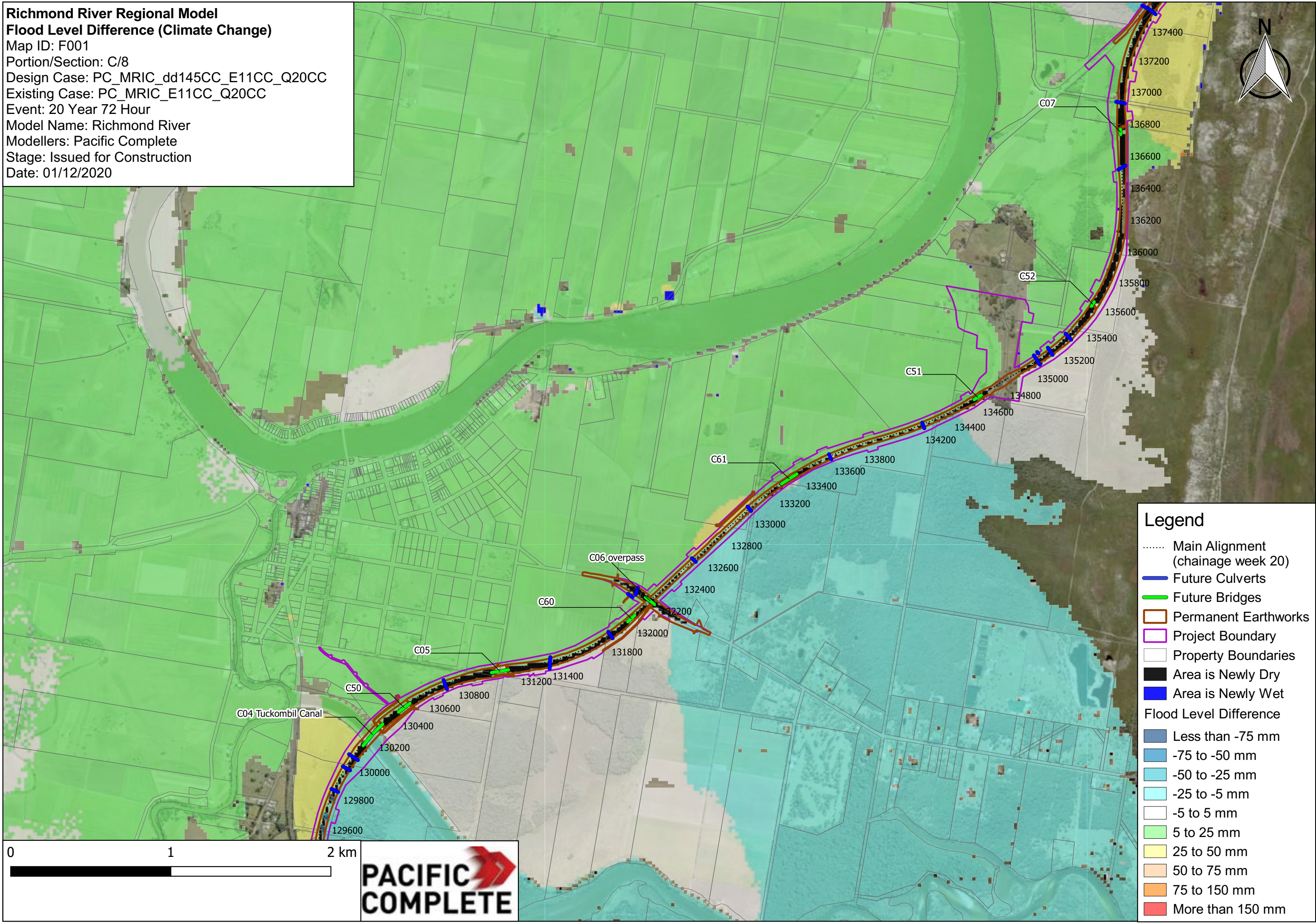


Appendix F

Climate change and extreme event flood maps for Mid-Richmond and Lower Richmond regional floodplains

