

Appendix B

Design Conditions Flood Maps

B01 – Flood Level Change (Afflux) 18% AEP

B02 – Flood Level Change (Afflux) 5% AEP

B03 – Flood Level Change (Afflux) 2% AEP

B04 – Flood Level Change (Afflux) 0.05% AEP

B05 – Flood Velocity Change 18% AEP

B06 – Flood Velocity Change 5% AEP

B07 – Flood Velocity Change 2% AEP

B08 – Flood Velocity Change 0.05% AEP

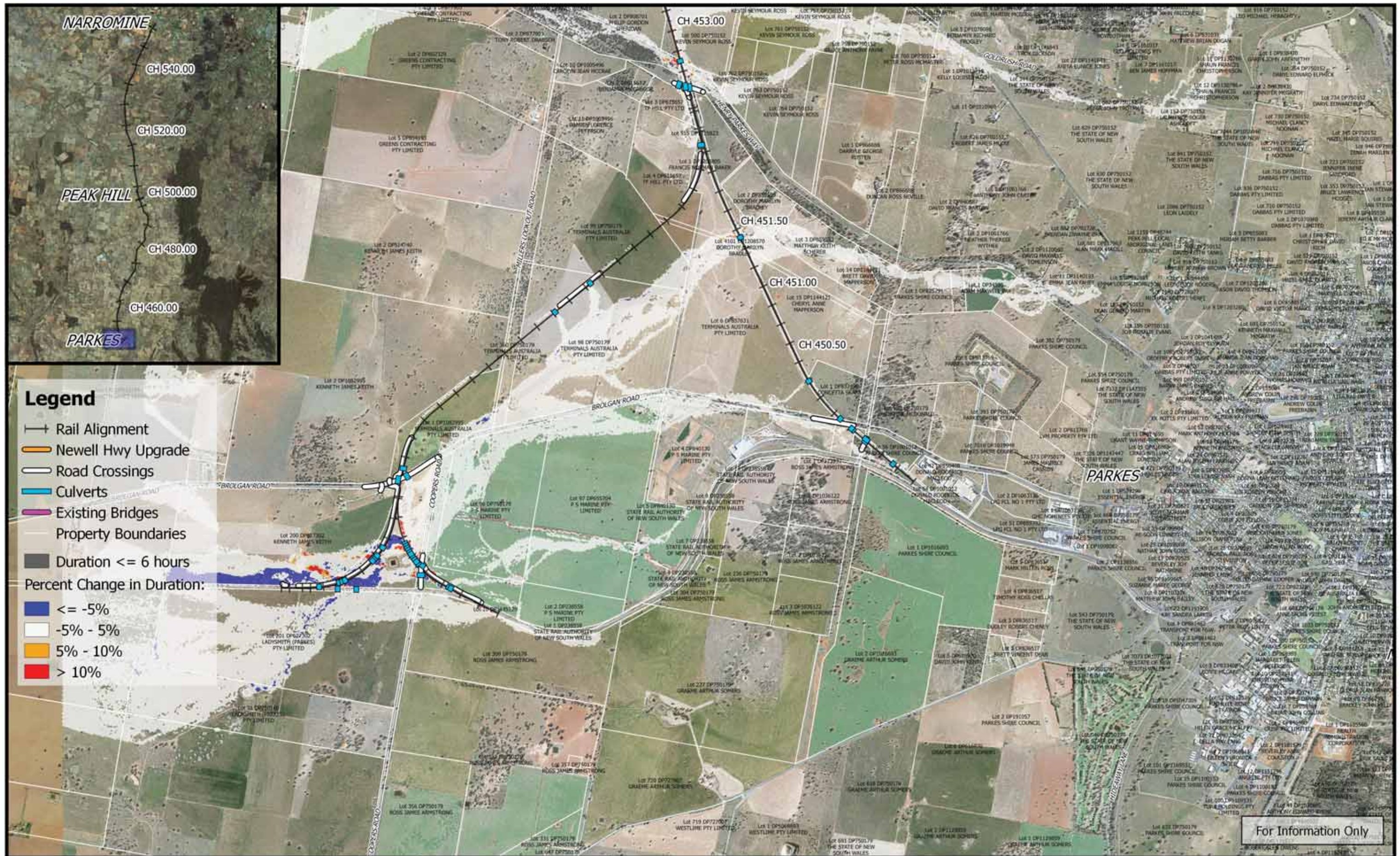
B09 – Flood Duration Change 18% AEP

B10 – Flood Duration Change 5% AEP




B11 – Flood Duration Change 2% AEP

B12 – Flood Duration Change 0.05% AEP





For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>	 	Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE5DC1 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 450.00</p>
			Rev: B - For Information Only	

