

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

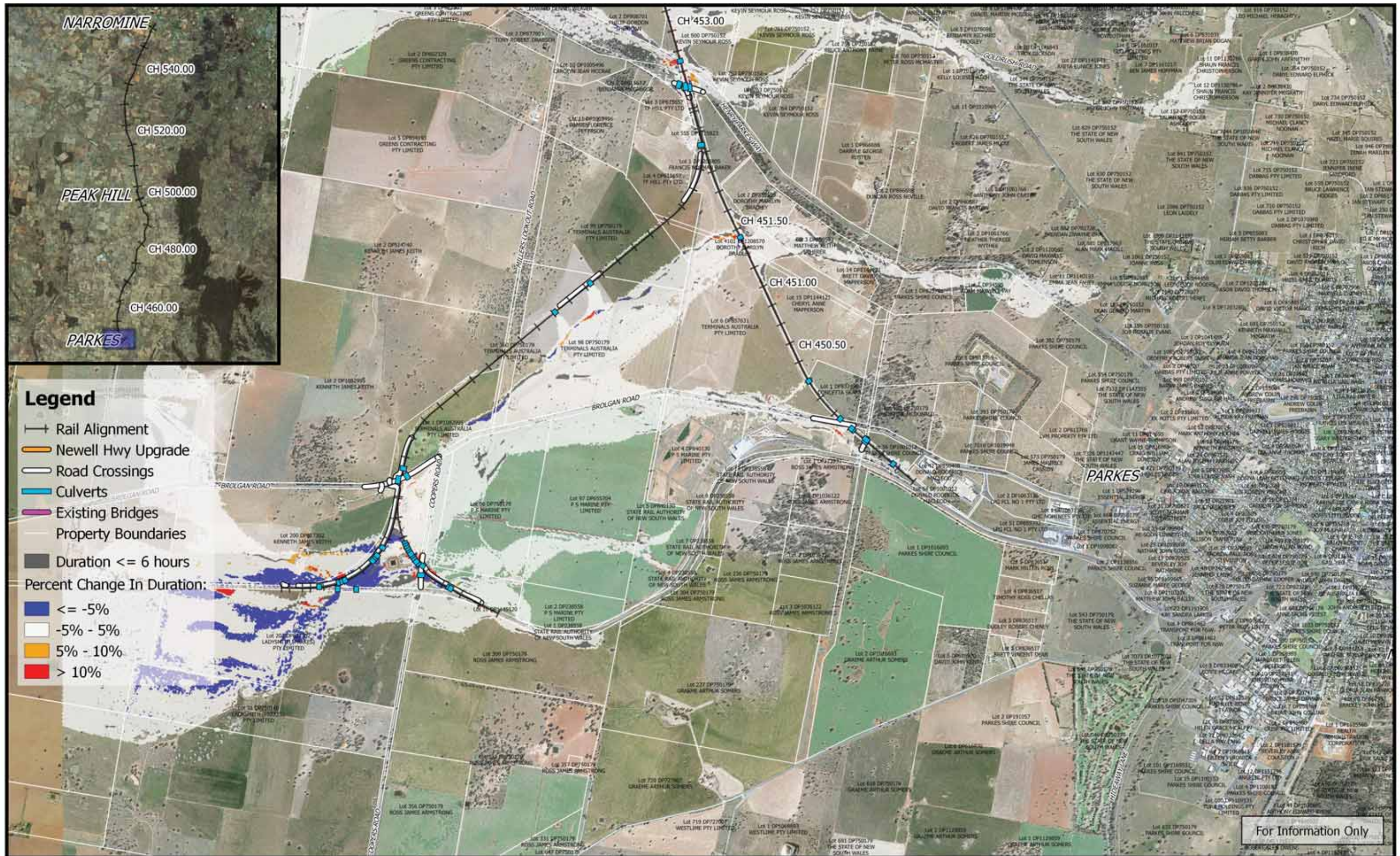
B09 – Flood Duration Change 18% AEP

B10 – Flood Duration Change 5% AEP

B11 – Flood Duration Change 2% AEP

B12 – Flood Duration Change 0.05% AEP

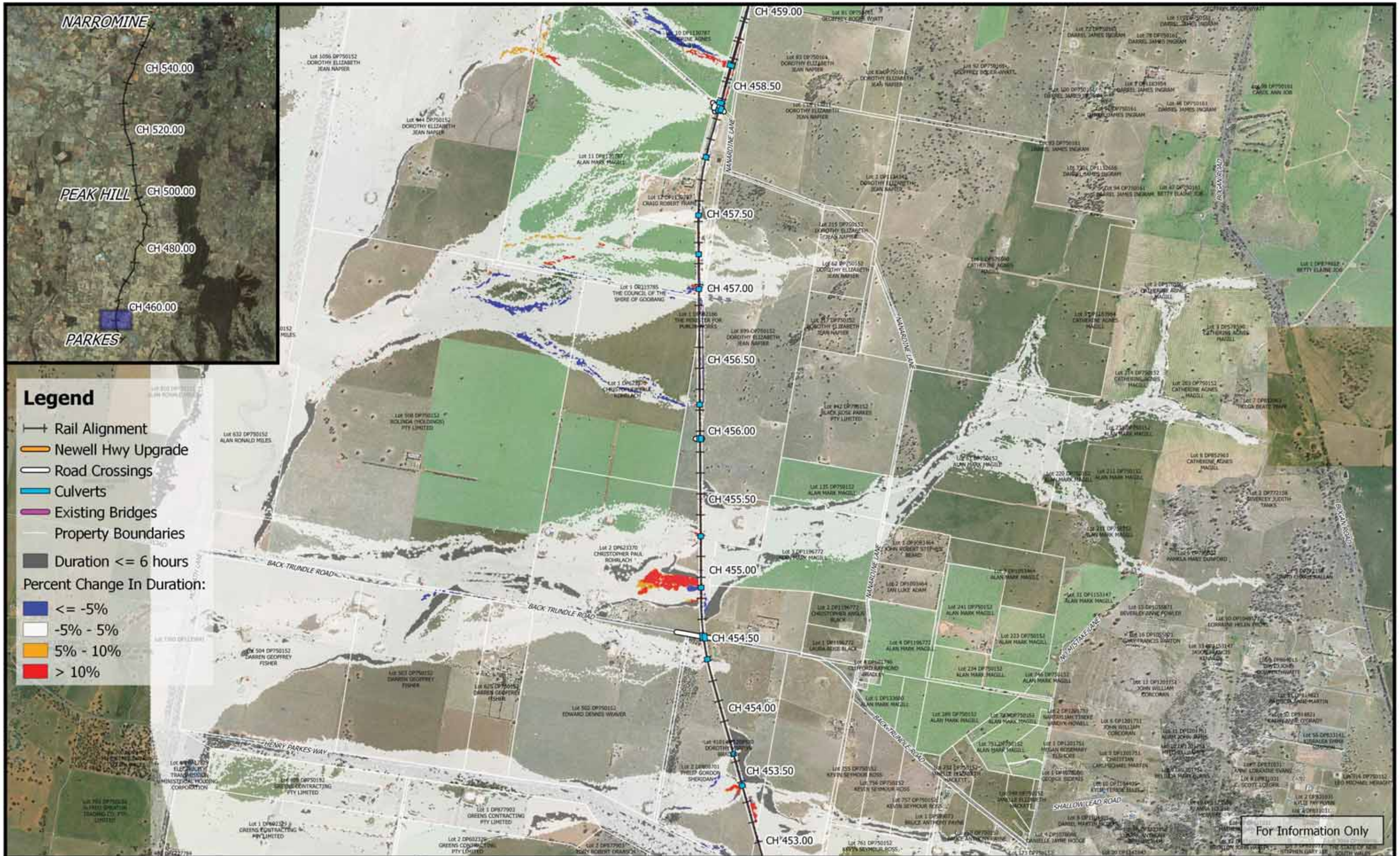




For Information Only

	<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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE0.05DC1 0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 450.00</p>
			<p>Rev: B - For Information Only</p> <p>Prepared By: YeohM</p>	

E:\22\dm\wsp\12\UR_P2N_1101\WSP\Flooding and Drainage\GIS Mapping\Individual Property Maps\Mapping_Full_Projects - 2.18.18



For Information Only

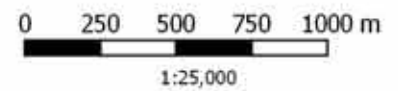
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			<p>Rev: B - For Information Only</p> <p>Prepared By: YeohM</p>	



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



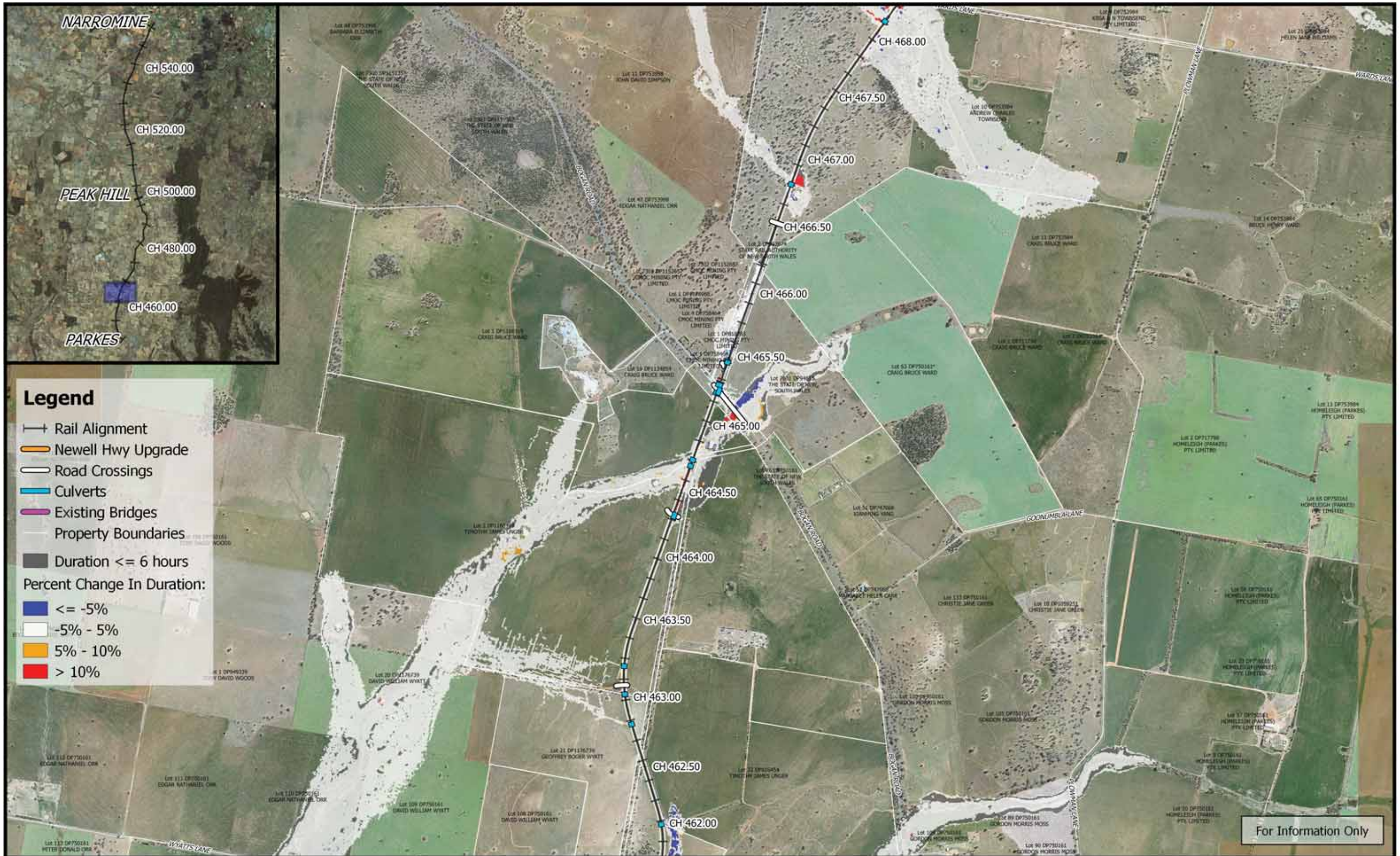
Coordinate system: GDA 1994 MGA Zone 55
 Inset Aerial Source: NSW Six Map
 Scale ratio correct when printed at A3



