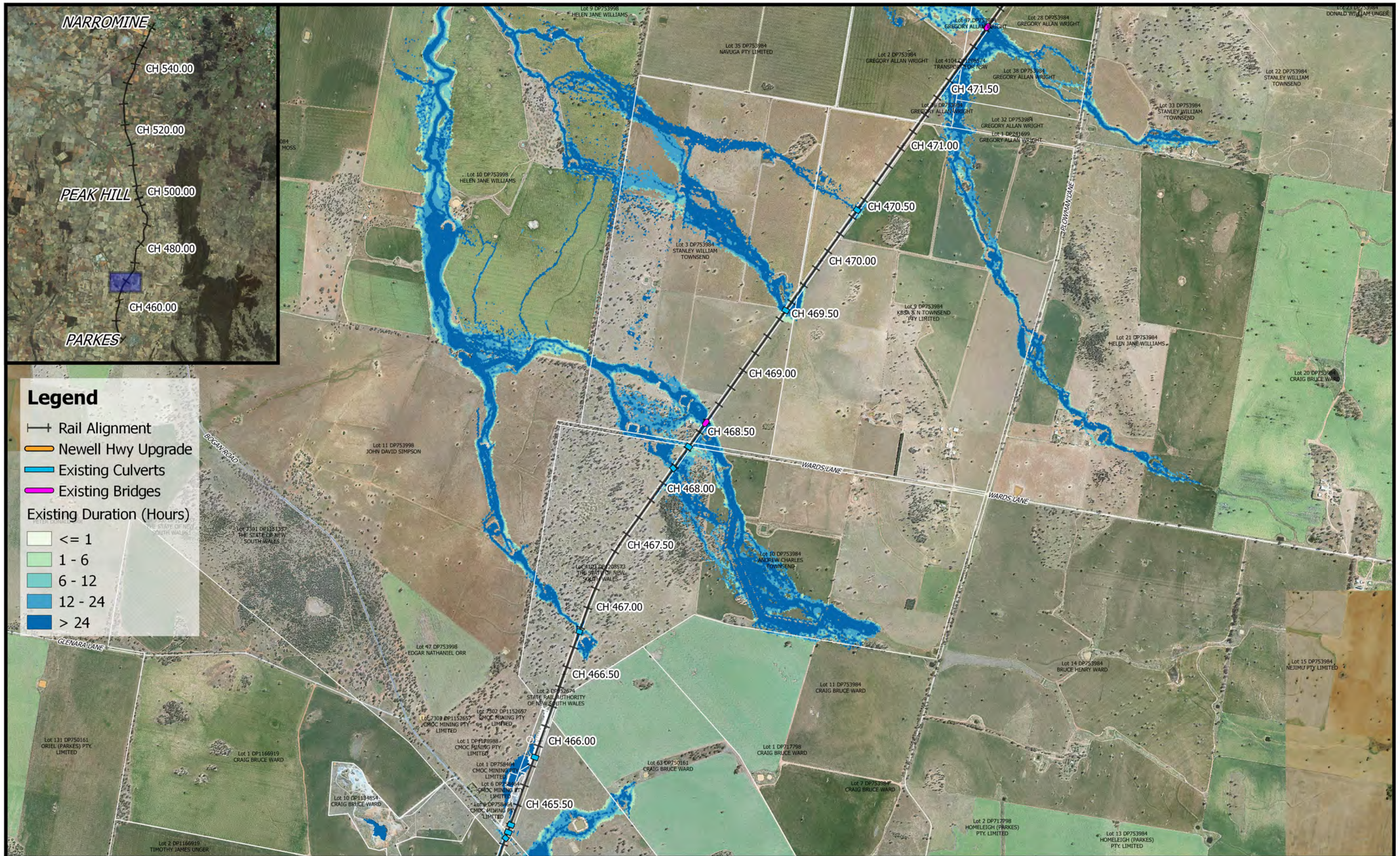


Legend

- Rail Alignment
 - Newell Hwy Upgrade
 - Existing Culverts
 - Existing Bridges
- Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|---|
| | <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: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D4 10% AEP Existing Flood Duration - CH 465.00</p> |
| | Rev: A | | | |
| | Prepared By: WhiteleyD | | | |



Legend

- Rail Alignment
 - Newell Hwy Upgrade
 - Existing Culverts
 - Existing Bridges
- Existing Duration (Hours)
- <= 1
 - 1 - 6
 - 6 - 12
 - 12 - 24
 - > 24

| | | | | |
|--|---|--|-----------------|---|
| | <p>1:25,000</p> | | Date: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D5 10% AEP Existing Flood Duration - CH 470.00</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 Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|--|
| | <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: 12/7/2018 | <p>Parkes to Narromine</p> <p>DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D6</p> <p><i>10% AEP Existing Flood Duration - CH 472.00</i></p> |
| | Rev: A | | | |
| | Prepared By: WhiteleyD | | | |



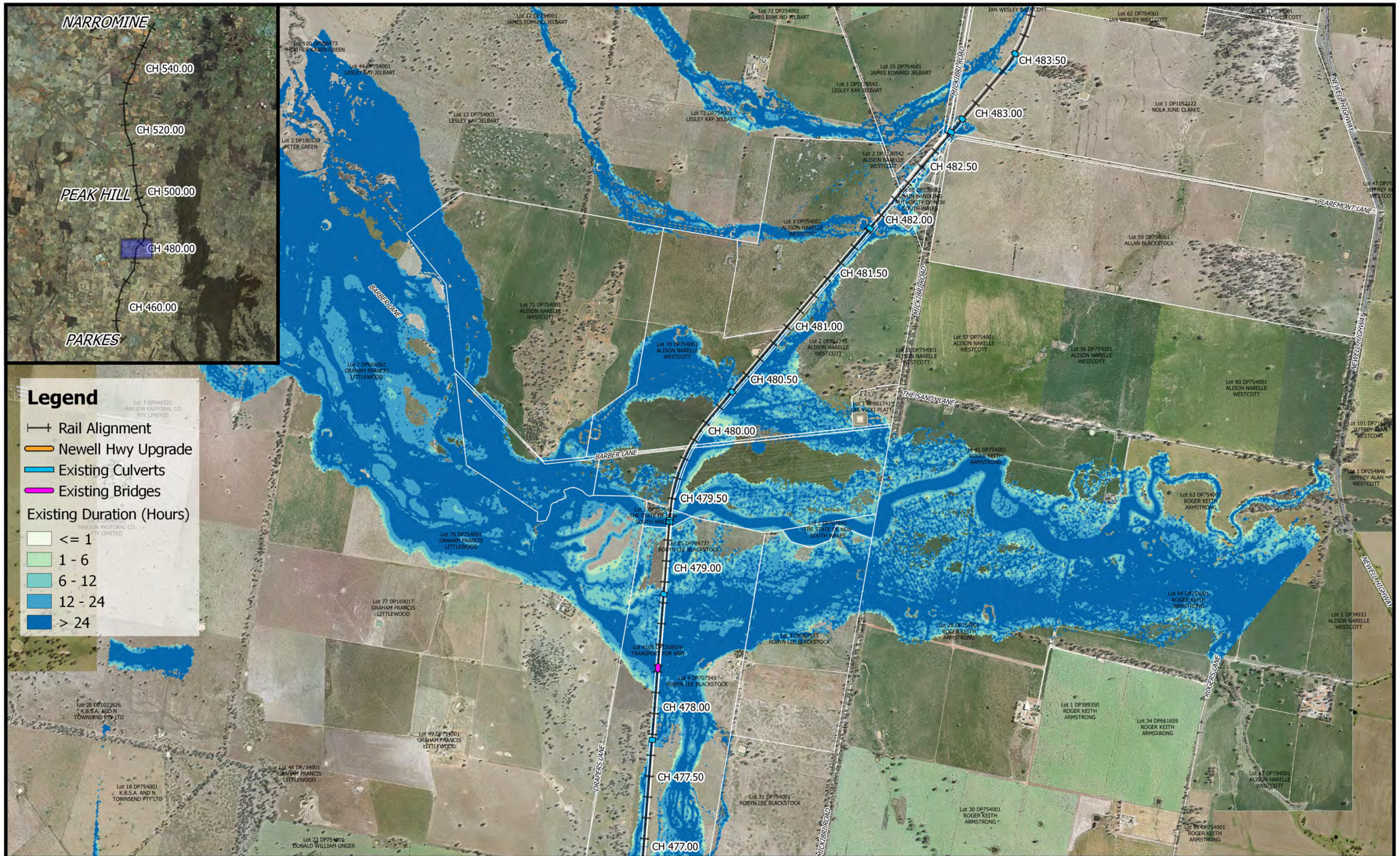
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|--|
| | <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p> | | Date: 12/7/2018 | <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 EX10D7</p> <p style="text-align: center;"><i>10% AEP Existing Flood Duration - CH 475.00</i></p> |
| | Rev: A | | | |
| | Prepared By: WhiteleyD | | | |