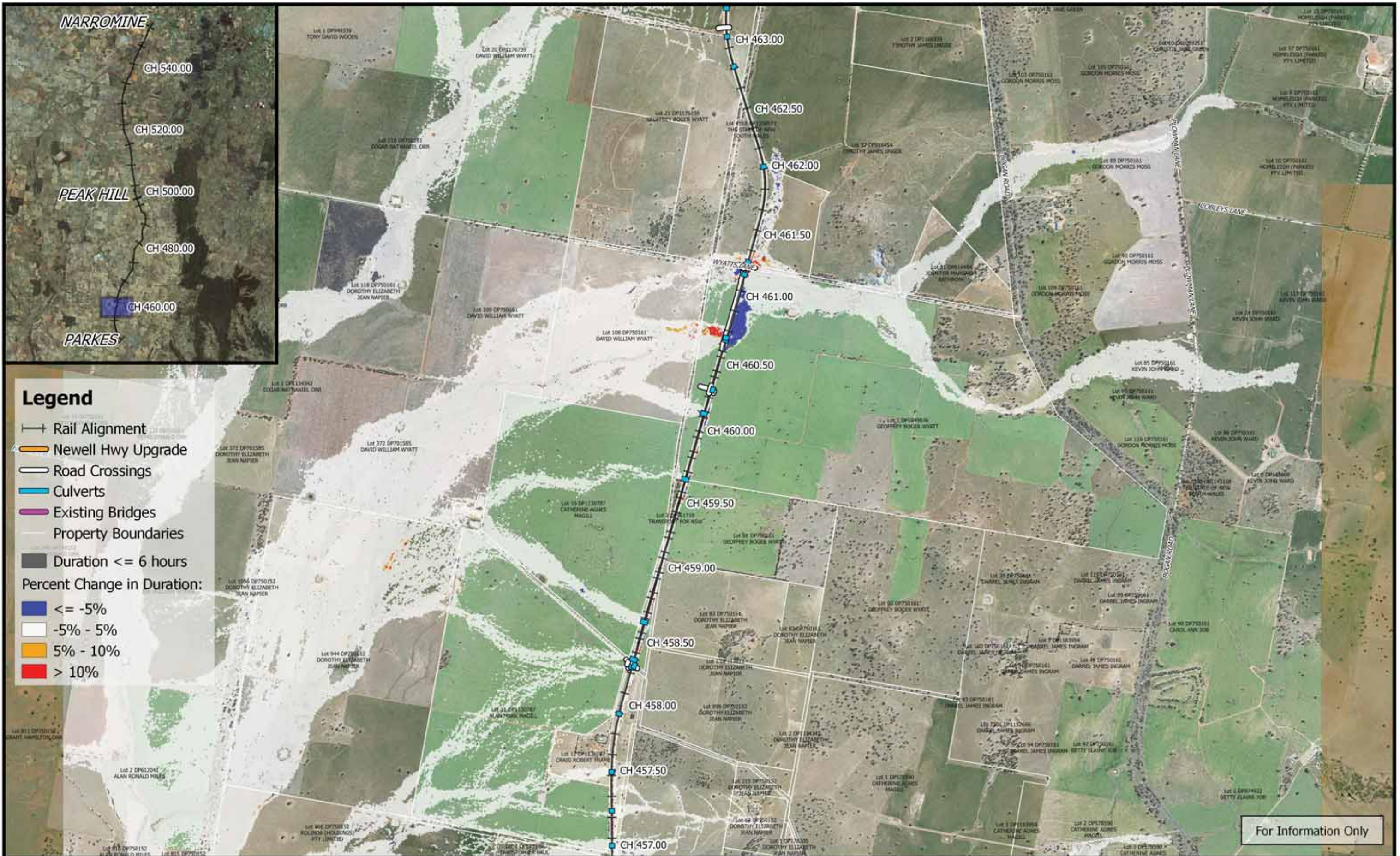




Legend

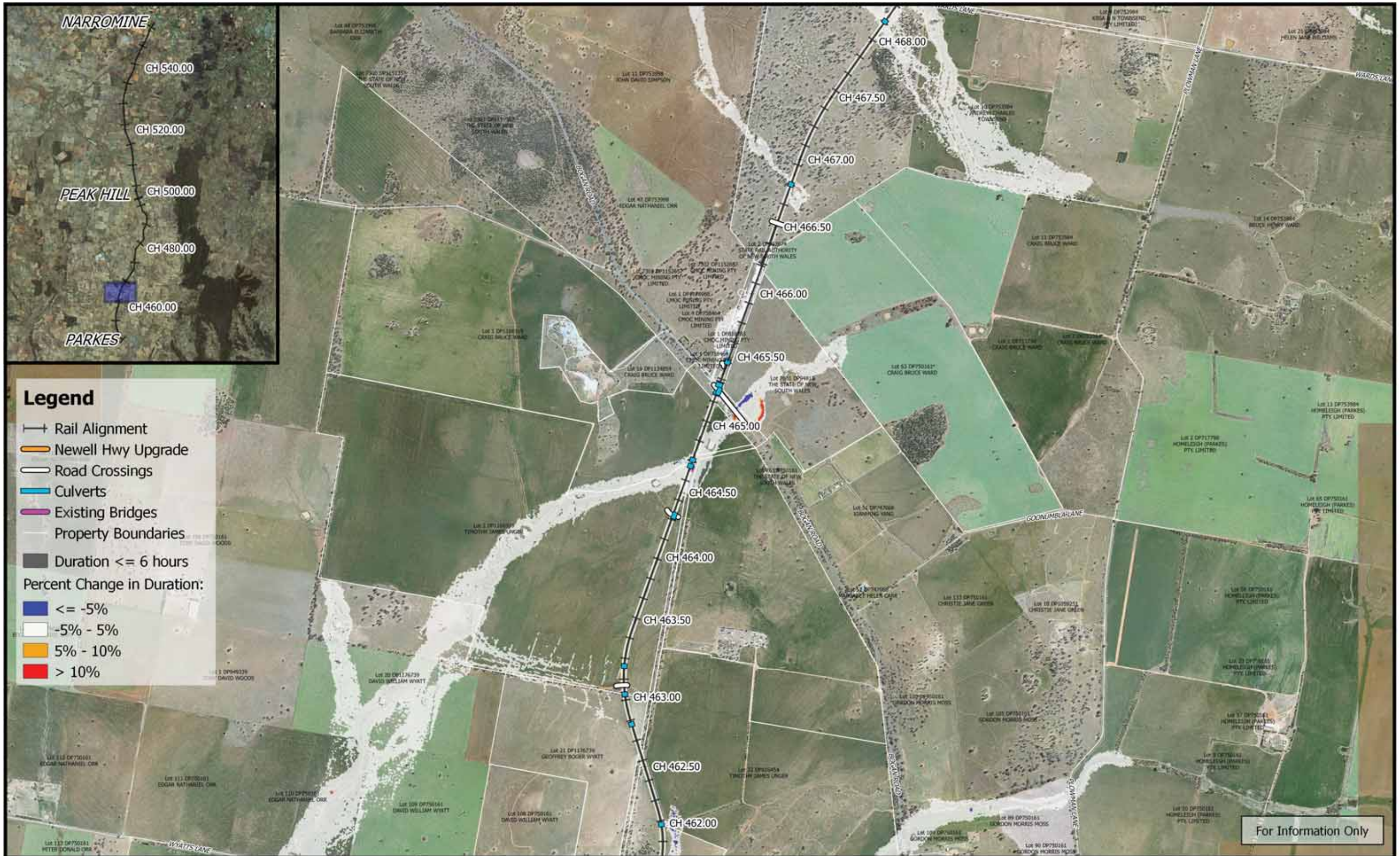
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- 5% - 5%
- 5% - 10%
- > 10%

For Information Only

	<p>1:25,000</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE5DC2 <i>5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 455.00</i></p>
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only	
		Prepared By: YeohM		



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results
			Rev: B - For Information Only	
			Prepared By: YeohM	

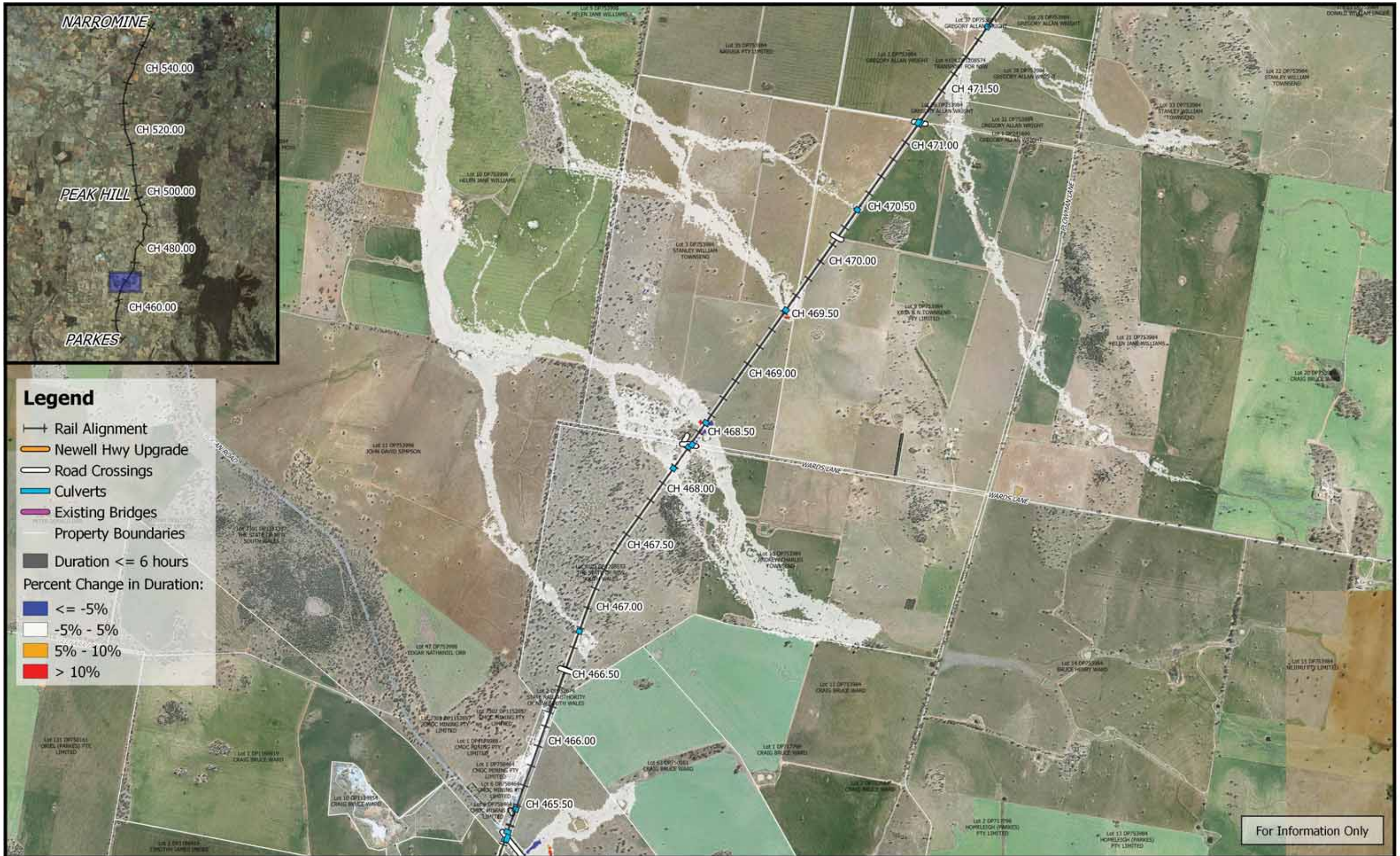


Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- 5% - 5%
- 5% - 10%
- > 10%

For Information Only

	 1:25,000		Date: 25/3/2019	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only	
			Prepared By: YeohM	



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours

Percent Change in Duration:

- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

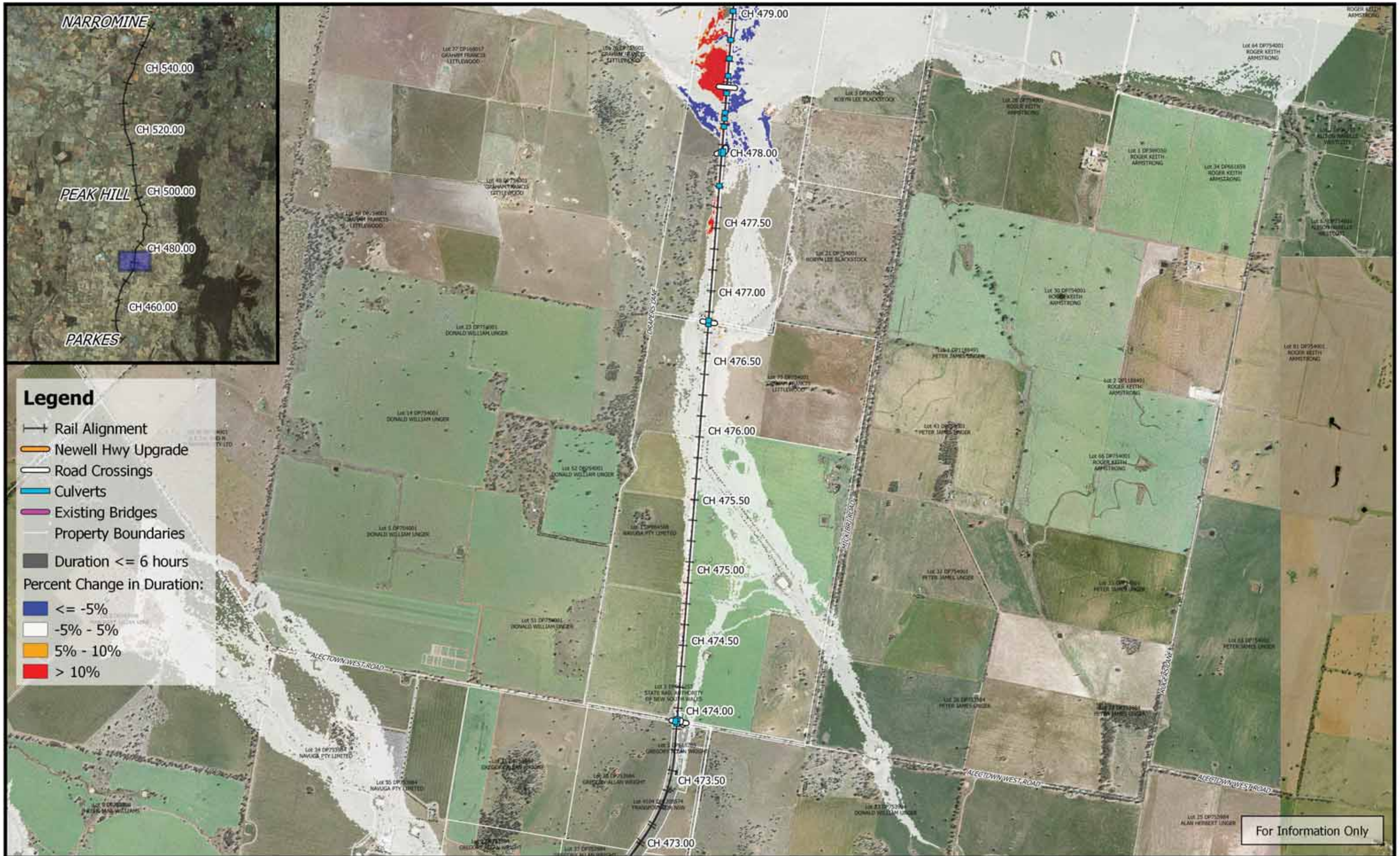
For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>		<p>Date: 25/3/2019</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Rev: B - For Information Only</p>	<p>Figure DE5DC5 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 470.00</p>
		<p>Prepared By: YeohM</p>		