Date: 26/3/2019
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 Prepared By: YeohM

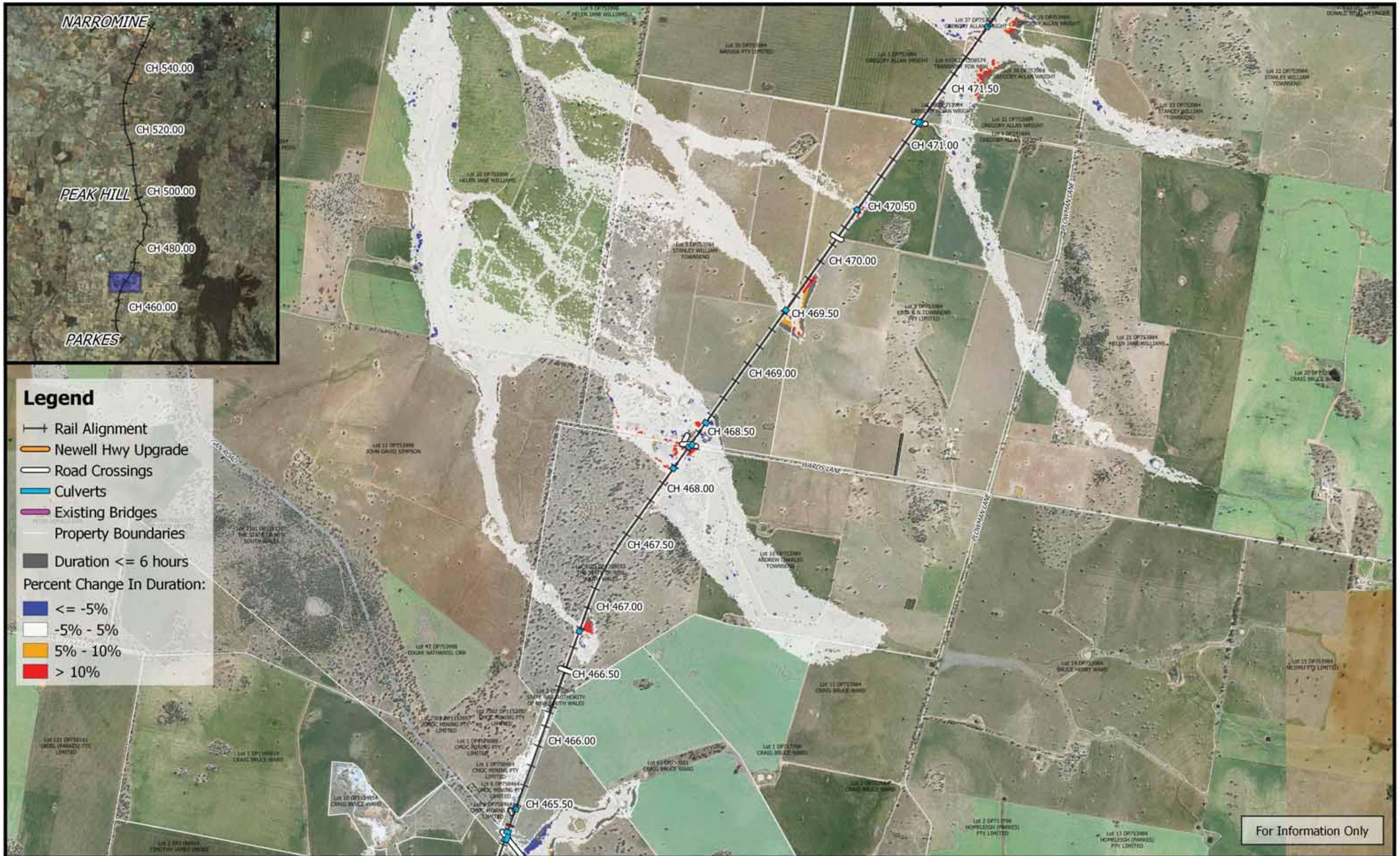
Inland Rail - Parkes to Narromine
 IFC - Cross Drainage Flood Impact Assessment Results

Figure DE0.05DC3
 0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 460.00



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: 26/3/2019	<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%

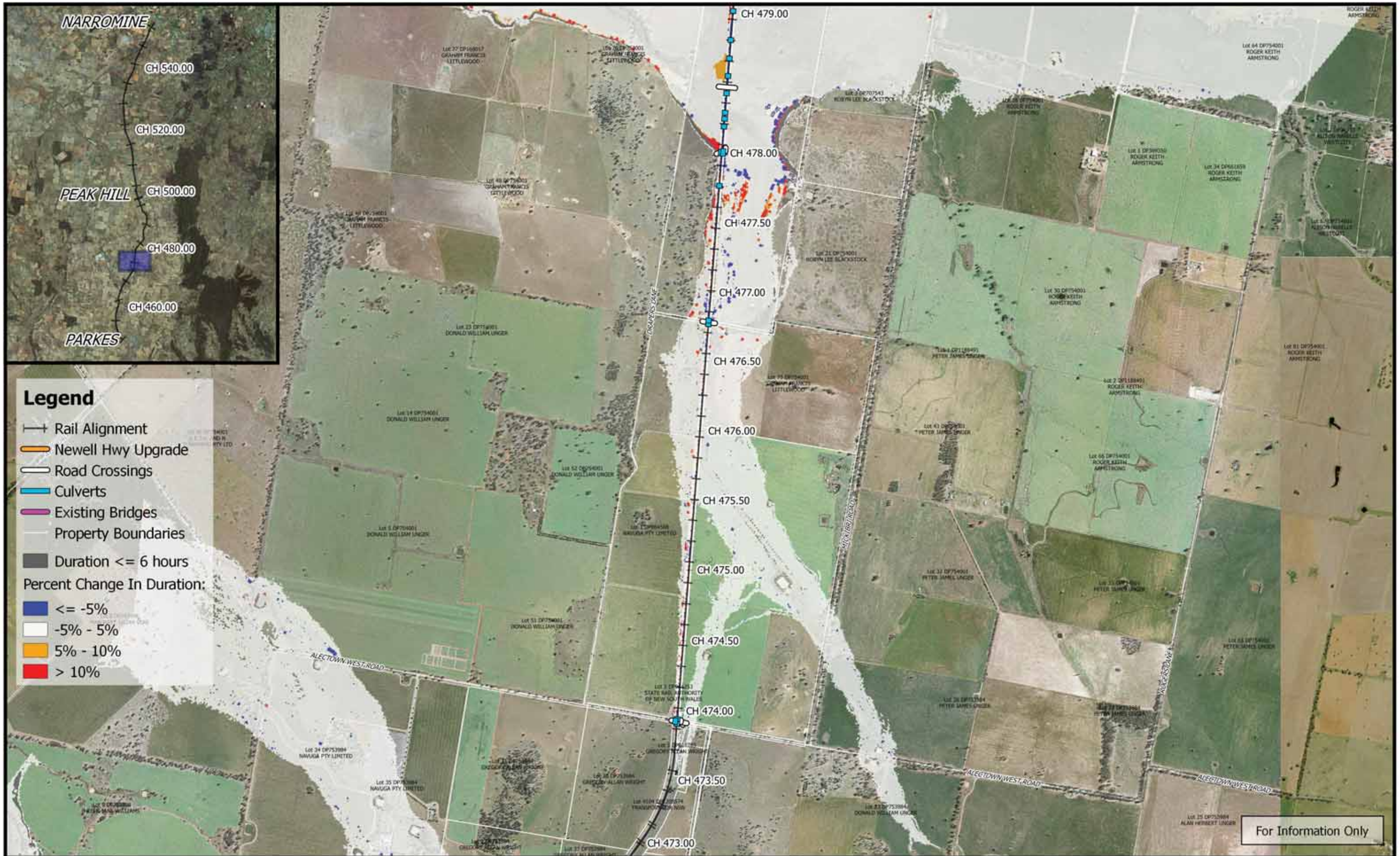
For Information Only

	<p>0 250 500 750 1000 m</p> <p>1:25,000</p>		<p>Date: 26/3/2019</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 DE0.05DC5 <i>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 470.00</i></p>
		<p>Prepared By: YeohM</p>		

