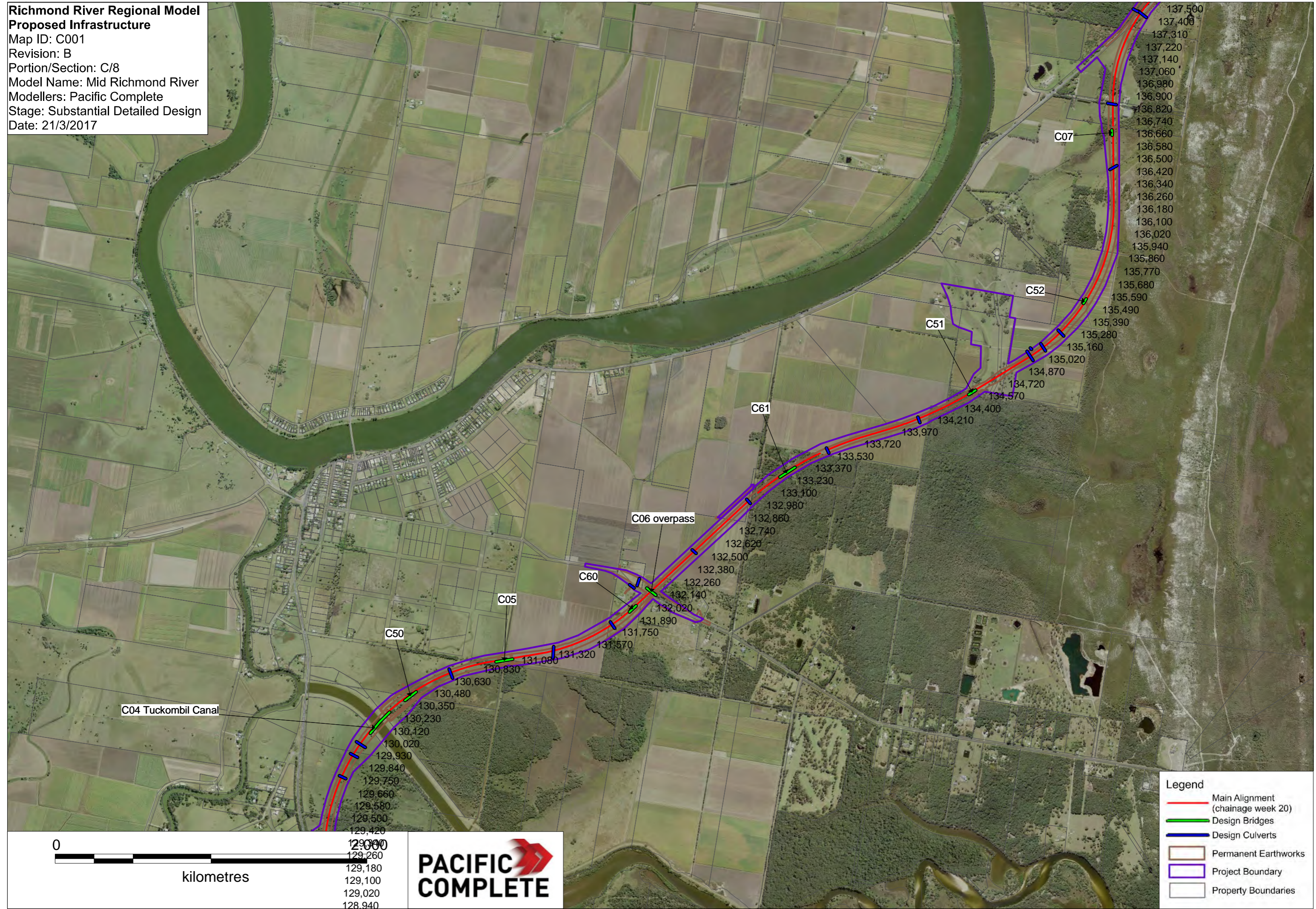


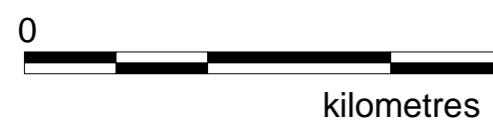
Appendix C

Future conditions flood maps for Mid-Richmond River regional floodplain

**Richmond River Regional Model
Proposed Infrastructure**
 Map ID: C001
 Revision: B
 Portion/Section: C/8
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017

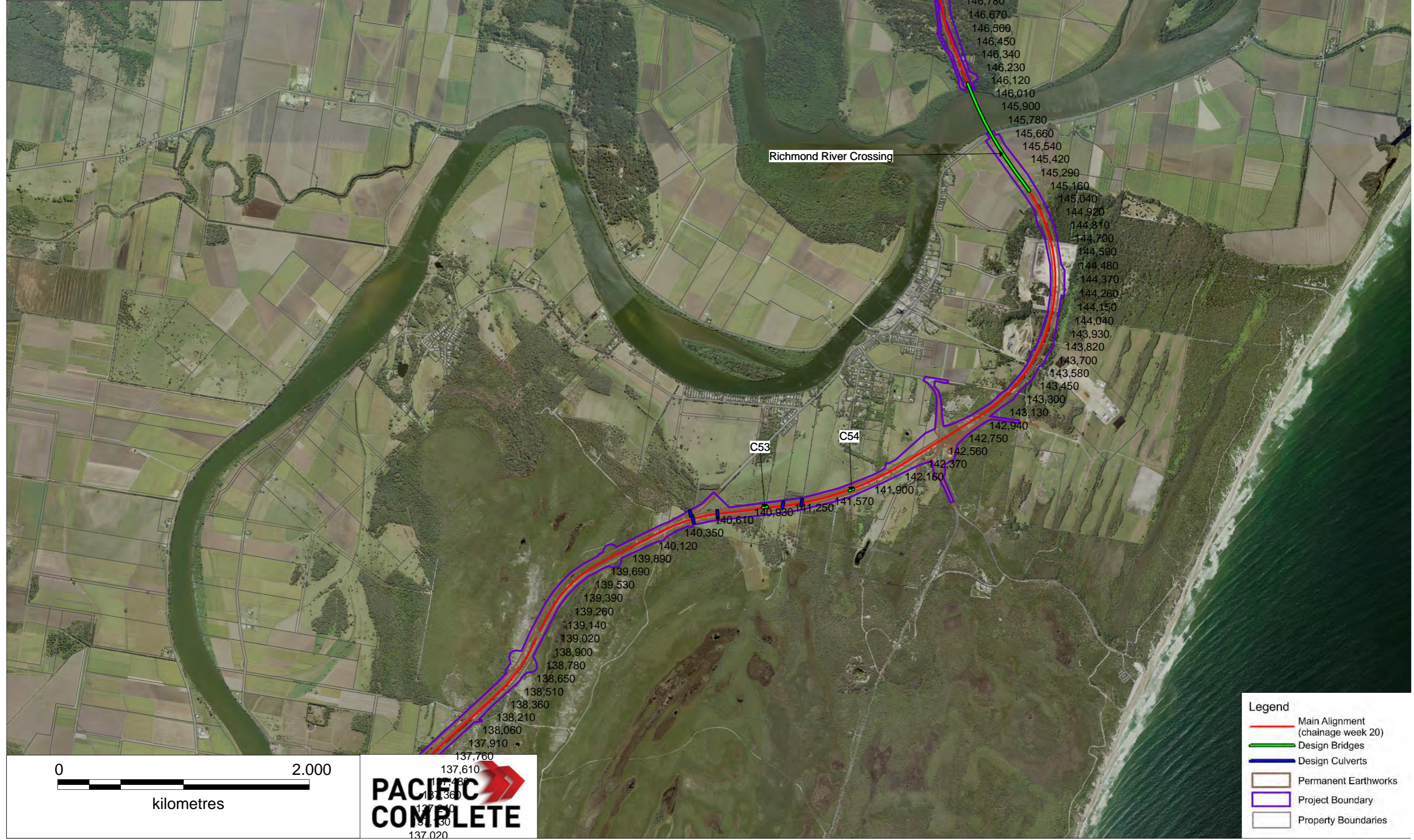


- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries



137,500
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**Richmond River Regional Model
Proposed Infrastructure**
 Map ID: C002
 Revision: B
 Portion/Section: C/9
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



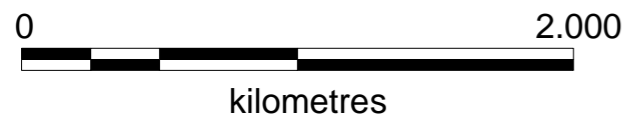
Richmond River Crossing

C53

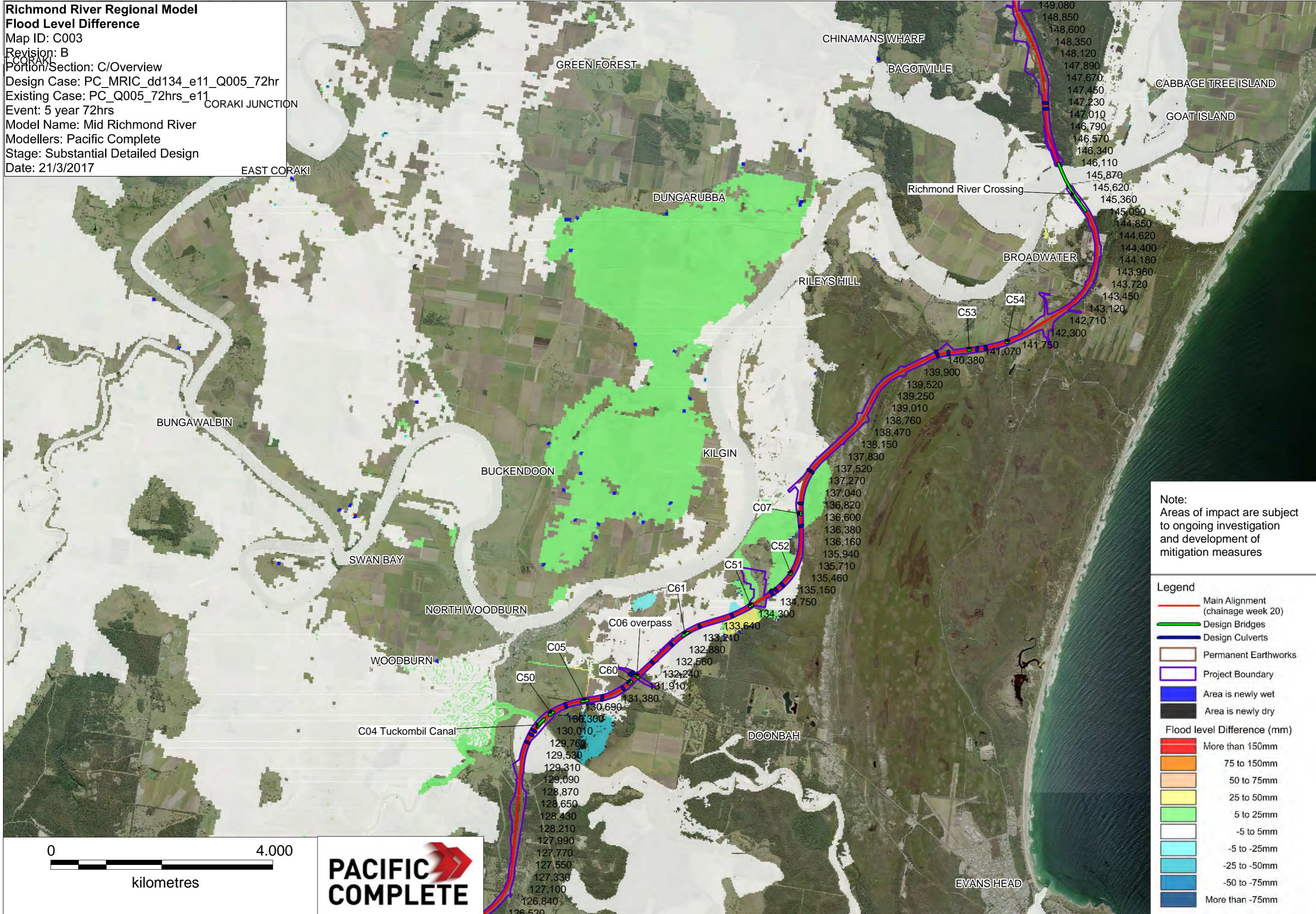
C54

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 120,000

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries



**Richmond River Regional Model
Flood Level Difference**
 Map ID: C003
 Revision: B
 Portion/Section: C/Overview
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

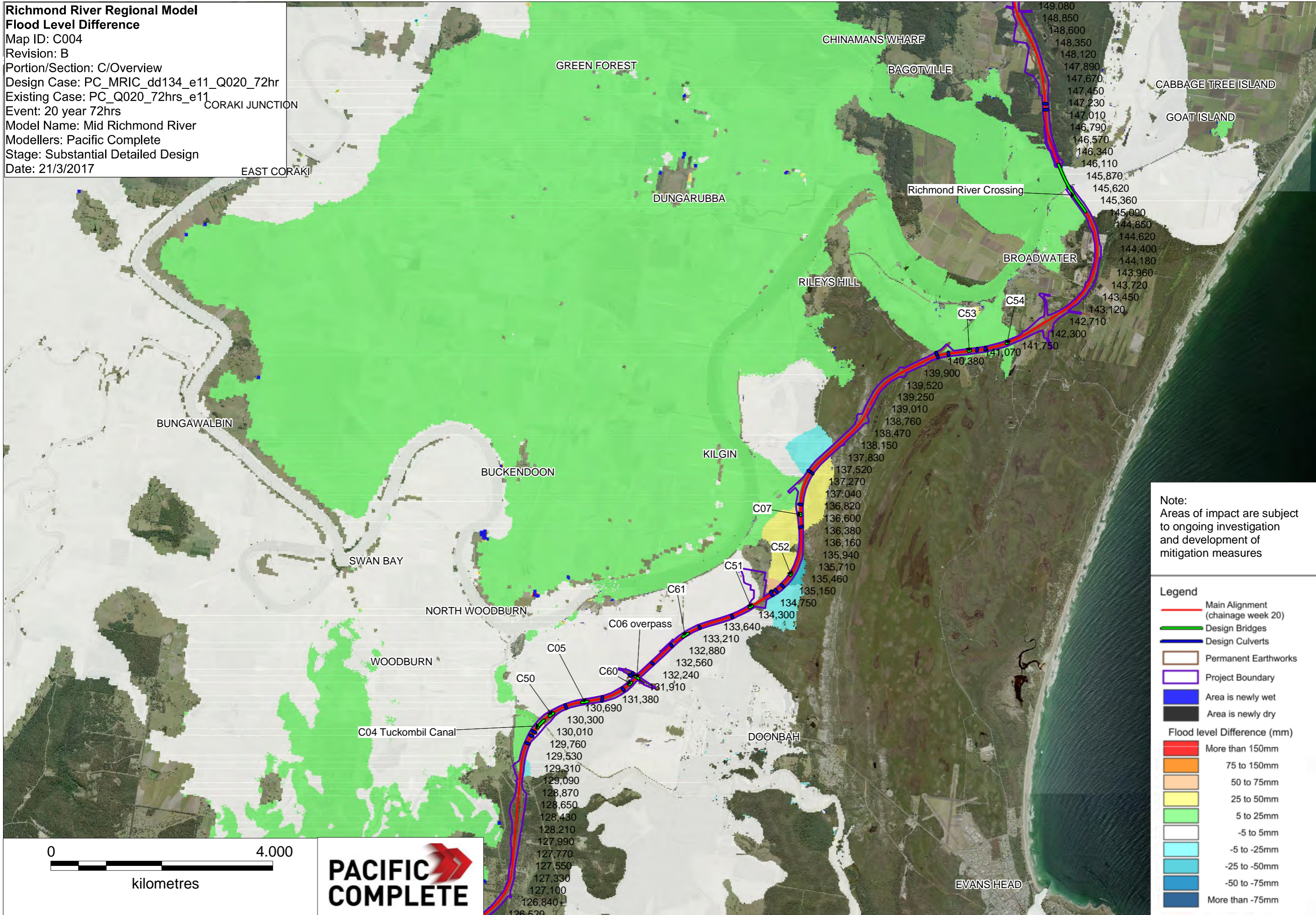
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm

**Richmond River Regional Model
Flood Level Difference**
 Map ID: C004
 Revision: B
 Portion/Section: C/Overview
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

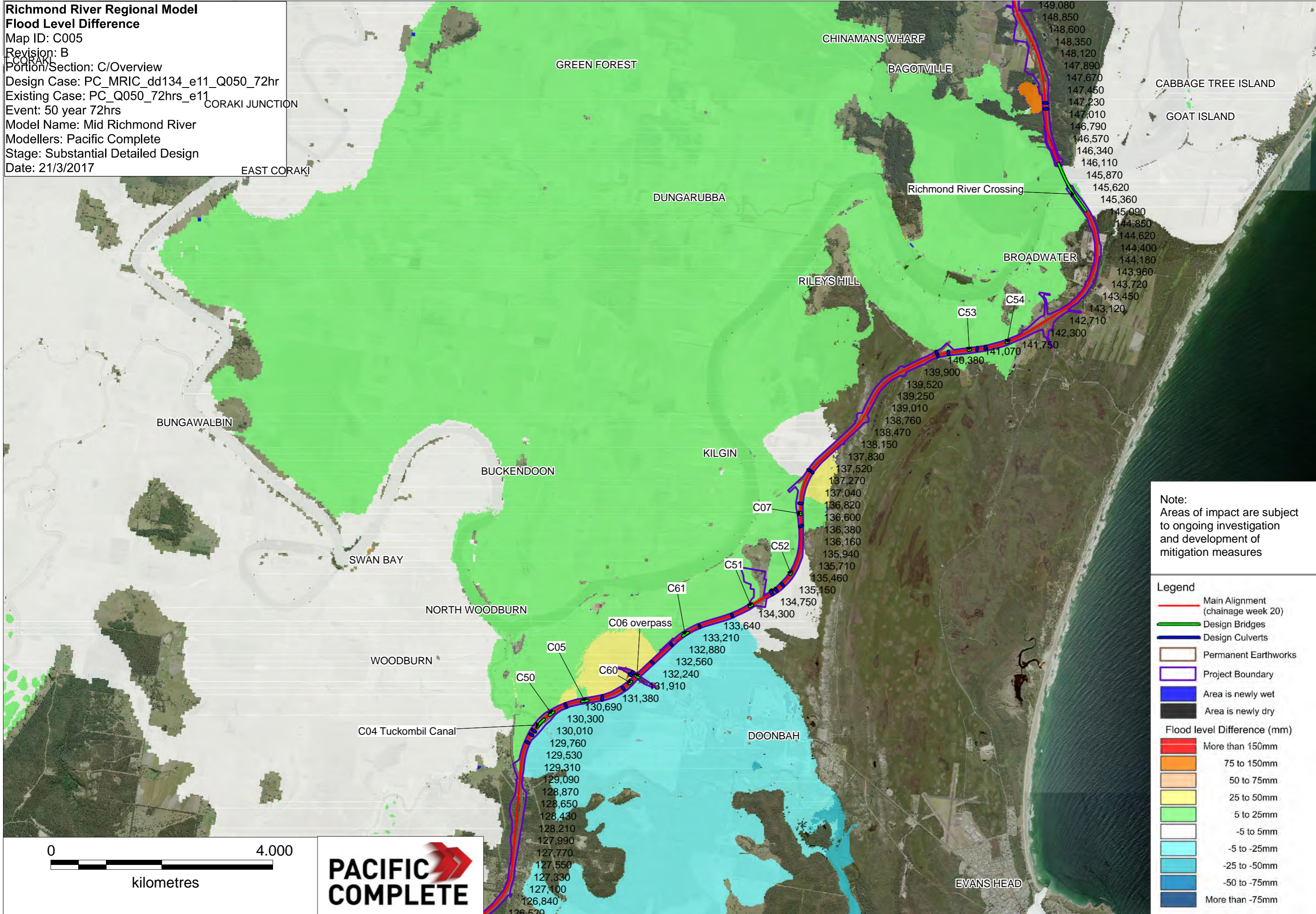
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm

**Richmond River Regional Model
Flood Level Difference**
 Map ID: C005
 Revision: B
 Portion/Section: C/Overview
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