For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	



- Legend**
- Rail Alignment
 - Newell Hwy Upgrade
 - Road Crossings
 - Culverts
 - Existing Bridges
 - Property Boundaries
 - Duration <= 6 hours
- Percent Change in Duration:**
- <= -5%
 - 5% - 5%
 - 5% - 10%
 - > 10%

For Information Only



0 250 500 750 1000 m
1:25,000

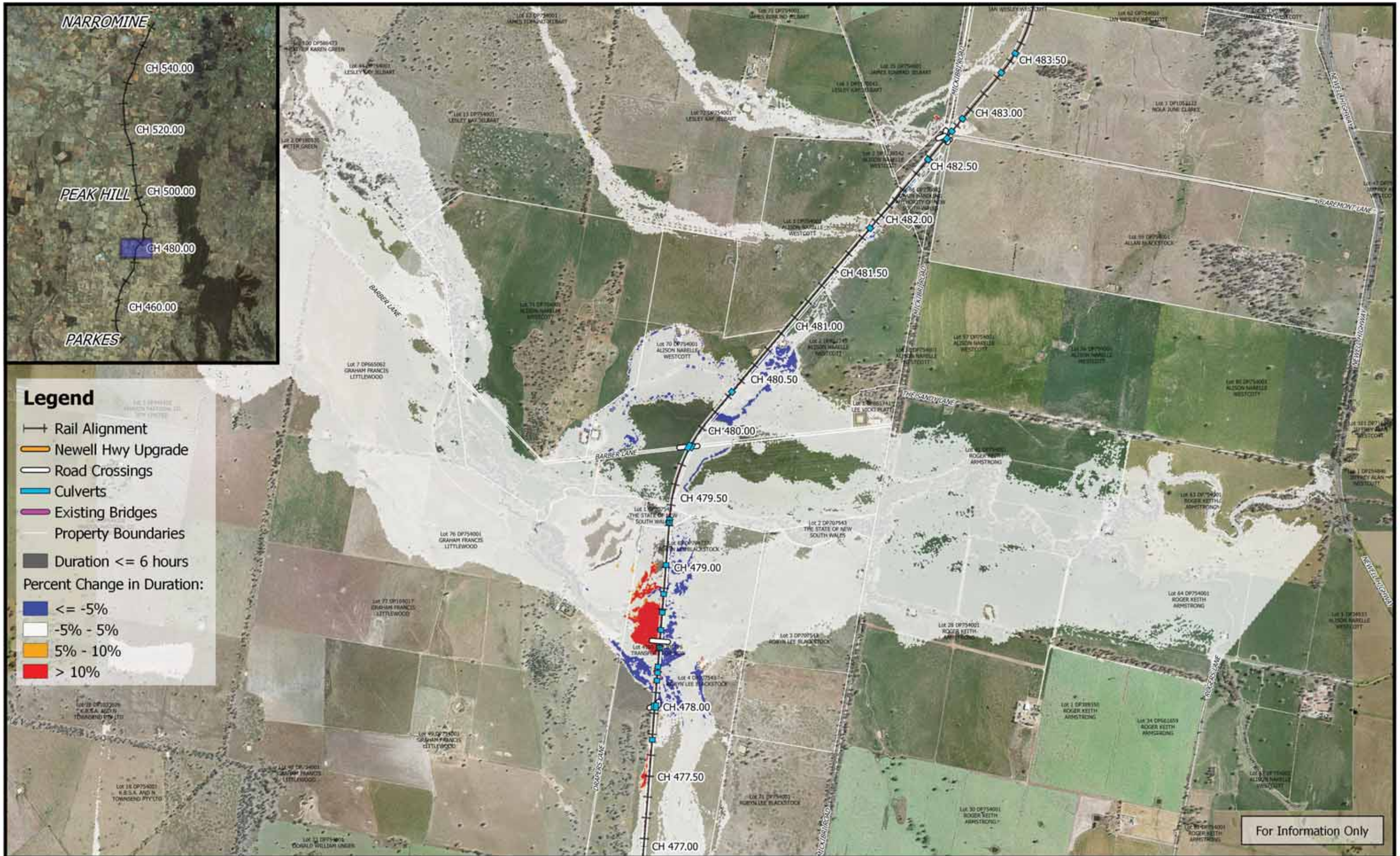
Coordinate system: GDA 1994 MGA Zone 55
Inset Aerial Source: NSW Six Map
Scale ratio correct when printed at A3




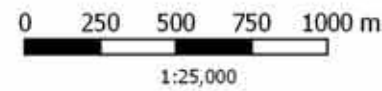

Date: 25/3/2019
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Prepared By: YeohM

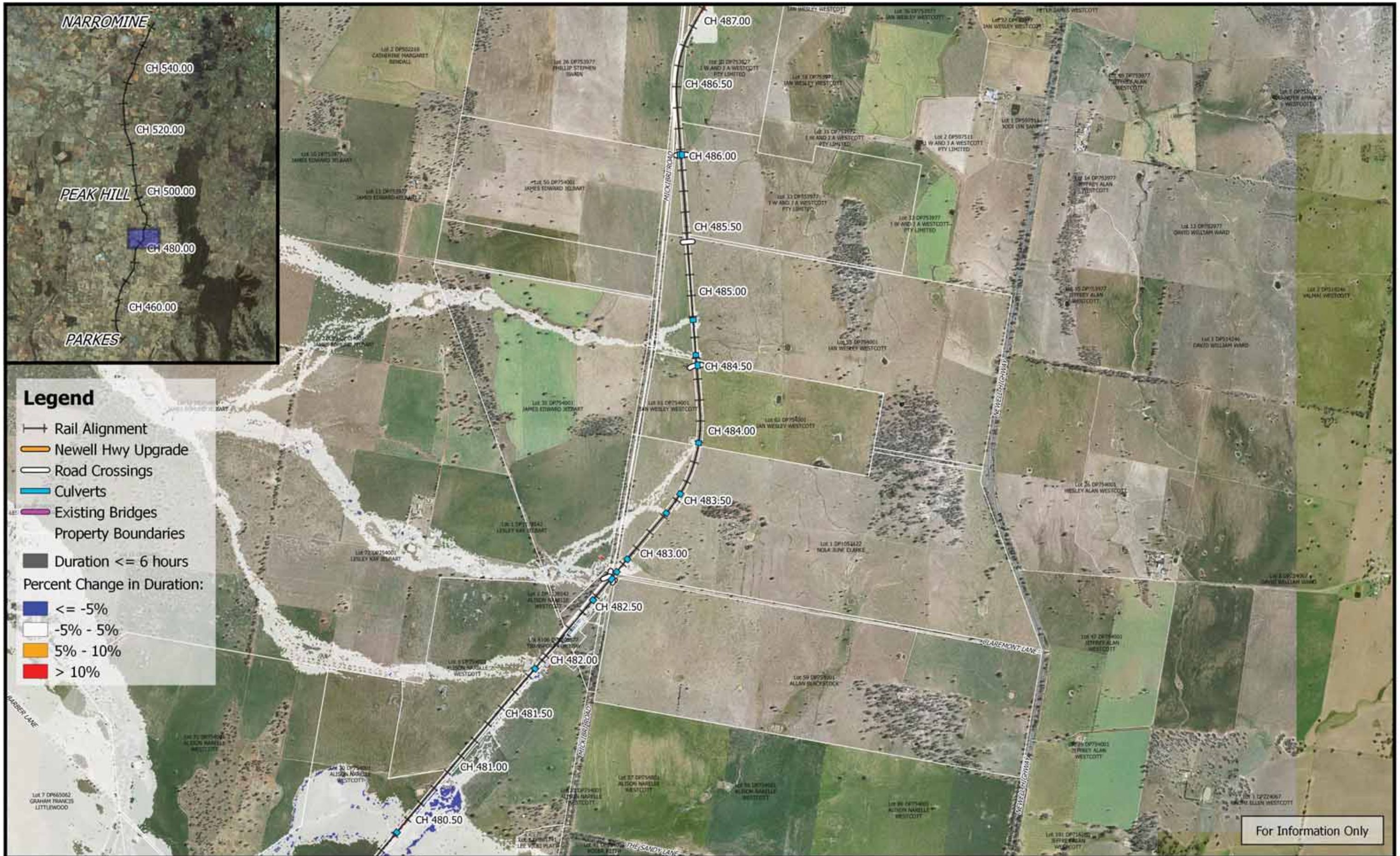
Inland Rail - Parkes to Narromine
IFC - Cross Drainage Flood Impact Assessment Results