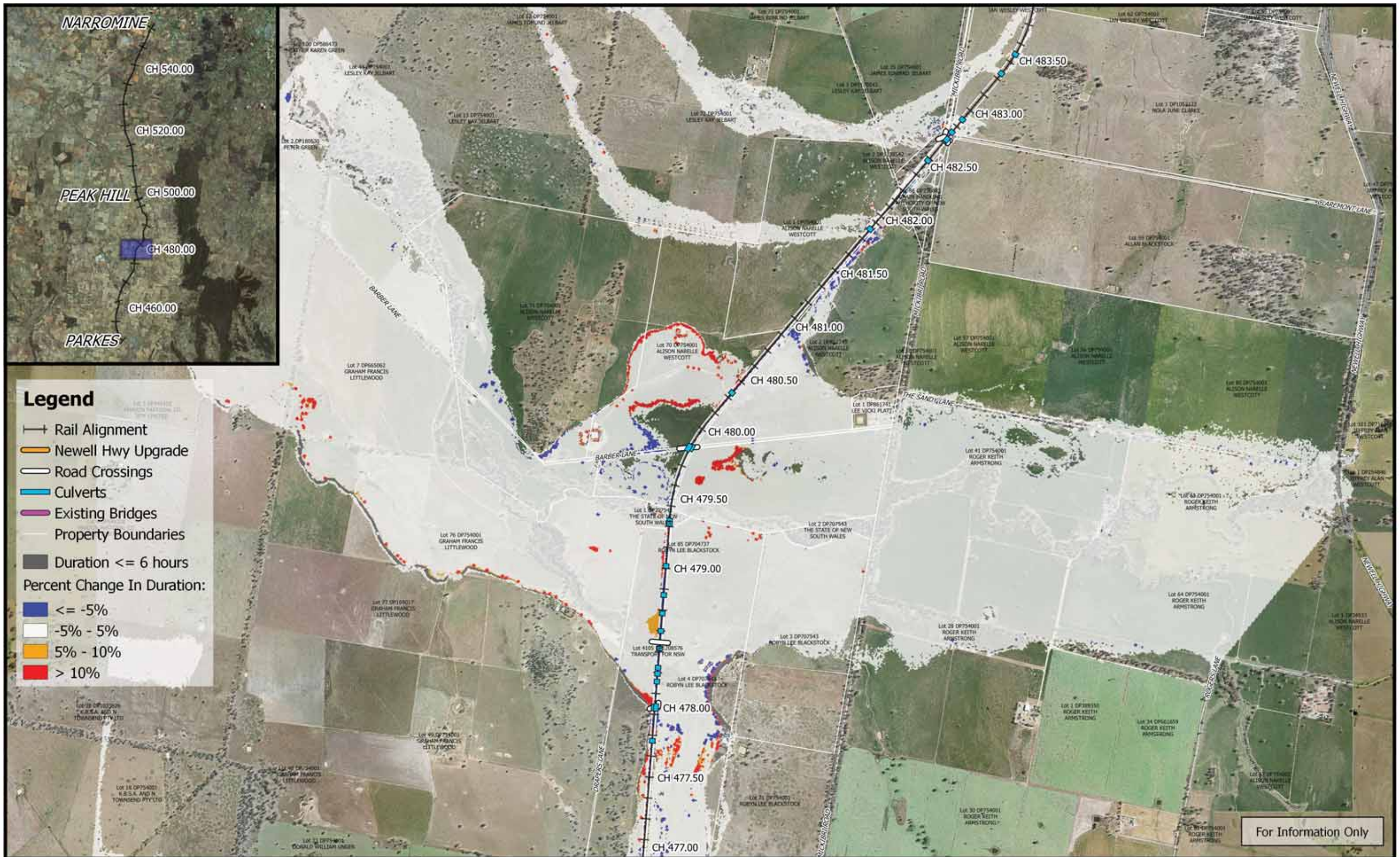





For Information Only

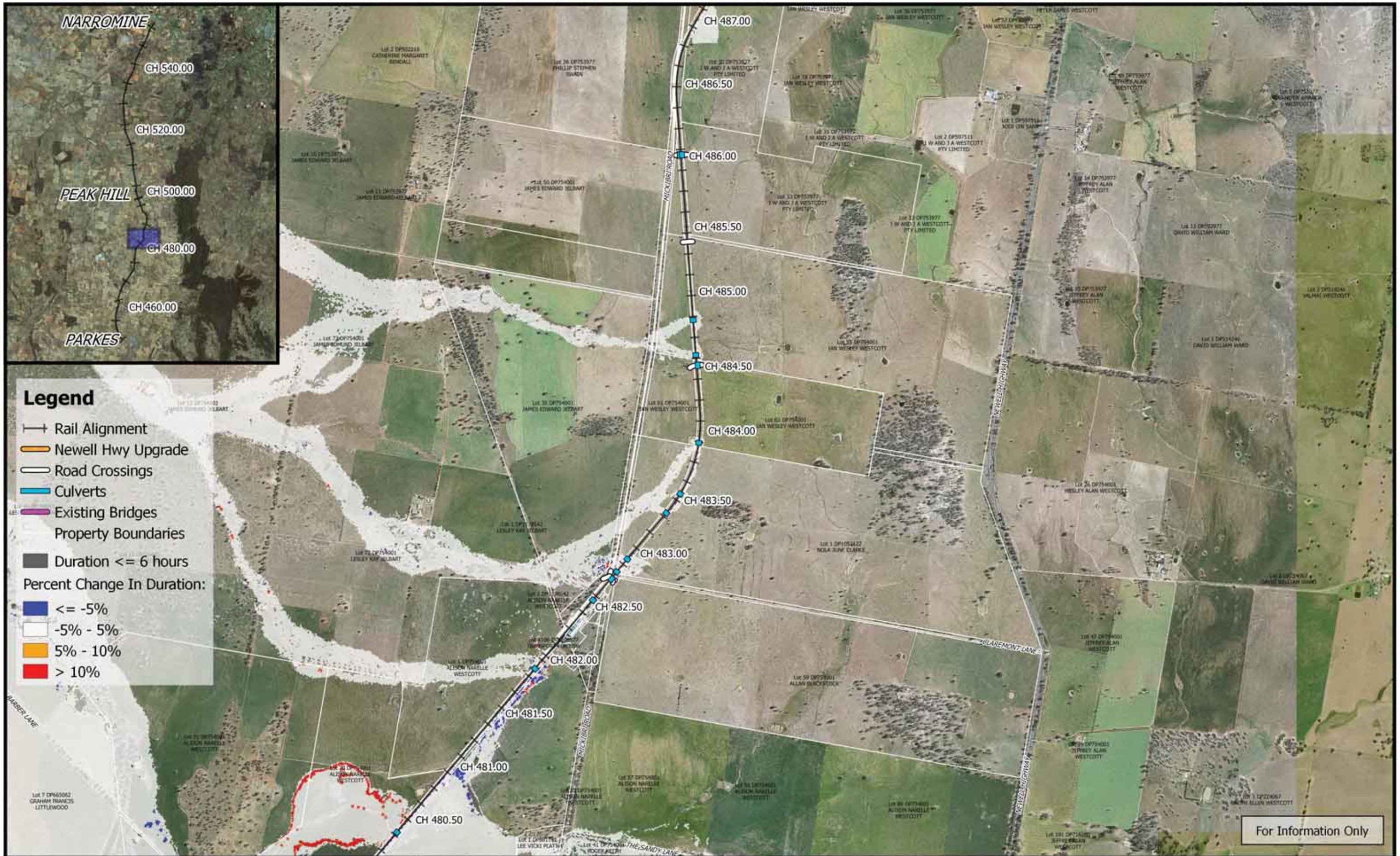
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			Prepared By: YeohM	





	<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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	

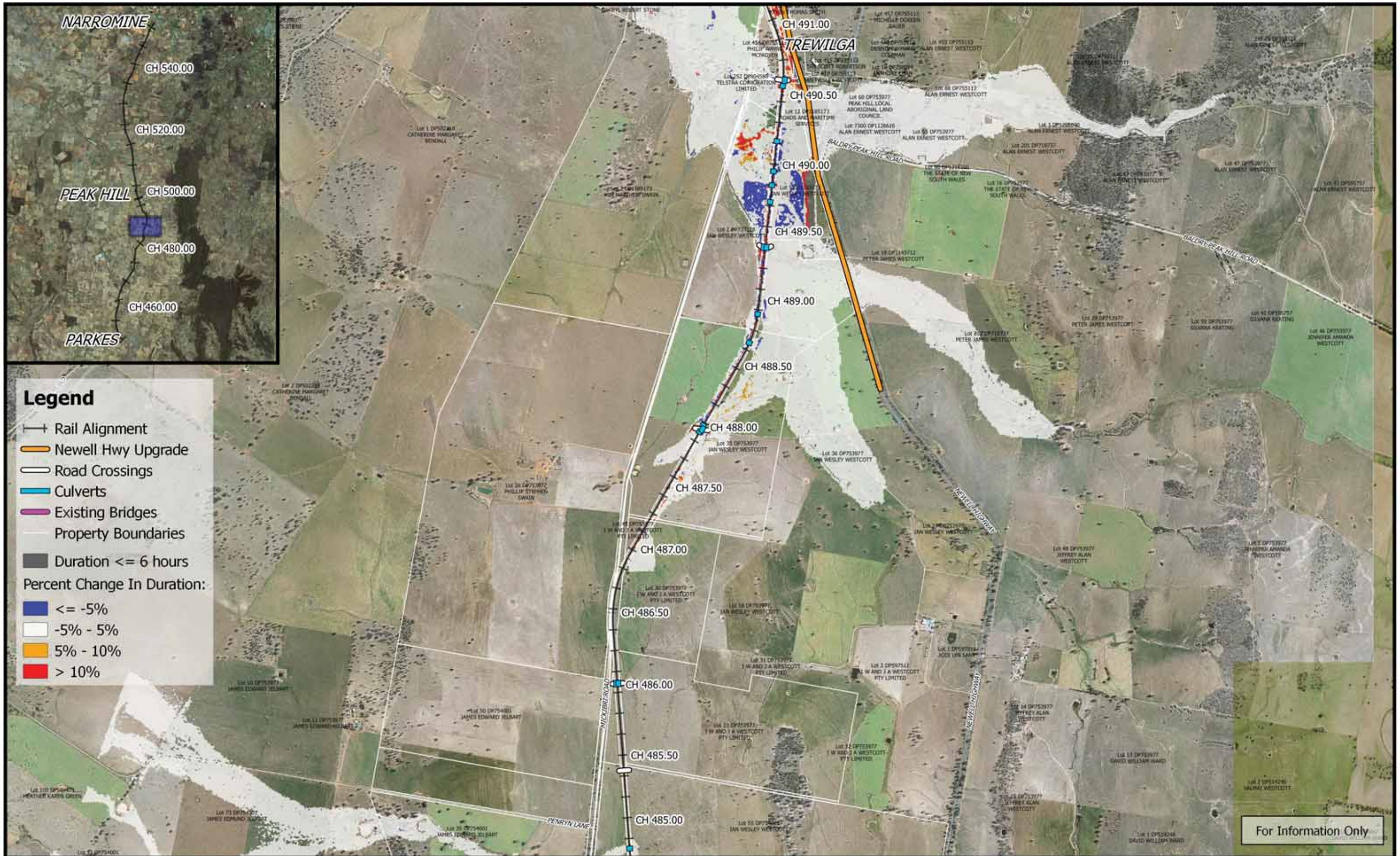


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	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only	
			Prepared By: YeohM	