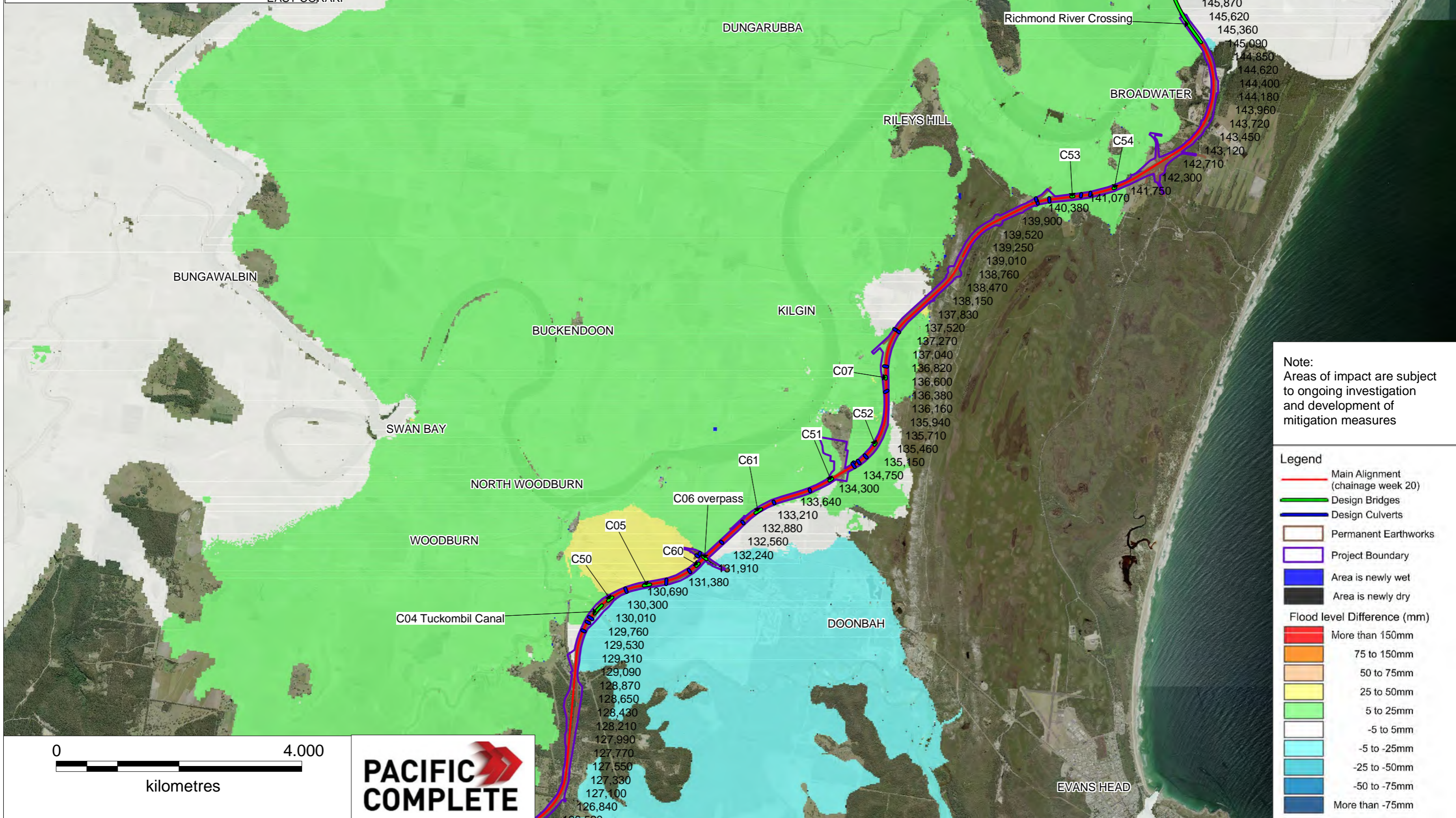
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm

**Richmond River Regional Model
Flood Level Difference**
 Map ID: C006
 Revision: B
 Portion/Section: C/Overview
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

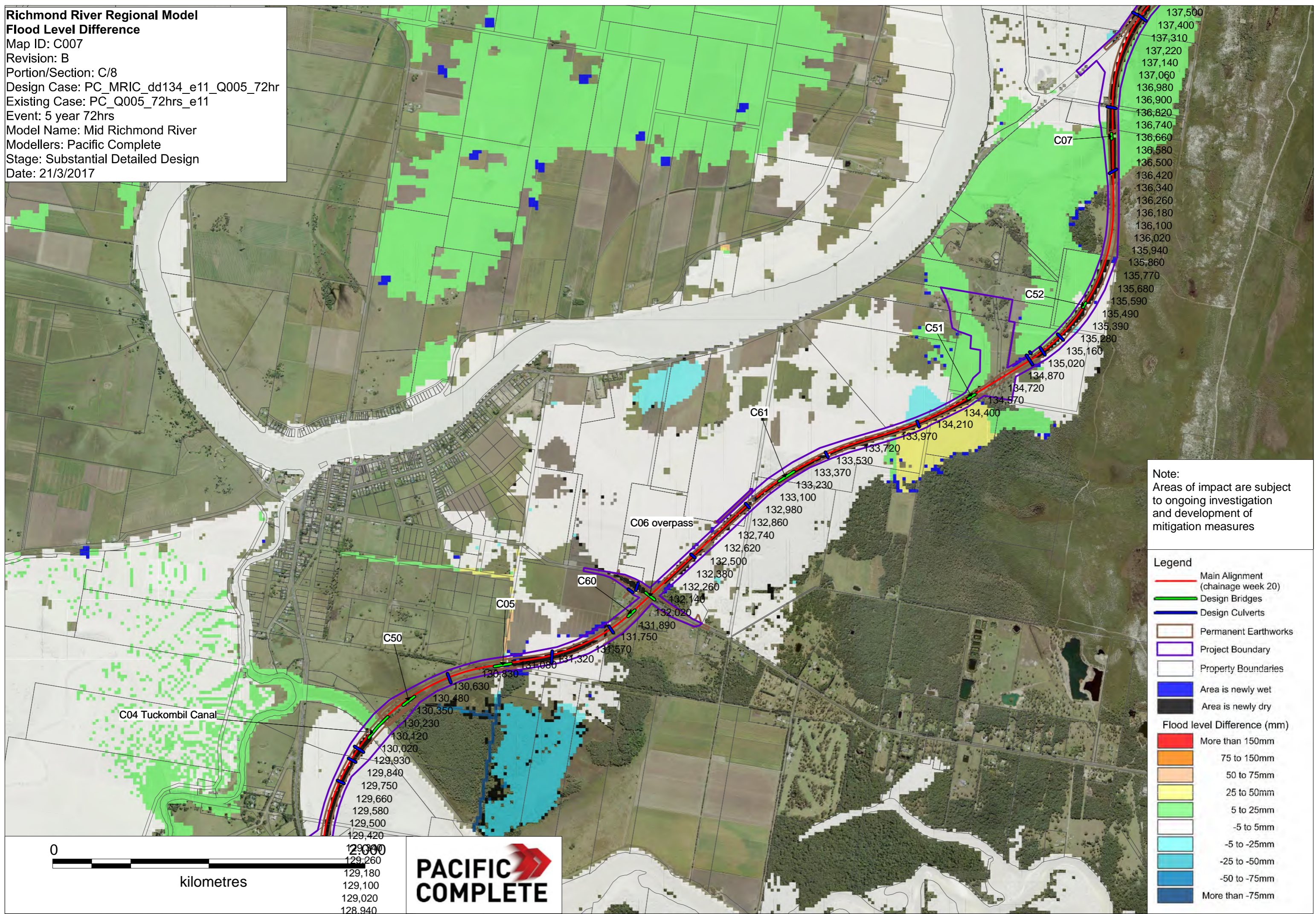
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm

Richmond River Regional Model
Flood Level Difference
 Map ID: C007
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



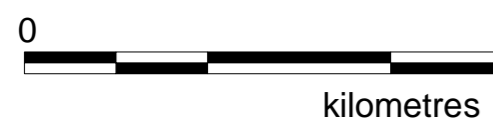
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

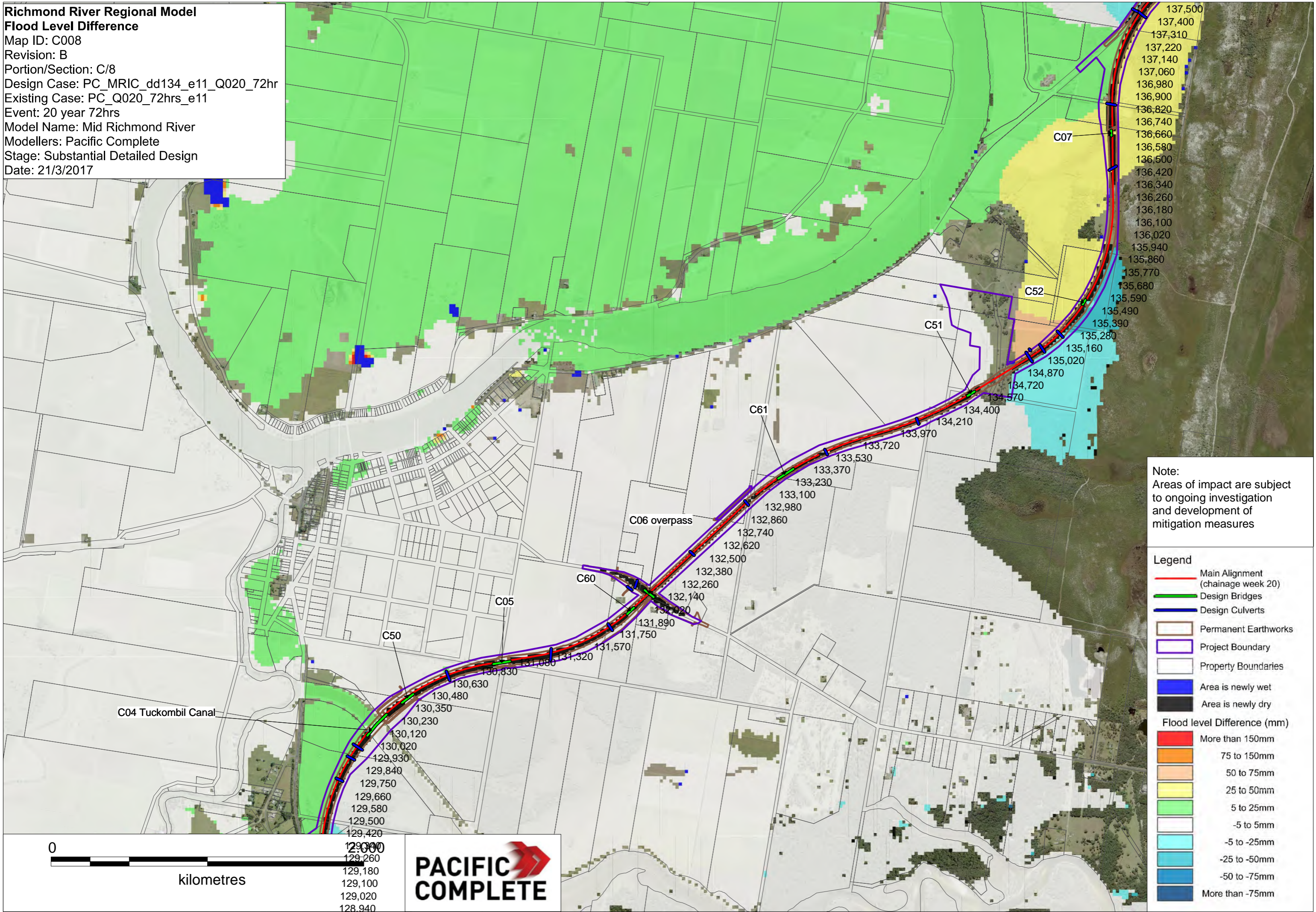
- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



129,000
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129,020
128,940

137,500
137,400
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137,060
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129,420

Richmond River Regional Model
Flood Level Difference
 Map ID: C008
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



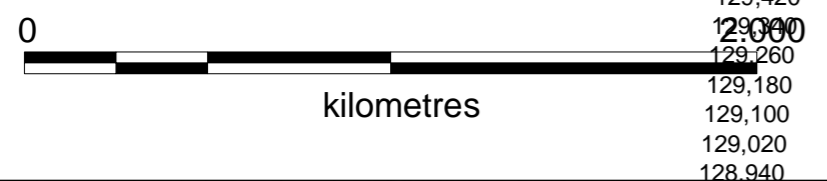
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

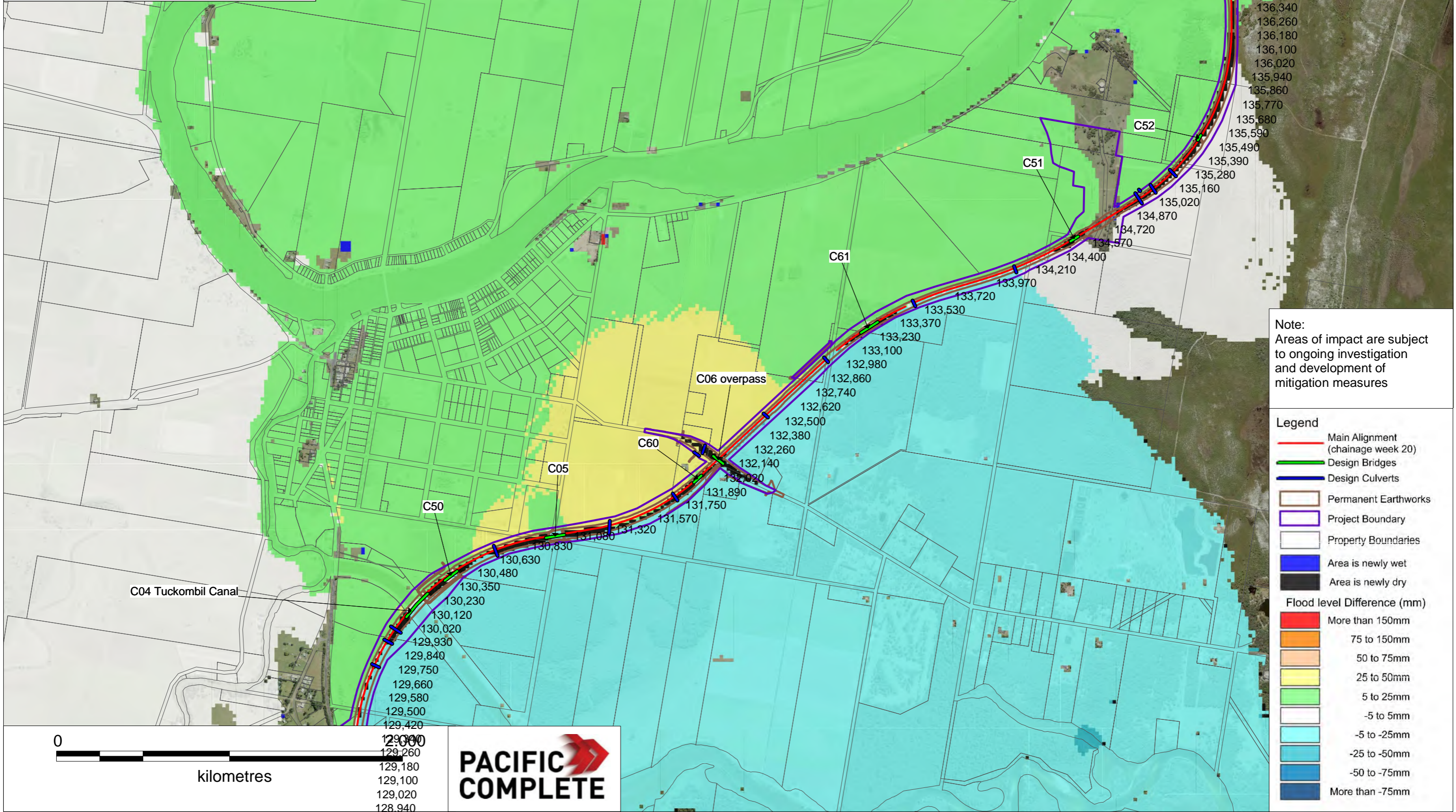
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



Richmond River Regional Model
Flood Level Difference
 Map ID: C009
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



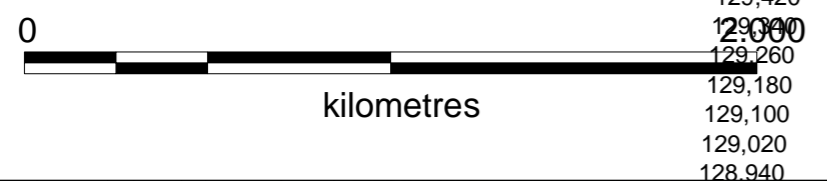
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

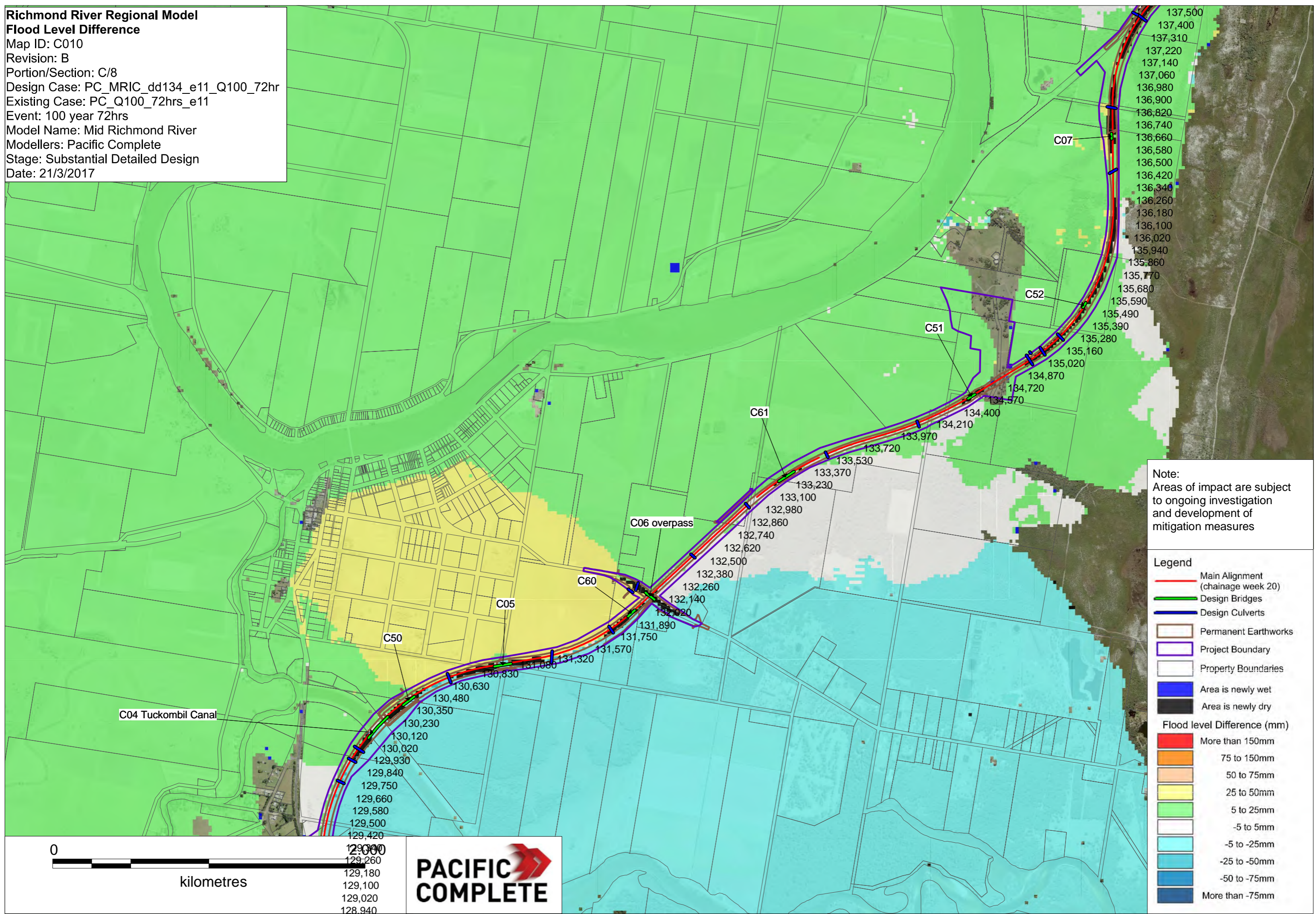
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



Richmond River Regional Model
Flood Level Difference
 Map ID: C010
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



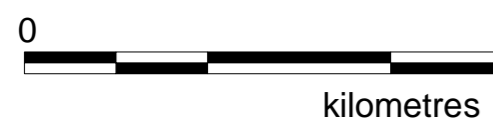
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