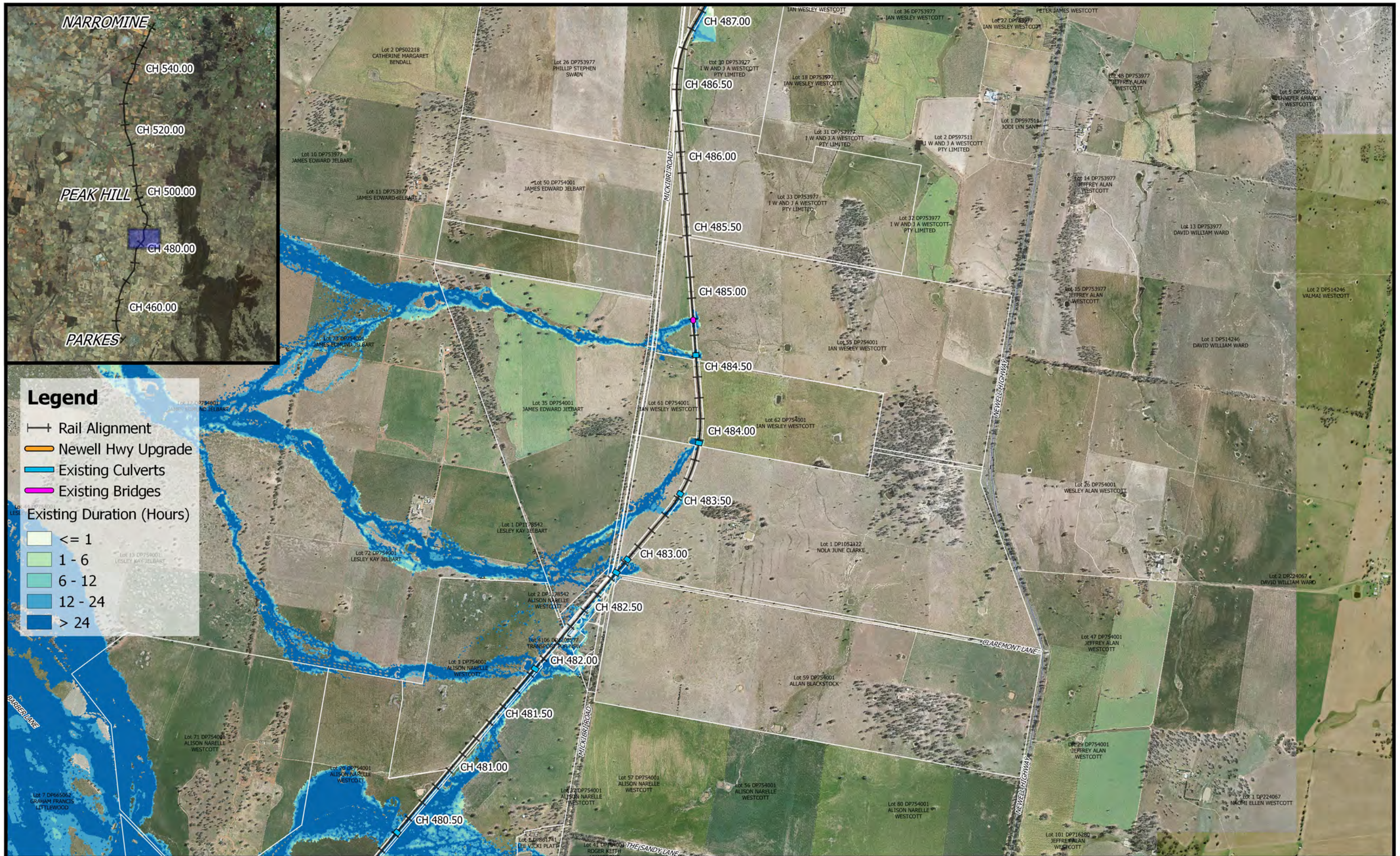
Legend

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

Existing Duration (Hours)

| | |
|--|---------|
| | <= 1 |
| | 1 - 6 |
| | 6 - 12 |
| | 12 - 24 |
| | > 24 |

| | | | | |
|--|---|--|---|---|
| | 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 | | Date: 12/7/2018 Rev: A Prepared By: WhiteleyD | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D8 10% AEP Existing Flood Duration - CH 480.00</p> |
|--|---|--|---|---|



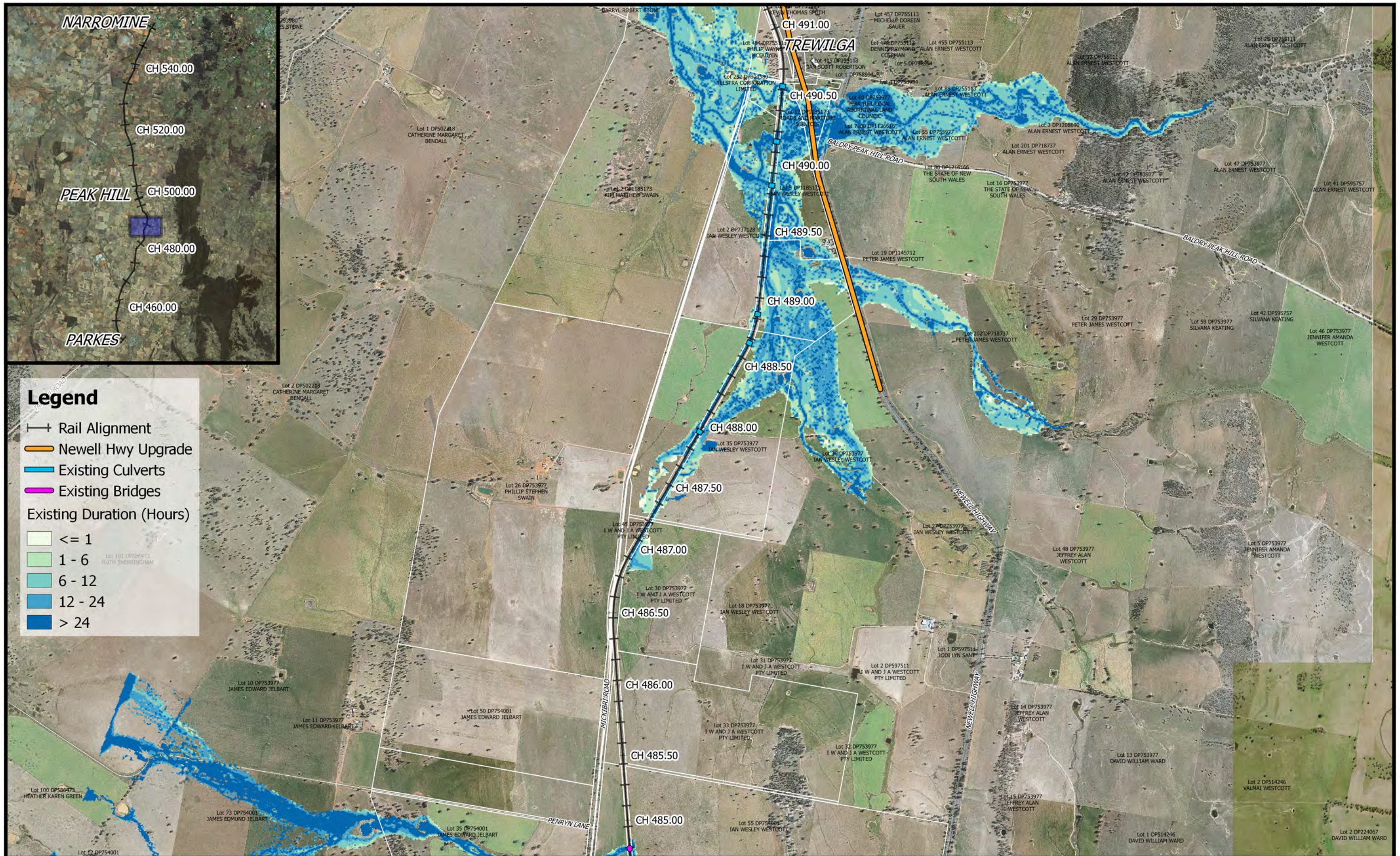
Legend

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

Existing Duration (Hours)

- ≤ 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|------------------------|---|
| | 1:25,000 | | Date: 12/7/2018 | Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results Figure EX10D9 <i>10% AEP Existing Flood Duration - CH 485.00</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 Duration (Hours)
- <= 1
 - 1 - 6
 - 6 - 12
 - 12 - 24
 - > 24

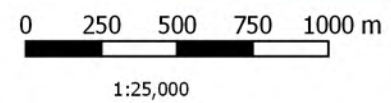
Date: 12/7/2018

Rev: A

Prepared By: WhiteleyD

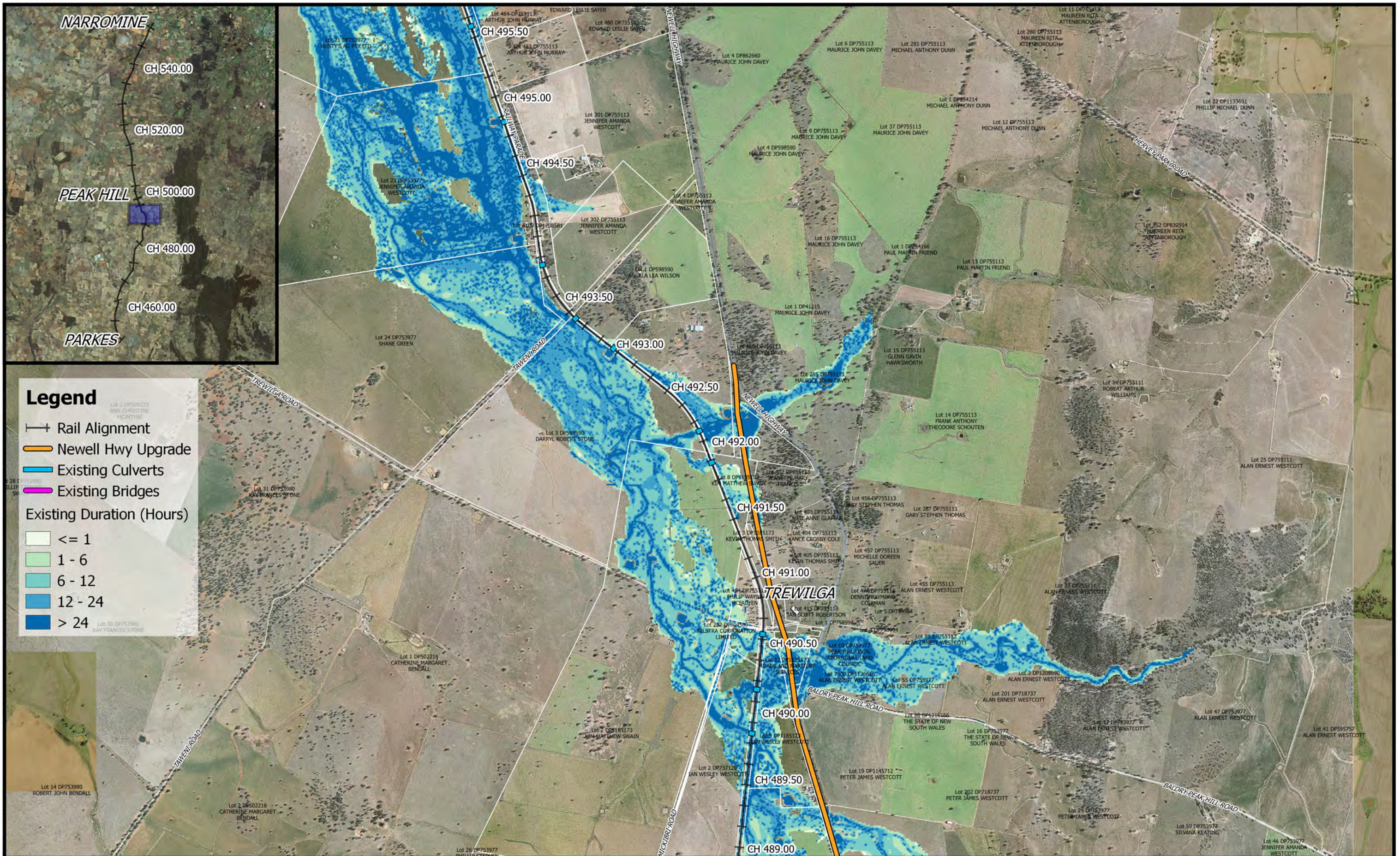
Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX10D10
10% AEP Existing Flood Duration - CH 490.00