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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE0.05DC9 0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 485.00</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	



- Legend**
- Rail Alignment
 - Newell Hwy Upgrade
 - Road Crossings
 - Culverts
 - Existing Bridges
 - Property Boundaries
 - Duration \leq 6 hours
 - Percent Change In Duration:
 - $\leq -5\%$
 - $-5\% - 5\%$
 - $5\% - 10\%$
 - $> 10\%$

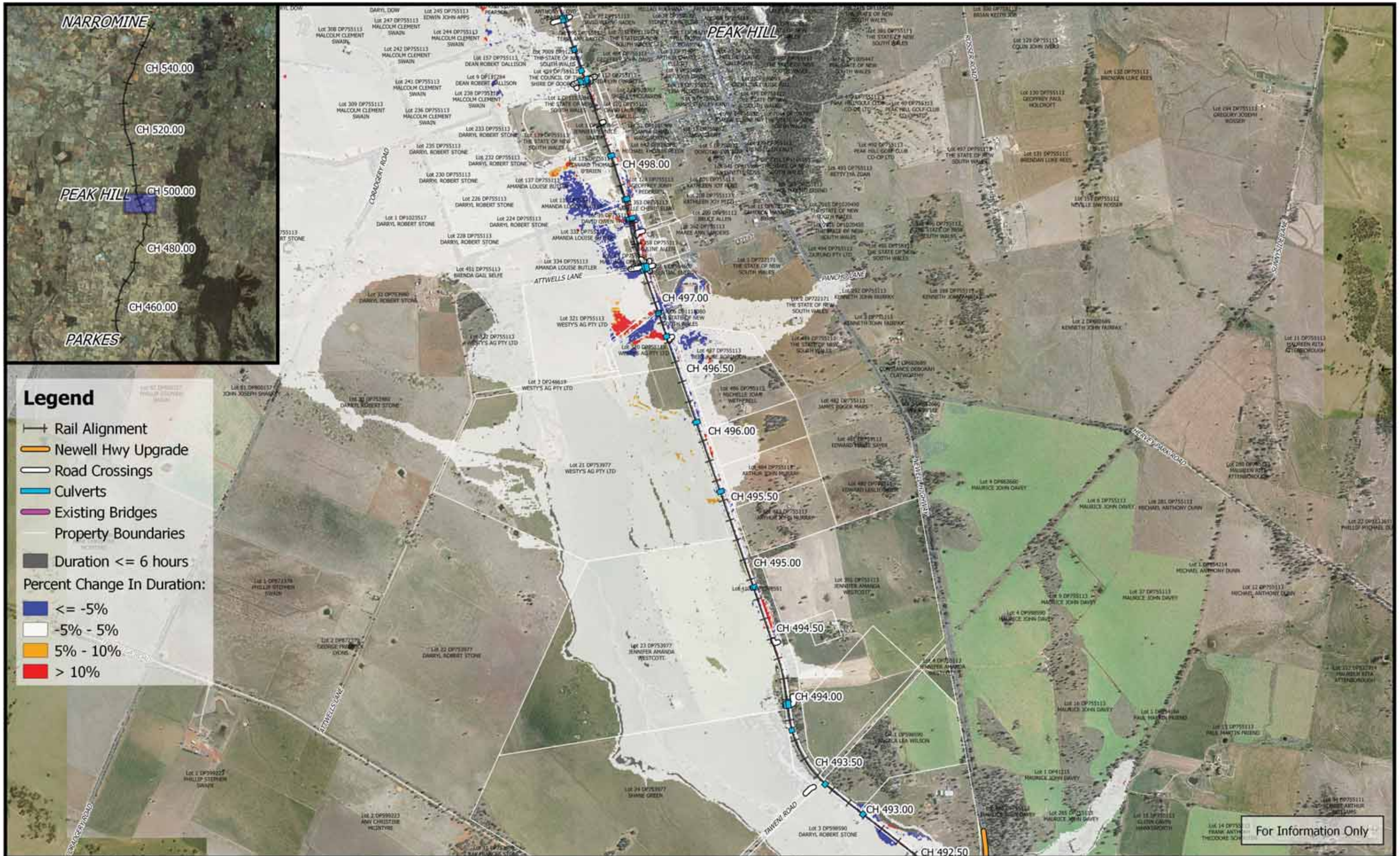
For Information Only

	<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>	 	<p>Date: 26/3/2019</p> <p>Rev: B - For Information Only</p> <p>Prepared By: YeohM</p>	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE0.05DC10 <i>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 490.00</i></p>
	<p>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 490.00</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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE0.05DC11 <i>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 492.00</i></p>
			Rev: B - For Information Only	
Prepared By: YeohM				



Legend

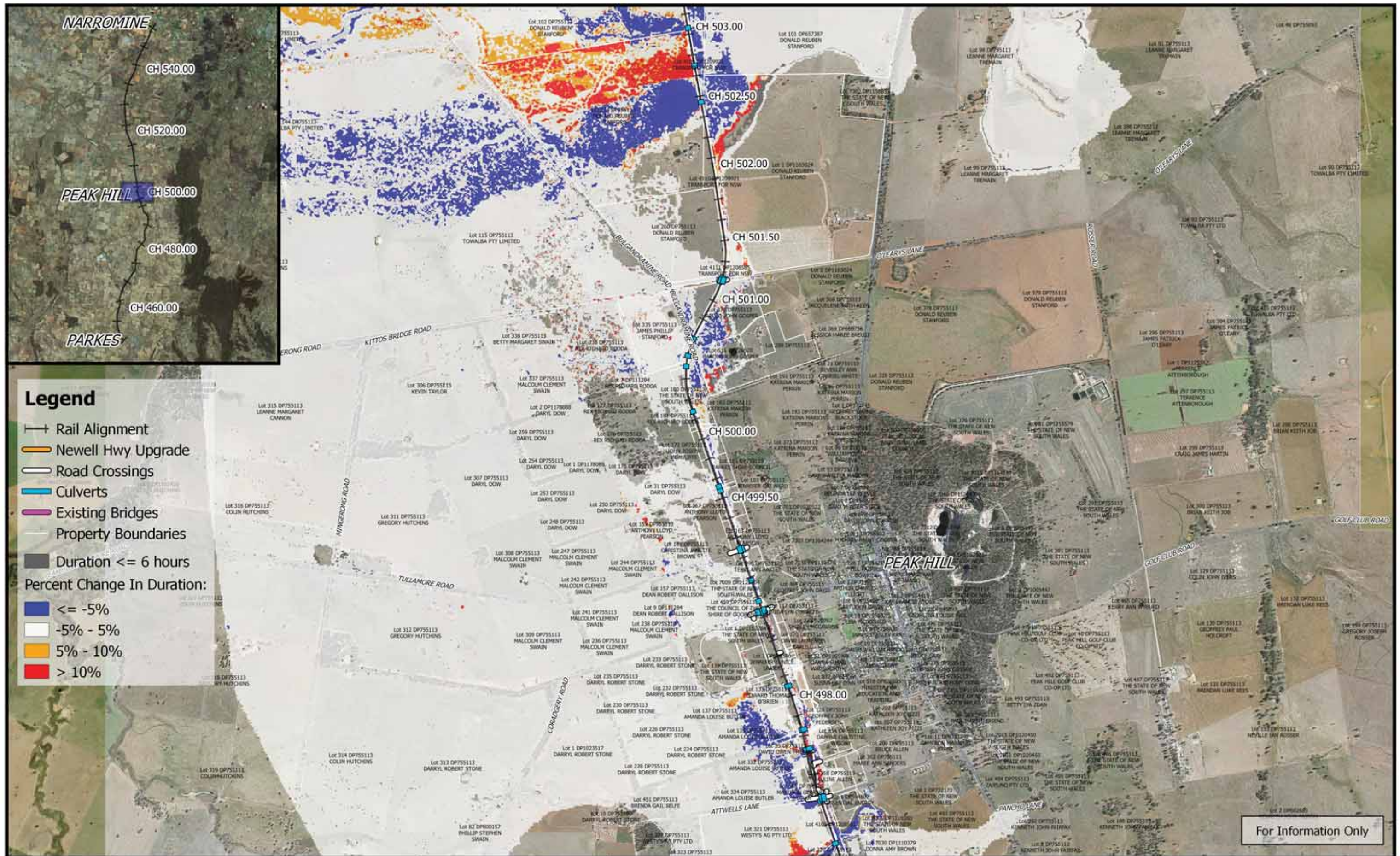
- Rail Alignment
- Newell Hwy Upgrade
- Road Crossings
- Culverts
- Existing Bridges
- Property Boundaries
- Duration <= 6 hours

Percent Change In Duration:

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

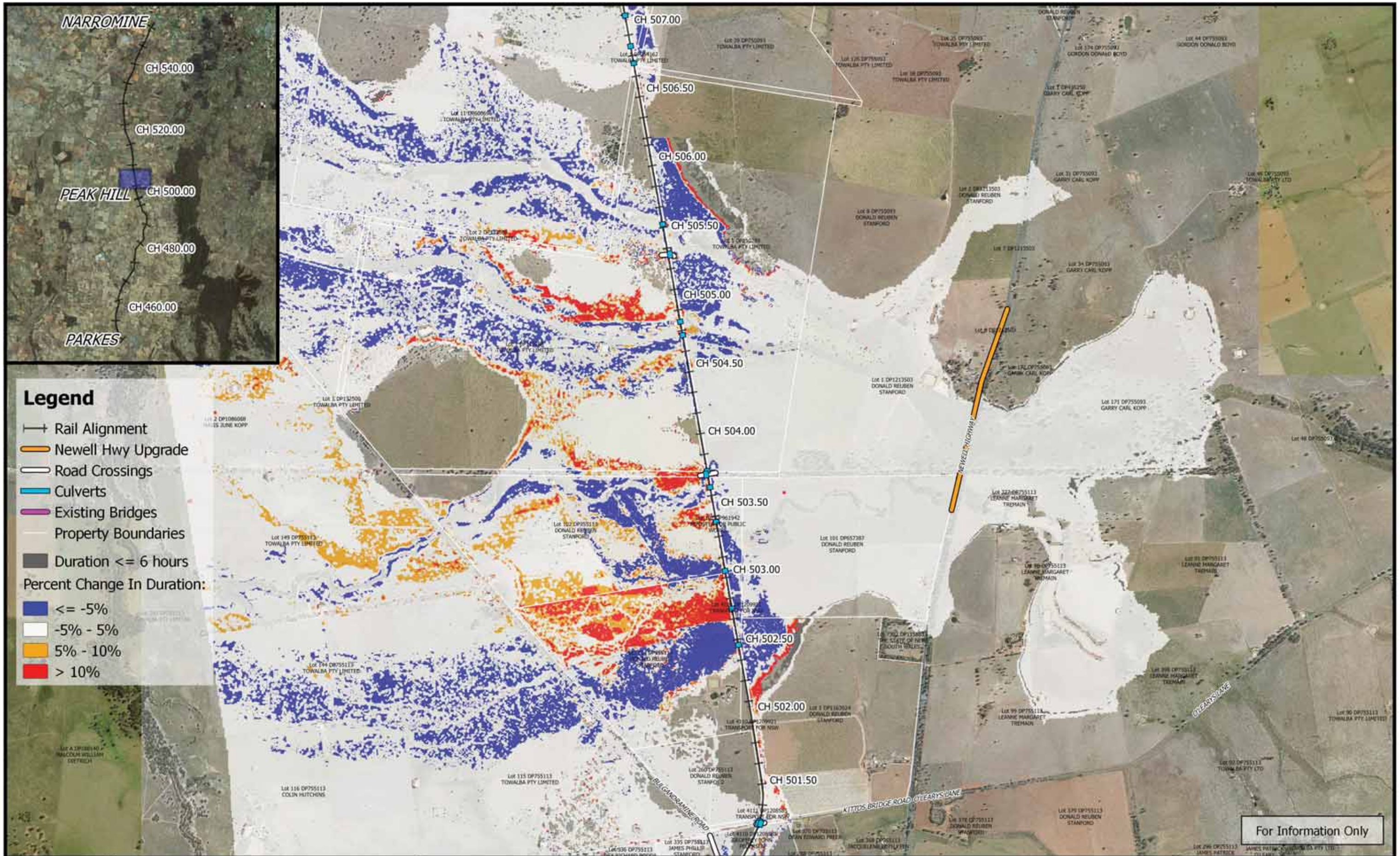
For Information Only

	 1:25,000		Date: 26/3/2019	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	





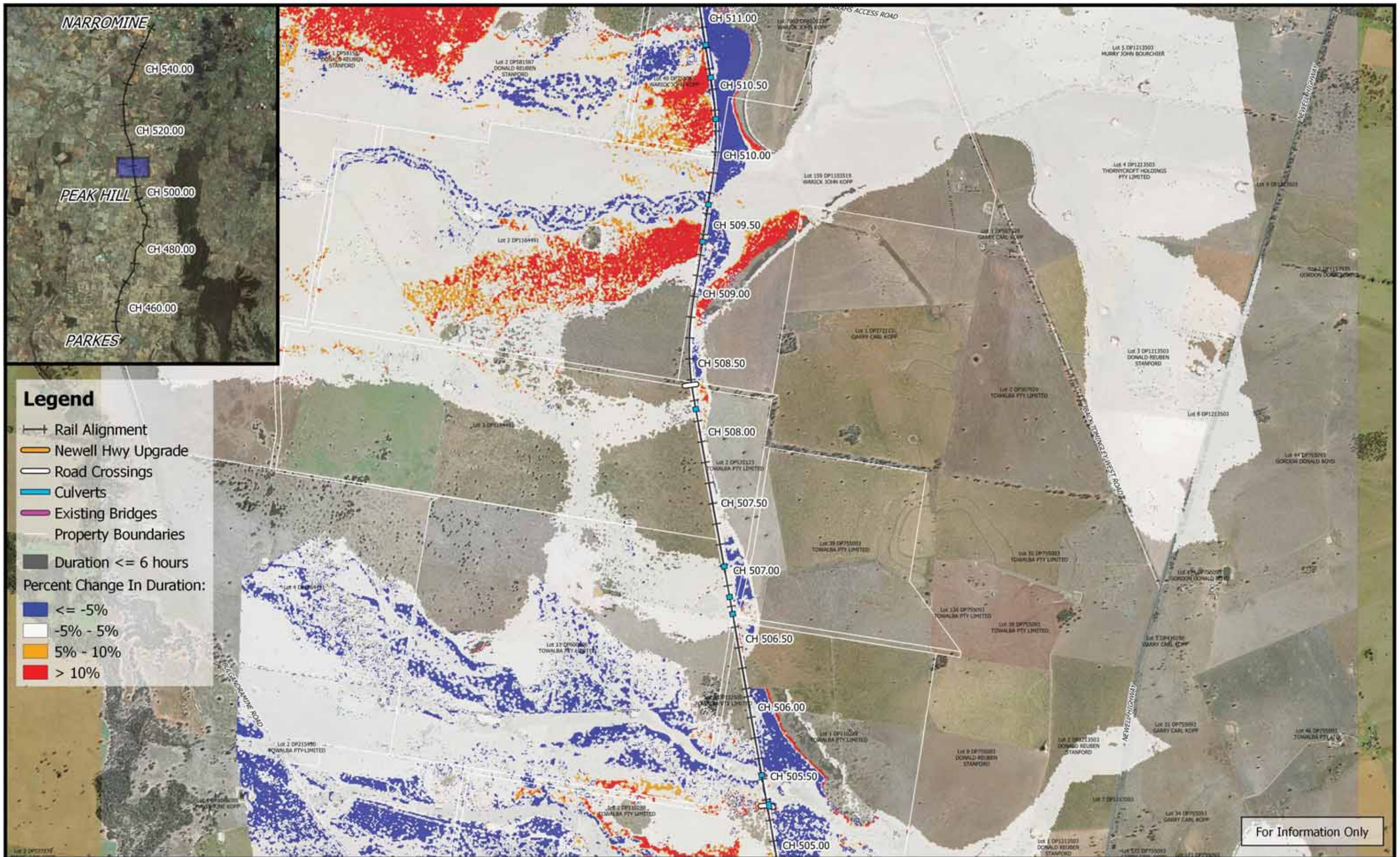
For Information Only

	<p>Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 26/3/2019	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results
			Rev: B - For Information Only	
			Prepared By: YeohM	



For Information Only

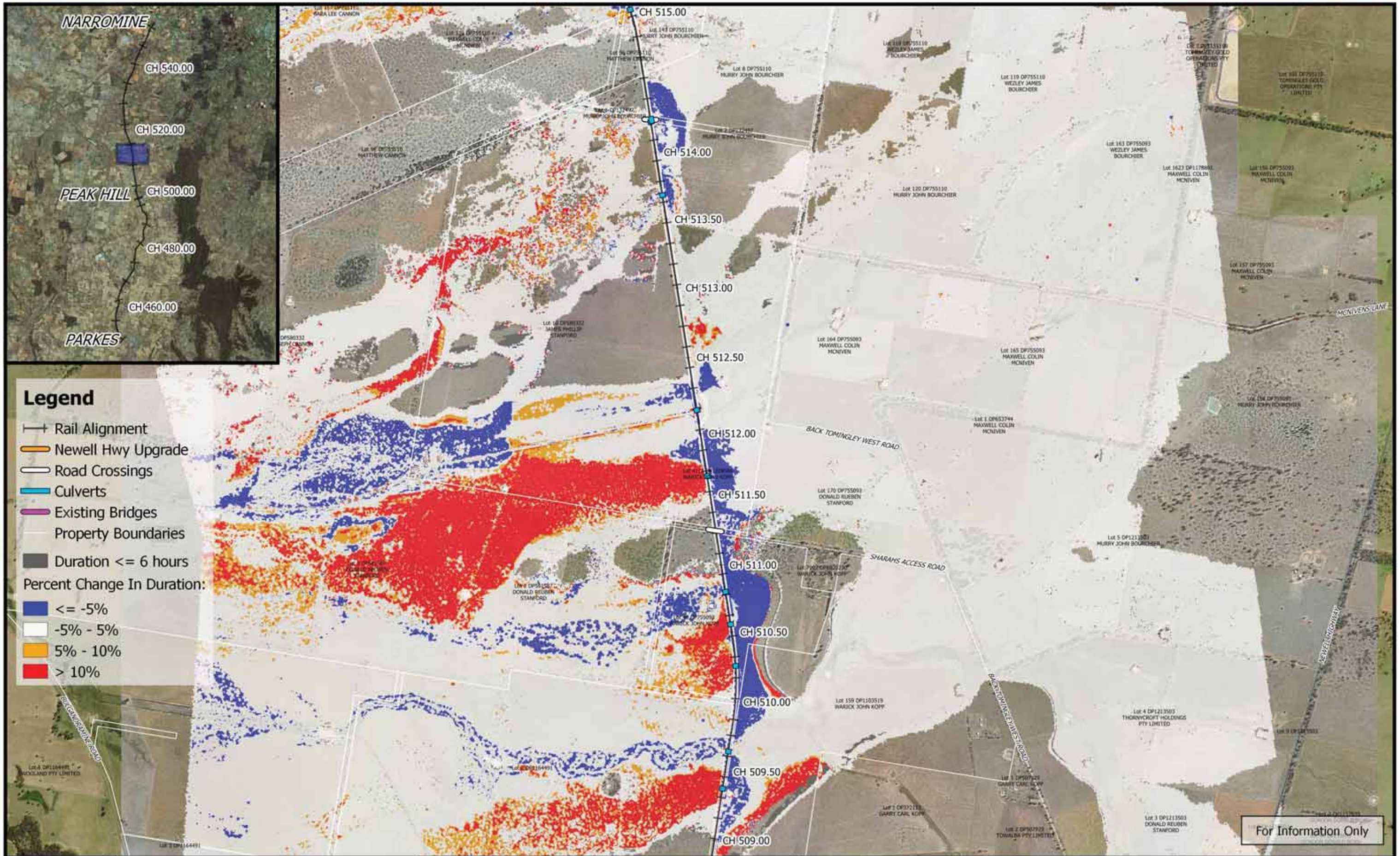
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			Rev: B - For Information Only	
		Prepared By: YeohM		



- Legend**
- Rail Alignment
 - Newell Hwy Upgrade
 - Road Crossings
 - Culverts
 - Existing Bridges
 - Property Boundaries
 - Duration ≤ 6 hours
 - Percent Change In Duration:
 - $\le -5\%$
 - $-5\% - 5\%$
 - $5\% - 10\%$
 - $> 10\%$

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: 26/3/2019	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
Prepared By: YeohM			<p align="center"><i>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 510.00</i></p>	