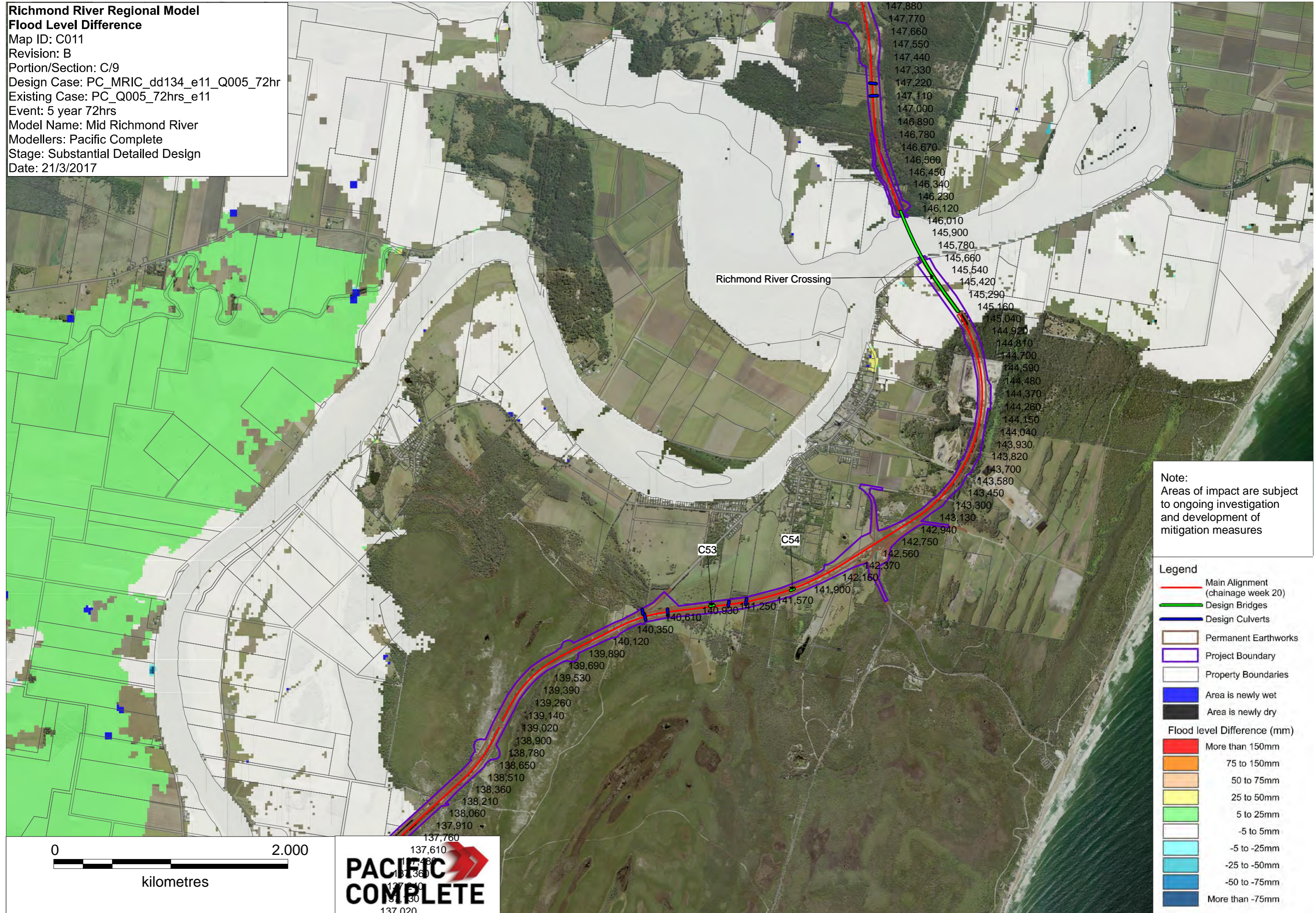
Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



137,500
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Richmond River Regional Model
Flood Level Difference
 Map ID: C011
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Richmond River Crossing

C53

C54

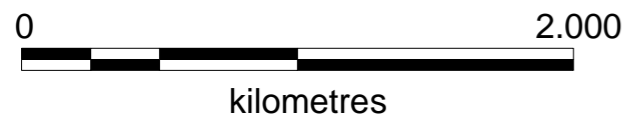
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

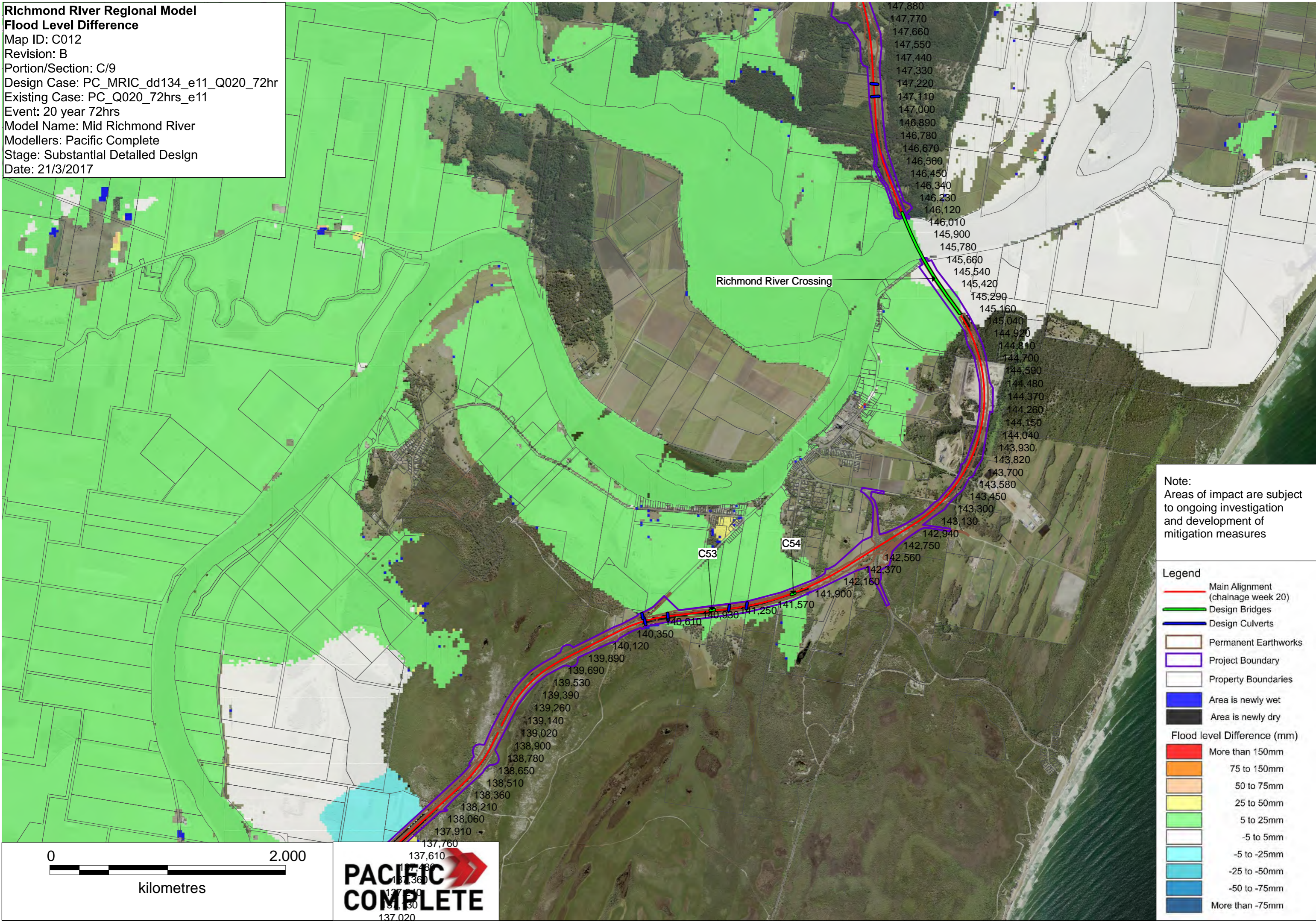
- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



137,610
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 137,000
 137,020

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 147,660
 147,770
 147,880

Richmond River Regional Model
Flood Level Difference
 Map ID: C012
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



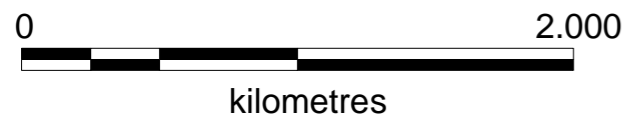
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

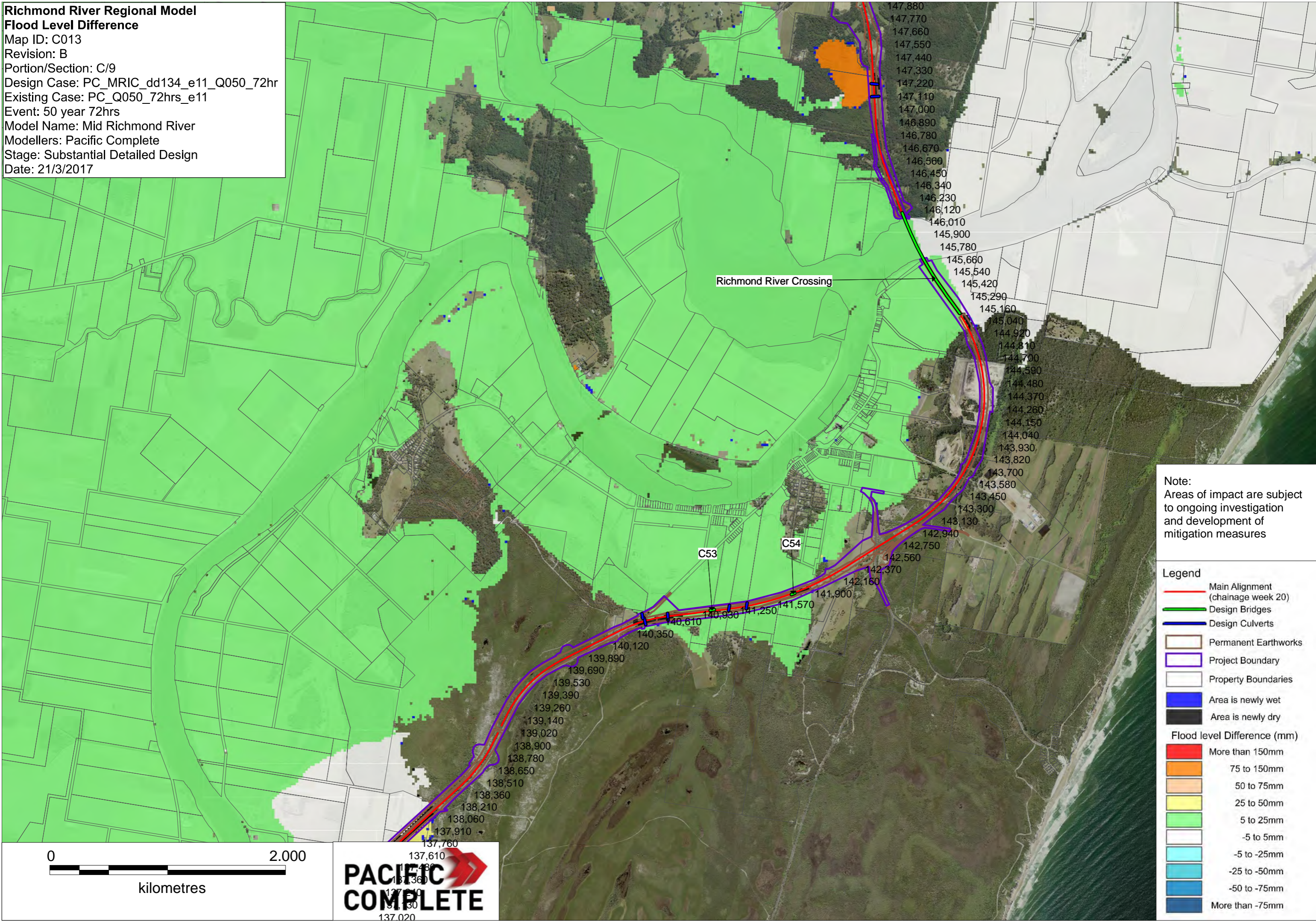
Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



147,880
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Richmond River Regional Model
Flood Level Difference
 Map ID: C013
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Richmond River Crossing

C53

C54

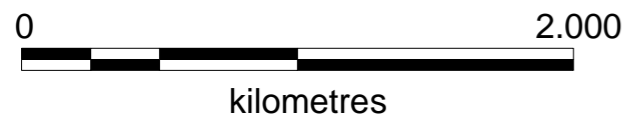
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

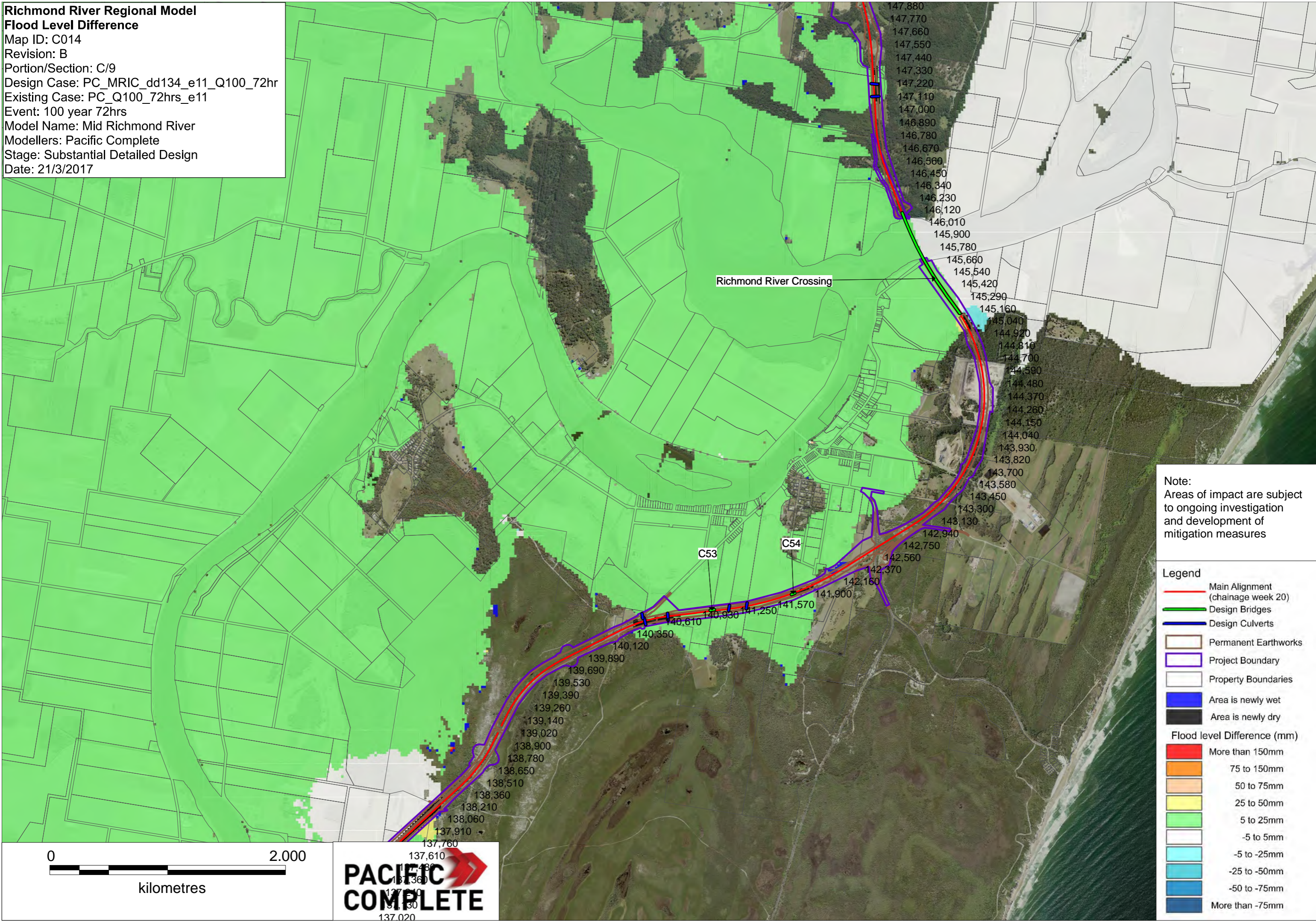
Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



137,610
 137,480
 137,360
 137,240
 137,120
 137,020

Richmond River Regional Model
Flood Level Difference
 Map ID: C014
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



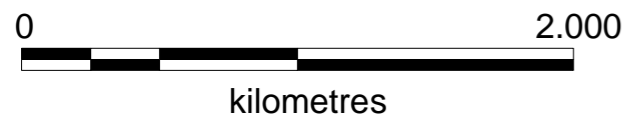
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

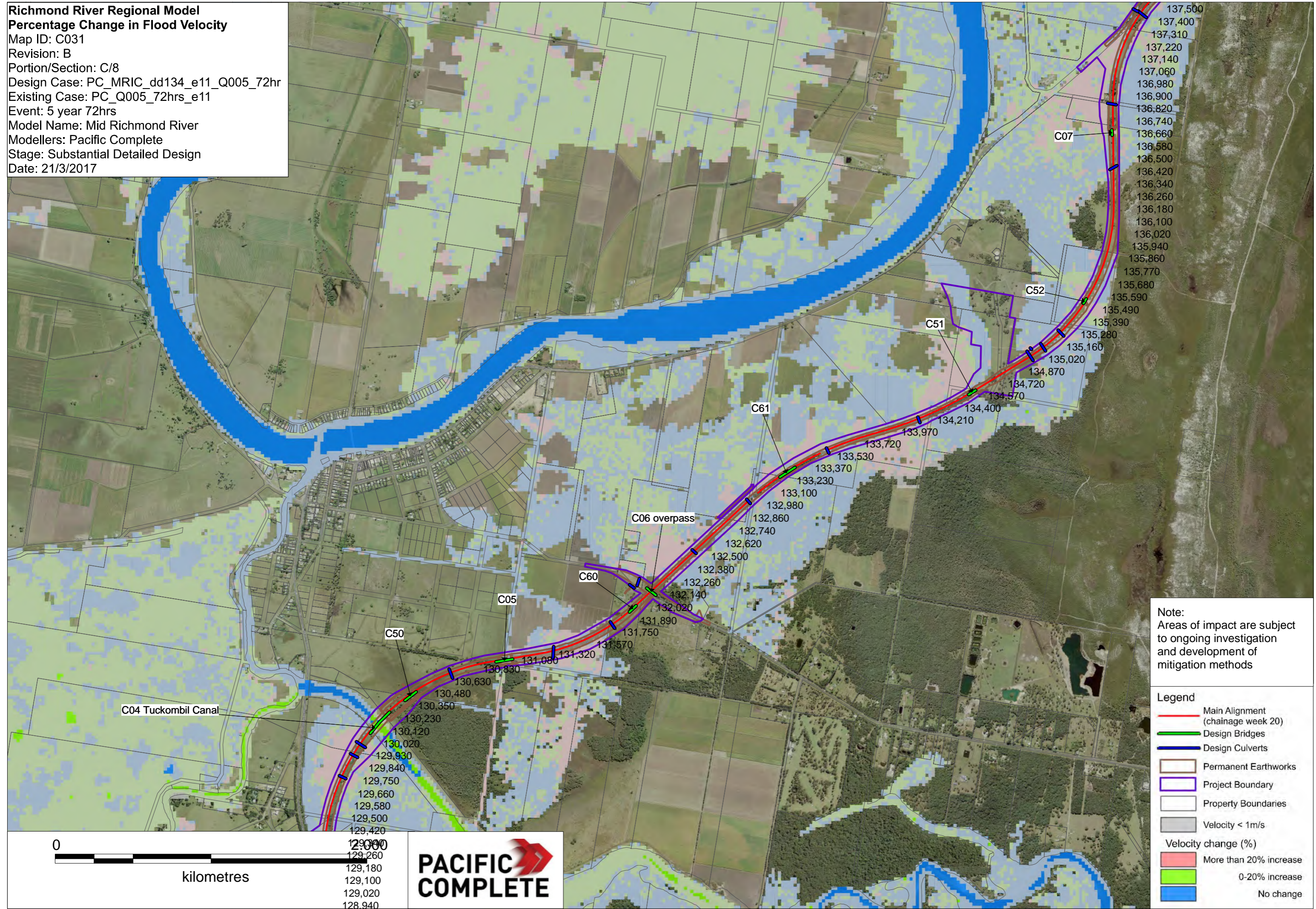
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is newly wet
- Area is newly dry

Flood level Difference (mm)