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 Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

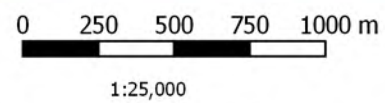
Date: 12/7/2018

Rev: A

Prepared By: WhiteleyD

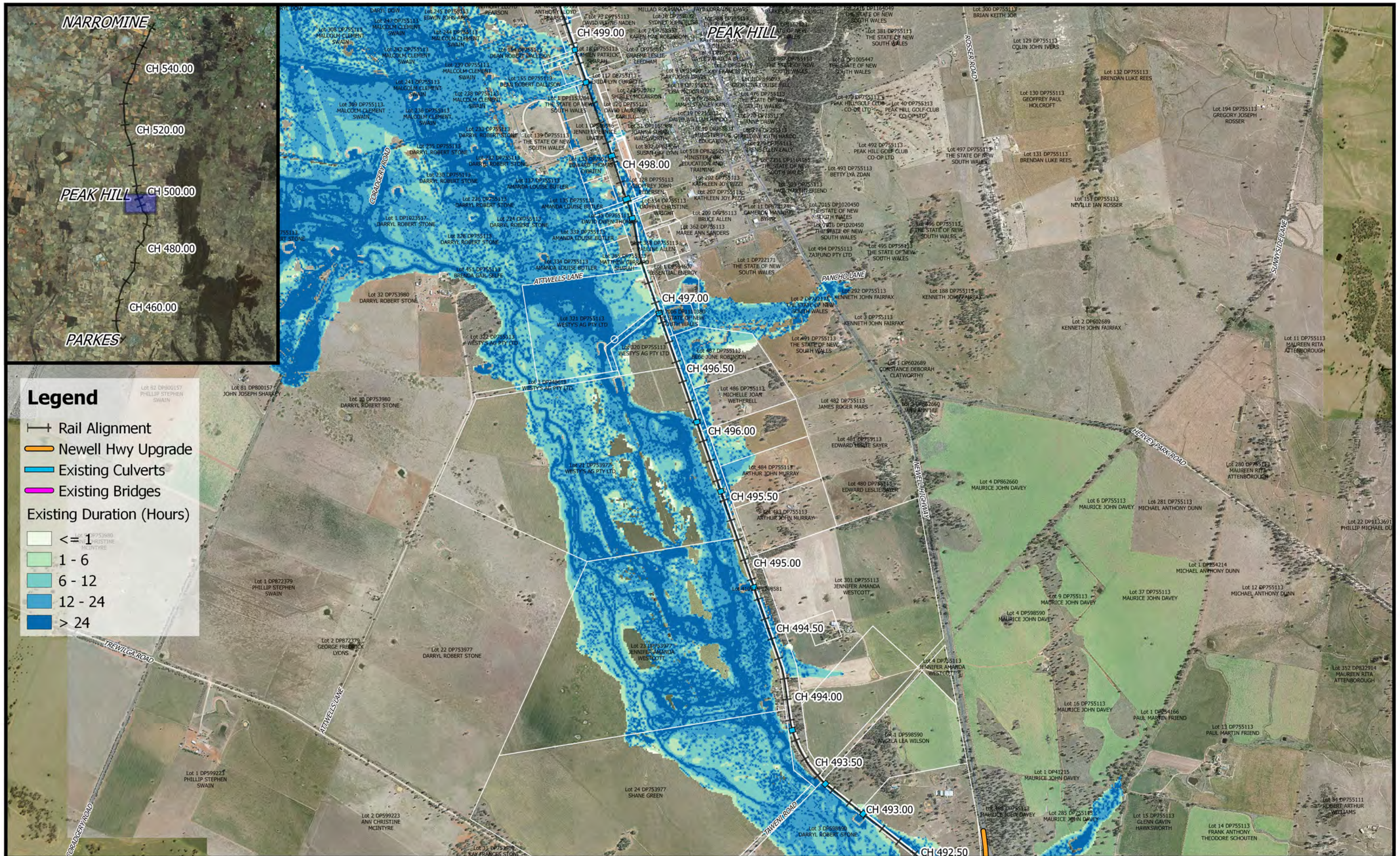
Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX10D11
10% AEP Existing Flood Duration - CH 492.00



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 Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24