**Richmond River Regional Model
Flood Level Difference (Climate Change)**
 Map ID: F001
 Portion/Section: C/8
 Design Case: PC_MRIC_dd145CC_E11CC_Q20CC
 Existing Case: PC_MRIC_E11CC_Q20CC
 Event: 20 Year 72 Hour
 Model Name: Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 01/12/2020

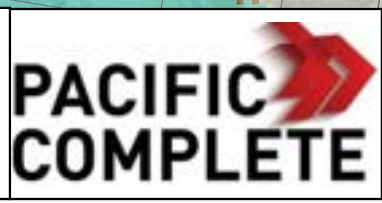


Legend

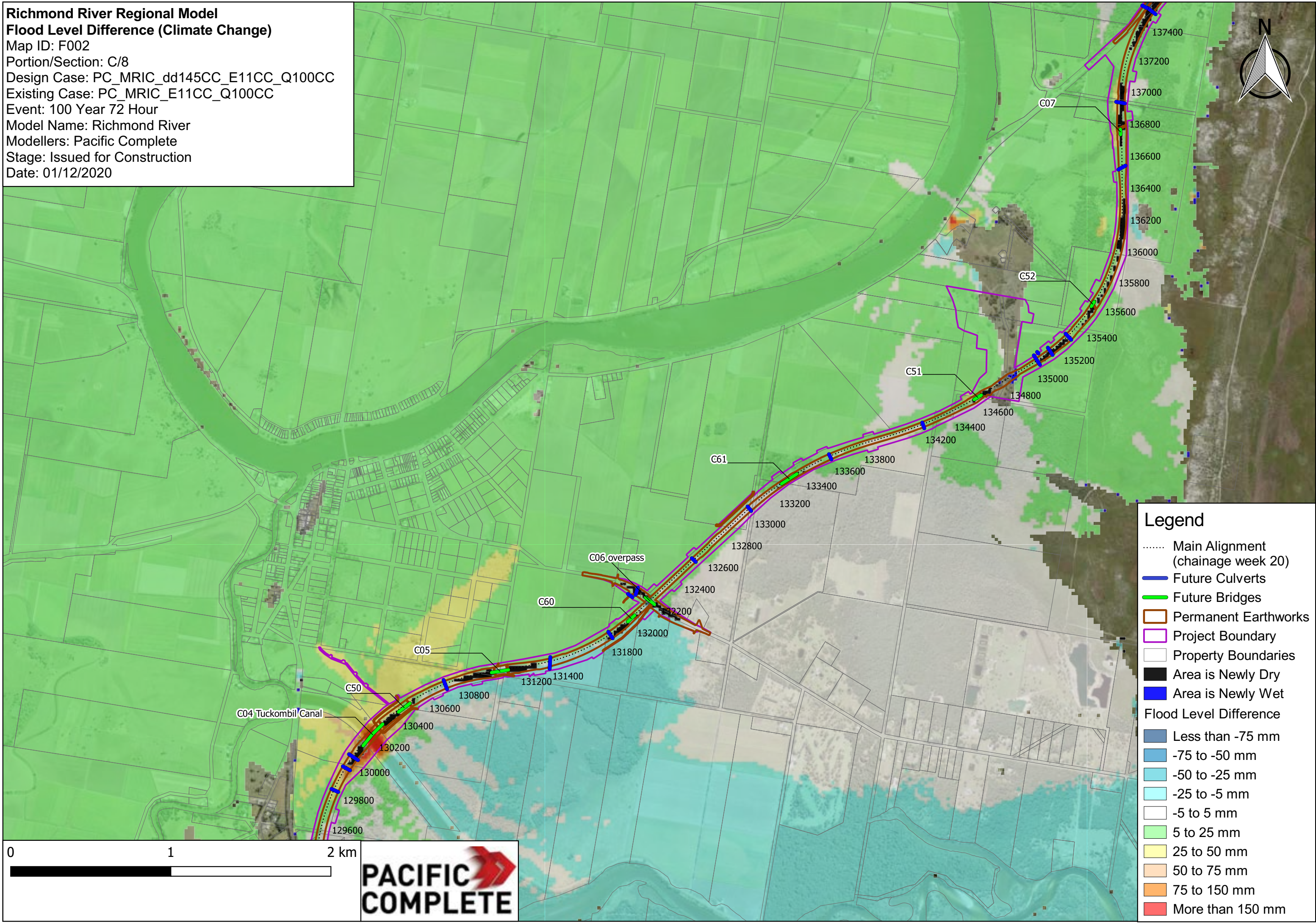
- Main Alignment (chainage week 20)
- Future Culverts
- Future Bridges
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is Newly Dry
- Area is Newly Wet