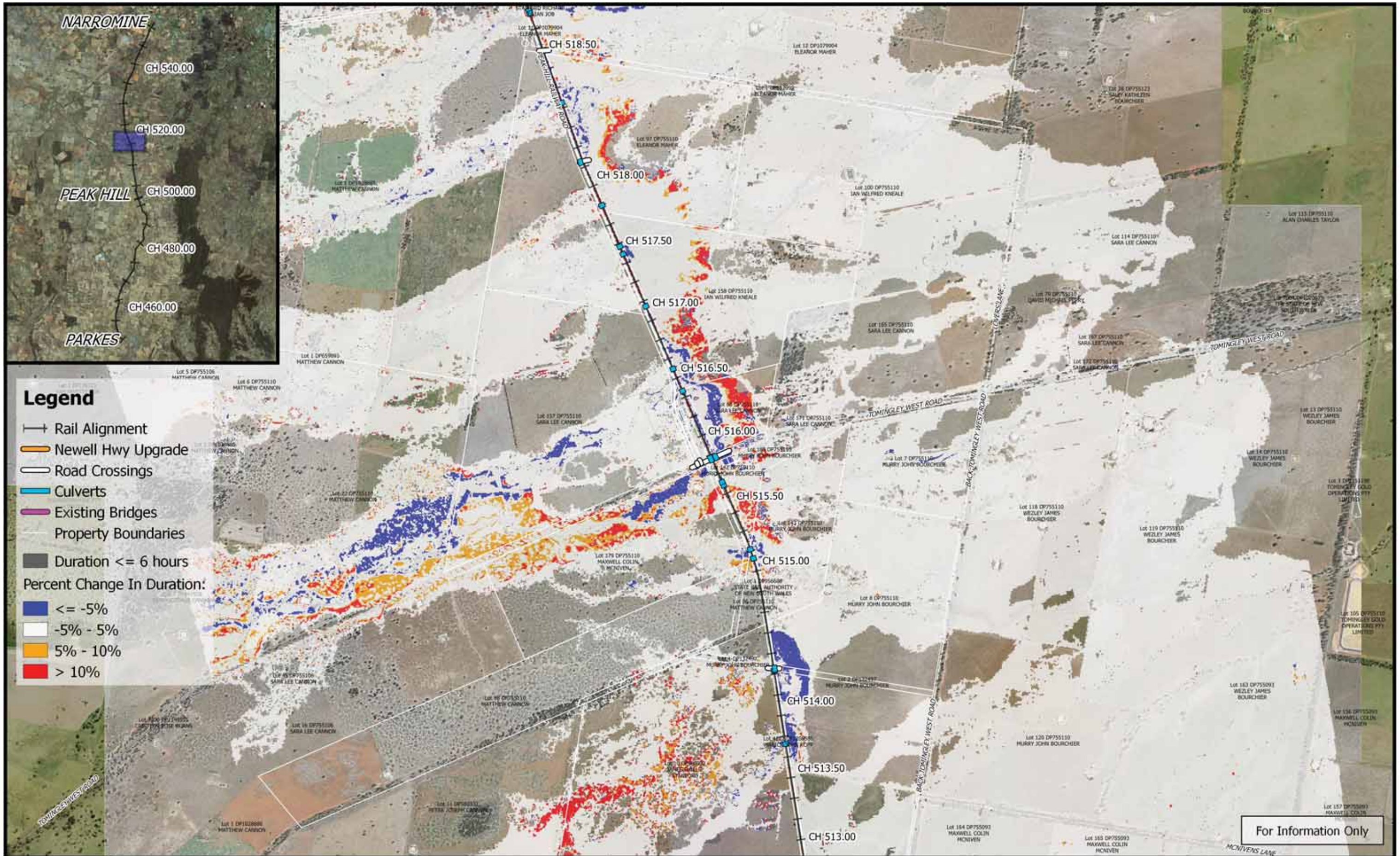


Legend

- +— 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: 26/3/2019	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	

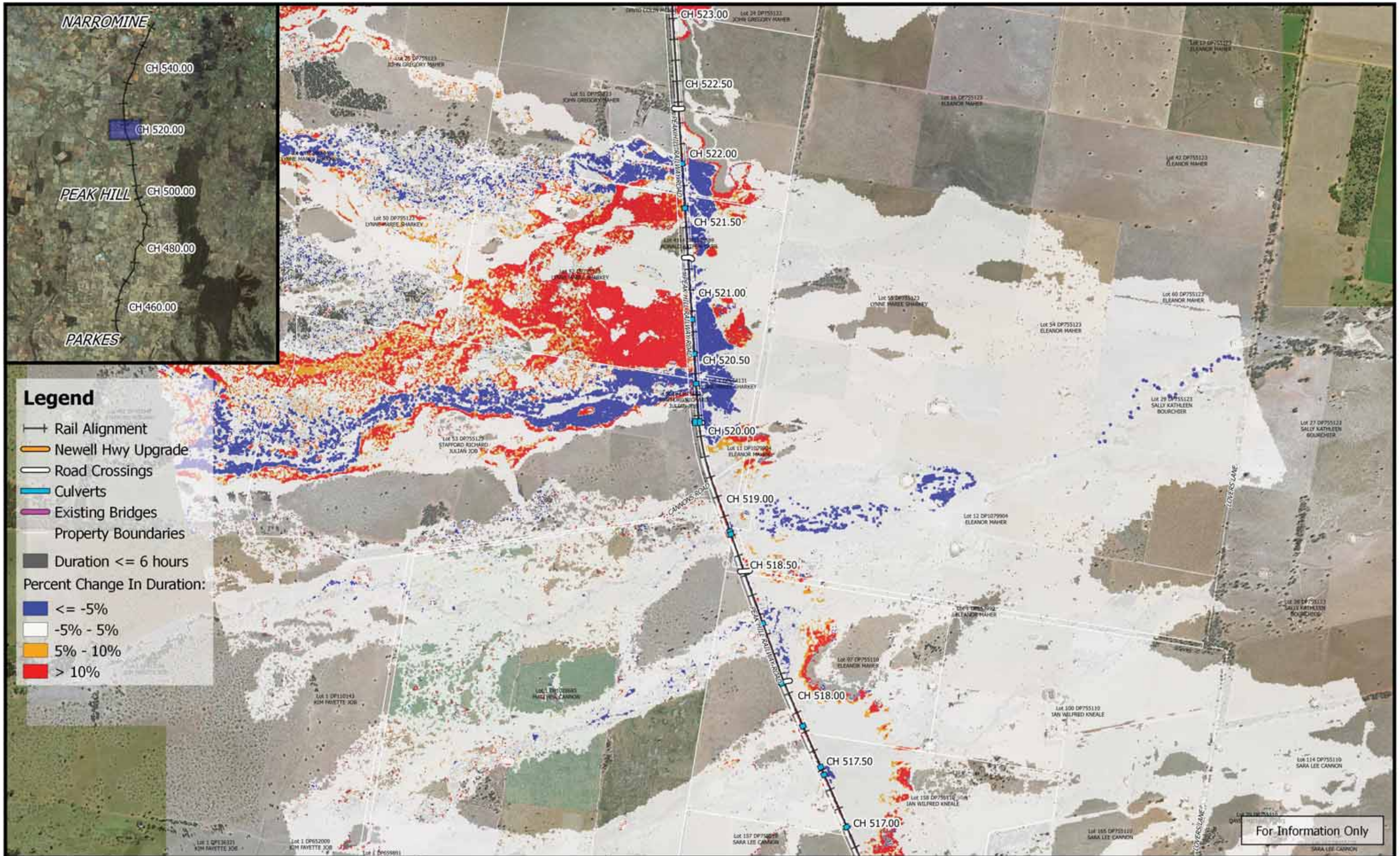


Legend

- 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>	 	Date: 26/3/2019	<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		