0 250 500 750 1000 m

1:25,000

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



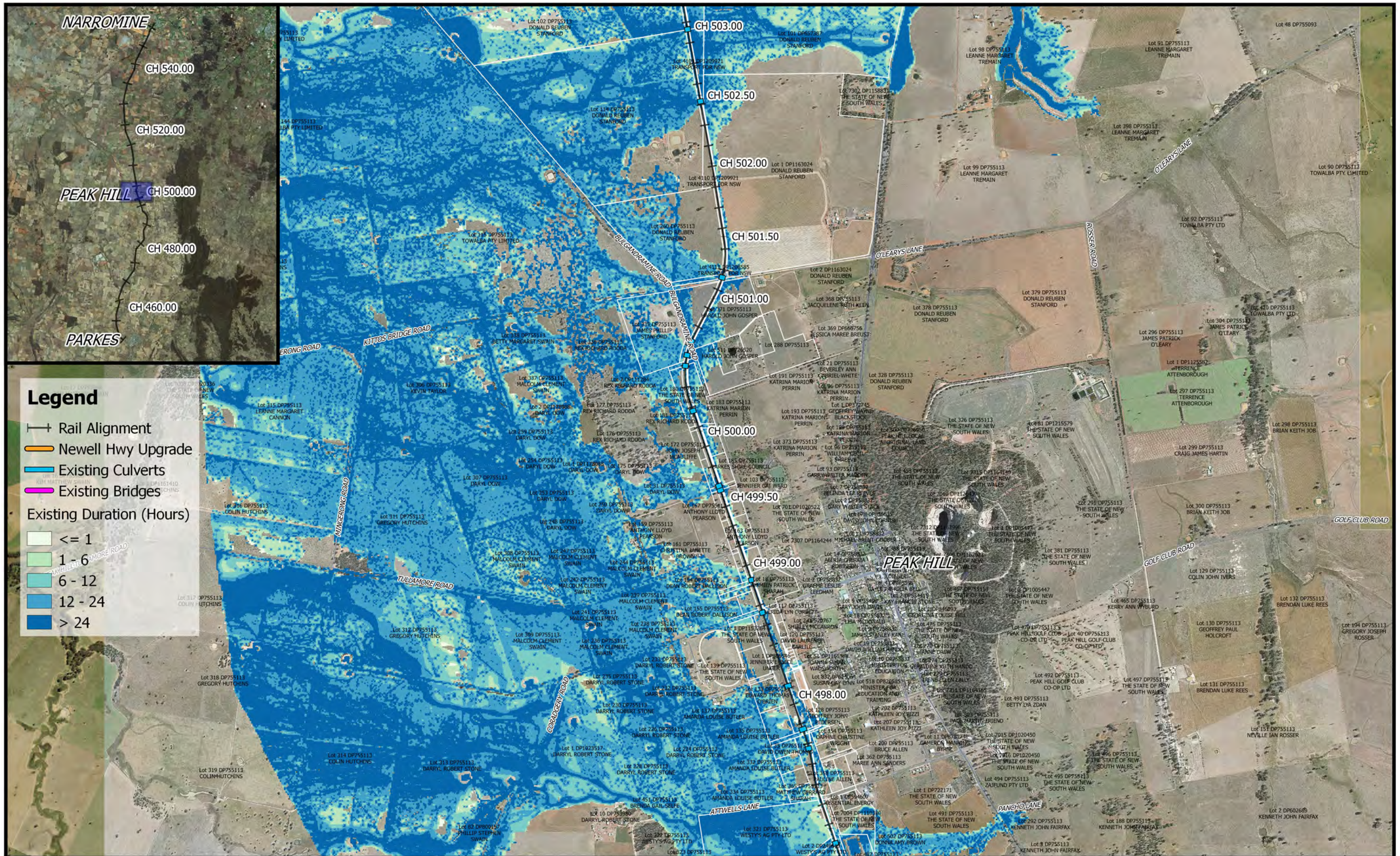
Date: 12/7/2018

Rev: A

Prepared By: WhiteleyD

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

Figure EX10D12
10% AEP Existing Flood Duration - CH 495.00



Legend

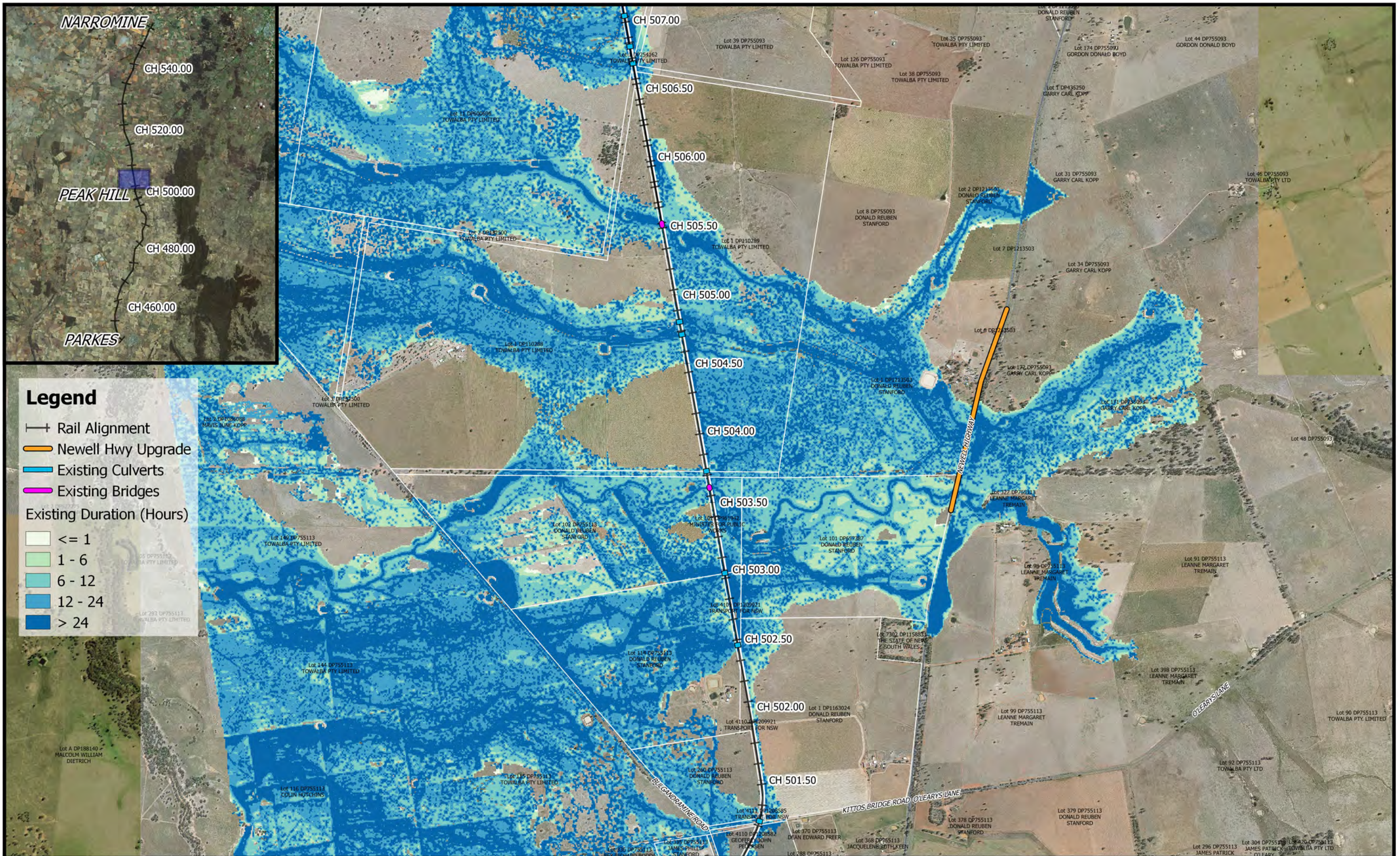
- Rail Alignment
- Newell Hwy Upgrade
- Existing Culverts
- Existing Bridges

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|-----------------|---|-------------------------------|---|
| | <p>1:25,000</p> | | <p>Date: 12/7/2018</p> | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> |
| | | | <p>Rev: A</p> | <p>Figure EX10D13 10% AEP Existing Flood Duration - CH 500.00</p> |
| | | <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p> | <p>Prepared By: WhiteleyD</p> | |

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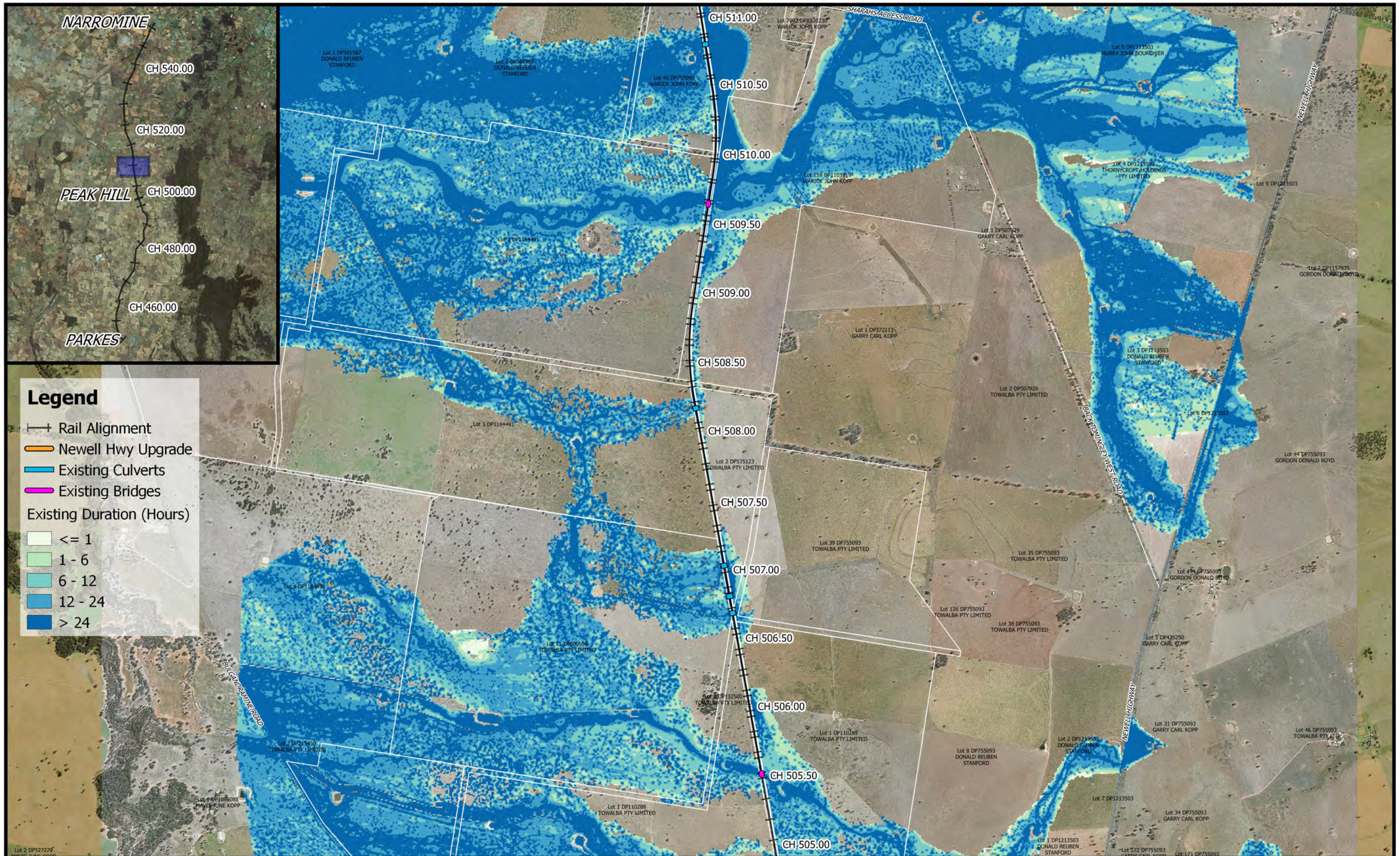
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|--|
| | <p>1:25,000</p> | | Date: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D14 10% AEP Existing Flood Duration - 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 Duration (Hours)
- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