Flood Level Difference

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



Richmond River Regional Model
Flood Level Difference (Climate Change)
 Map ID: F002
 Portion/Section: C/8
 Design Case: PC_MRIC_dd145CC_E11CC_Q100CC
 Existing Case: PC_MRIC_E11CC_Q100CC
 Event: 100 Year 72 Hour
 Model Name: Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 01/12/2020

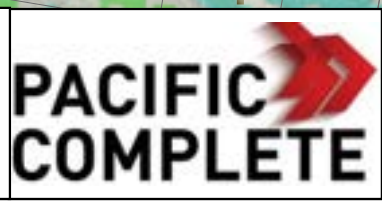
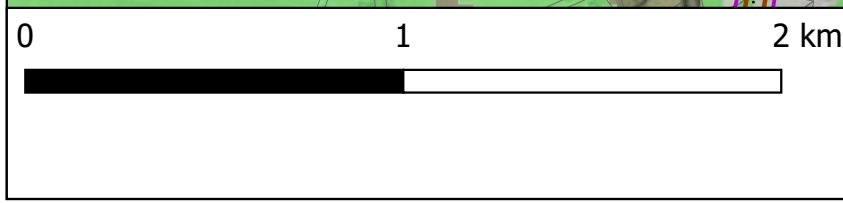


Legend

- Main Alignment (chainage week 20)
- Future Culverts
- Future Bridges
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is Newly Dry
- Area is Newly Wet