- More than 150mm
- 75 to 150mm
- 50 to 75mm
- 25 to 50mm
- 5 to 25mm
- 5 to 5mm
- 5 to -25mm
- 25 to -50mm
- 50 to -75mm
- More than -75mm



Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C031
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



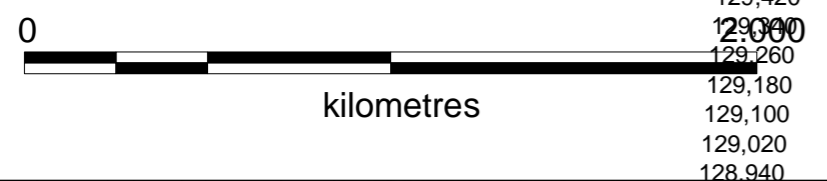
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

Legend

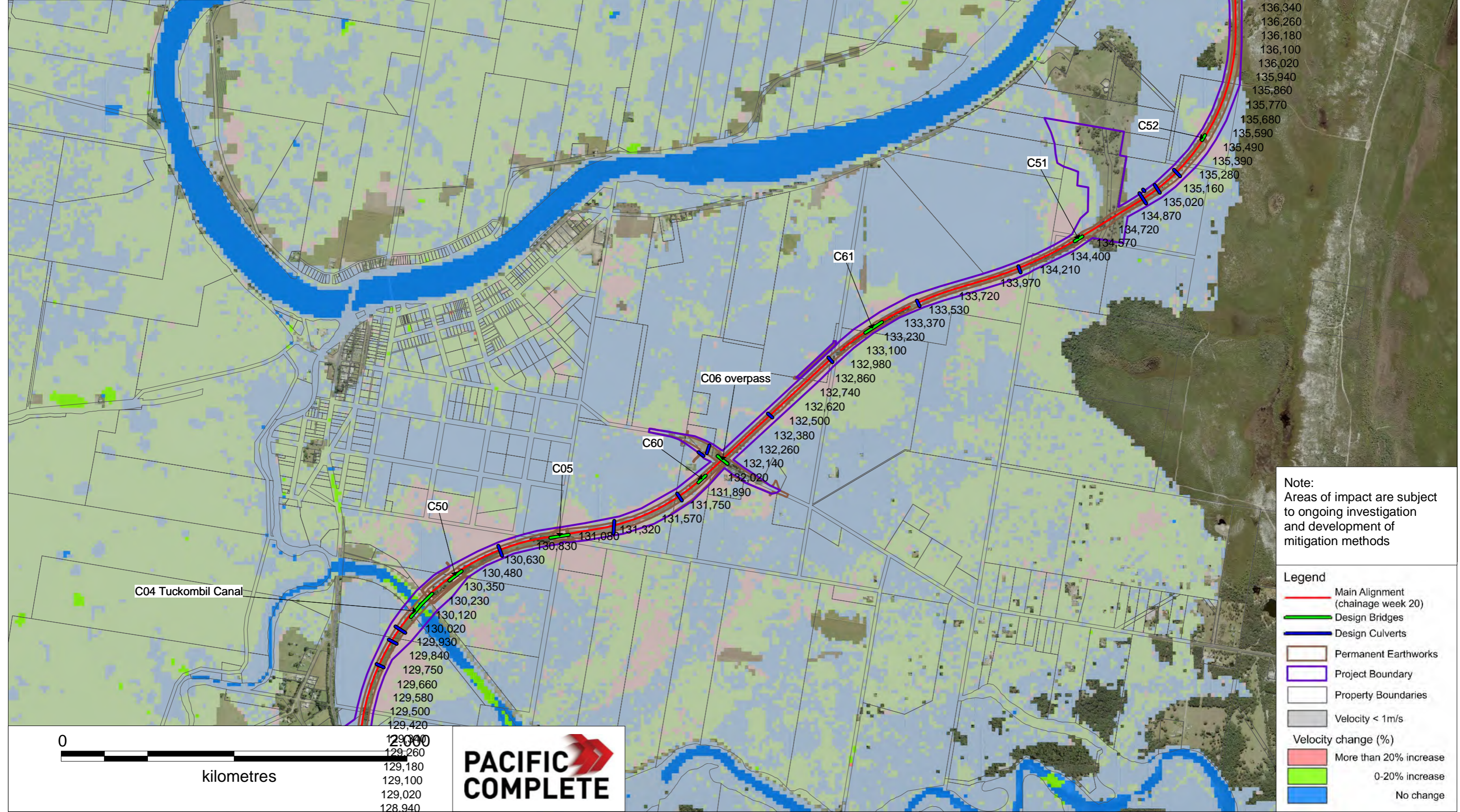
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Velocity < 1m/s

Velocity change (%)

- More than 20% increase
- 0-20% increase
- No change



Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C032
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



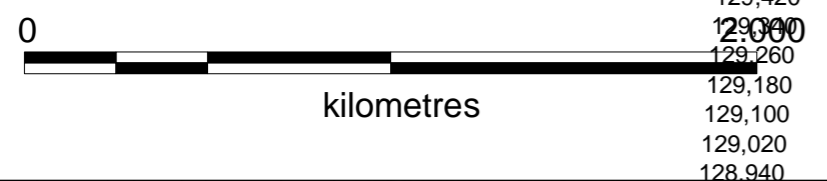
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Velocity < 1m/s

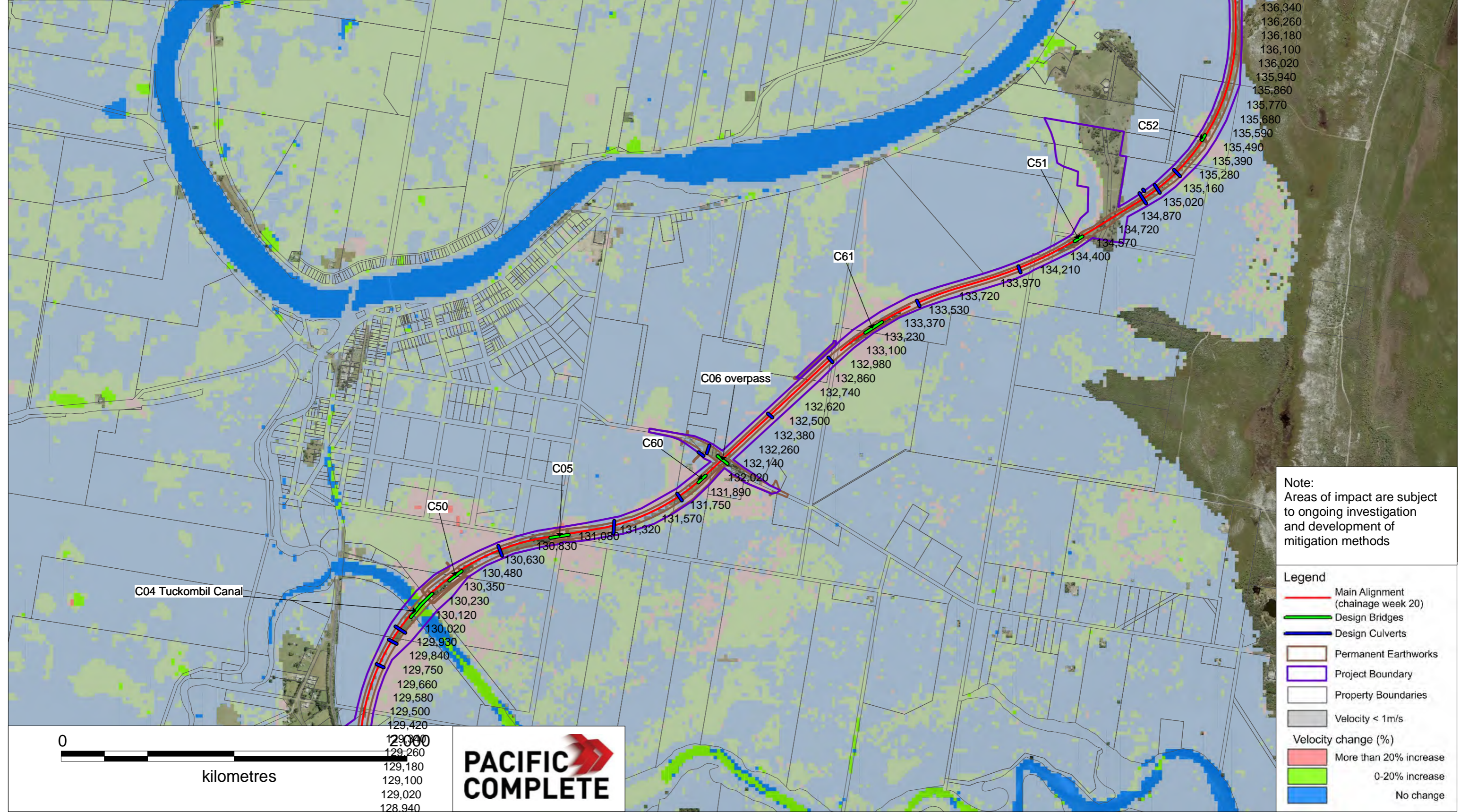
Velocity change (%)

- More than 20% increase
- 0-20% increase
- No change



137,500
 137,400
 137,310
 137,220
 137,140
 137,060
 136,980
 136,900
 136,820
 136,740
 136,660
 136,580
 136,500
 136,420
 136,340
 136,260
 136,180
 136,100
 136,020
 135,940
 135,860
 135,770
 135,680
 135,590
 135,490
 135,390
 135,280
 135,160
 135,020
 134,870
 134,720
 134,570
 134,400
 134,210
 133,970
 133,720
 133,530
 133,370
 133,230
 133,100
 132,980
 132,860
 132,740
 132,620
 132,500
 132,380
 132,260
 132,140
 132,020
 131,890
 131,750
 131,570
 131,320
 131,080
 130,830
 130,630
 130,480
 130,350
 130,230
 130,120
 130,020
 129,930
 129,840
 129,750
 129,660
 129,580
 129,500
 129,420
 129,300
 129,260
 129,180
 129,100
 129,020
 128,940

Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C033
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



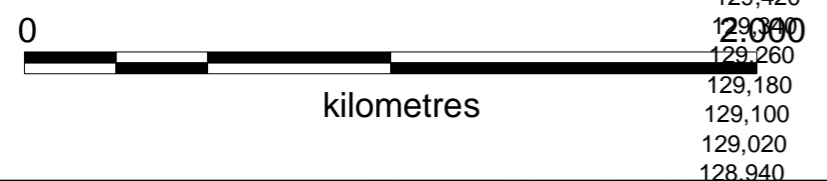
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Velocity < 1m/s

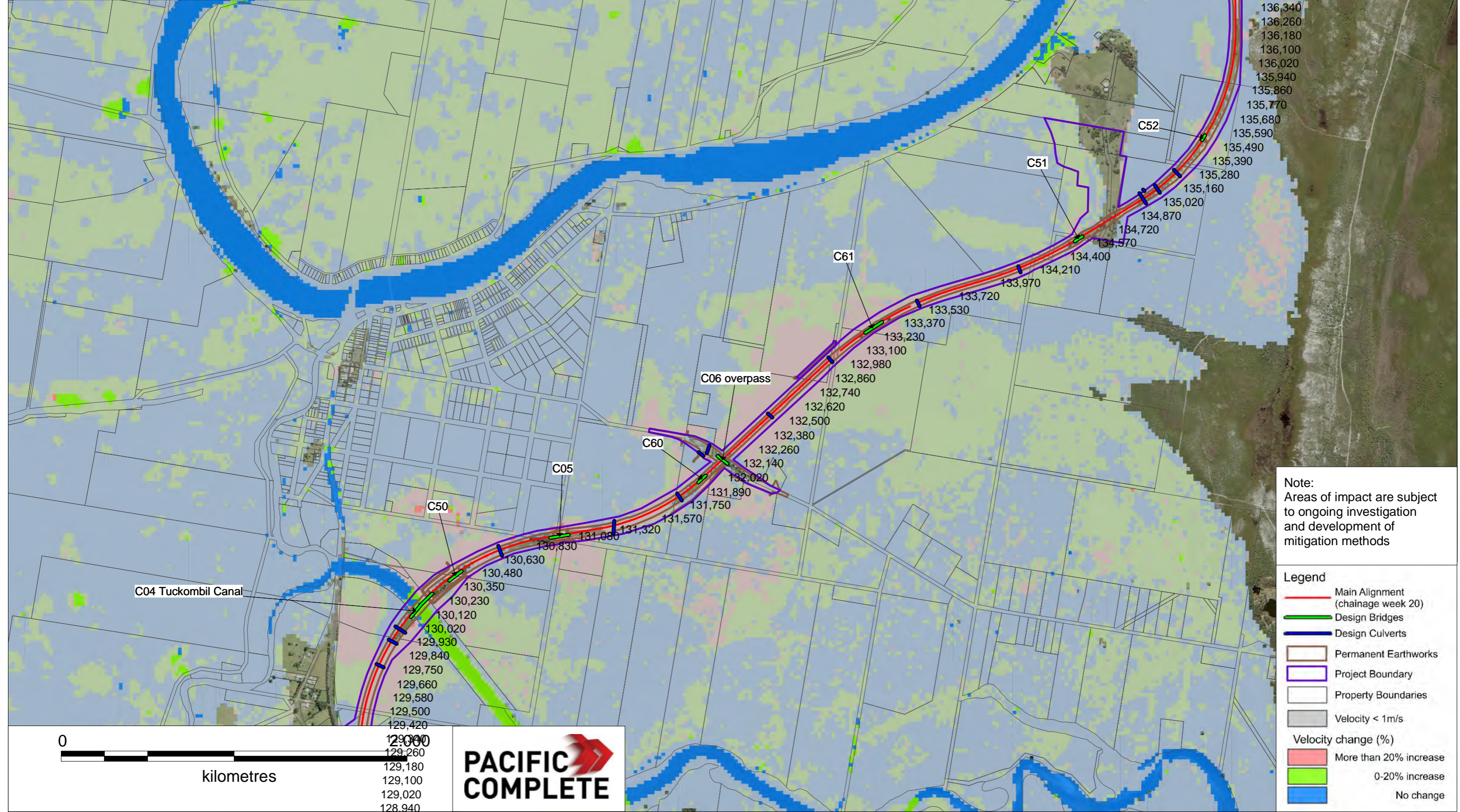
Velocity change (%)

- More than 20% increase
- 0-20% increase
- No change



137,500
137,400
137,310
137,220
137,140
137,060
136,980
136,900
136,820
136,740
136,660
136,580
136,500
136,420
136,340
136,260
136,180
136,100
136,020
135,940
135,860
135,770
135,680
135,590
135,490
135,390
135,280
135,160
135,020
134,870
134,720
134,570
134,400
134,210
133,970
133,720
133,530
133,370
133,230
133,100
132,980
132,860
132,740
132,620
132,500
132,380
132,260
132,140
132,020
131,890
131,750
131,570
131,320
131,080
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130,230
130,120
130,020
129,930
129,840
129,750
129,660
129,580
129,500
129,420
129,300
129,260
129,180
129,100
129,020
128,940

Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C034
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



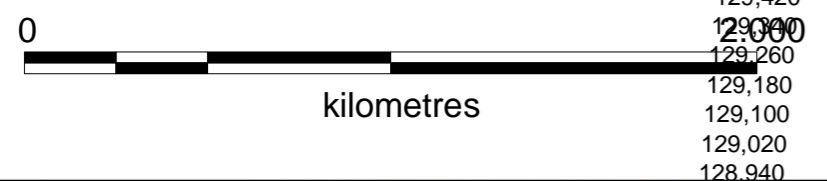
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Velocity < 1m/s

Velocity change (%)

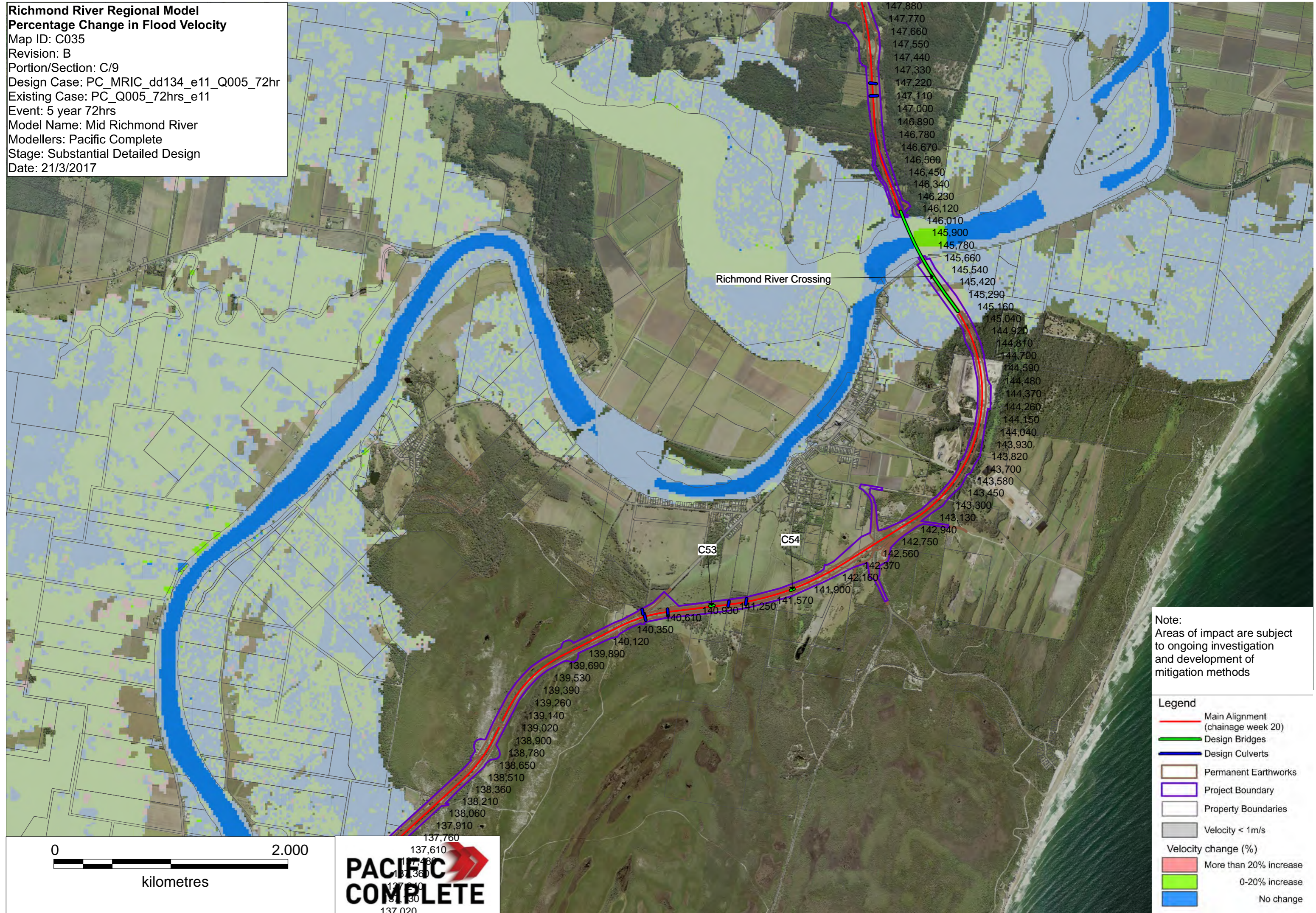
- More than 20% increase
- 0-20% increase
- No change



129,000
 129,260
 129,180
 129,100
 129,020
 128,940

137,500
 137,400
 137,310
 137,220
 137,140
 137,060
 136,980
 136,900
 136,820
 136,740
 136,660
 136,580
 136,500
 136,420
 136,340
 136,260
 136,180
 136,100
 136,020
 135,940
 135,860
 135,770
 135,680
 135,590
 135,490
 135,390
 135,280
 135,160
 135,020
 134,870
 134,720
 134,570
 134,400
 134,210
 133,970
 133,720
 133,530
 133,370
 133,230
 133,100
 132,980
 132,860
 132,740
 132,620
 132,500
 132,380
 132,260
 132,140
 132,020
 131,890
 131,750
 131,570
 131,320
 131,080
 130,830
 130,630
 130,480
 130,350
 130,230
 130,120
 130,020
 129,930
 129,840
 129,750
 129,660
 129,580
 129,500
 129,420

Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C035
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



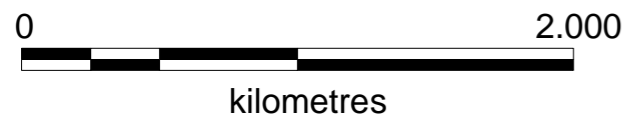
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Velocity < 1m/s