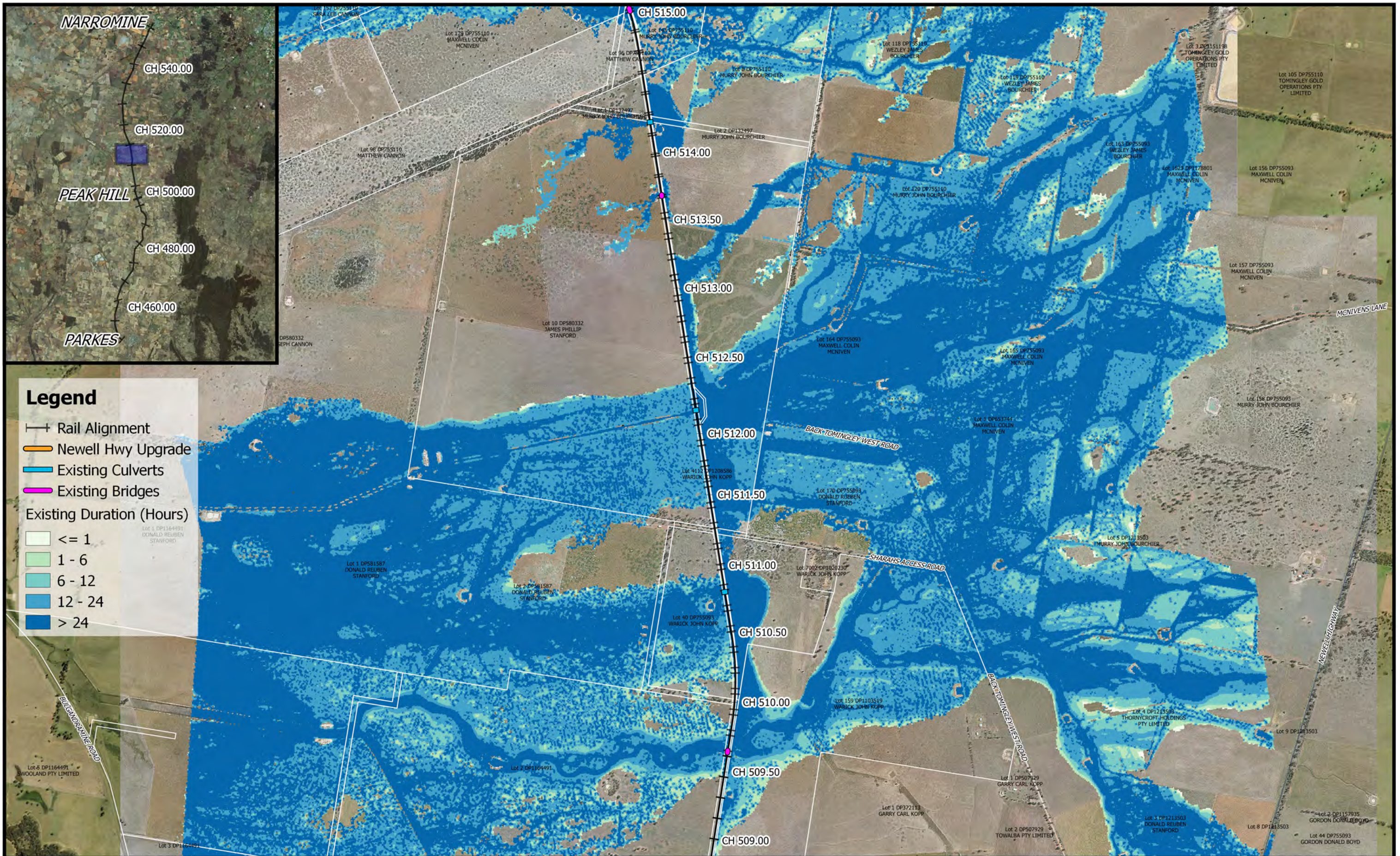
Date: 12/7/2018

Rev: A

Prepared By: WhiteleyD

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

Figure EX10D15
10% AEP Existing Flood Duration - CH 510.00



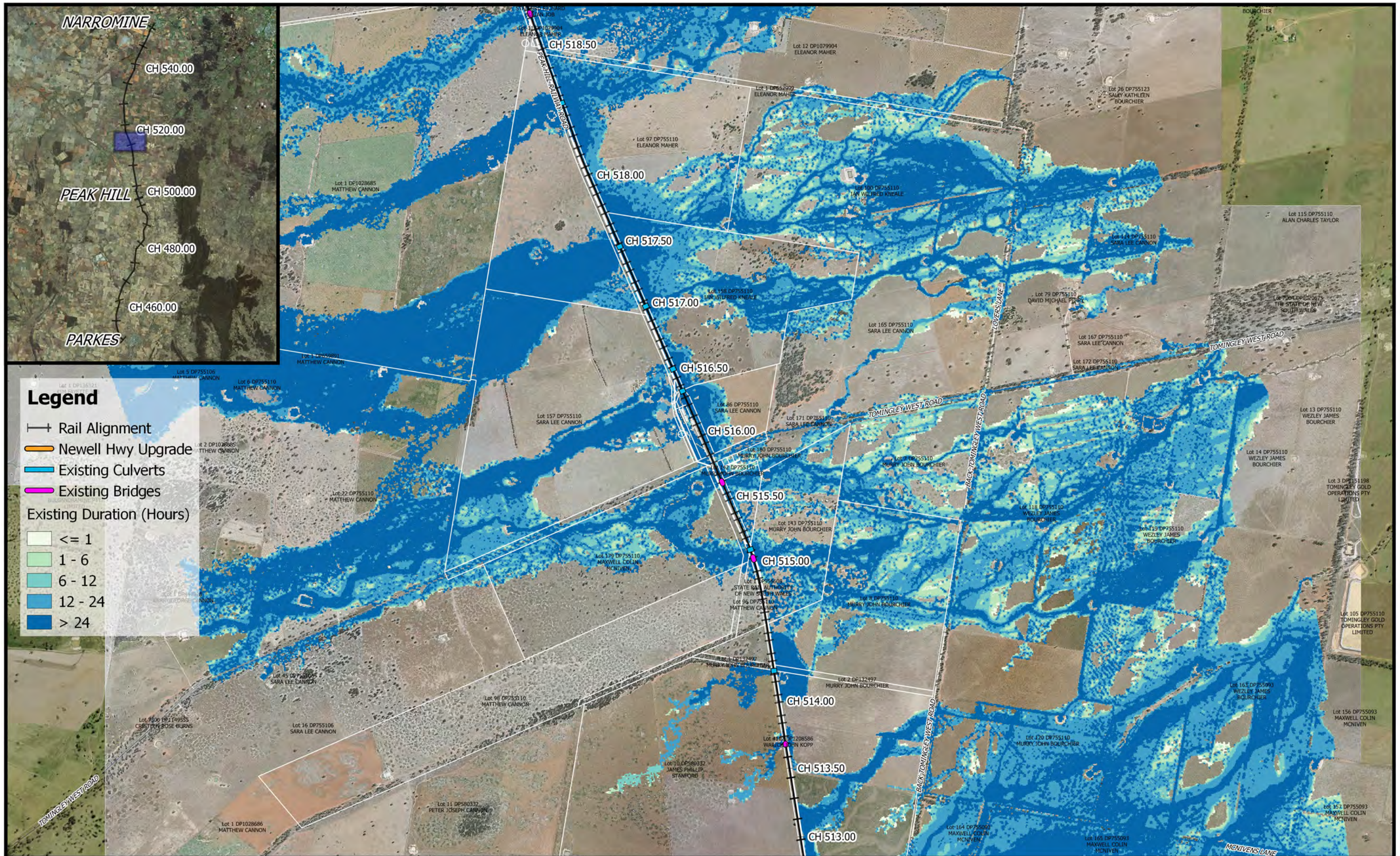
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|------------------------|--|
| | <p>1:25,000</p> | <p>M M MOTT MACDONALD</p> | Date: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D16 10% AEP Existing Flood Duration - CH 512.00</p> |
| | <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p> | | Rev: A | |
| | | | Prepared By: WhiteleyD | |

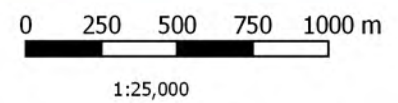


Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24



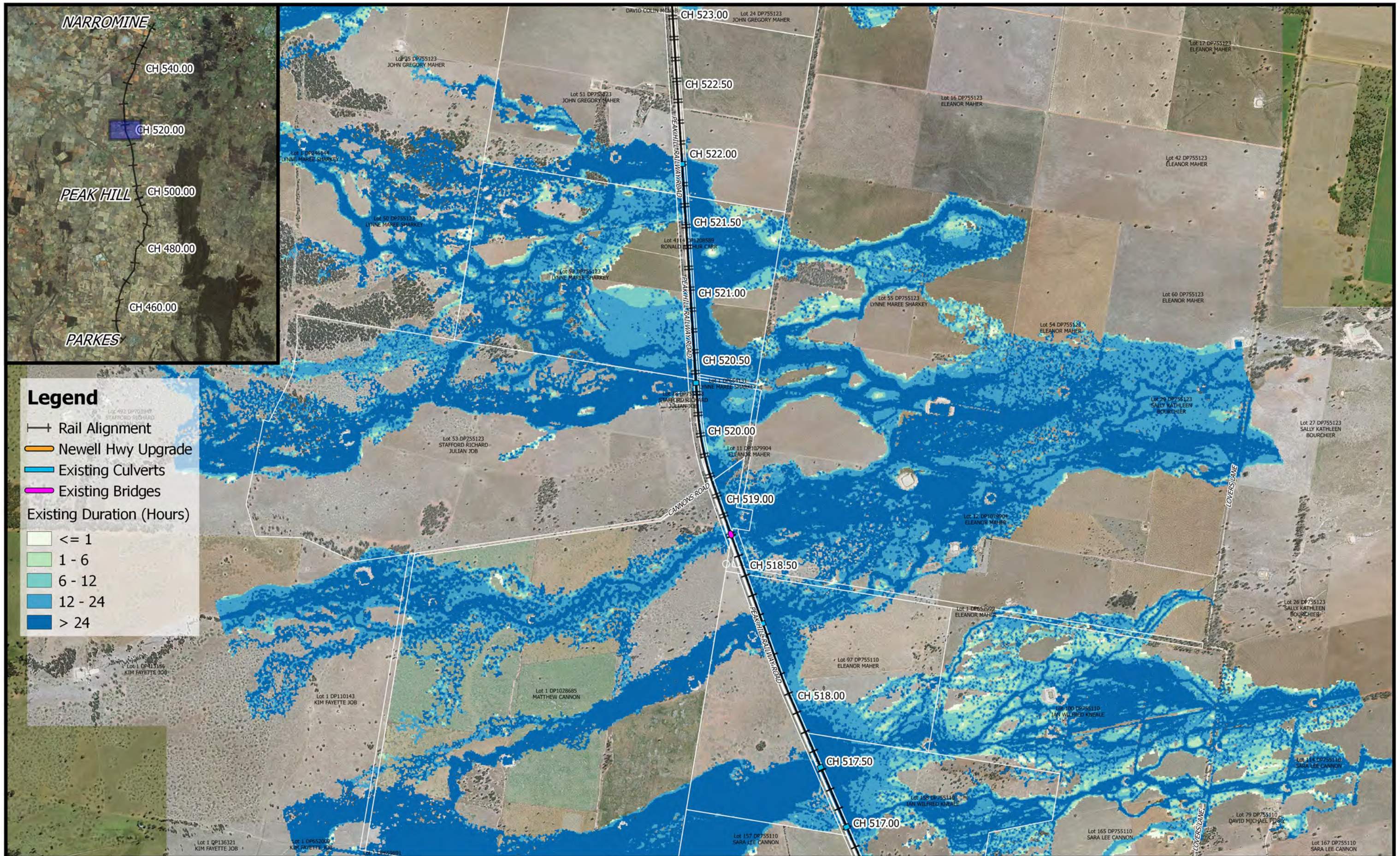
Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