Figure DE5DC7
5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 475.00



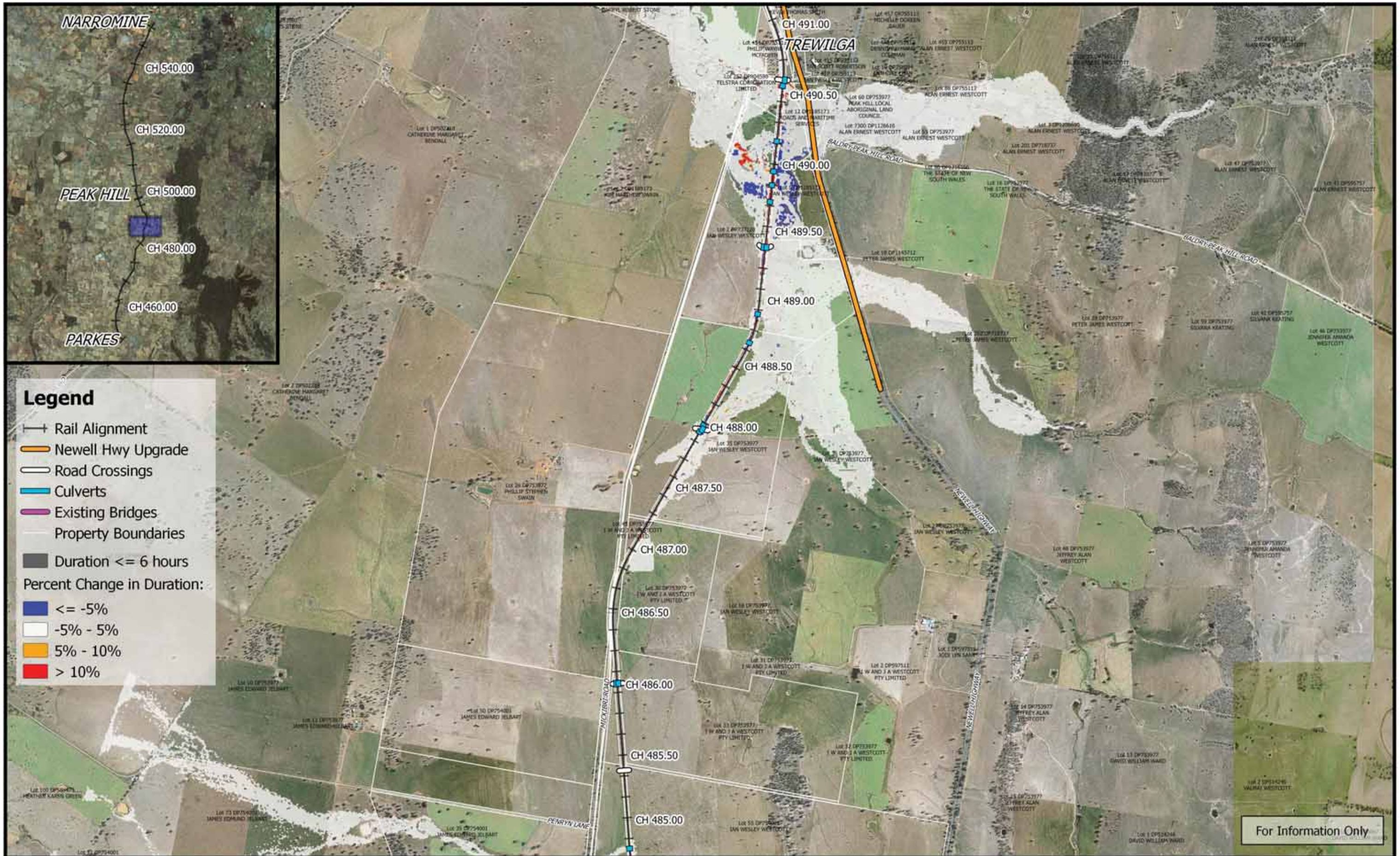
For Information Only

	 1:25,000		Date: 25/3/2019	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE5DC8 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 480.00
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only	
	Prepared By: YeohM			






For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	



For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>	 	Date: 25/3/2019	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p align="right">Figure DE5DC10 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 490.00</p>
	<p>Rev: B - For Information Only</p> <p>Prepared By: YeohM</p>			



For Information Only

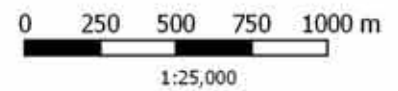
	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE5DC11 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 492.00</p>
			Rev: B - For Information Only	
Prepared By: YeohM				



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

For Information Only



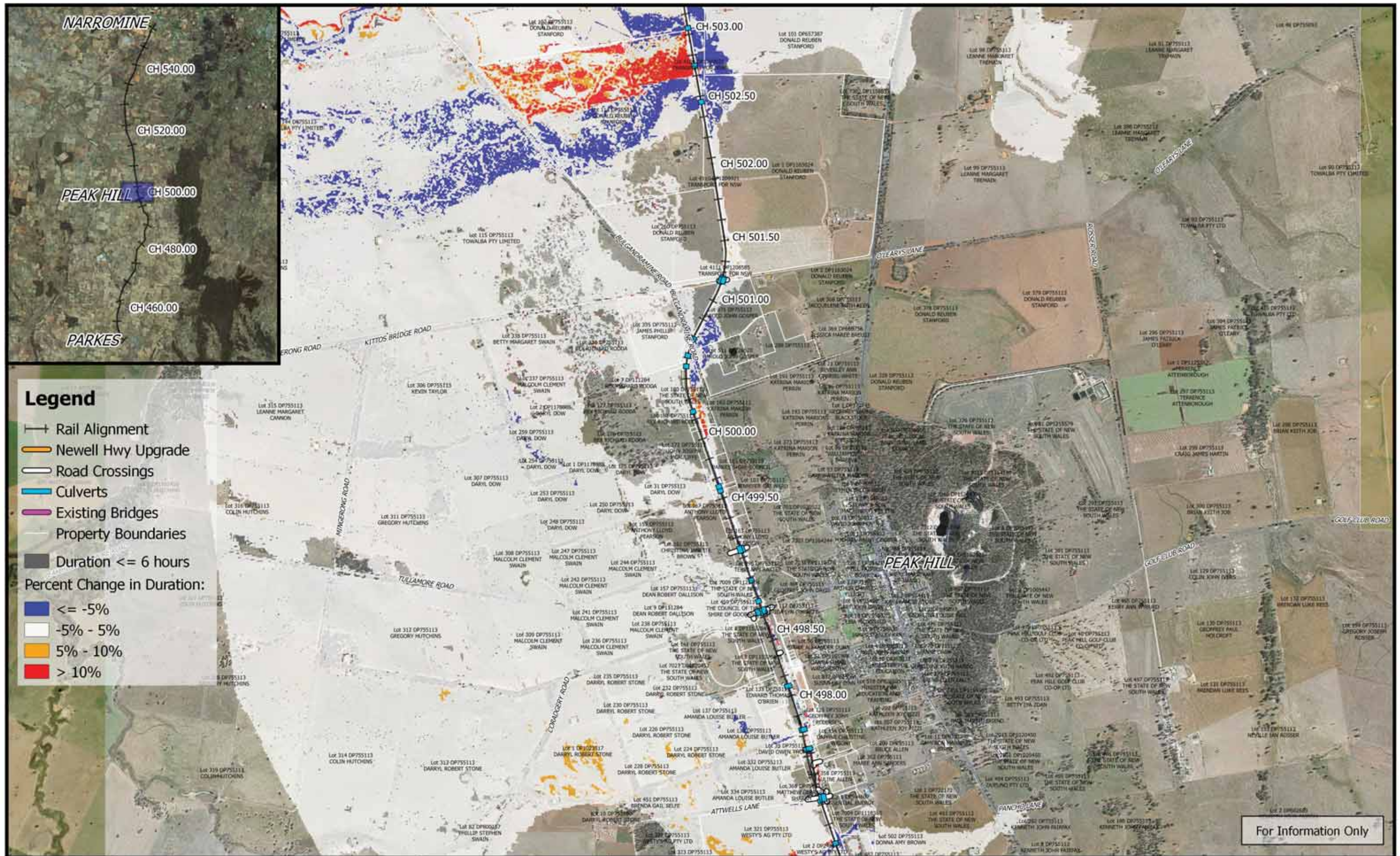
Coordinate system: GDA 1994 MGA Zone 55
 Inset Aerial Source: NSW Six Map
 Scale ratio correct when printed at A3



Date: 25/3/2019
 Rev: B - For Information Only
 Prepared By: YeohM

Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure DE5DC12
 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 495.00