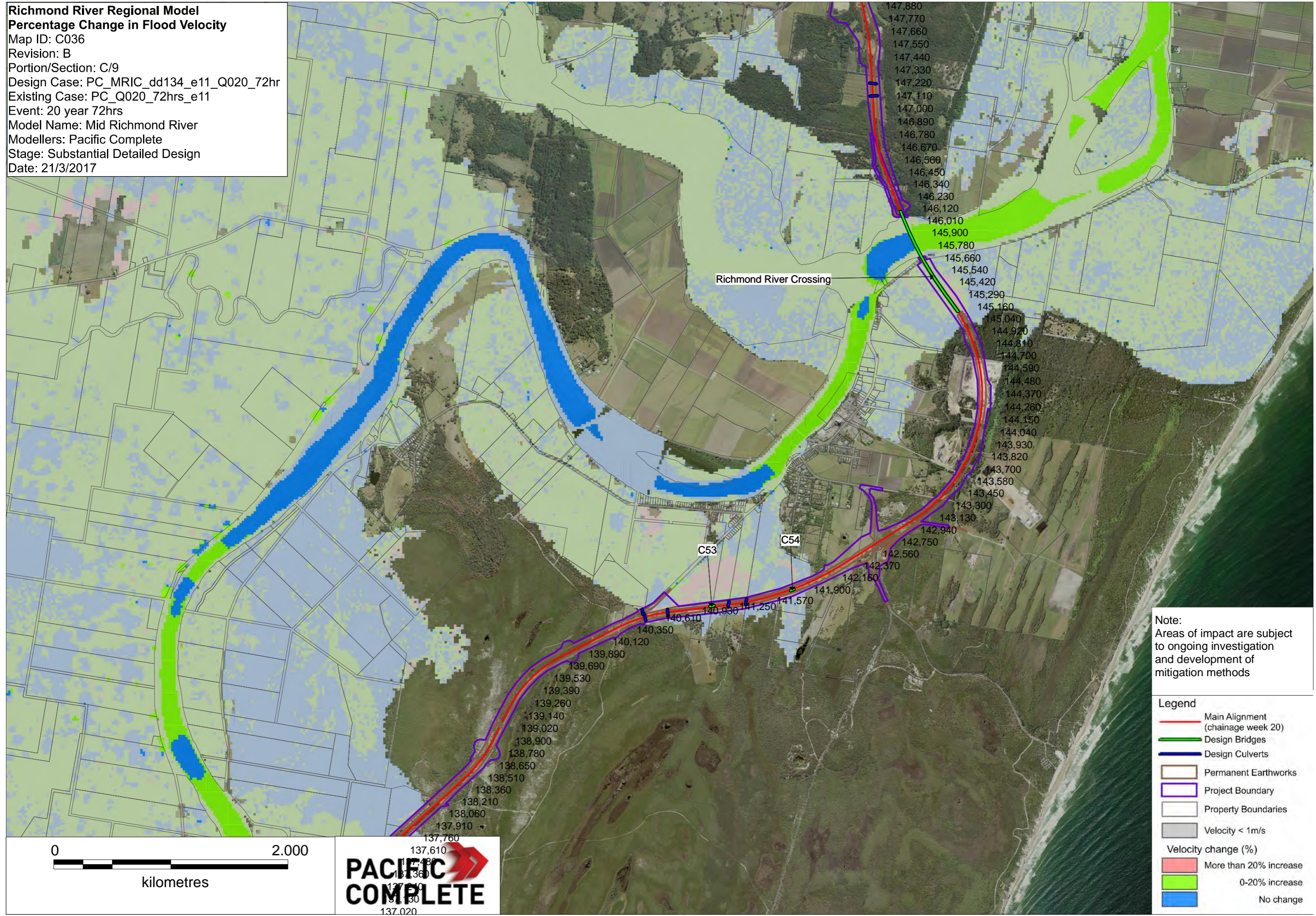
Velocity change (%)

- More than 20% increase
- 0-20% increase
- No change



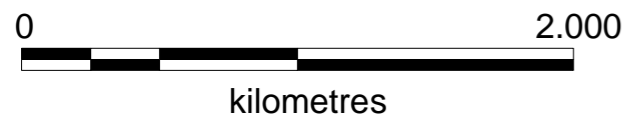
147,880
 147,770
 147,660
 147,550
 147,440
 147,330
 147,220
 147,110
 147,000
 146,890
 146,780
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 146,560
 146,450
 146,340
 146,230
 146,120
 146,010
 145,900
 145,780
 145,660
 145,540
 145,420
 145,290
 145,160
 145,040
 144,920
 144,810
 144,700
 144,590
 144,480
 144,370
 144,260
 144,150
 144,040
 143,930
 143,820
 143,700
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 143,450
 143,300
 143,130
 142,940
 142,750
 142,560
 142,370
 142,160
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 141,570
 141,250
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 140,610
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 139,890
 139,690
 139,530
 139,390
 139,260
 139,140
 139,020
 138,900
 138,780
 138,650
 138,510
 138,360
 138,210
 138,060
 137,910
 137,760
 137,610
 137,480
 137,360
 137,240
 137,120
 137,000
 137,020

Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C036
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



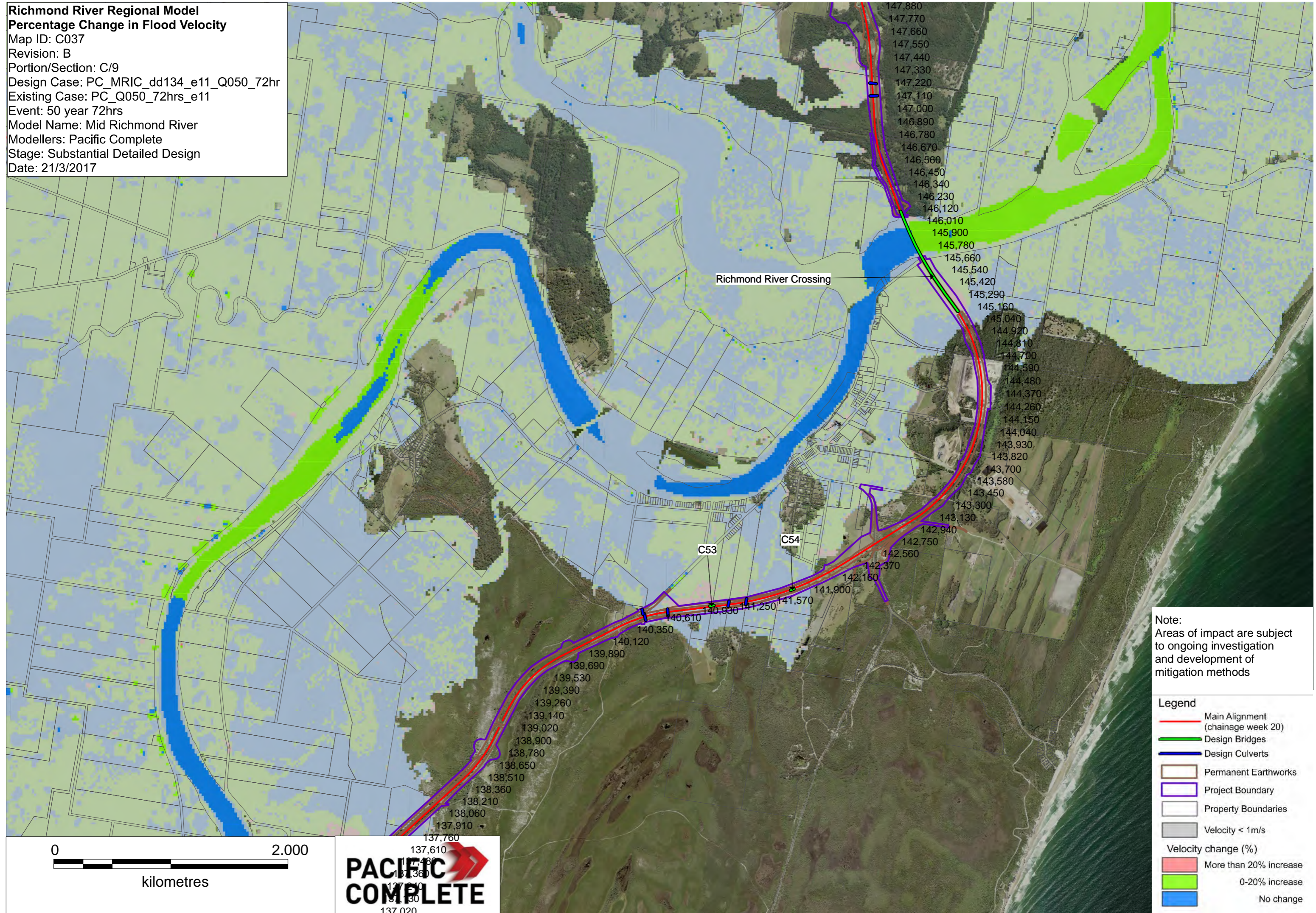
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
 - Velocity < 1m/s
- Velocity change (%)**
- More than 20% increase
 - 0-20% increase
 - No change



147,880
 147,770
 147,660
 147,550
 147,440
 147,330
 147,220
 147,110
 147,000
 146,890
 146,780
 146,670
 146,560
 146,450
 146,340
 146,230
 146,120
 146,010
 145,900
 145,780
 145,660
 145,540
 145,420
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 145,160
 145,040
 144,920
 144,810
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 144,590
 144,480
 144,370
 144,260
 144,150
 144,040
 143,930
 143,820
 143,700
 143,580
 143,450
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 143,130
 142,940
 142,750
 142,560
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 142,160
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 141,570
 141,250
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 140,610
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 140,120
 139,890
 139,690
 139,530
 139,390
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 139,140
 139,020
 138,900
 138,780
 138,650
 138,510
 138,360
 138,210
 138,060
 137,910
 137,760
 137,610
 137,480
 137,360
 137,210
 137,130
 137,020

Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C037
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



147,880
 147,770
 147,660
 147,550
 147,440
 147,330
 147,220
 147,110
 147,000
 146,890
 146,780
 146,670
 146,560
 146,450
 146,340
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 146,120
 146,010
 145,900
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 145,540
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 144,920
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 144,150
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 143,450
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 142,560
 142,370
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 140,930
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 138,900
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 138,650
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 138,360
 138,210
 138,060
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 137,480
 137,360
 137,240
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 136,880
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 134,480
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 134,000
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 132,680
 132,560
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 132,080
 131,960
 131,840
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 130,040
 129,920
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 129,320
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 128,840
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 128,600
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 128,360
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 128,120
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 127,760
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 122,600
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 121,640
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 121,400
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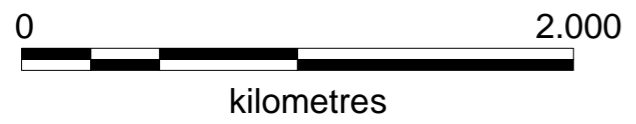
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

Legend

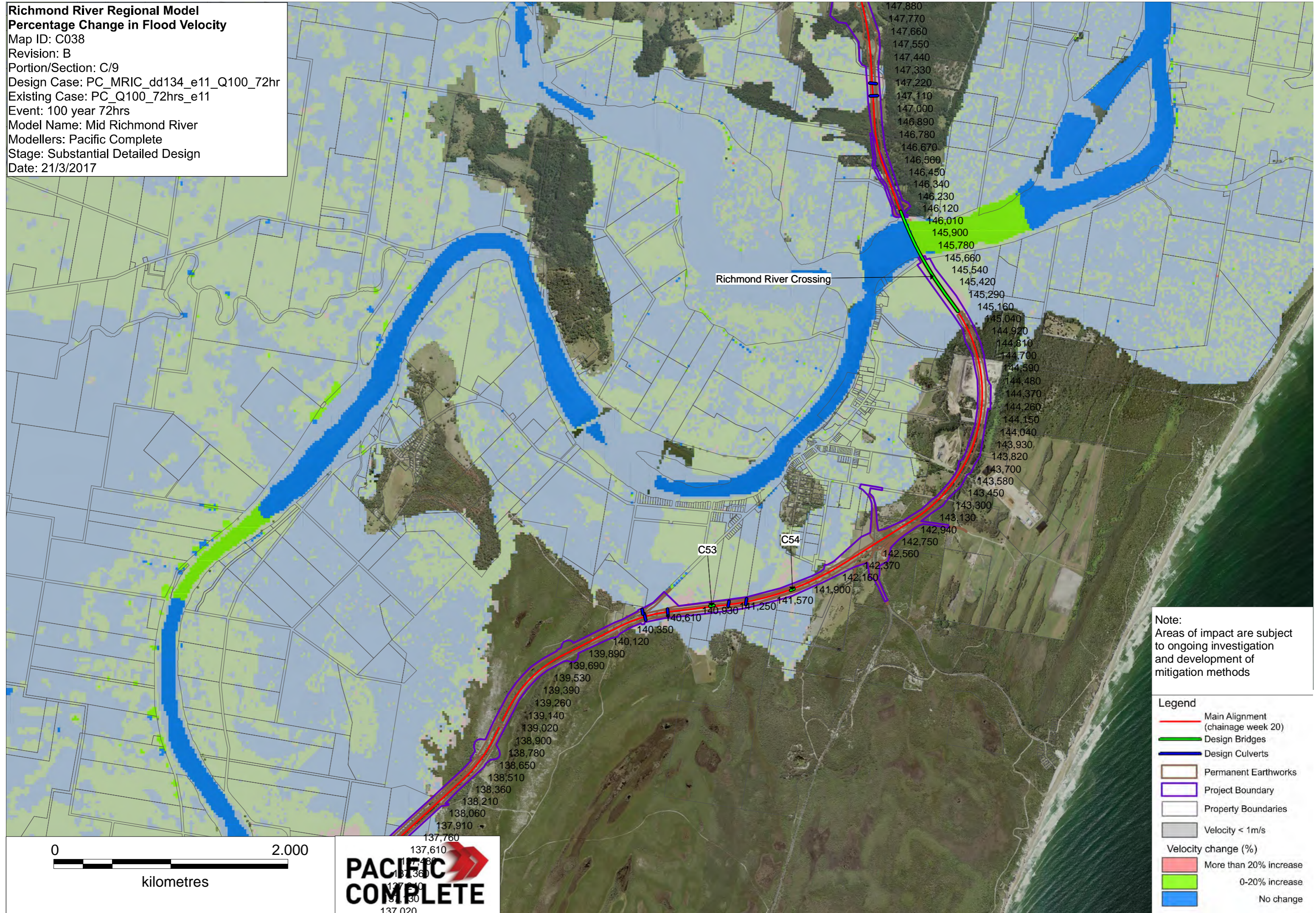
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Velocity < 1m/s

Velocity change (%)

- More than 20% increase
- 0-20% increase
- No change



Richmond River Regional Model
Percentage Change in Flood Velocity
 Map ID: C038
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



147,880
 147,770
 147,660
 147,550
 147,440
 147,330
 147,220
 147,110
 147,000
 146,890
 146,780
 146,670
 146,560
 146,450
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 146,230
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 137,020

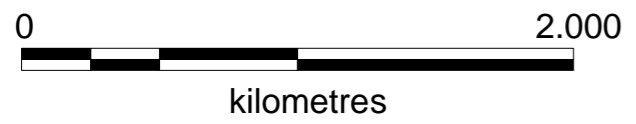
Richmond River Crossing

C53

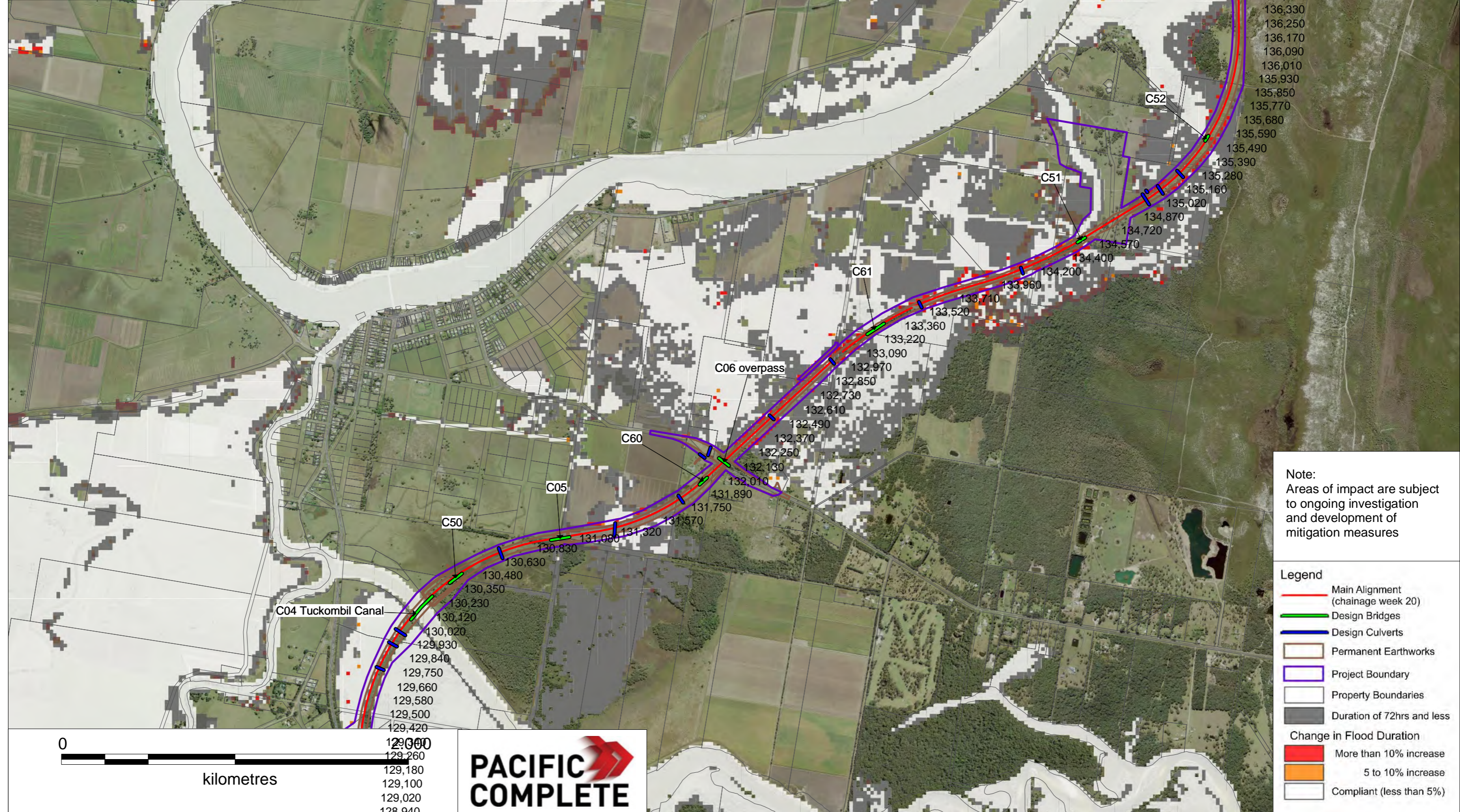
C54

Note:
 Areas of impact are subject to ongoing investigation and development of mitigation methods

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
 - Velocity < 1m/s
- Velocity change (%)**
- More than 20% increase
 - 0-20% increase
 - No change



Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C047
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017