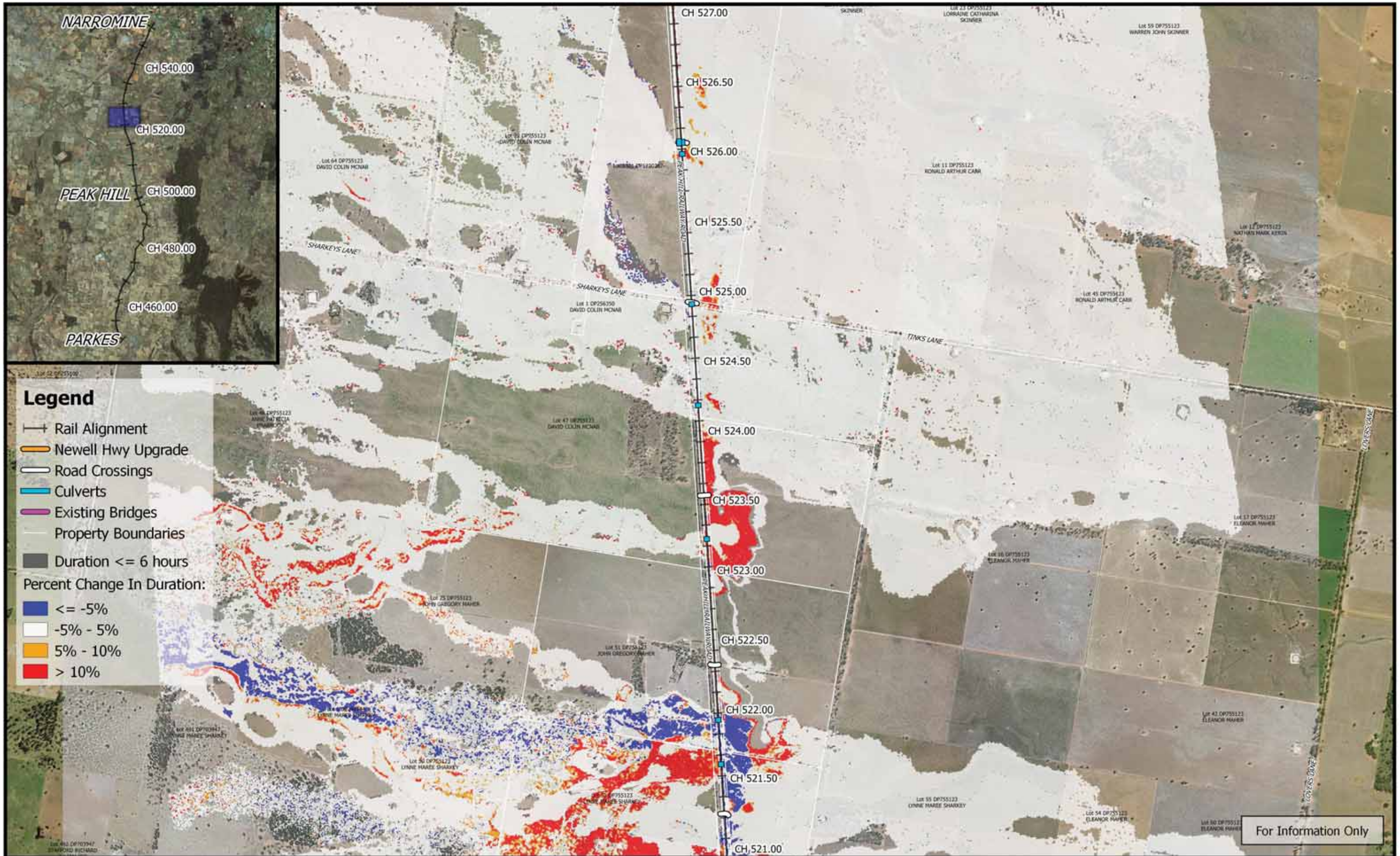


Legend

- 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

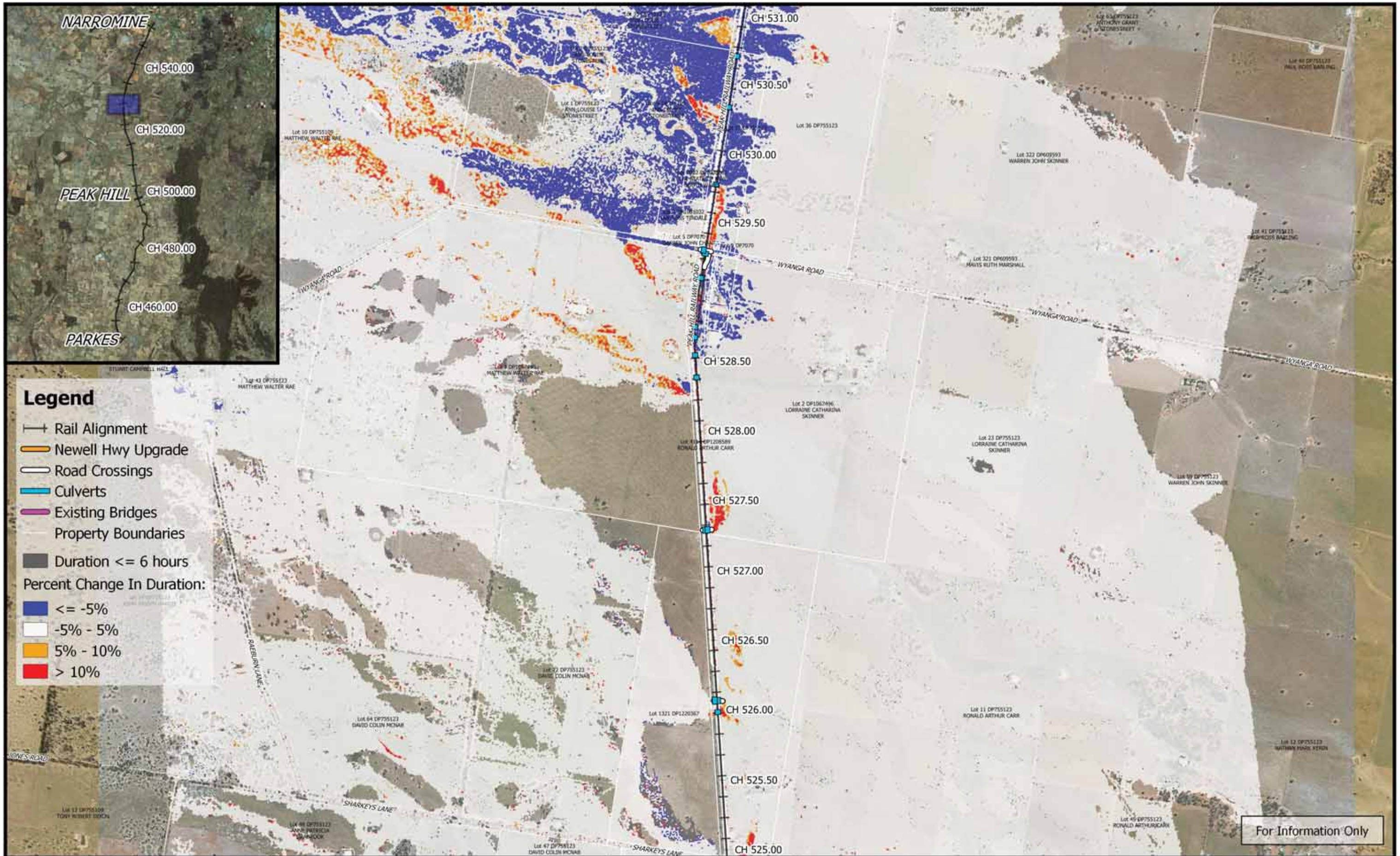
	 1:25,000		Date: 26/3/2019	Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results
	Coordinate system: GDA 1994 MGA Zone 55 Inset Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Rev: B - For Information Only	
			Prepared By: YeohM	



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



For Information Only

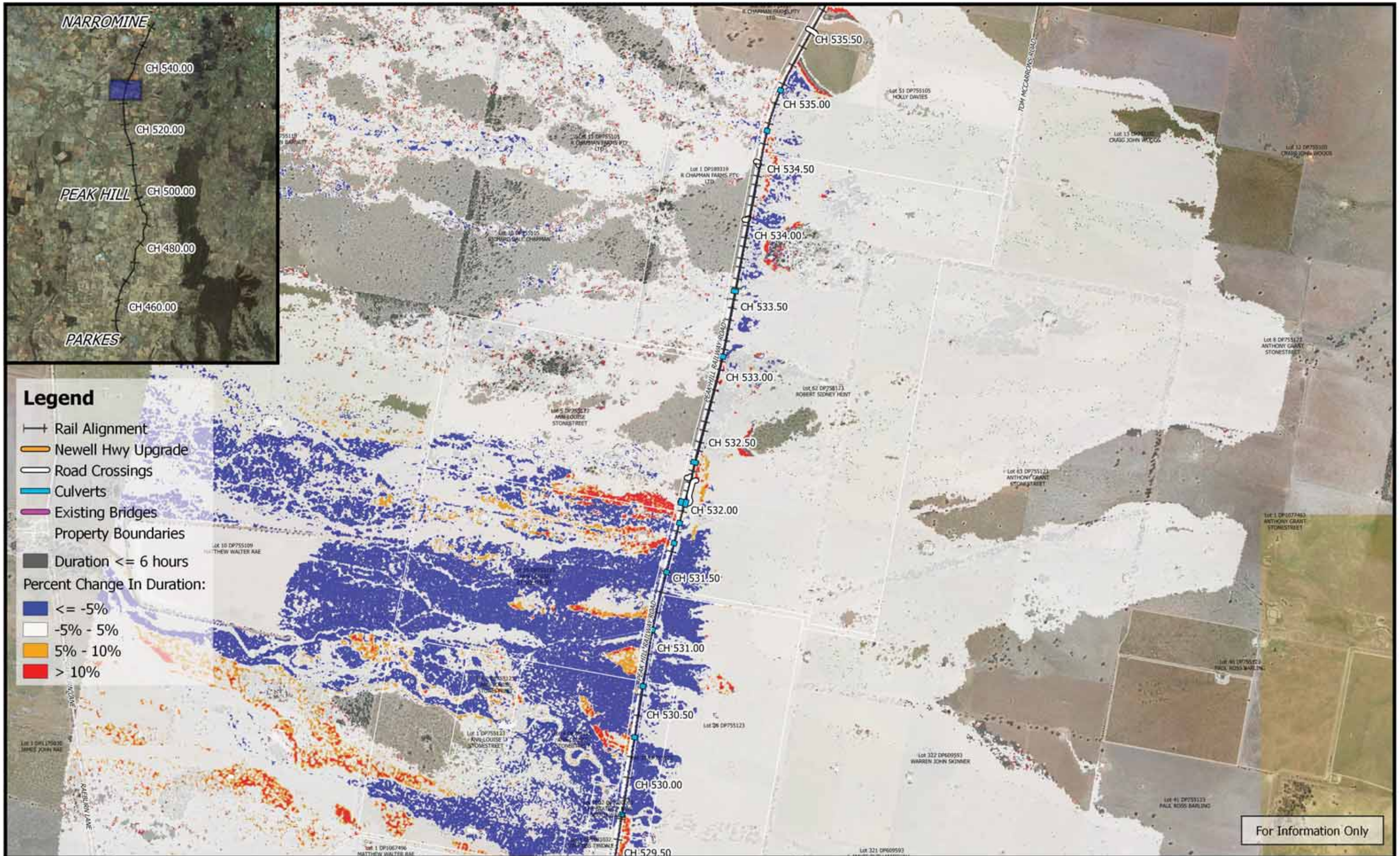
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			Rev: B - For Information Only	
			Prepared By: YeohM	



- Legend**
- +— Rail Alignment
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 - 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: 26/3/2019	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	