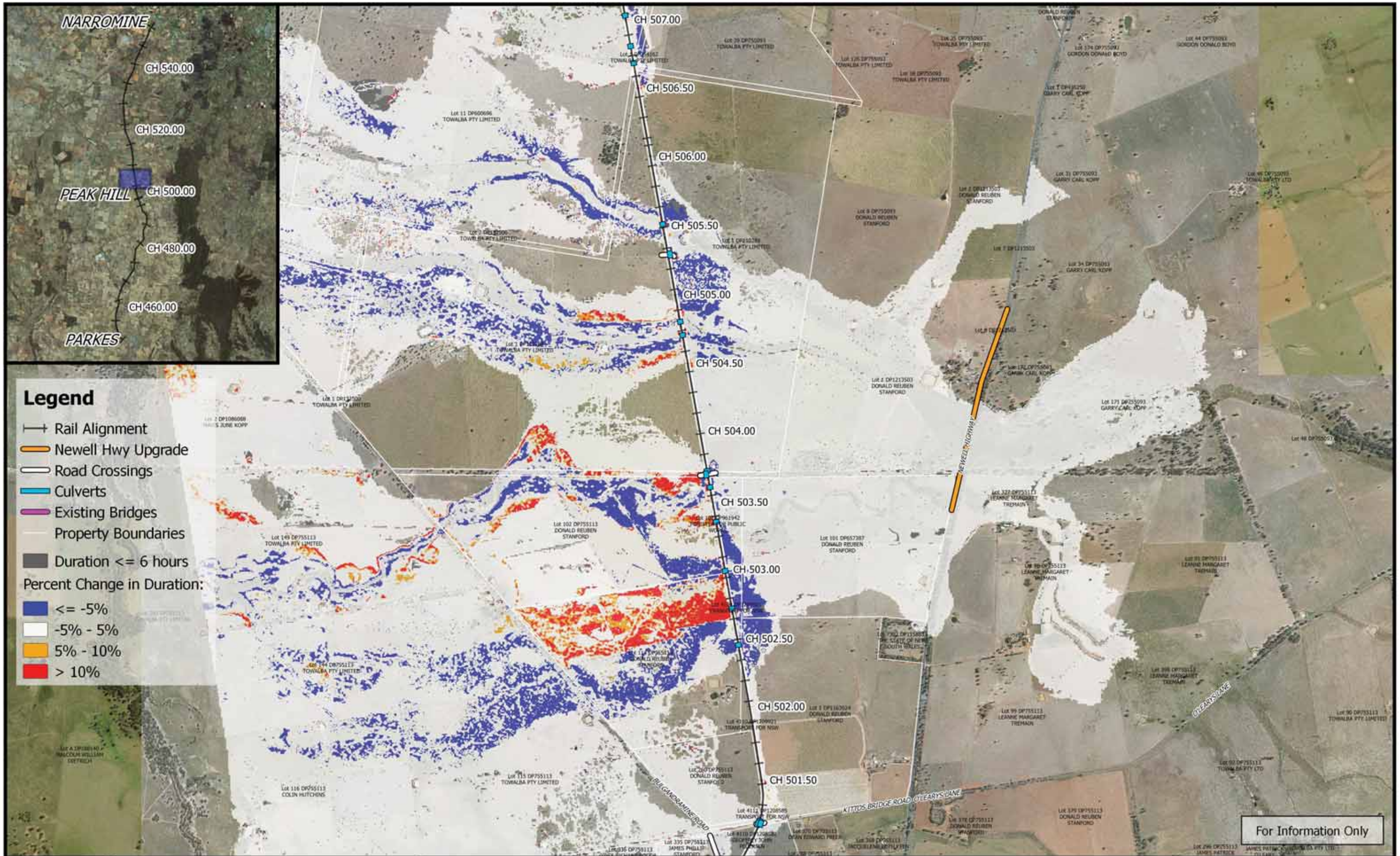


Legend

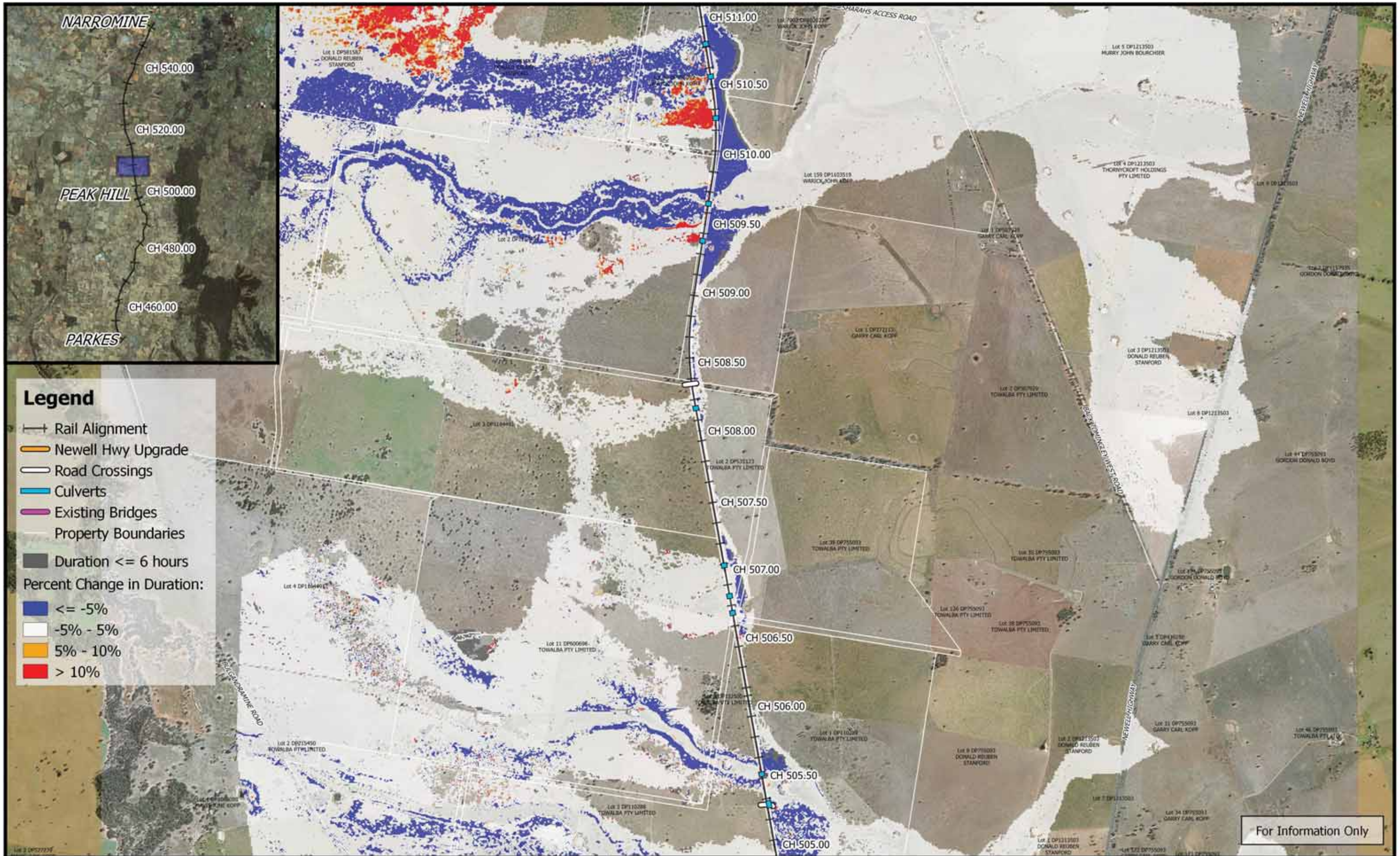
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:**
- <= -5%
- 5% - 5%
- 5% - 10%
- > 10%

For Information Only

	 1:25,000		Date: 25/3/2019 Rev: B - For Information Only Prepared By: YeohM	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results Figure DE5DC13 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 500.00
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3			



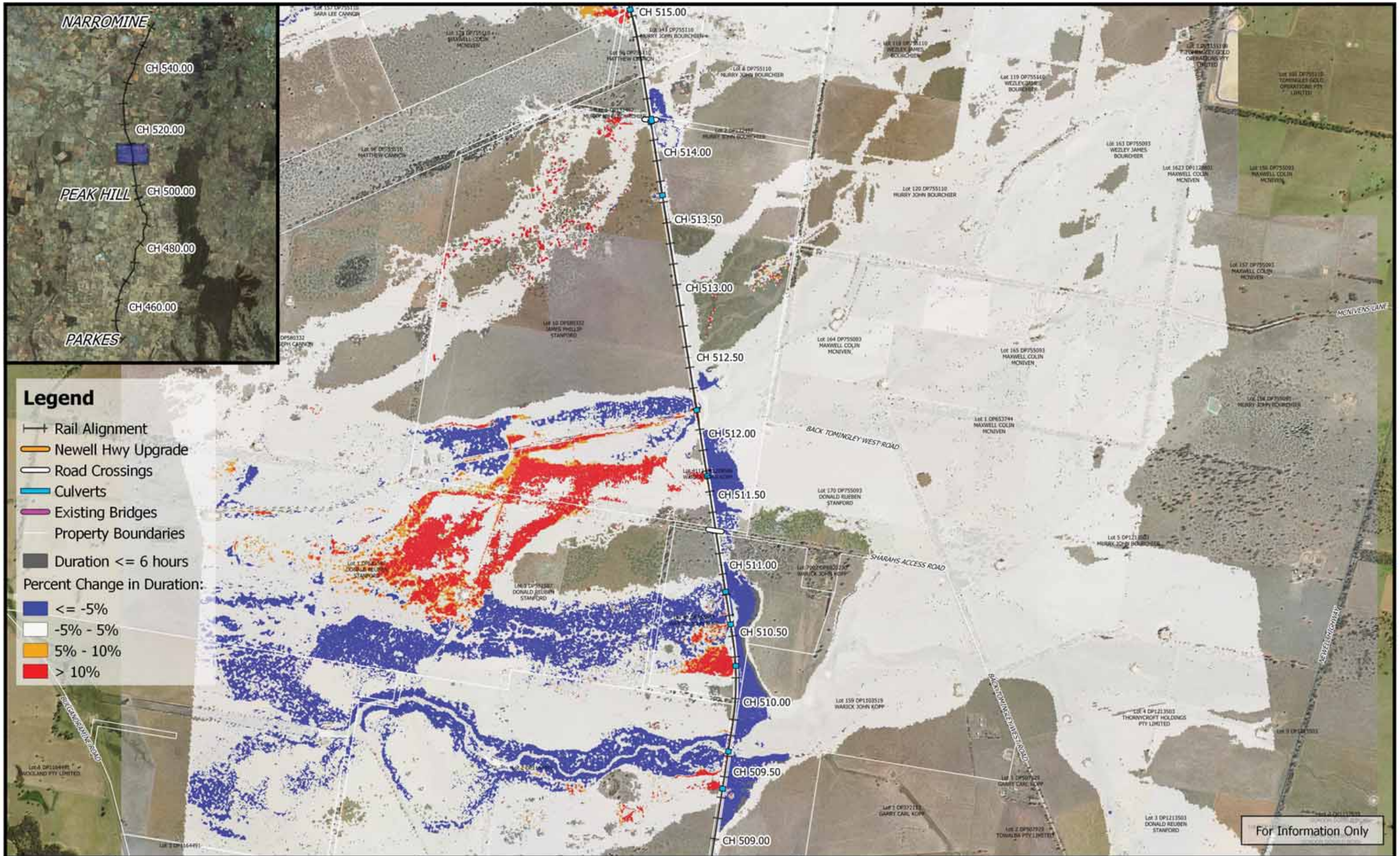
	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
		Prepared By: YeohM		



- Legend**
- +— Rail Alignment
 - Newell Hwy Upgrade
 - Road Crossings
 - Culverts
 - Existing Bridges
 - Property Boundaries
 - Duration <= 6 hours
 - Percent Change in Duration:
 - <= -5%
 - -5% - 5%
 - 5% - 10%
 - > 10%