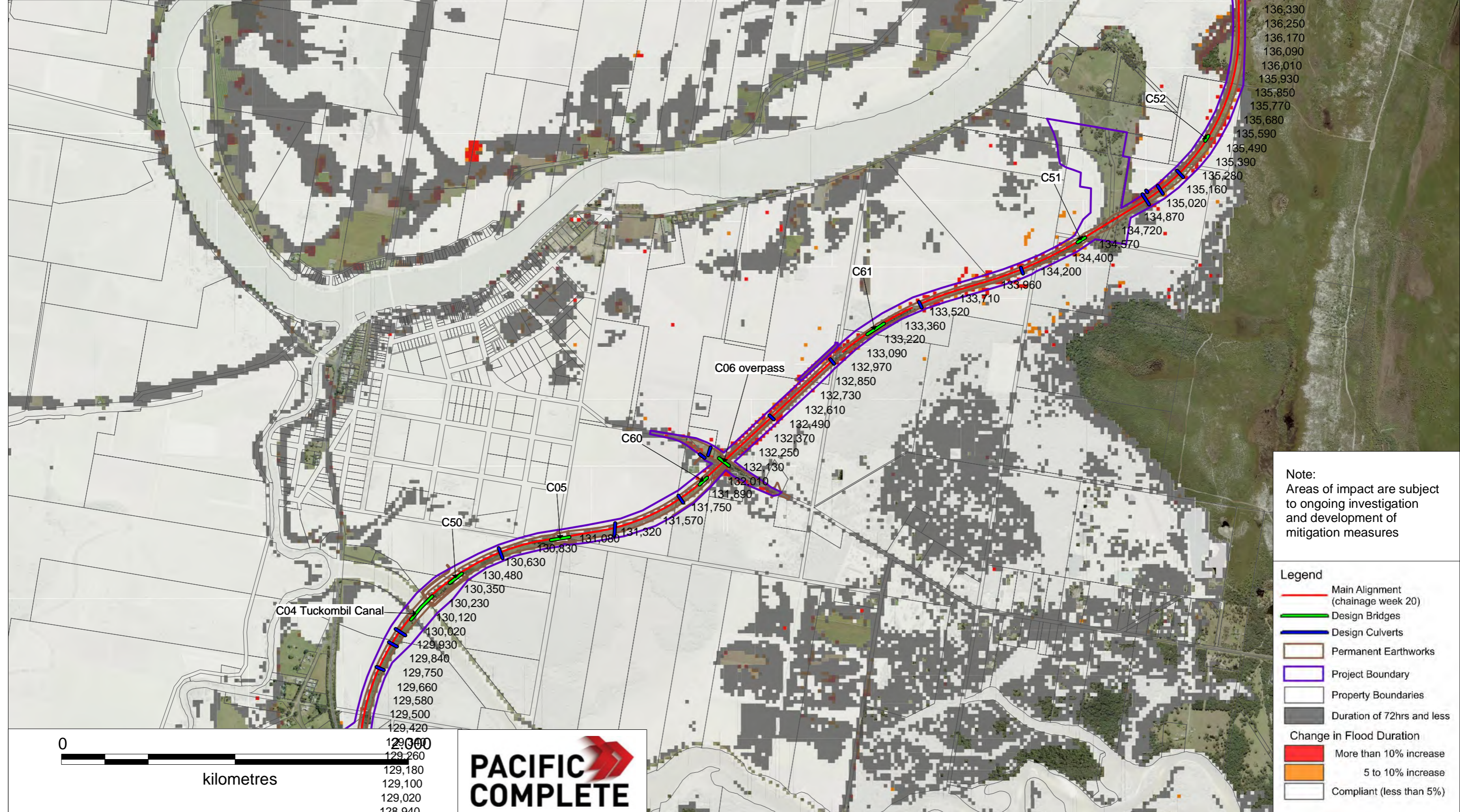


Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
 - Duration of 72hrs and less
- Change in Flood Duration**
- More than 10% increase
 - 5 to 10% increase
 - Compliant (less than 5%)

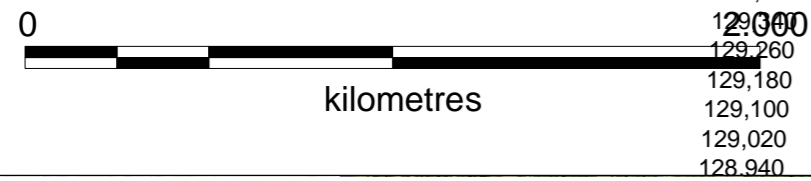


Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C048
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



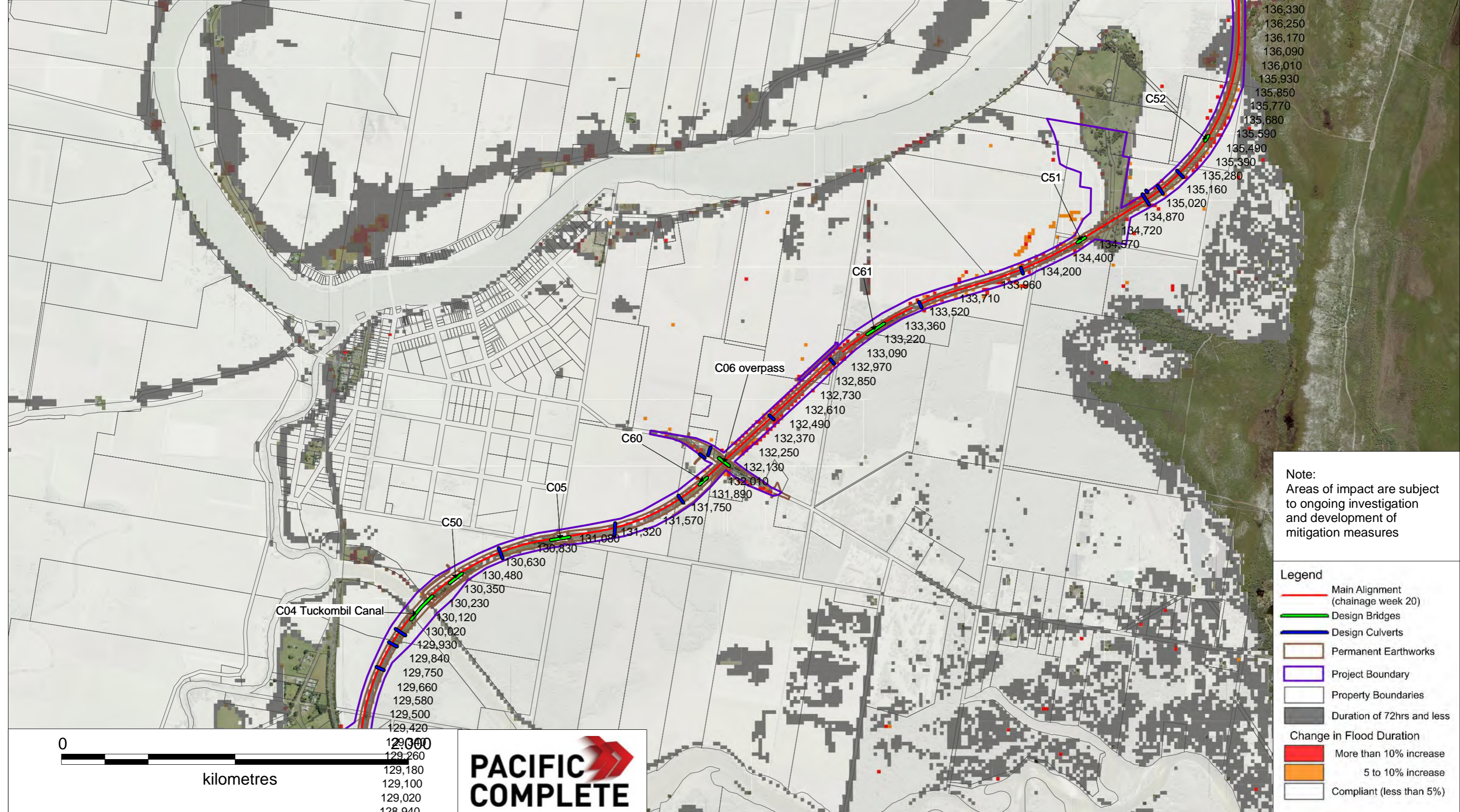
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
 - Duration of 72hrs and less
- Change in Flood Duration**
- More than 10% increase
 - 5 to 10% increase
 - Compliant (less than 5%)



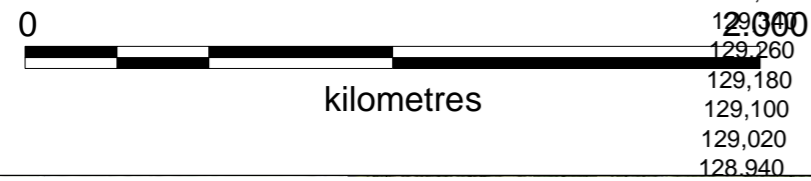
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 136,170
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 135,770
 135,680
 135,590
 135,490
 135,390
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 135,020
 134,870
 134,720
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 134,400
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 132,610
 132,490
 132,370
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 131,890
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 130,020
 129,930
 129,840
 129,750
 129,660
 129,580
 129,500
 129,420
 129,300
 129,260
 129,180
 129,100
 129,020
 128,940

Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C049
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

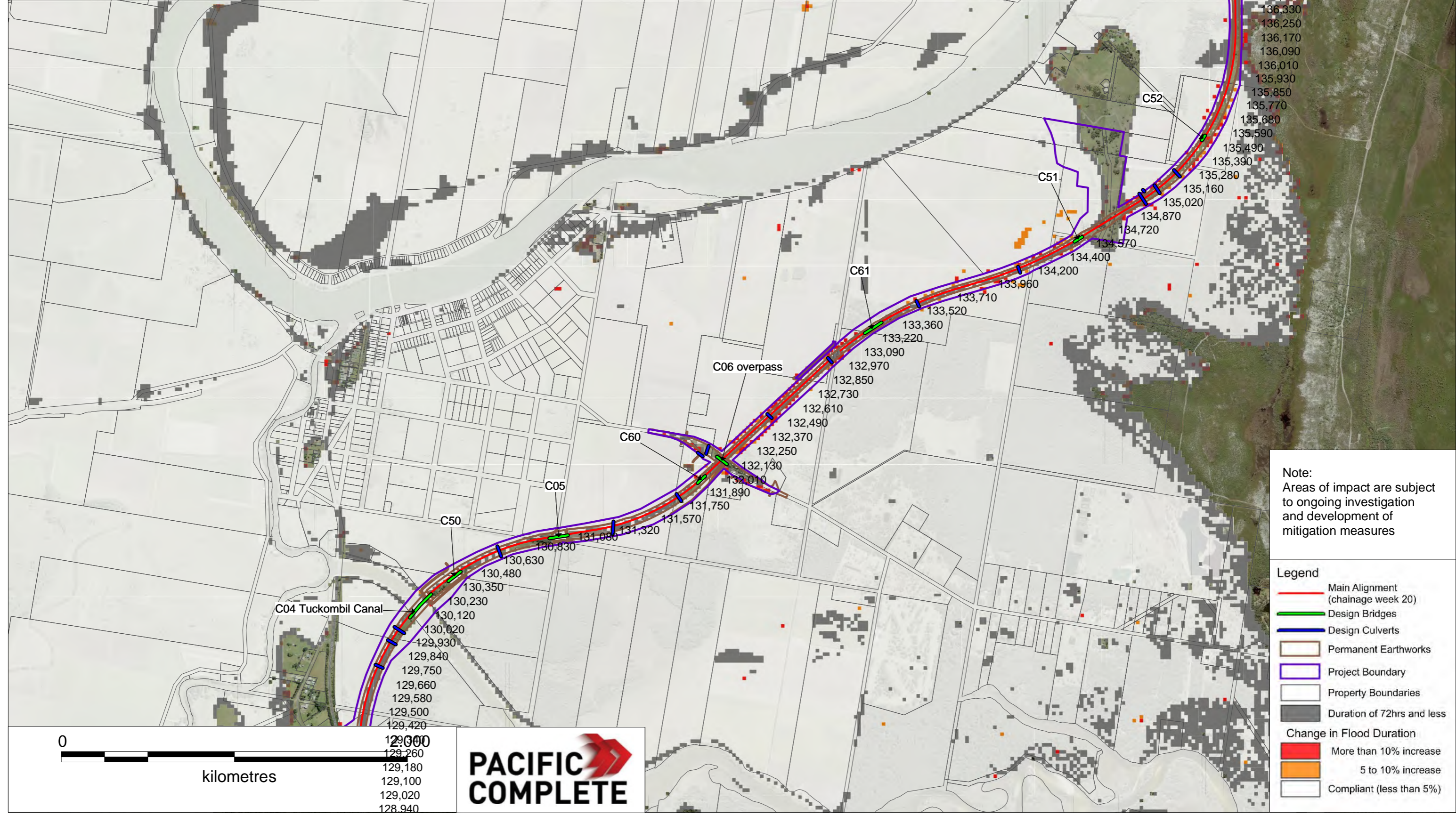
- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
 - Duration of 72hrs and less
- Change in Flood Duration**
- More than 10% increase
 - 5 to 10% increase
 - Compliant (less than 5%)



129,000
 129,260
 129,180
 129,100
 129,020
 128,940

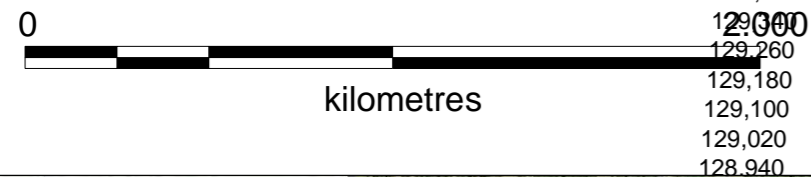
137,480
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 137,210
 137,130
 137,050
 136,970
 136,890
 136,810
 136,730
 136,650
 136,570
 136,490
 136,410
 136,330
 136,250
 136,170
 136,090
 136,010
 135,930
 135,850
 135,770
 135,680
 135,590
 135,490
 135,390
 135,280
 135,160
 135,020
 134,870
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 133,090
 132,970
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 132,010
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 131,750
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 130,480
 130,350
 130,230
 130,120
 130,020
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 129,840
 129,750
 129,660
 129,580
 129,500
 129,420
 129,300

Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C050
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017

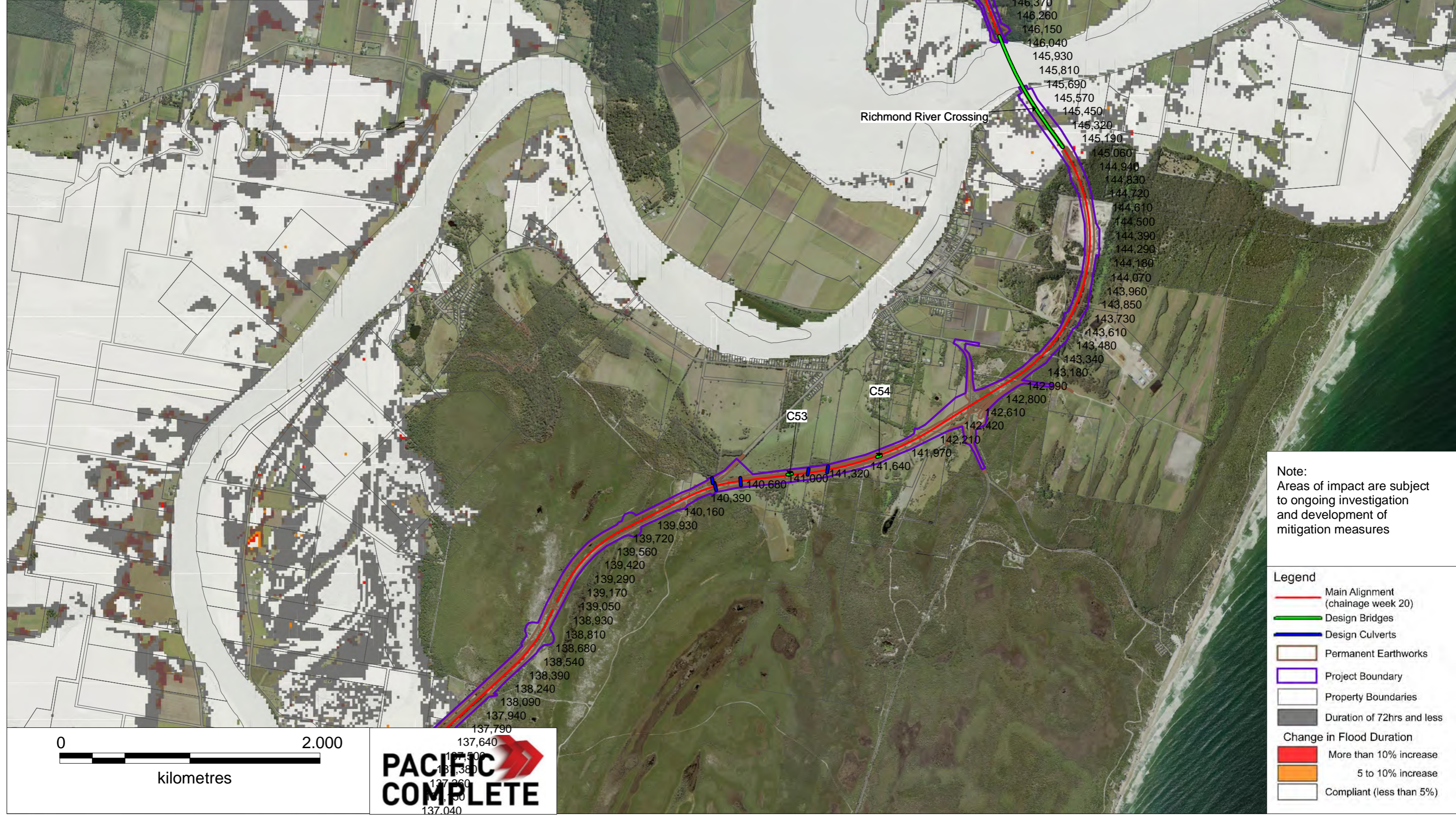


Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
 - Duration of 72hrs and less
- Change in Flood Duration**
- More than 10% increase
 - 5 to 10% increase
 - Compliant (less than 5%)



Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C051
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Existing Case: PC_Q005_72hrs_e11
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Duration of 72hrs and less

Change in Flood Duration

- More than 10% increase
- 5 to 10% increase
- Compliant (less than 5%)

Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C052
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Existing Case: PC_Q020_72hrs_e11
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



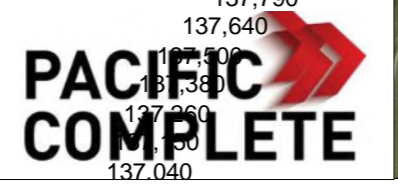
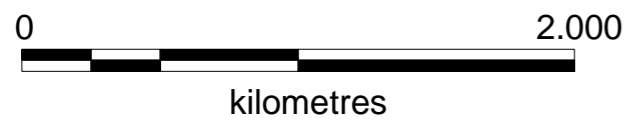
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

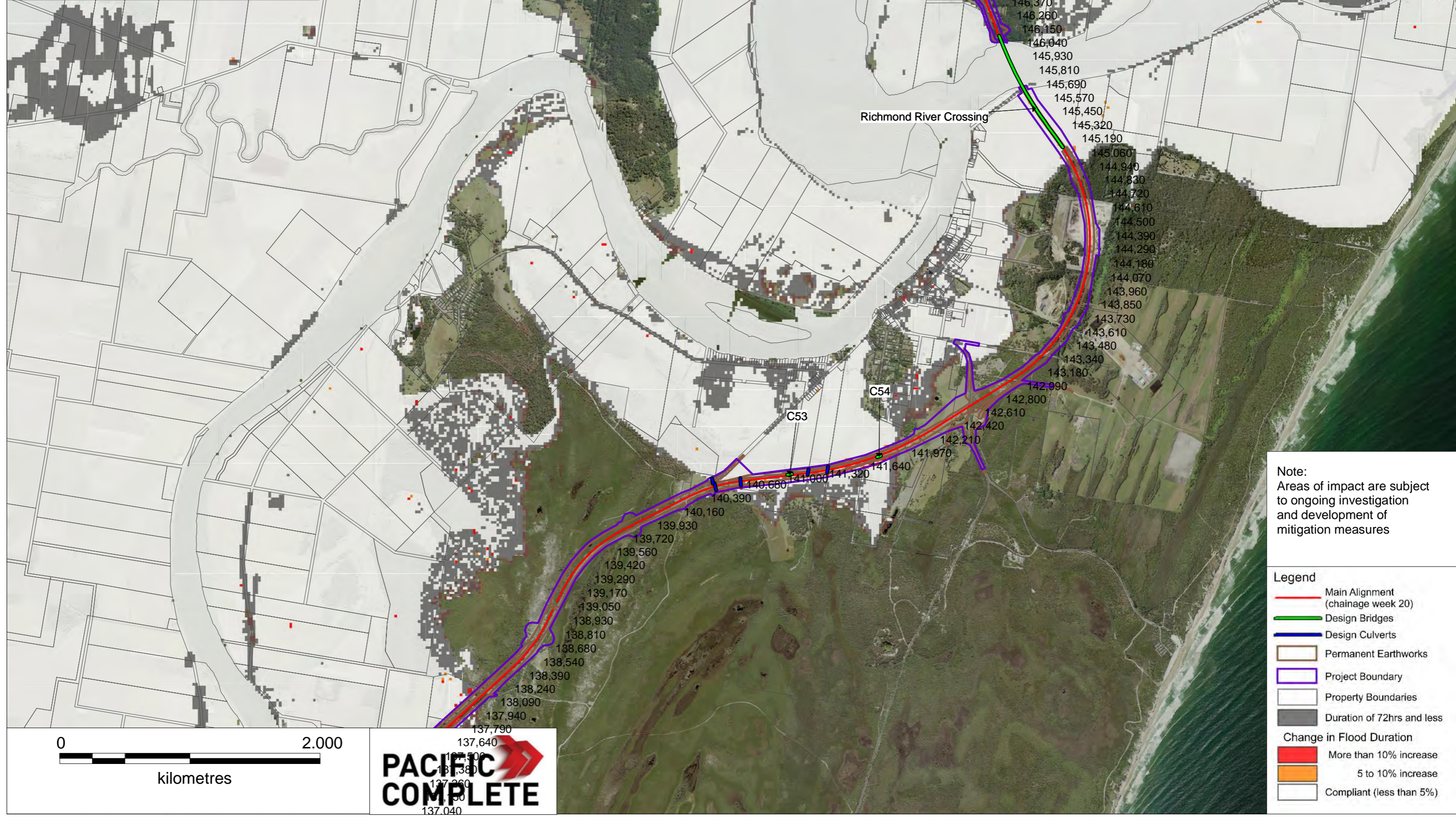
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Duration of 72hrs and less