Date: 12/7/2018
Rev: A
Prepared By: WhiteleyD

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

Figure EX10D17
10% AEP Existing Flood Duration - CH 515.00



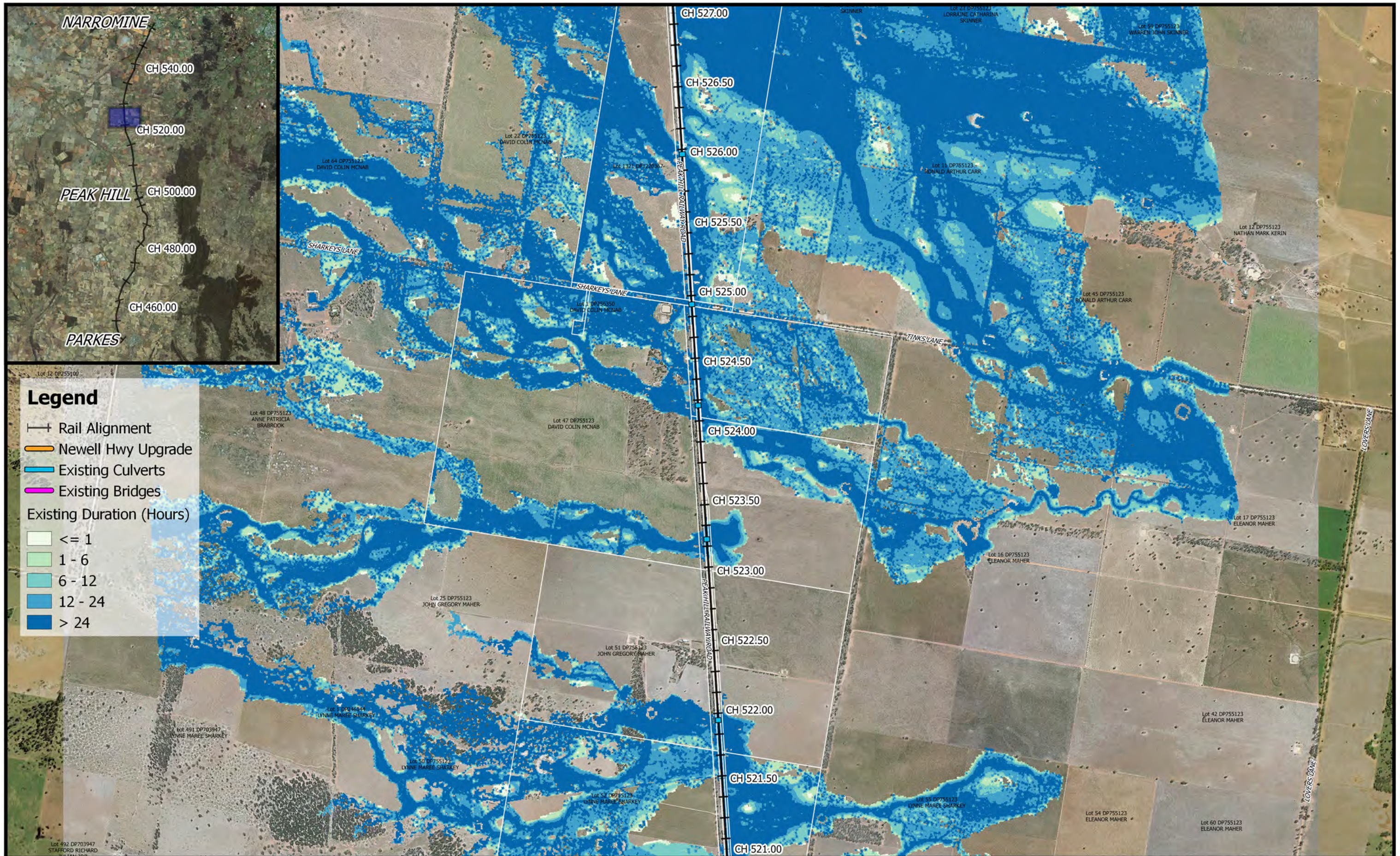
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|--|
| | <p>1:25,000</p> | | Date: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D18 10% AEP Existing Flood Duration - CH 520.00</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 Duration (Hours)
- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

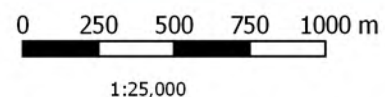
Date: 12/7/2018

Rev: A

Prepared By: WhiteleyD

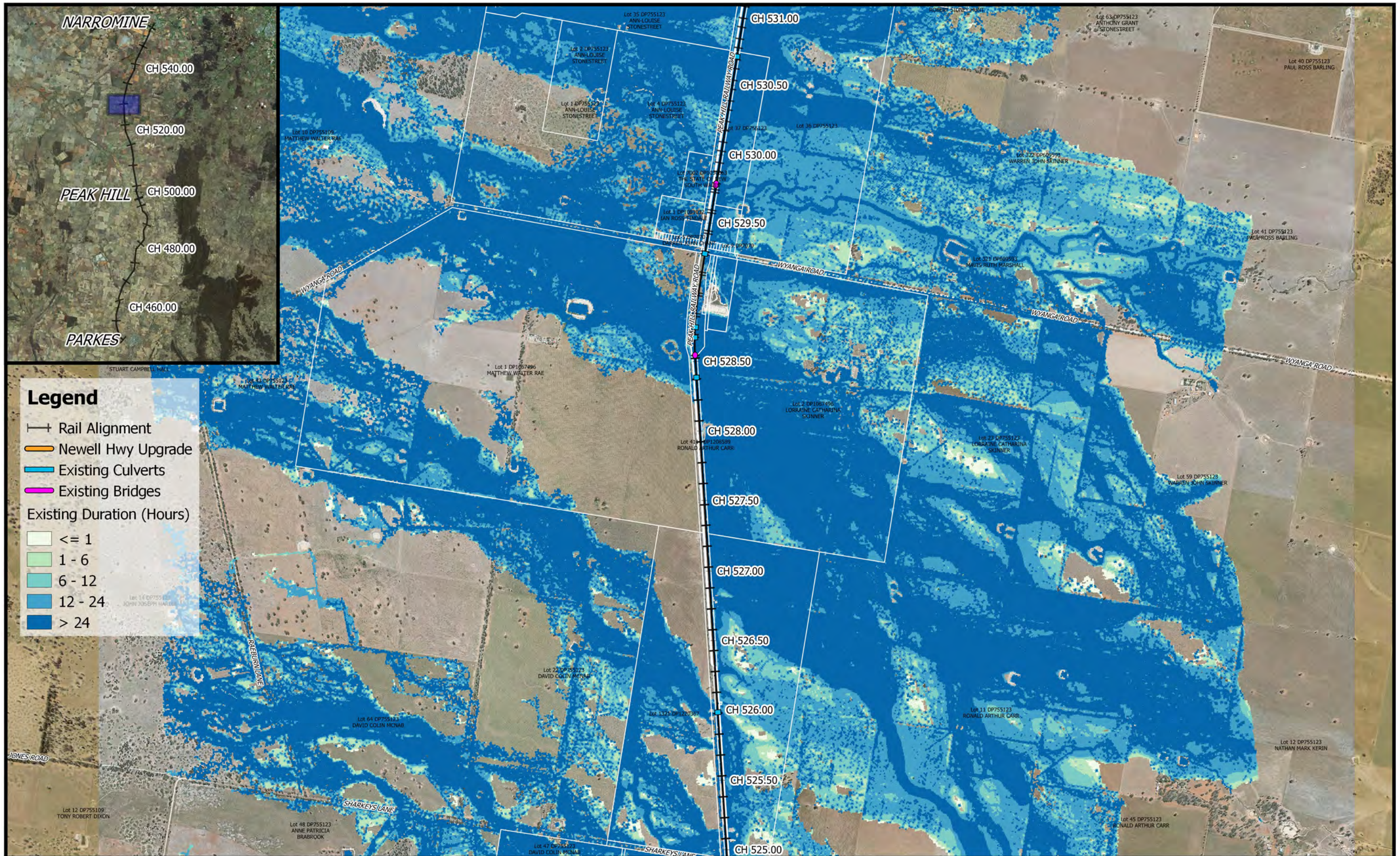
Parkes to Narromine
DD100% - Cross Drainage Flood Impact Assessment Results