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	

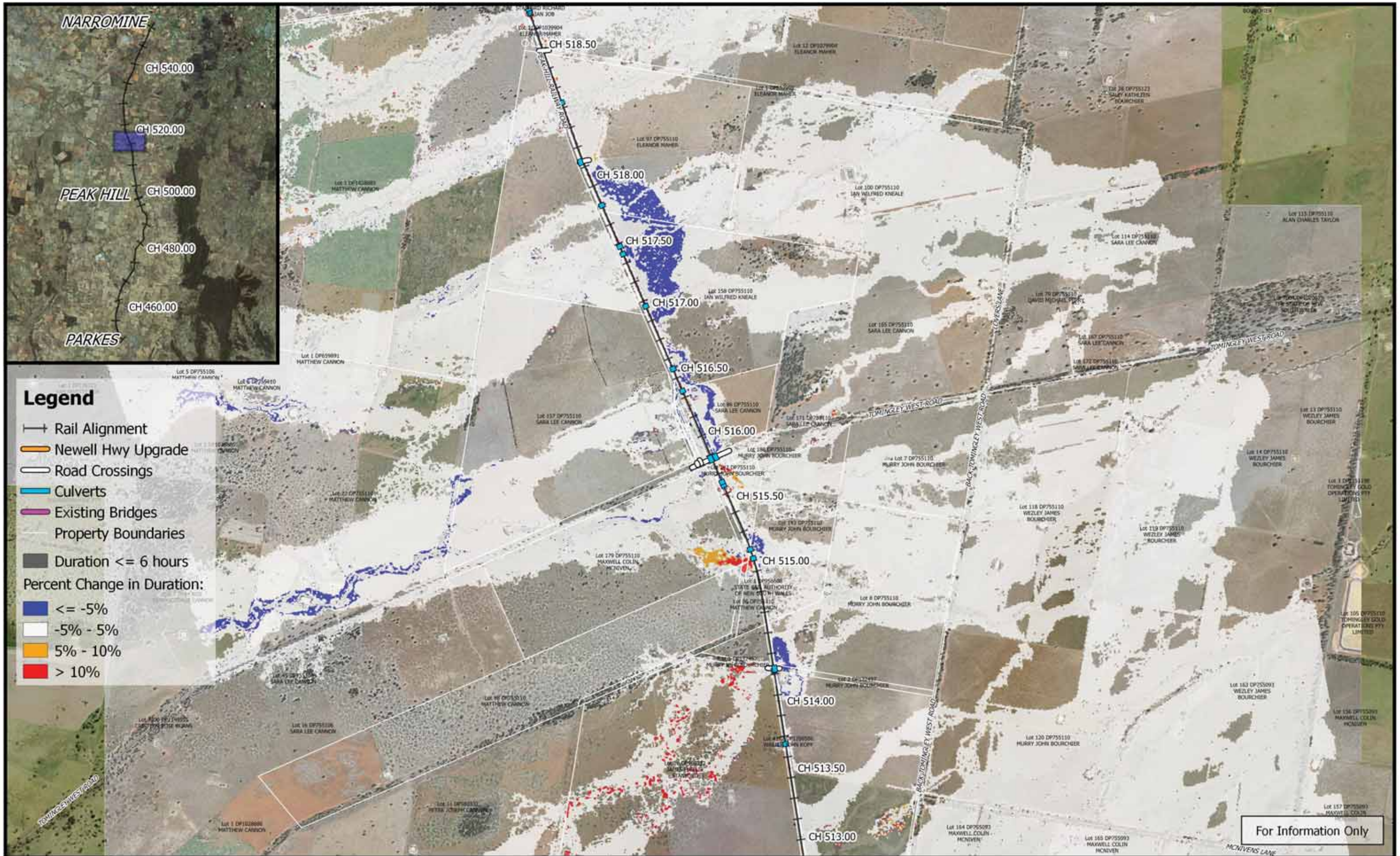


Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

For Information Only

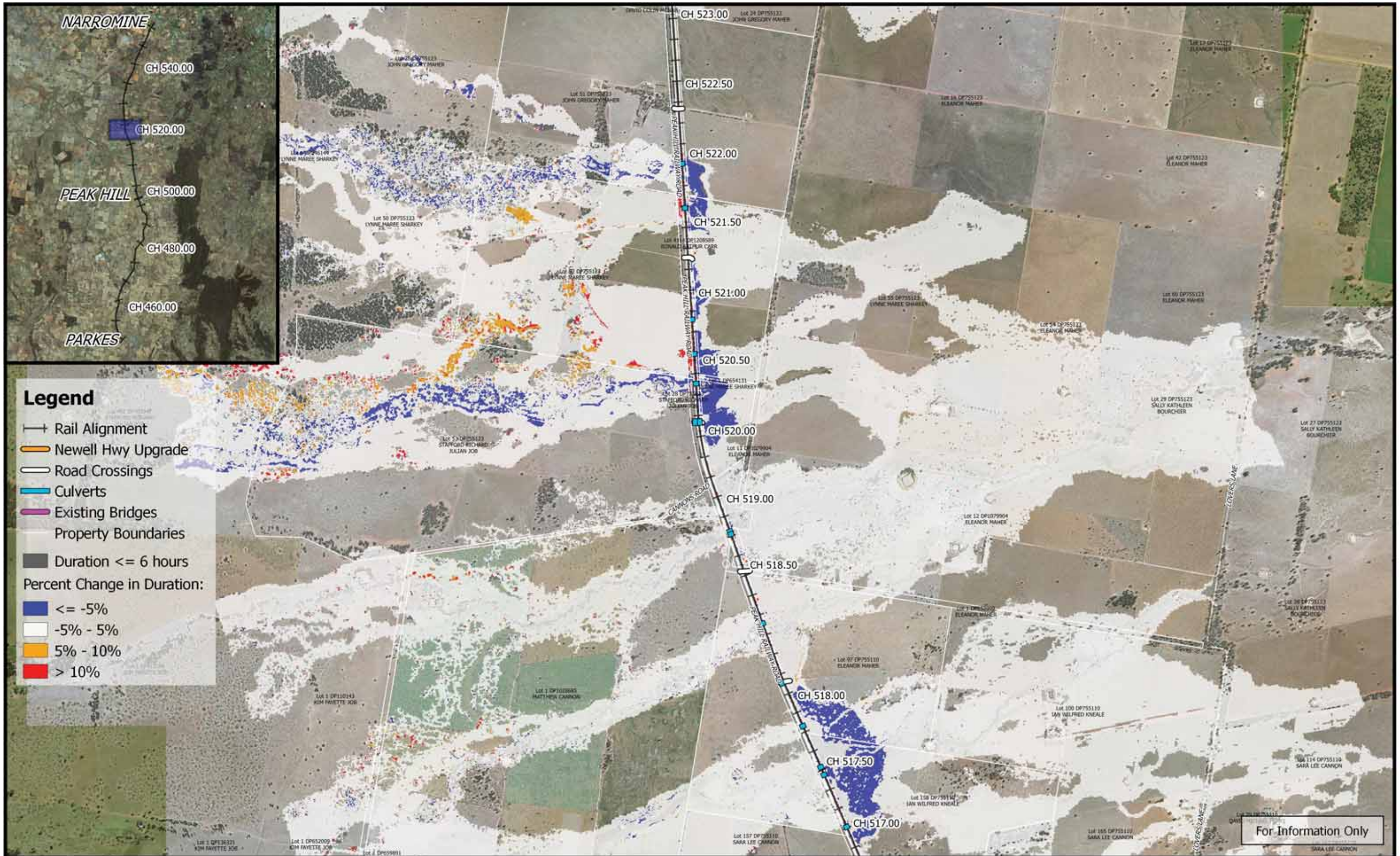
	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>		<p>Date: 25/3/2019</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Rev: B - For Information Only</p>	<p>Figure DE5DC16 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 512.00</p>
<p>Prepared By: YeohM</p>				



- Legend**
- Rail Alignment
 - Newell Hwy Upgrade
 - Road Crossings
 - Culverts
 - Existing Bridges
 - Property Boundaries
 - Duration <= 6 hours
 - Percent Change in Duration:**
 - <= -5%
 - 5% - 5%
 - 5% - 10%
 - > 10%

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>	 	Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine</p> <p>IFC - Cross Drainage Flood Impact Assessment Results</p>
	<p>Coordinate system: GDA 1994 MGA Zone 55</p> <p>Inset Aerial Source: NSW Six Map</p> <p>Scale ratio correct when printed at A3</p>		Rev: B - For Information Only	
<p>Prepared By: YeohM</p>				

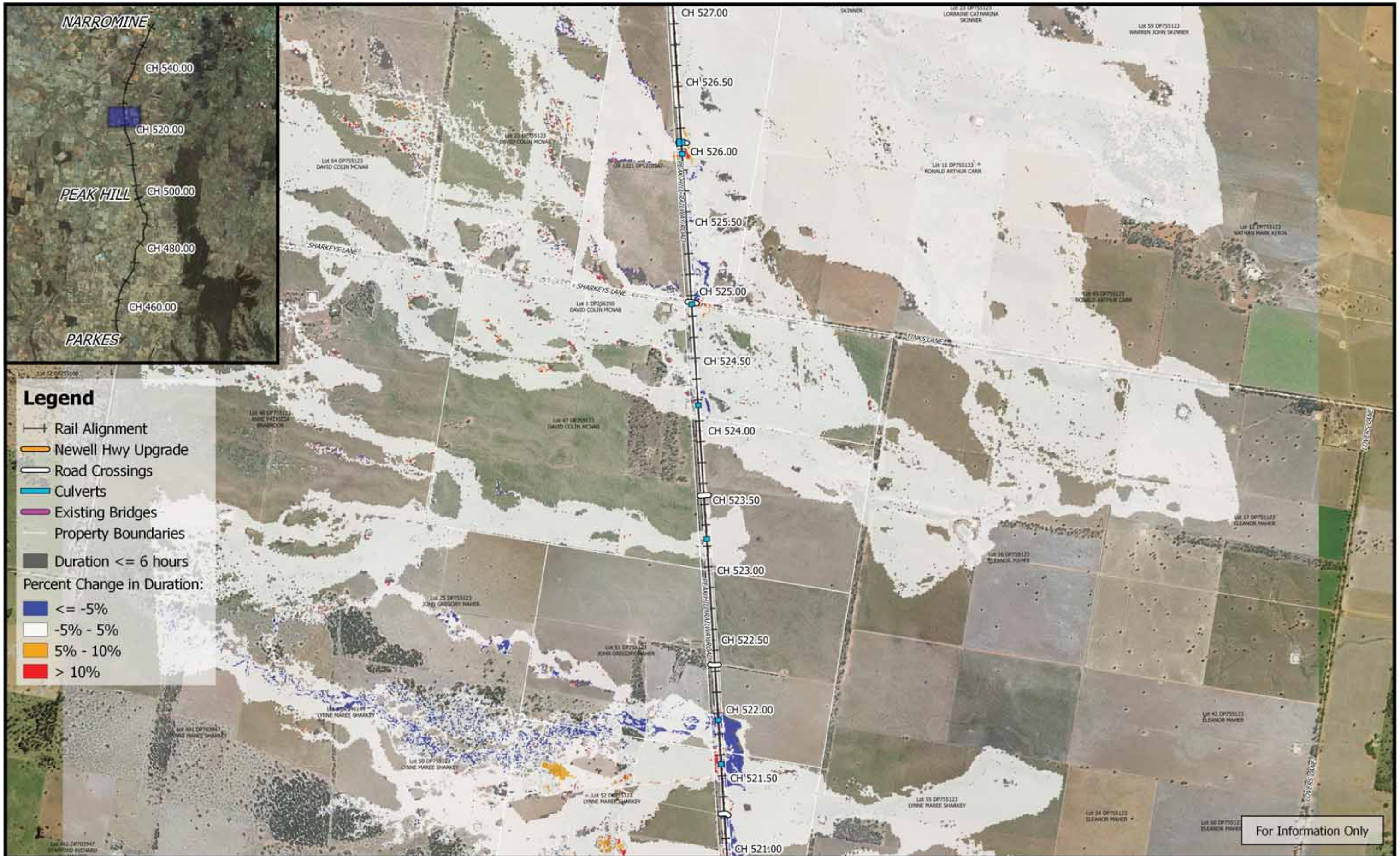


Legend

- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- 5% - 5%
- 5% - 10%
- > 10%