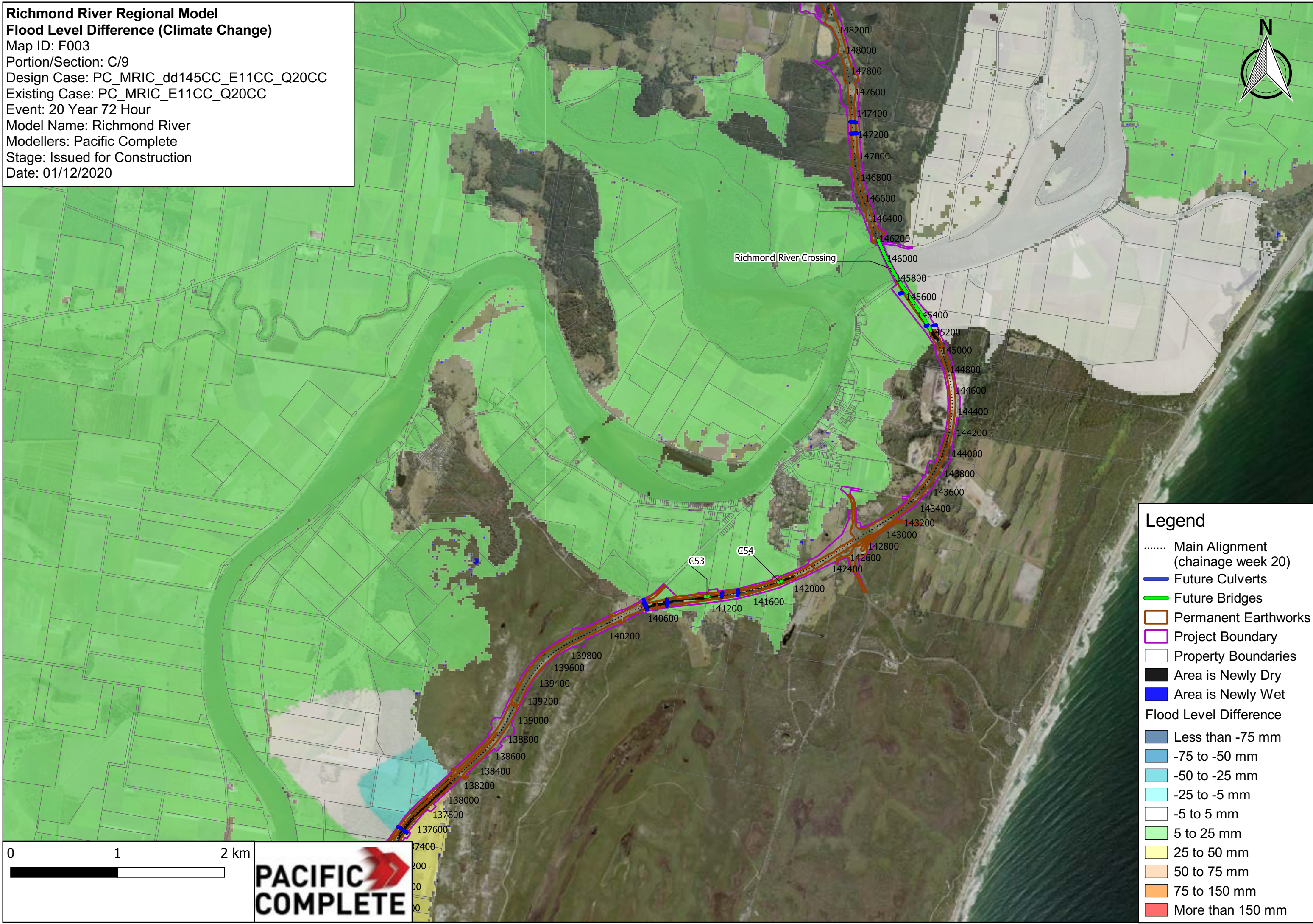
Flood Level Difference

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



**Richmond River Regional Model
Flood Level Difference (Climate Change)**

Map ID: F003
Portion/Section: C/9
Design Case: PC_MRIC_dd145CC_E11CC_Q20CC
Existing Case: PC_MRIC_E11CC_Q20CC
Event: 20 Year 72 Hour
Model Name: Richmond River
Modellers: Pacific Complete
Stage: Issued for Construction
Date: 01/12/2020