Figure EX10D19
10% AEP Existing Flood Duration - CH 525.00



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





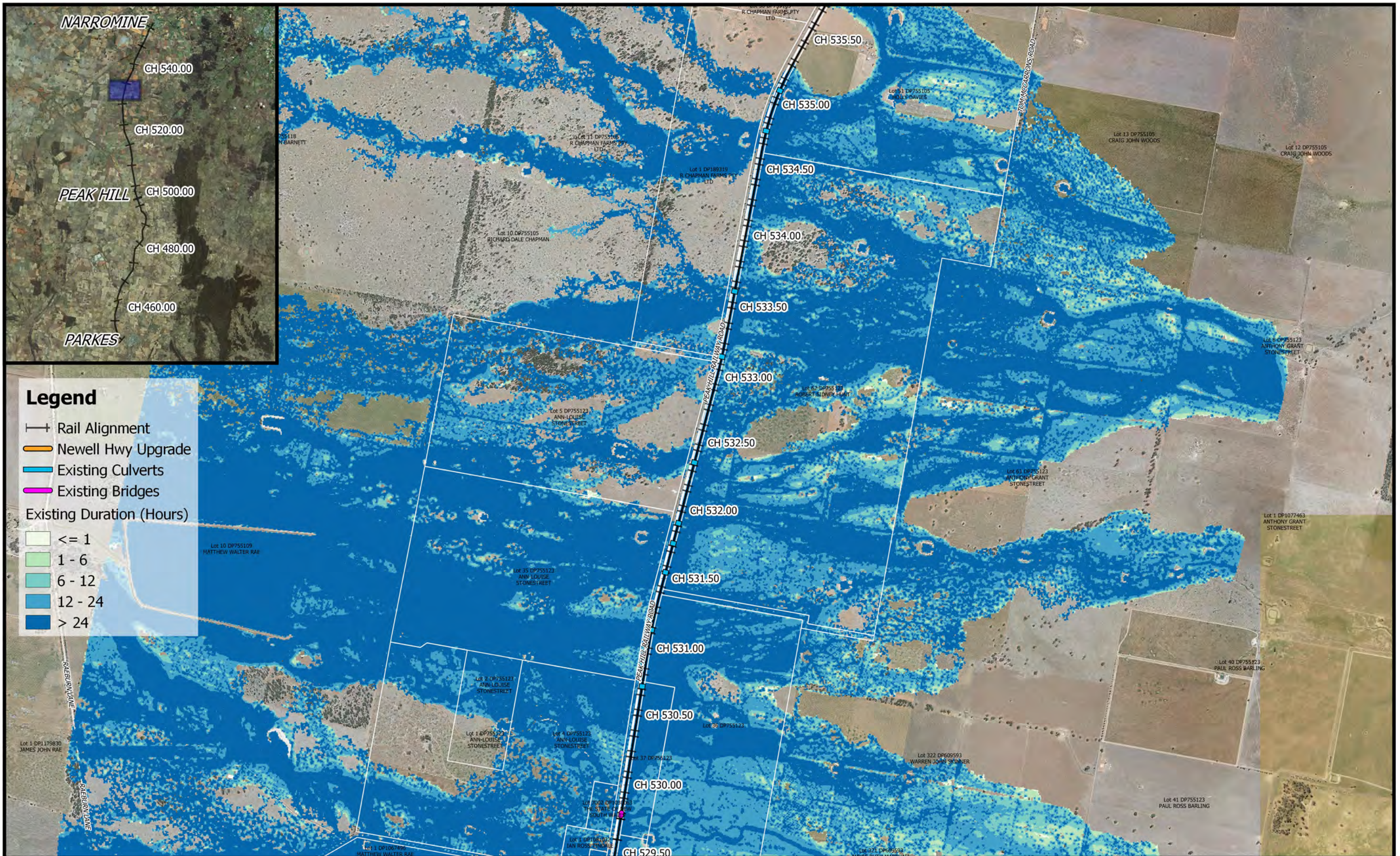
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|------------------------|--|
| | <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: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D20 10% AEP Existing Flood Duration - CH 530.00</p> |
| | | | Rev: A | |
| | | | Prepared By: WhiteleyD | |



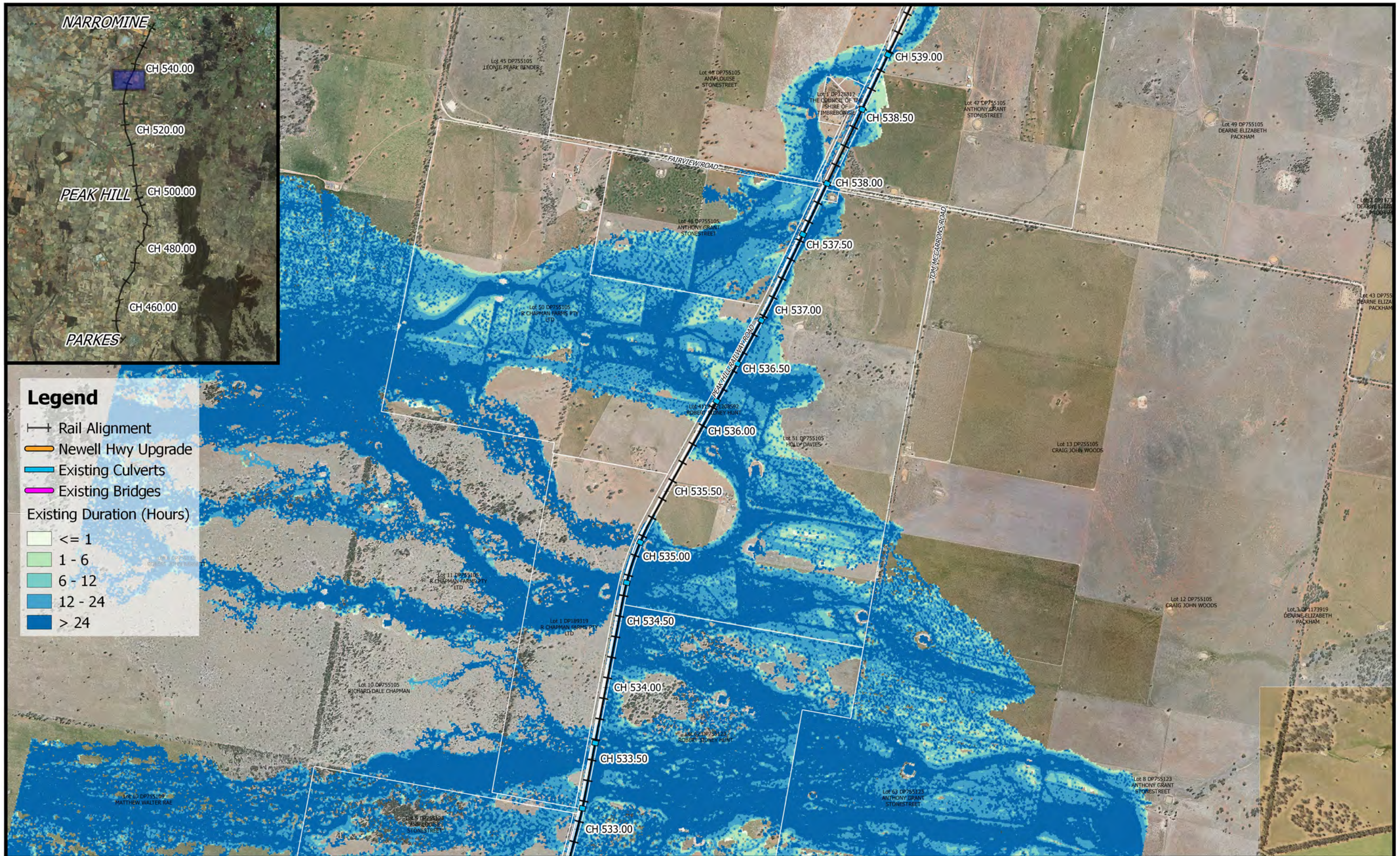
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|---|
| | <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p> | | Date: 12/7/2018 | <p>Parkes to Narromine</p> <p>DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D21</p> <p><i>10% AEP Existing Flood Duration - CH 533.00</i></p> |
| | Rev: A | | | |
| | Prepared By: WhiteleyD | | | |