Change in Flood Duration

- More than 10% increase
- 5 to 10% increase
- Compliant (less than 5%)



Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C053
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Existing Case: PC_Q050_72hrs_e11
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



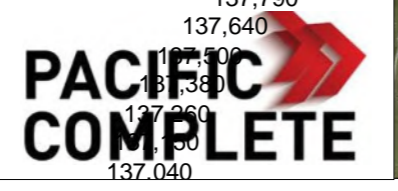
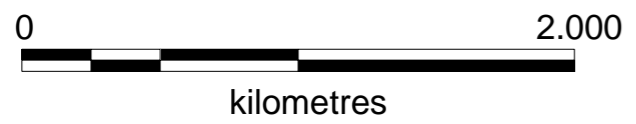
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

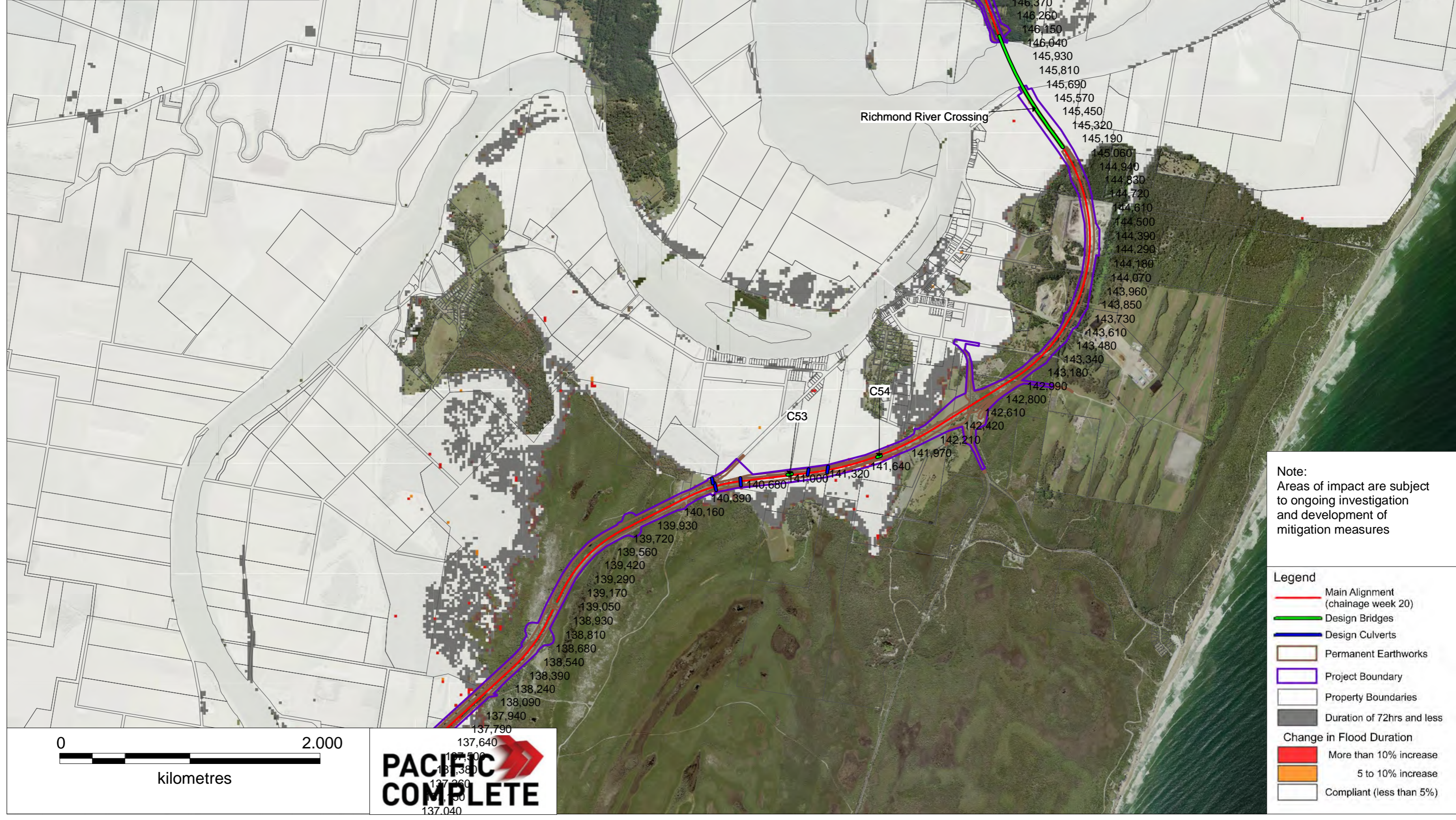
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Duration of 72hrs and less

Change in Flood Duration

- More than 10% increase
- 5 to 10% increase
- Compliant (less than 5%)



Richmond River Regional Model
Percentage Change in Flood Duration
 Map ID: C054
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Existing Case: PC_Q100_72hrs_e11
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Richmond River Crossing

C54

C53

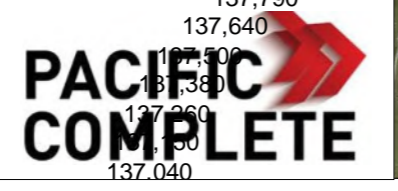
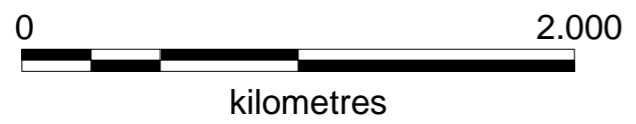
Note:
 Areas of impact are subject to ongoing investigation and development of mitigation measures

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Duration of 72hrs and less

Change in Flood Duration

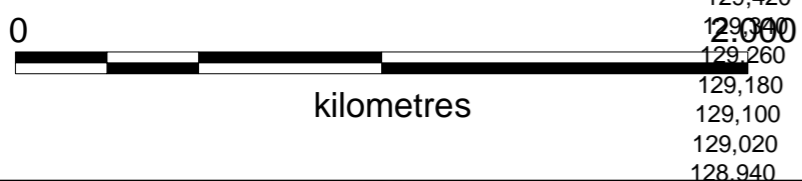
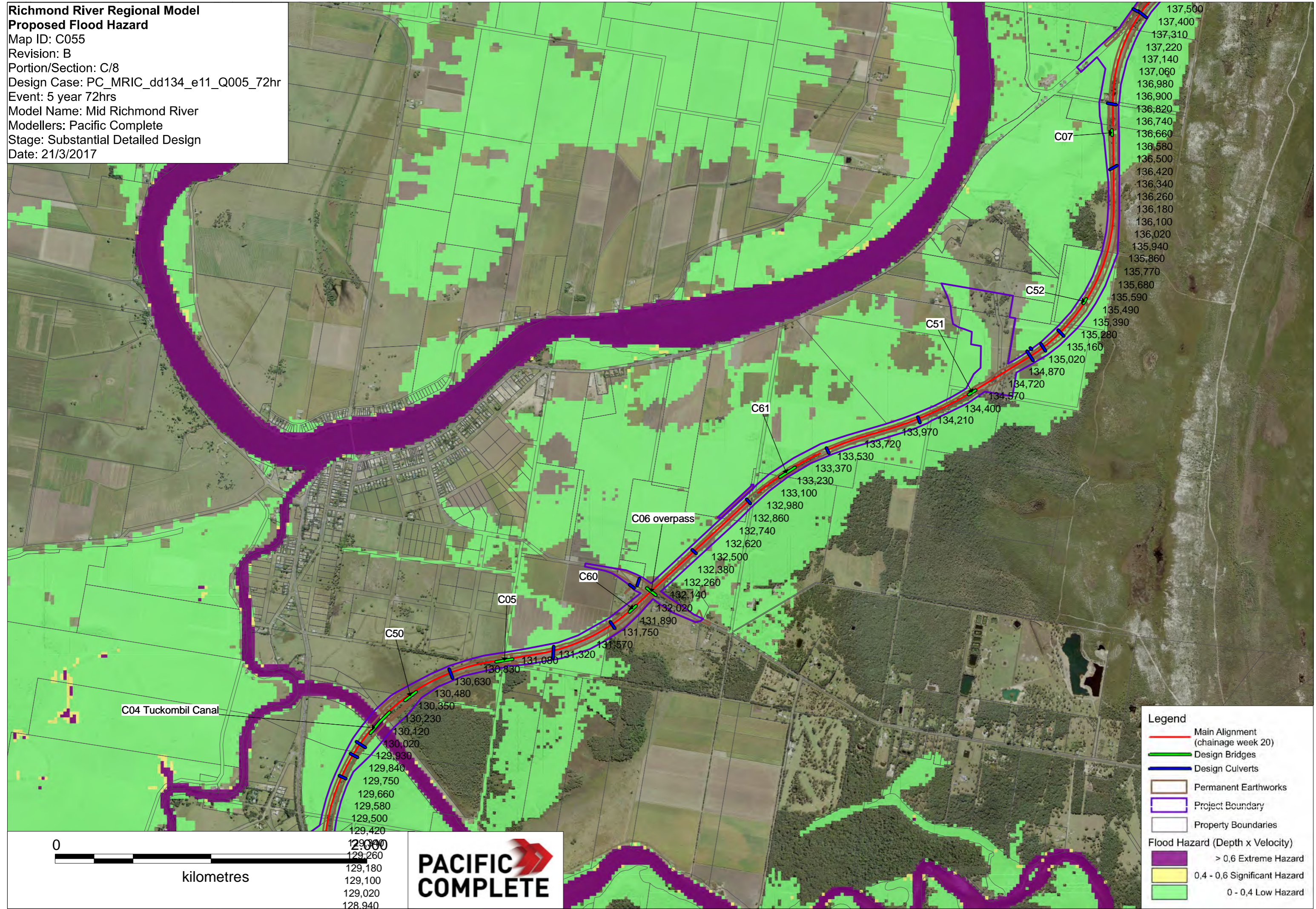
- More than 10% increase
- 5 to 10% increase
- Compliant (less than 5%)



137,640
 137,500
 137,380
 137,260
 137,150
 137,040

147,800
 147,690
 147,580
 147,470
 147,360
 147,250
 147,140
 147,030
 146,920
 146,810
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 146,480
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 146,150
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 144,390
 144,290
 144,180
 144,070
 143,960
 143,850
 143,730
 143,610
 143,480
 143,340
 143,180
 142,990
 142,800
 142,610
 142,420
 142,210
 141,970
 141,640
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 141,000
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 140,390
 140,160
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 139,720
 139,560
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 139,290
 139,170
 139,050
 138,930
 138,810
 138,680
 138,540
 138,390
 138,240
 138,090
 137,940
 137,790
 137,640

**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C055
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



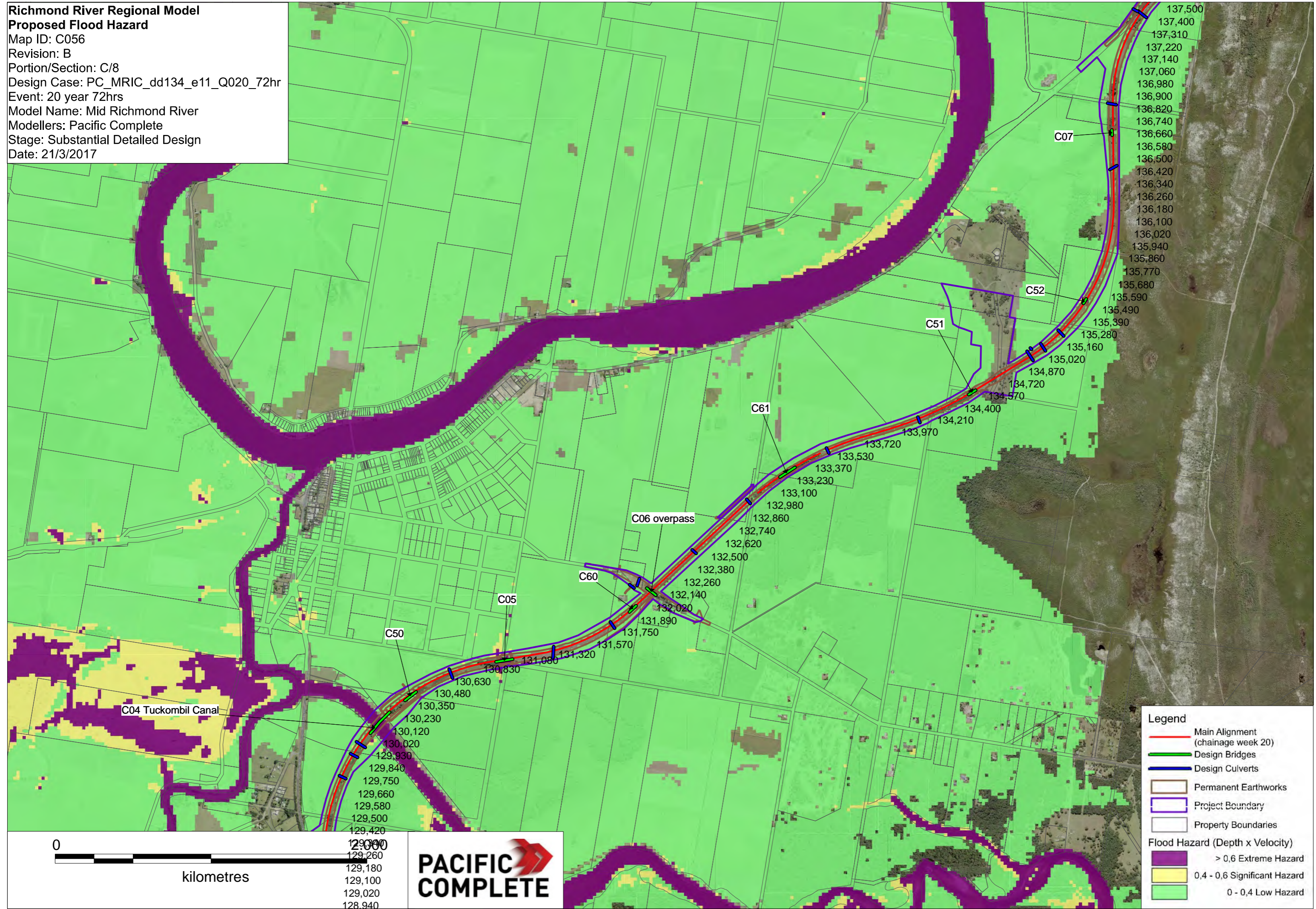
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C056
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017

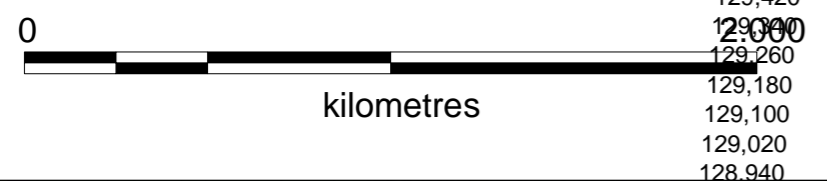


Legend

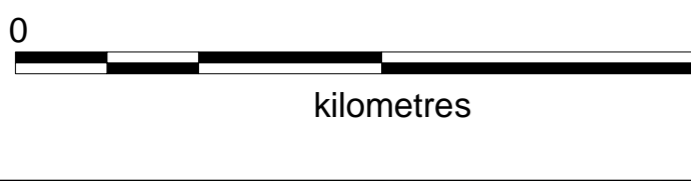
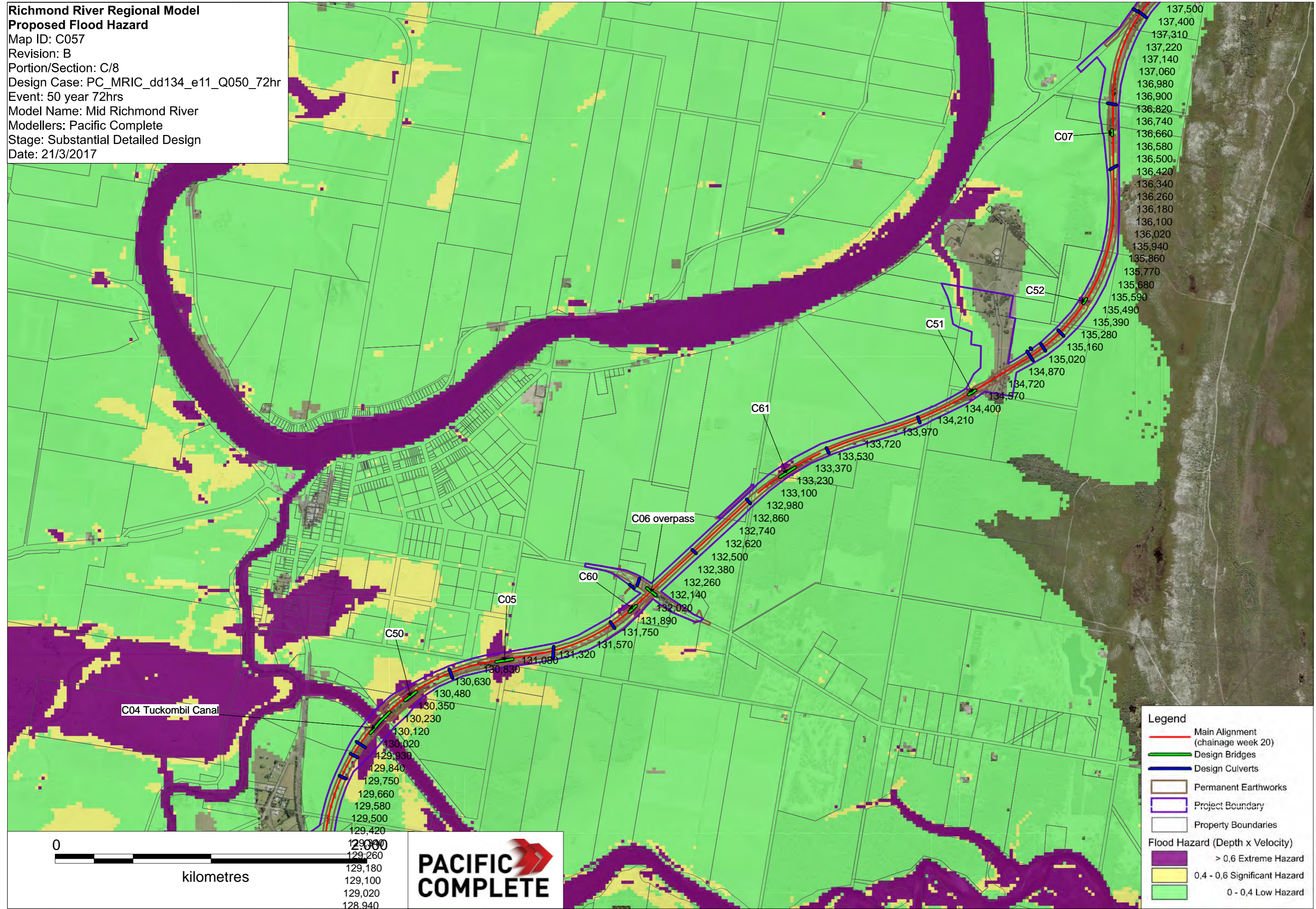
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard