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	

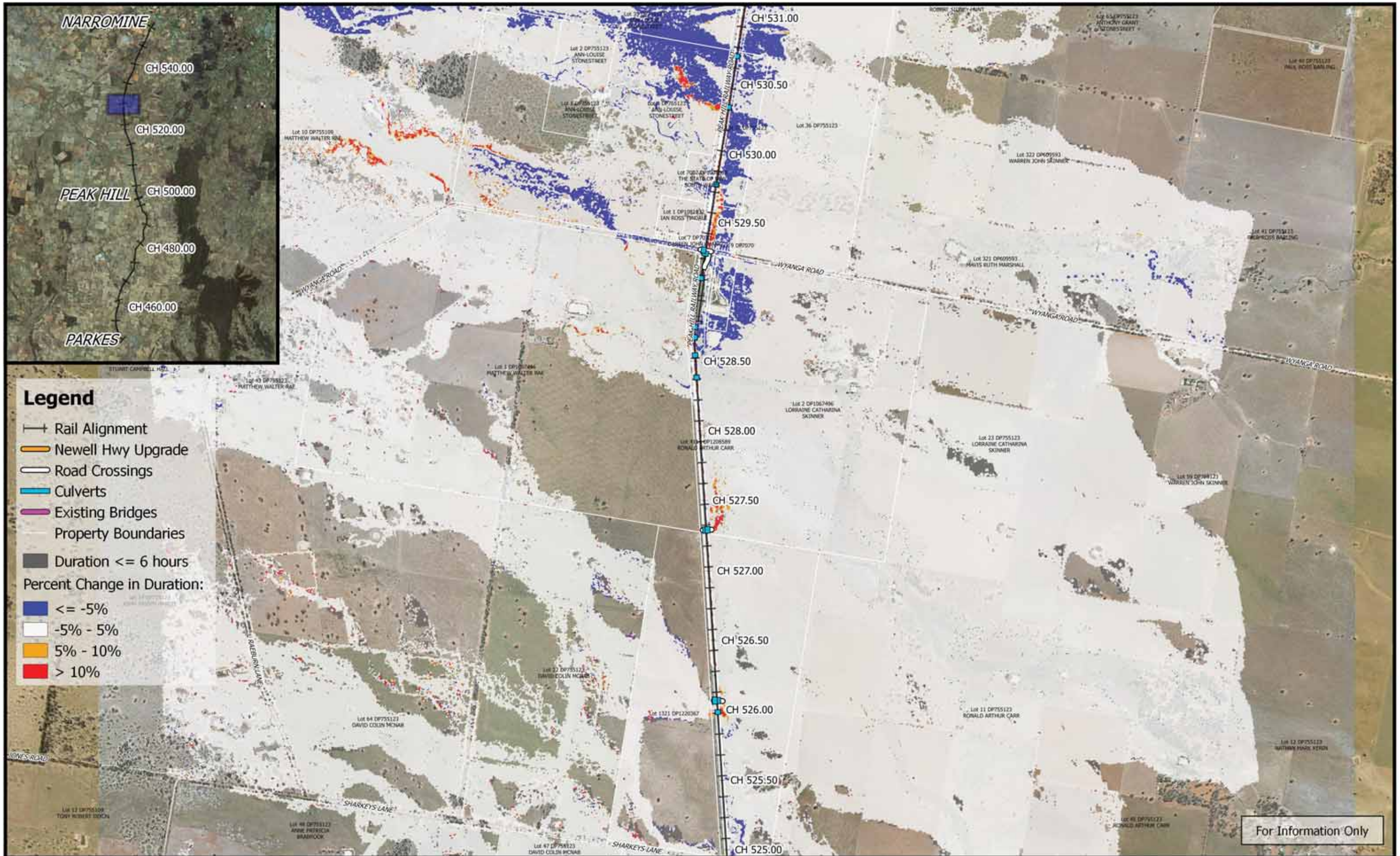


Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

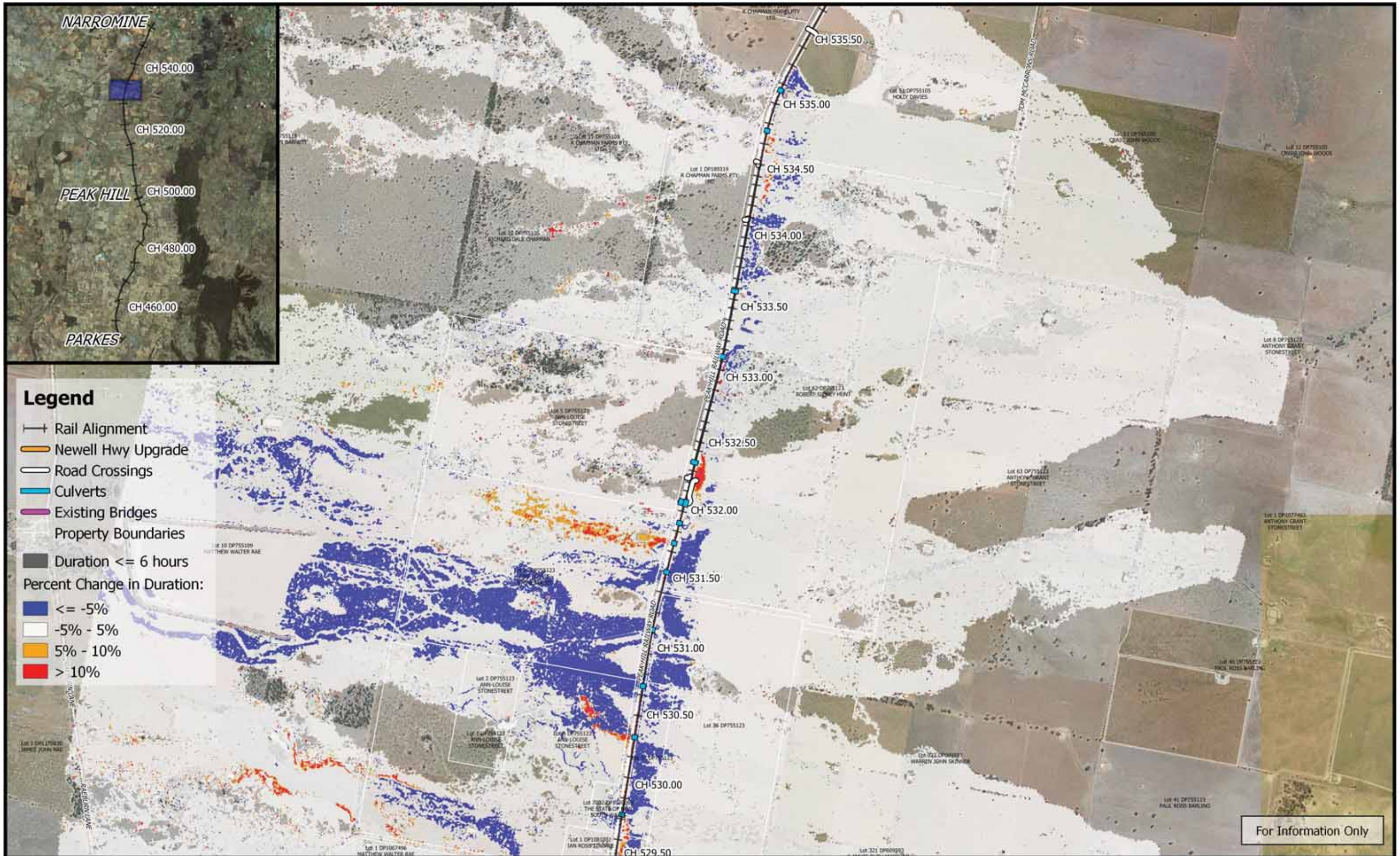
For Information Only

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			Rev: B - For Information Only	
			Prepared By: YeohM	





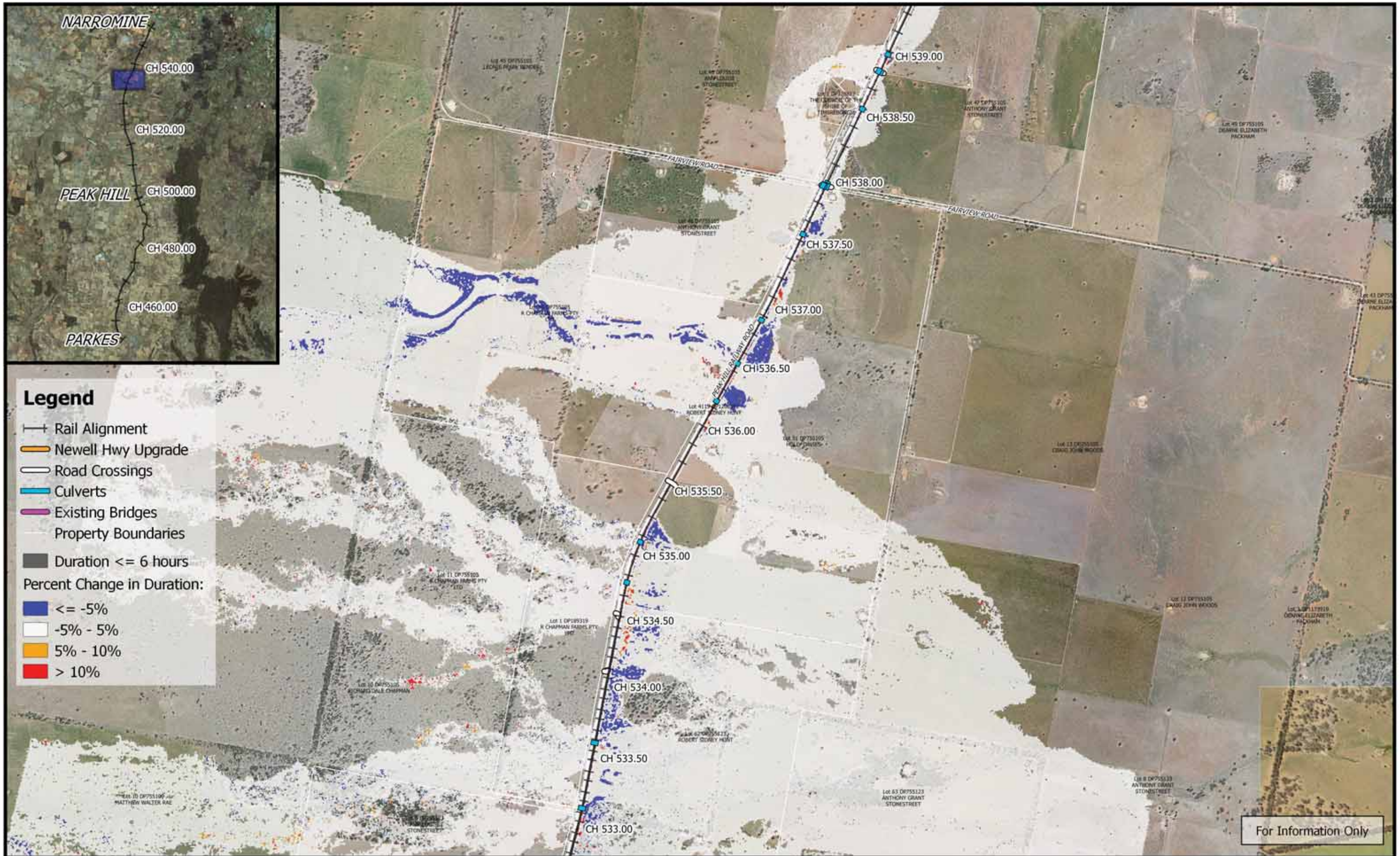
For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	