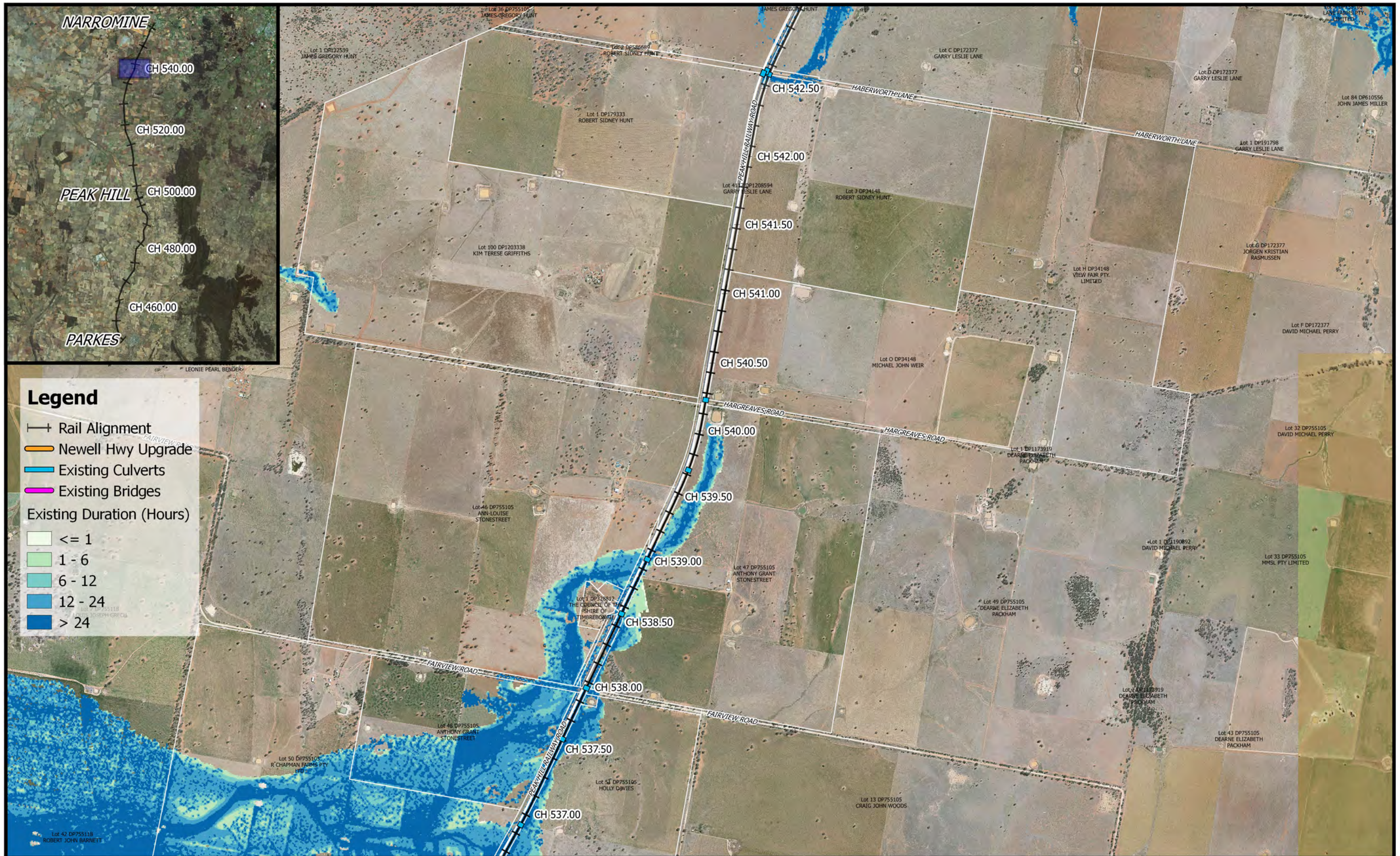
Legend

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

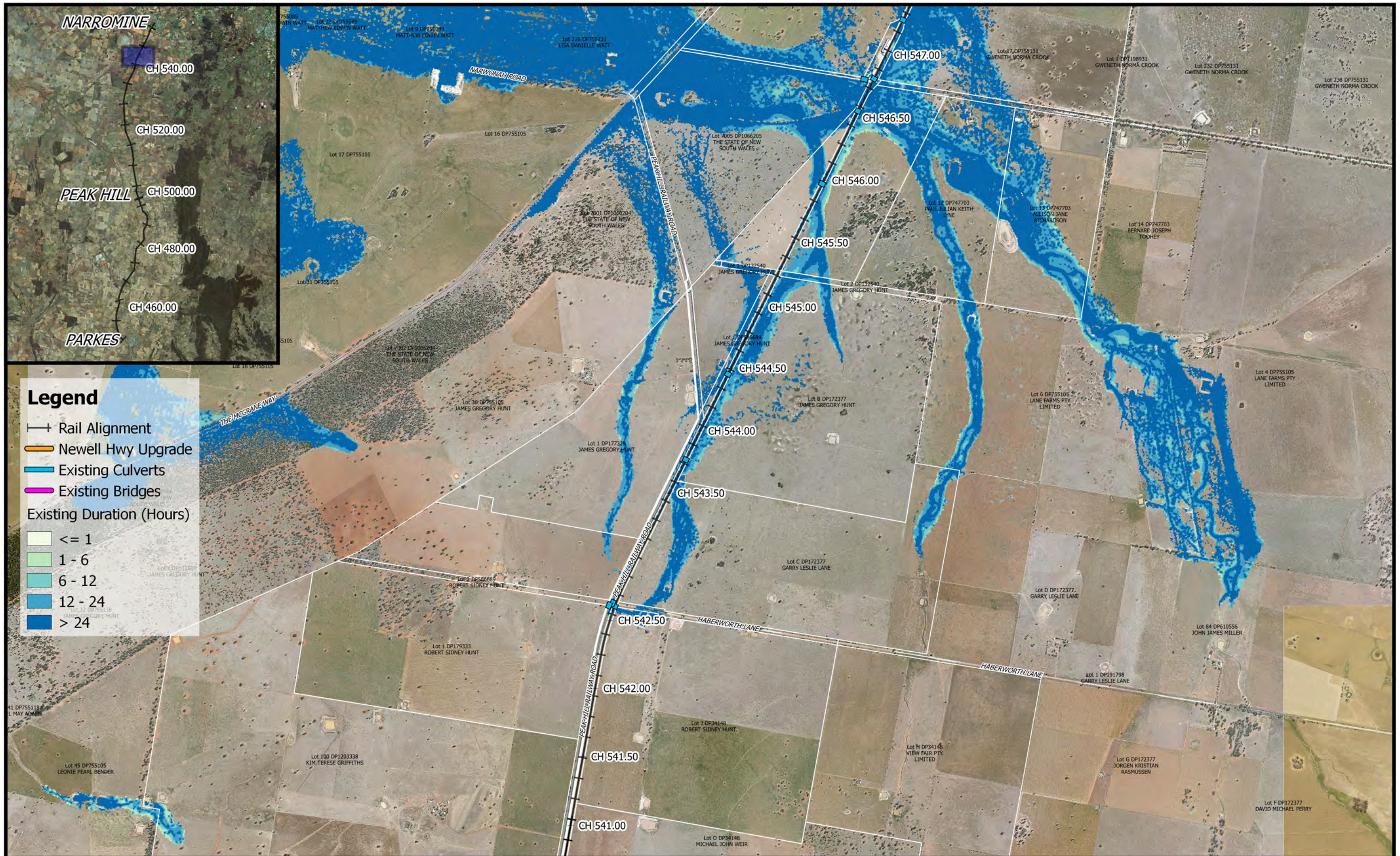
Existing Duration (Hours)

- ≤ 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|--|
| | <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p> | | Date: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D22 10% AEP Existing Flood Duration - CH 535.00</p> |
| | Rev: A | | | |
| | Prepared By: WhiteleyD | | | |



| | | | | |
|--|--|--|------------------------|--|
| | <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55</p> <p>Scale ratio correct when printed at A3</p> | | Date: 12/7/2018 | <p align="center">Parkes to Narromine</p> <p align="center">DD100% - Cross Drainage Flood Impact Assessment Results</p> <p align="center">Figure EX10D23</p> <p align="center">10% AEP Existing Flood Duration - CH 540.00</p> |
| | | | Rev: A | |
| | | | Prepared By: WhiteleyD | |



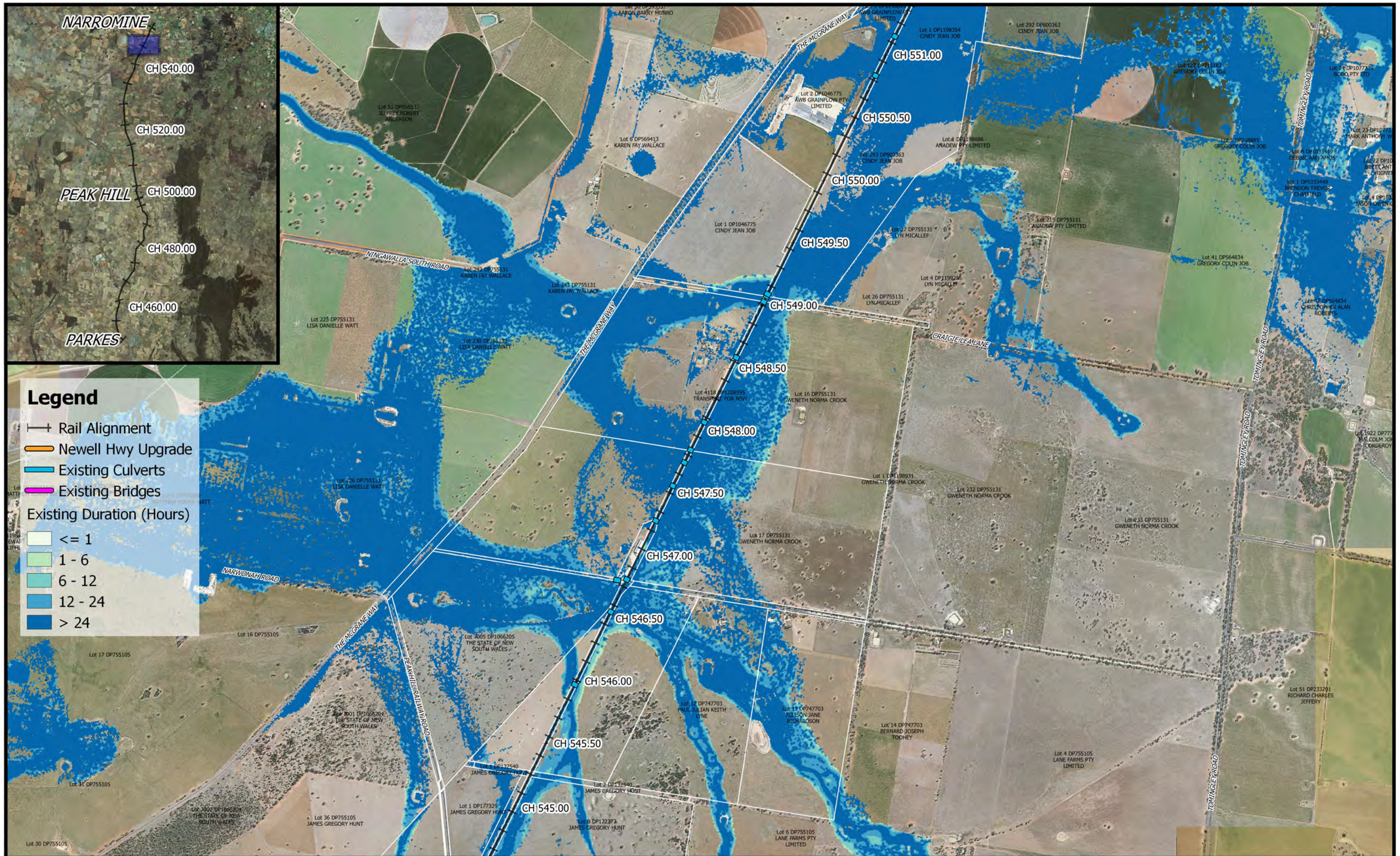
Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|--|---|
| | <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: 12/7/2018</p> | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> |
| | <p>Rev: A</p> | | <p>Prepared By: WhiteleyD</p> | |
| | | | <p>Figure EX10D24 10% AEP Existing Flood Duration - CH 545.00</p> | |



Legend

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

Existing Duration (Hours)

- <= 1
- 1 - 6
- 6 - 12
- 12 - 24
- > 24

| | | | | |
|--|---|--|-----------------|--|
| | <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>M MOTT MACDONALD</p> | Date: 12/7/2018 | <p>Parkes to Narromine DD100% - Cross Drainage Flood Impact Assessment Results</p> <p>Figure EX10D25 10% AEP Existing Flood Duration - CH 550.00</p> |
| | <p>Rev: A</p> <p>Prepared By: WhiteleyD</p> | | | |