**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C057
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



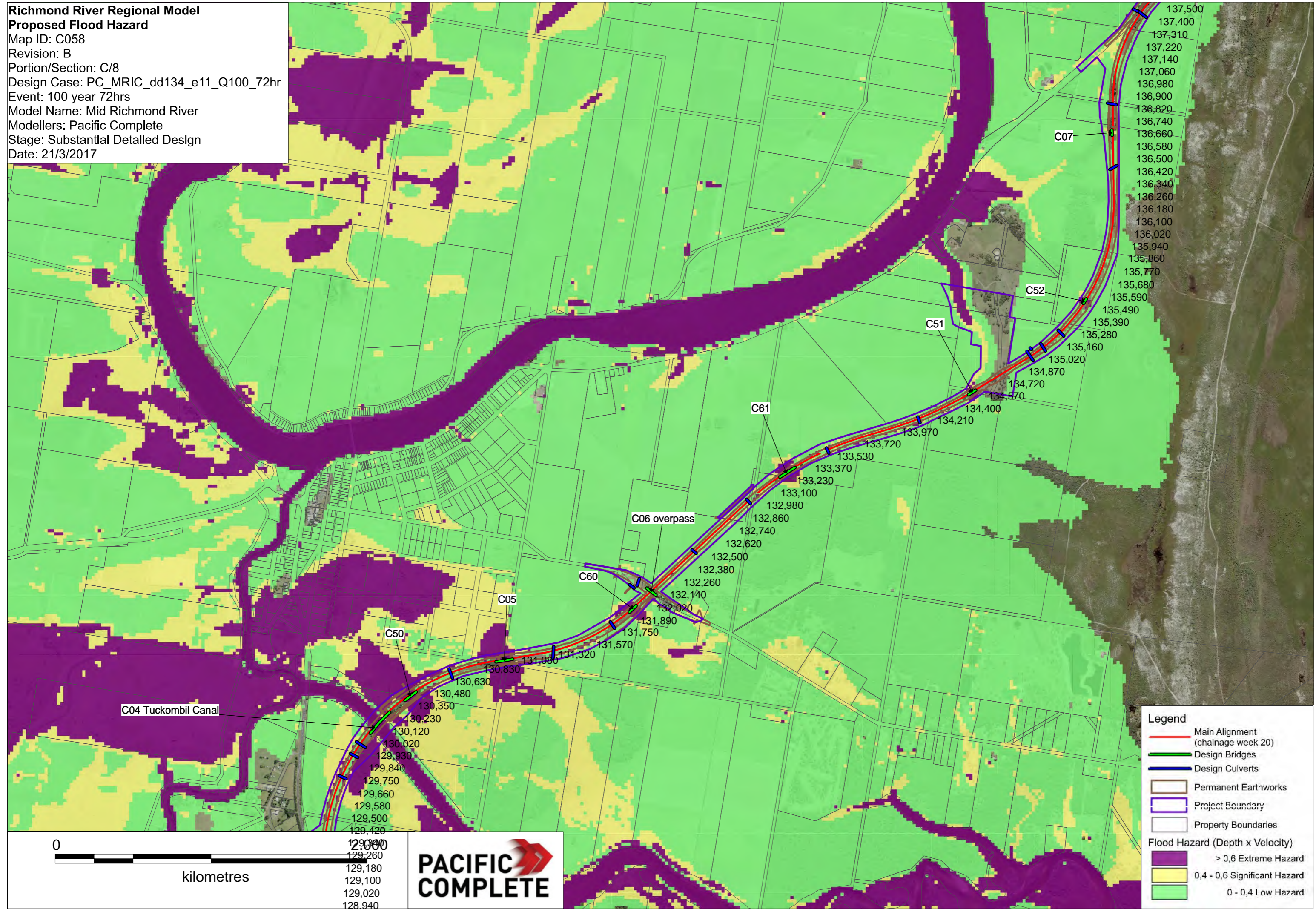
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C058
 Revision: B
 Portion/Section: C/8
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

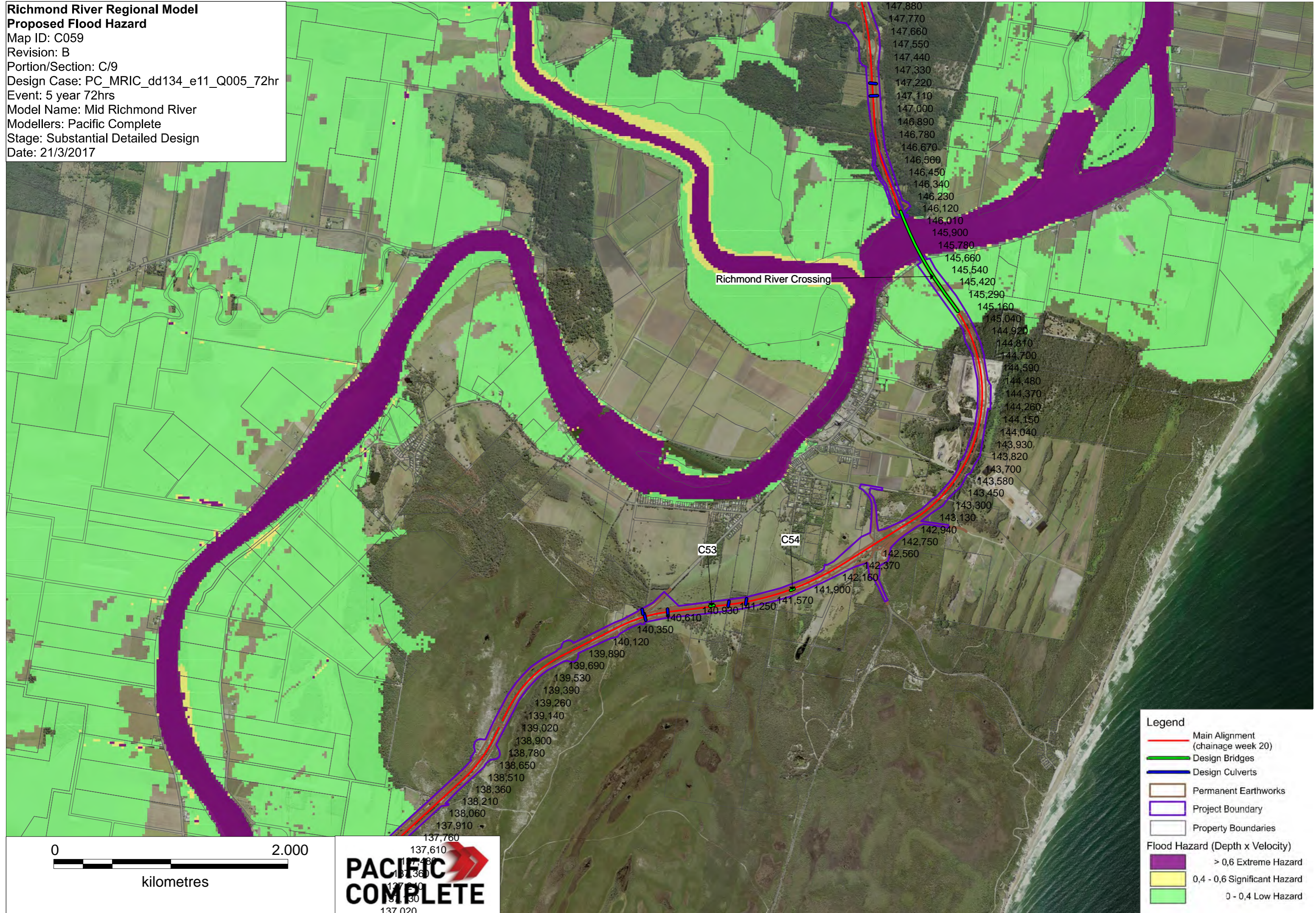
- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

0 2
 kilometres

129,000
129,260
129,180
129,100
129,020
128,940



**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C059
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q005_72hr
 Event: 5 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017

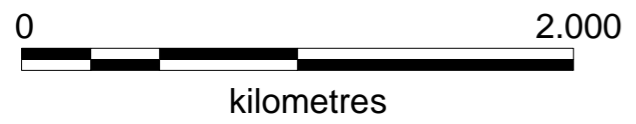


Legend

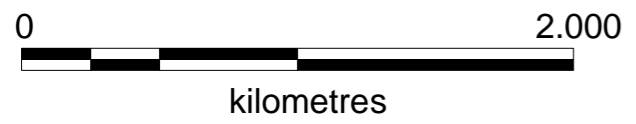
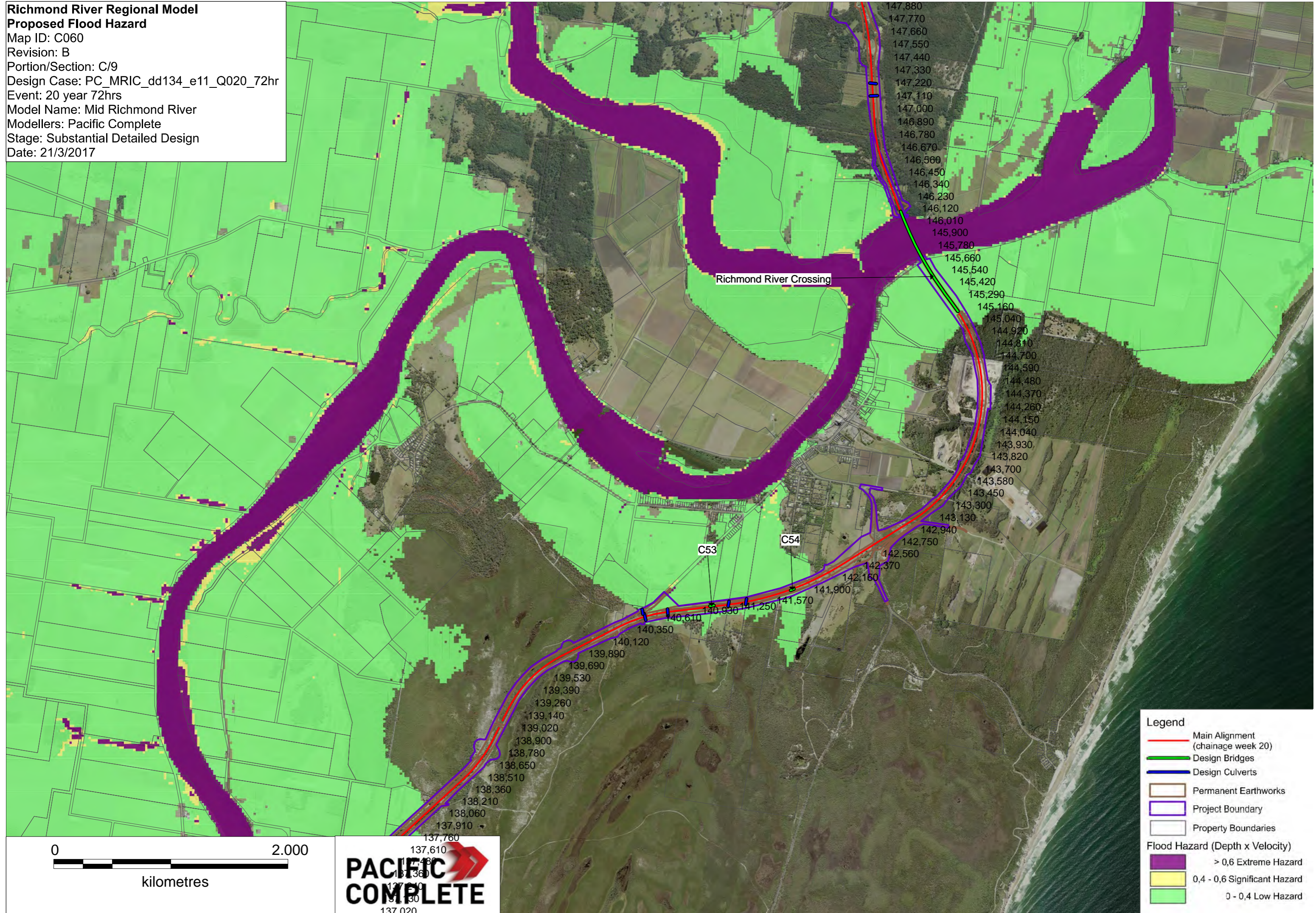
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard



**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C060
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q020_72hr
 Event: 20 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



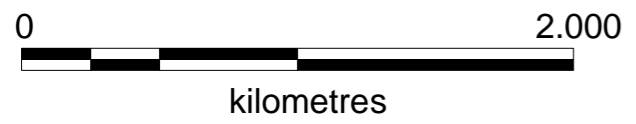
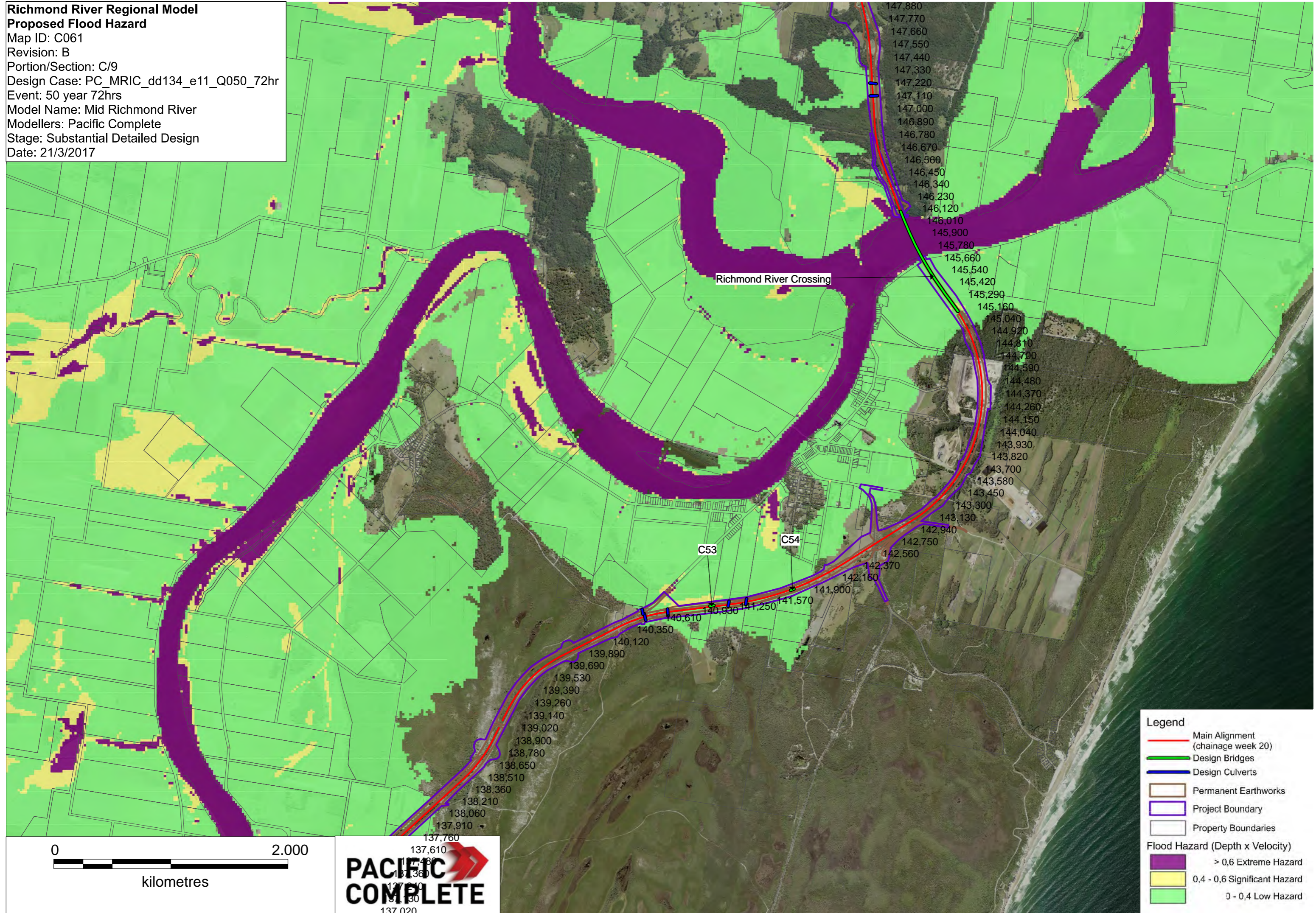
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C061
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q050_72hr
 Event: 50 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



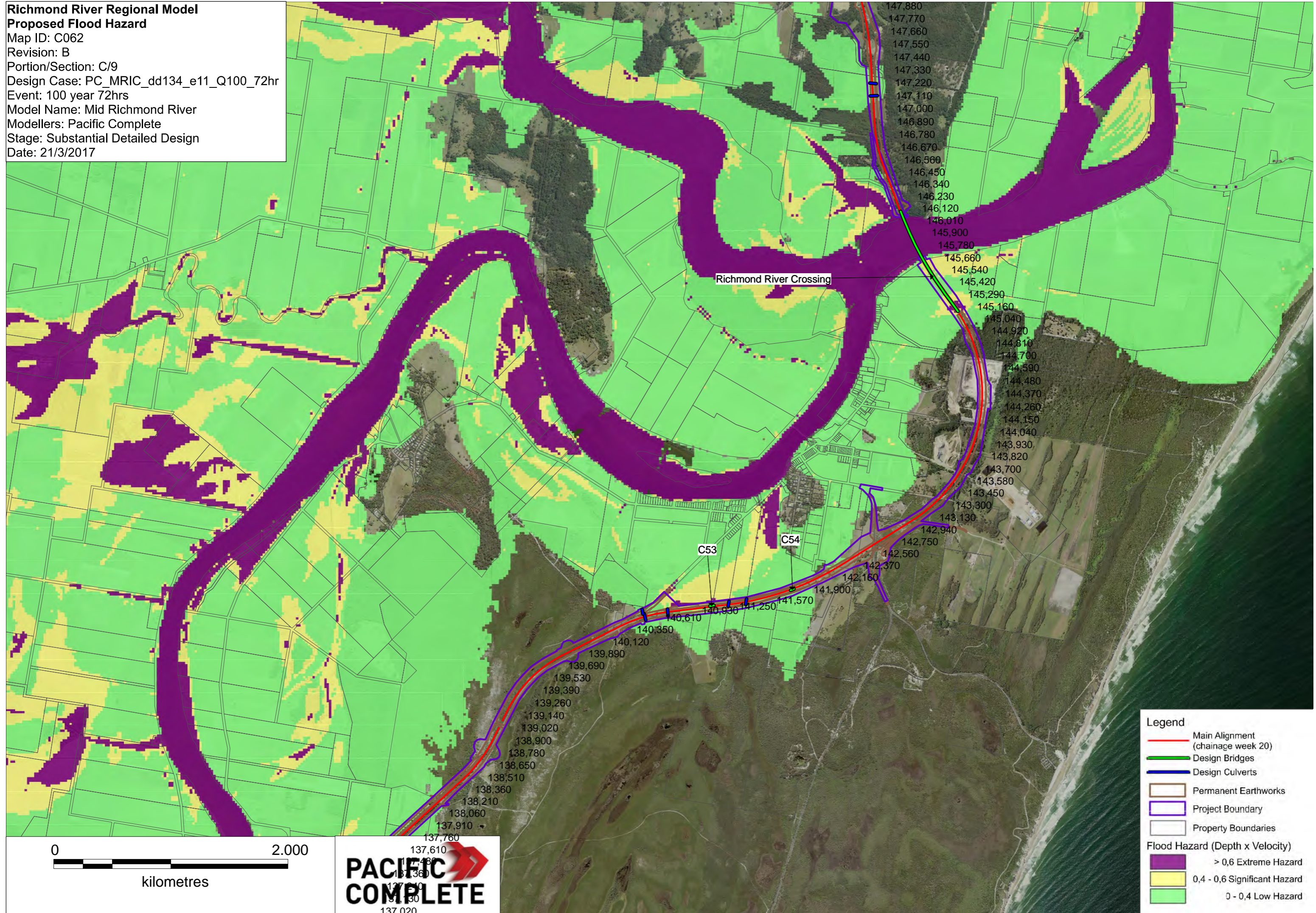
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

**Richmond River Regional Model
Proposed Flood Hazard**
 Map ID: C062
 Revision: B
 Portion/Section: C/9
 Design Case: PC_MRIC_dd134_e11_Q100_72hr
 Event: 100 year 72hrs
 Model Name: Mid Richmond River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 21/3/2017



147,880
 147,770
 147,660
 147,550
 147,440
 147,330
 147,220
 147,110
 147,000
 146,890
 146,780
 146,670
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 146,450
 146,340
 146,230
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 145,900
 145,780
 145,660
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 144,040
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 143,300
 143,130
 142,940
 142,750
 142,560
 142,370
 142,160
 141,900
 141,570
 141,250
 140,930
 140,610
 140,350
 140,120
 139,890
 139,690
 139,530
 139,390
 139,260
 139,140
 139,020
 138,900
 138,780
 138,650
 138,510
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 138,060
 137,910
 137,760
 137,610
 137,480
 137,360
 137,240
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 137,000
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 136,640
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 136,400
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 136,040
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 120,920
 120,800
 120,680
 120,560
 120,440
 120,320
 120,200
 120,080
 120,000

Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