For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>	 	<p>Date: 25/3/2019</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Rev: B - For Information Only</p>	
<p>Prepared By: YeohM</p>				



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours

Percent Change in Duration:

- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

For Information Only


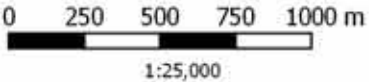

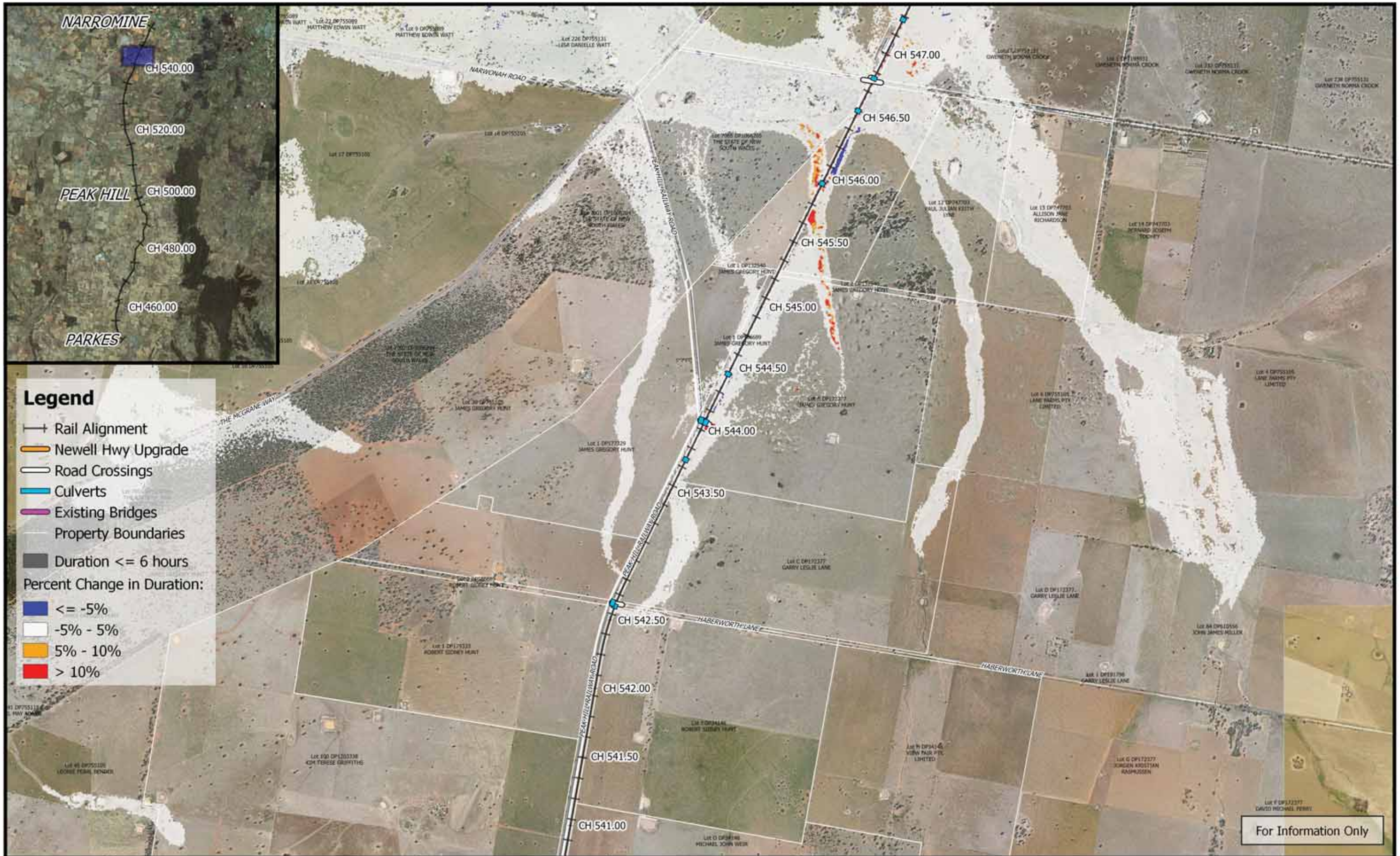
	 1:25,000		Date: 25/3/2019	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results	
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only		
			Prepared By: YeohM		

Figure DE5DC23
5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 540.00



Legend

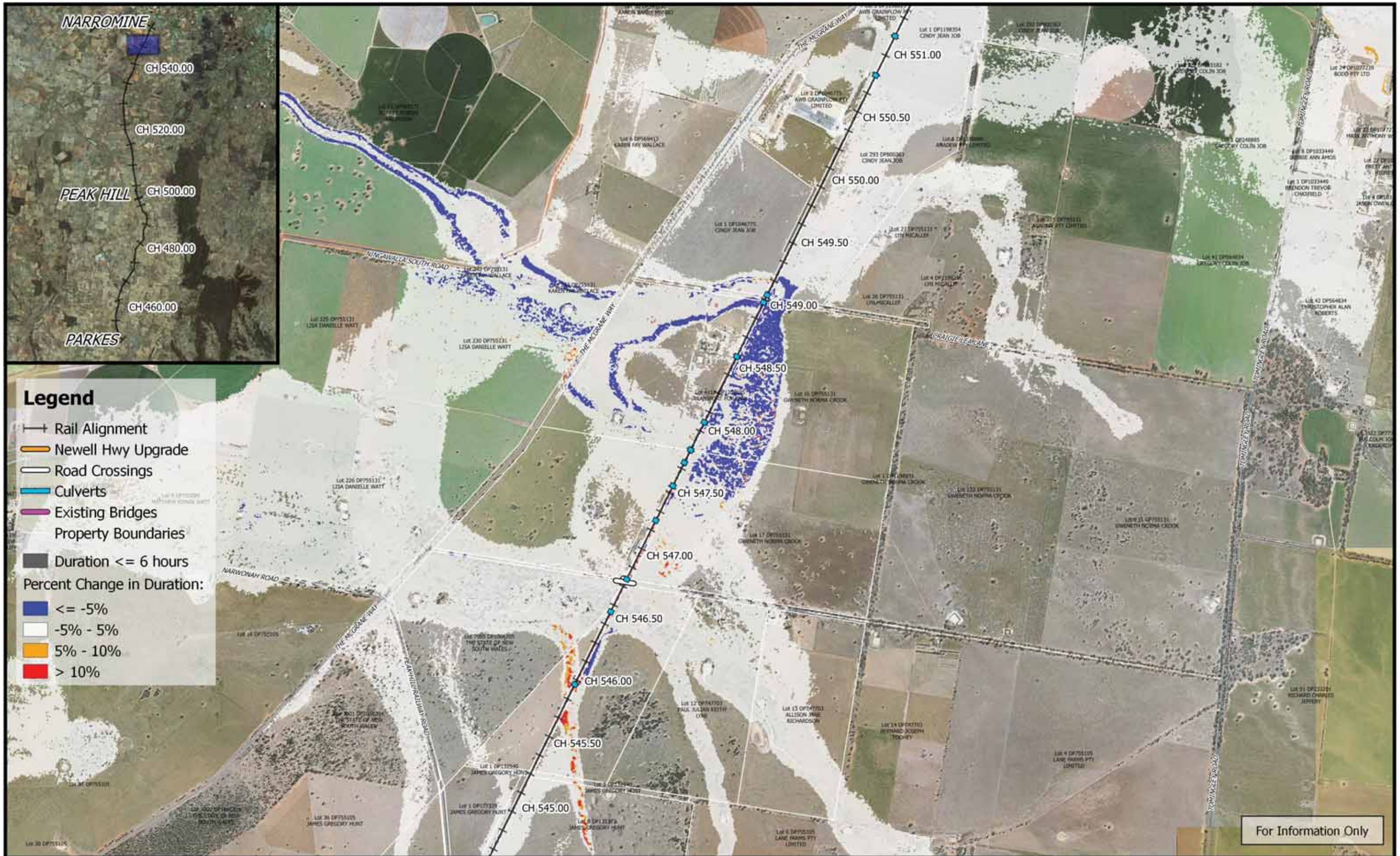
- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours

Percent Change in Duration:

- Blue: <= -5%
- White: -5% - 5%
- Yellow: 5% - 10%
- Red: > 10%

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>	 	Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine</p> <p>IFC - Cross Drainage Flood Impact Assessment Results</p>
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only	
			Prepared By: YeohM	



Legend

- +— Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours
- Percent Change in Duration:
- <= -5%
- -5% - 5%
- 5% - 10%
- > 10%

For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 25/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE5DC25 5% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 550.00</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	