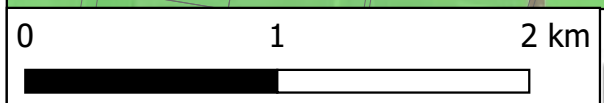


Legend

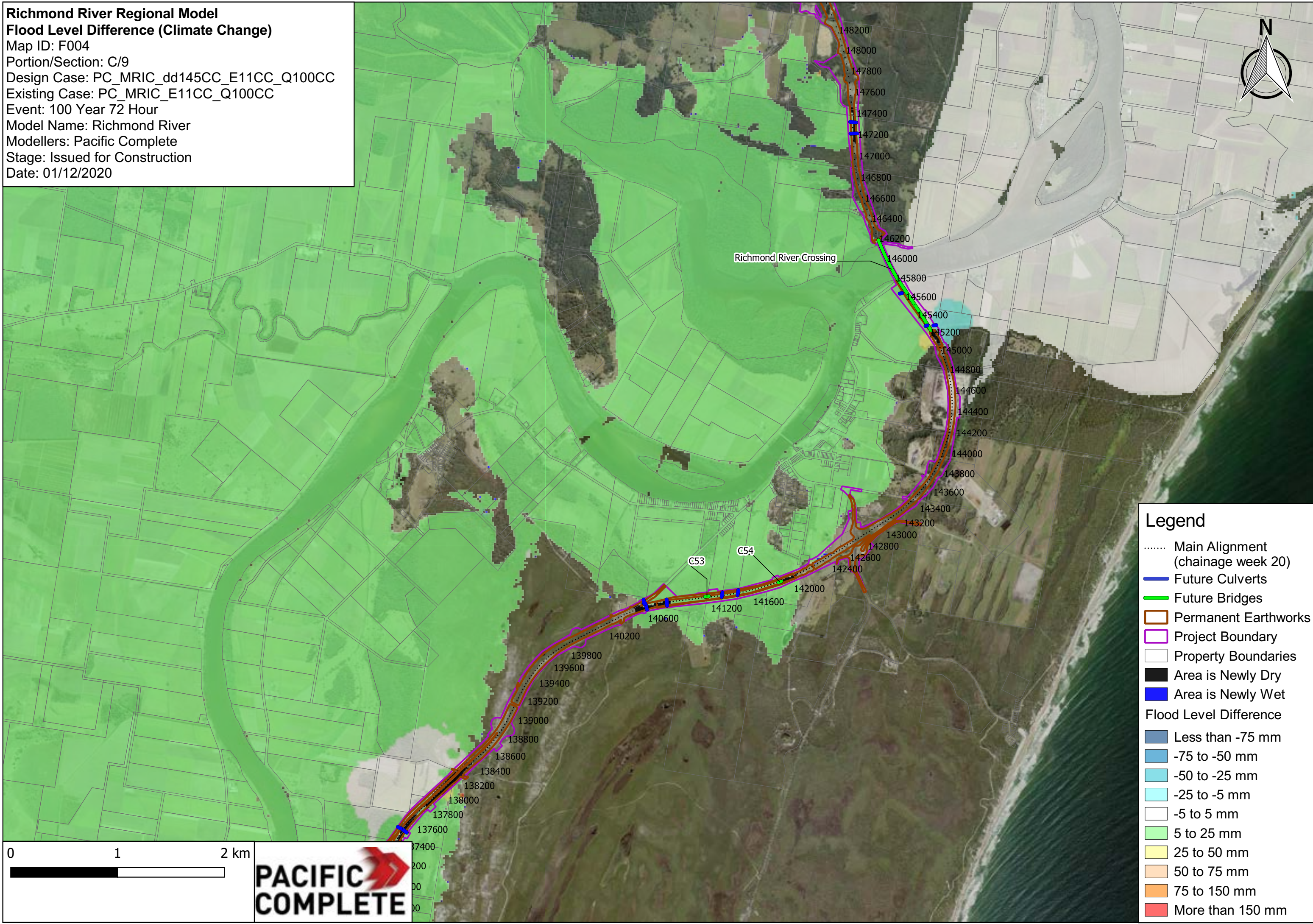
- Main Alignment (chainage week 20)
- Future Culverts
- Future Bridges
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is Newly Dry
- Area is Newly Wet

Flood Level Difference

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



**Richmond River Regional Model
Flood Level Difference (Climate Change)**
 Map ID: F004
 Portion/Section: C/9
 Design Case: PC_MRIC_dd145CC_E11CC_Q100CC
 Existing Case: PC_MRIC_E11CC_Q100CC
 Event: 100 Year 72 Hour
 Model Name: Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 01/12/2020

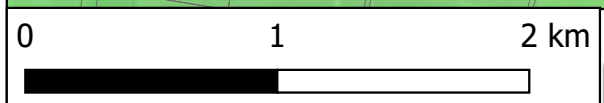


Legend

- Main Alignment (chainage week 20)
- Future Culverts
- Future Bridges
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Area is Newly Dry
- Area is Newly Wet