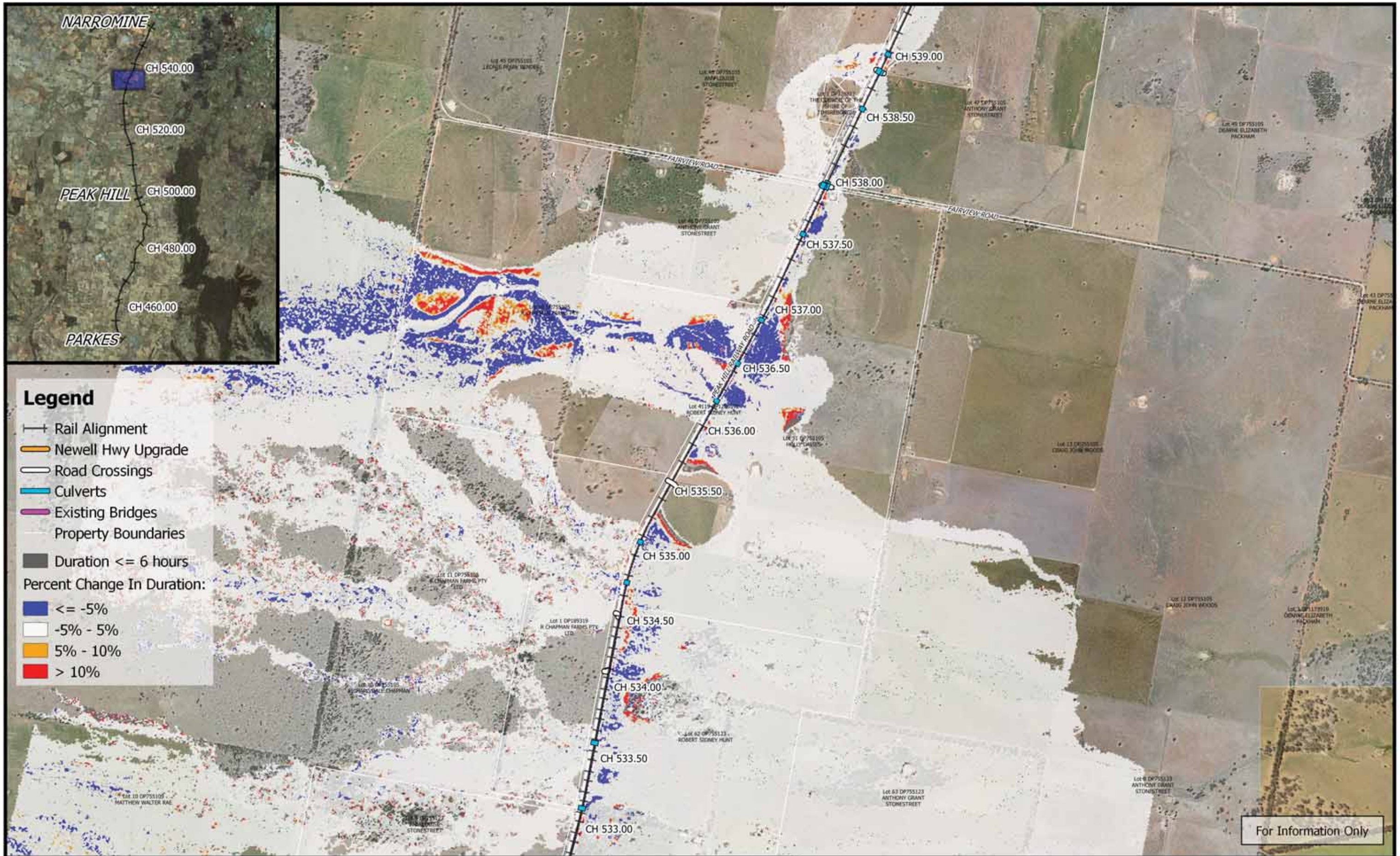


Legend

- +— Rail Alignment
- Newell Hwy Upgrade
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- Culverts
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- 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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE0.05DC21 <i>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 533.00</i></p>
			Rev: B - For Information Only	

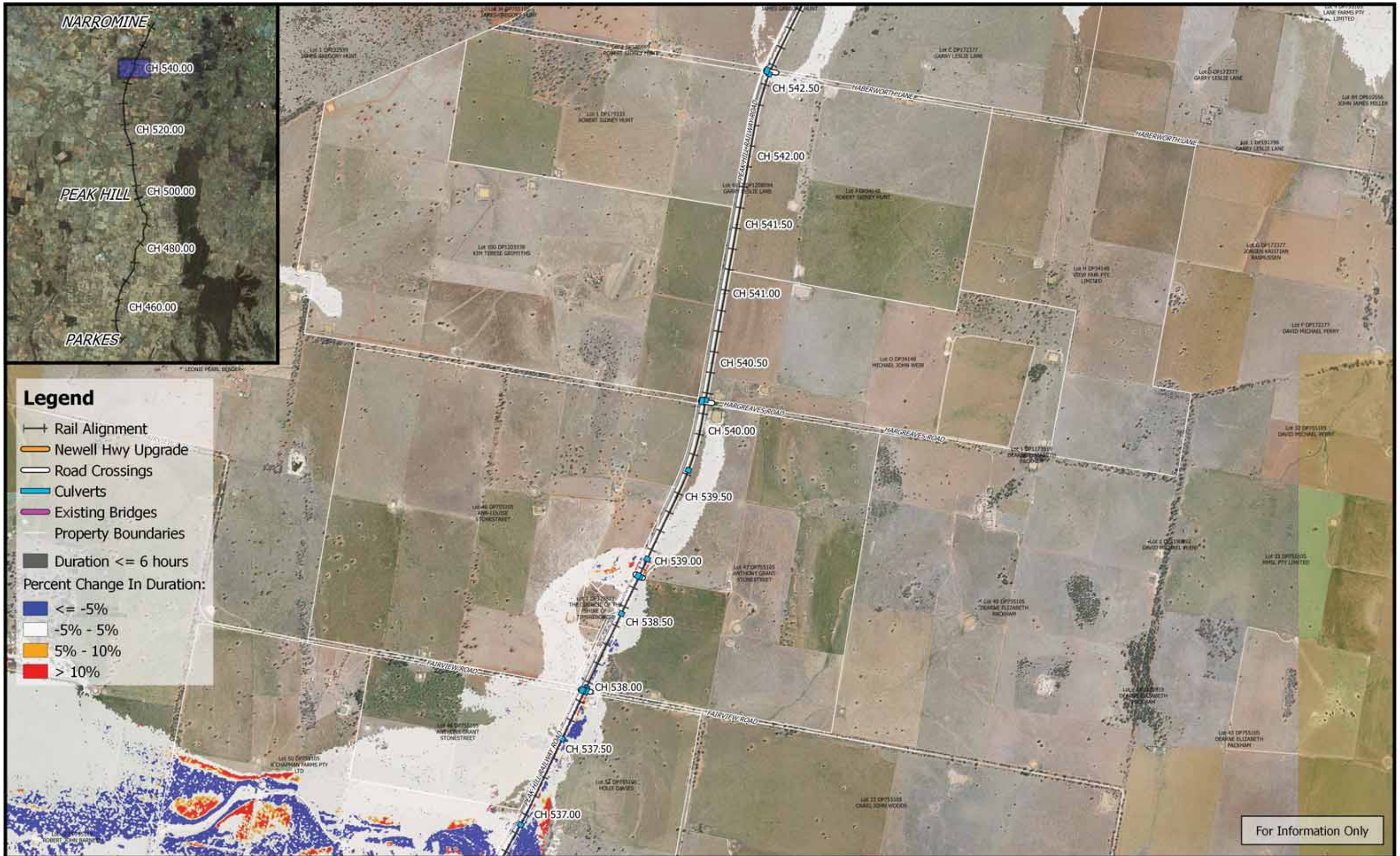


Legend



- +— 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>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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p> <p>Figure DE0.05DC22 <i>0.05% AEP Percentage Change In Duration For Flood Depths > 200mm - CH 535.00</i></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: 26/3/2019	<p align="center">Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	

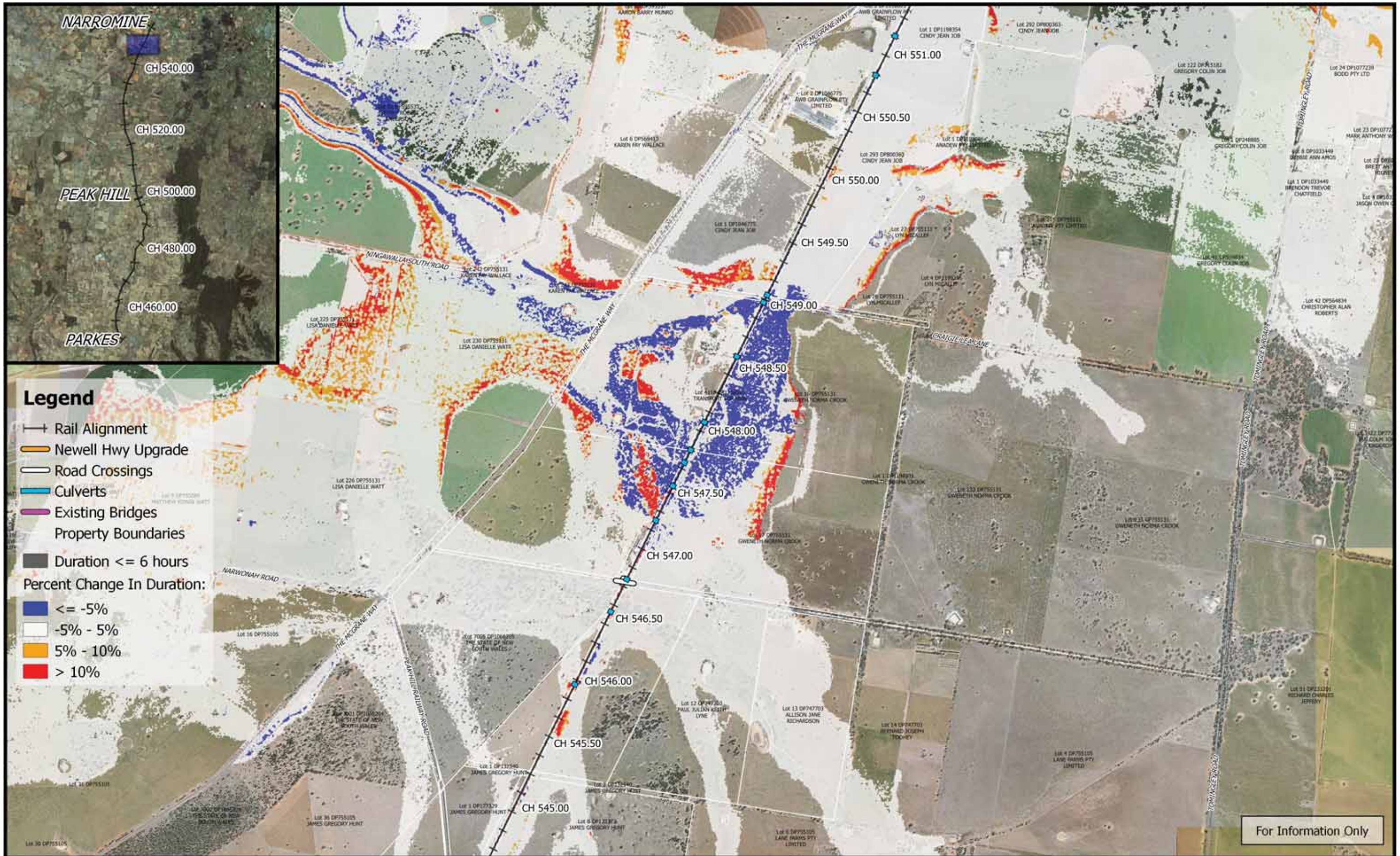


Legend

- +— 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>		Date: 26/3/2019	<p>Inland Rail - Parkes to Narromine 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	



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: 26/3/2019	<p>Inland Rail - Parkes to Narromine IFC - Cross Drainage Flood Impact Assessment Results</p>
			Rev: B - For Information Only	
			Prepared By: YeohM	