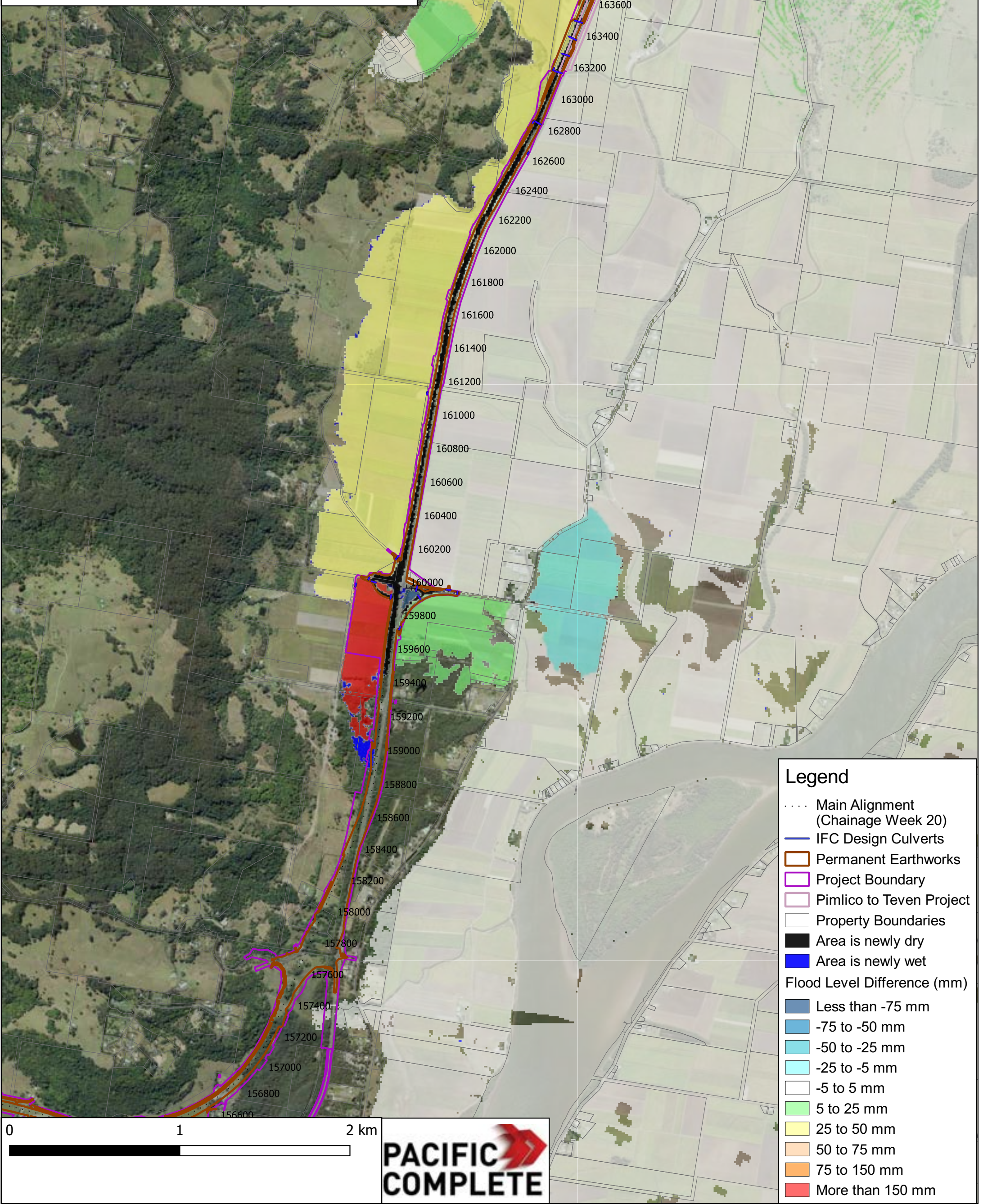
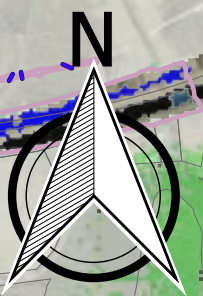
Flood Level Difference

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



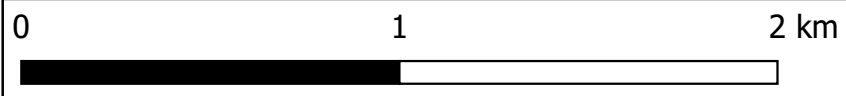
**Lower Richmond River Regional Model
Flood Level Difference (Climate Change)**

Map ID: F005
 Portion/Section: D/11
 Design Case: PC_LRIC_10m_Q20AB_dd064CC_E19CC
 Existing Case: PC_LRIC_10m_Q20AB_E19CC
 Event: 20 year (Composite Result)
 Model Name: Lower Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 18/07/2019



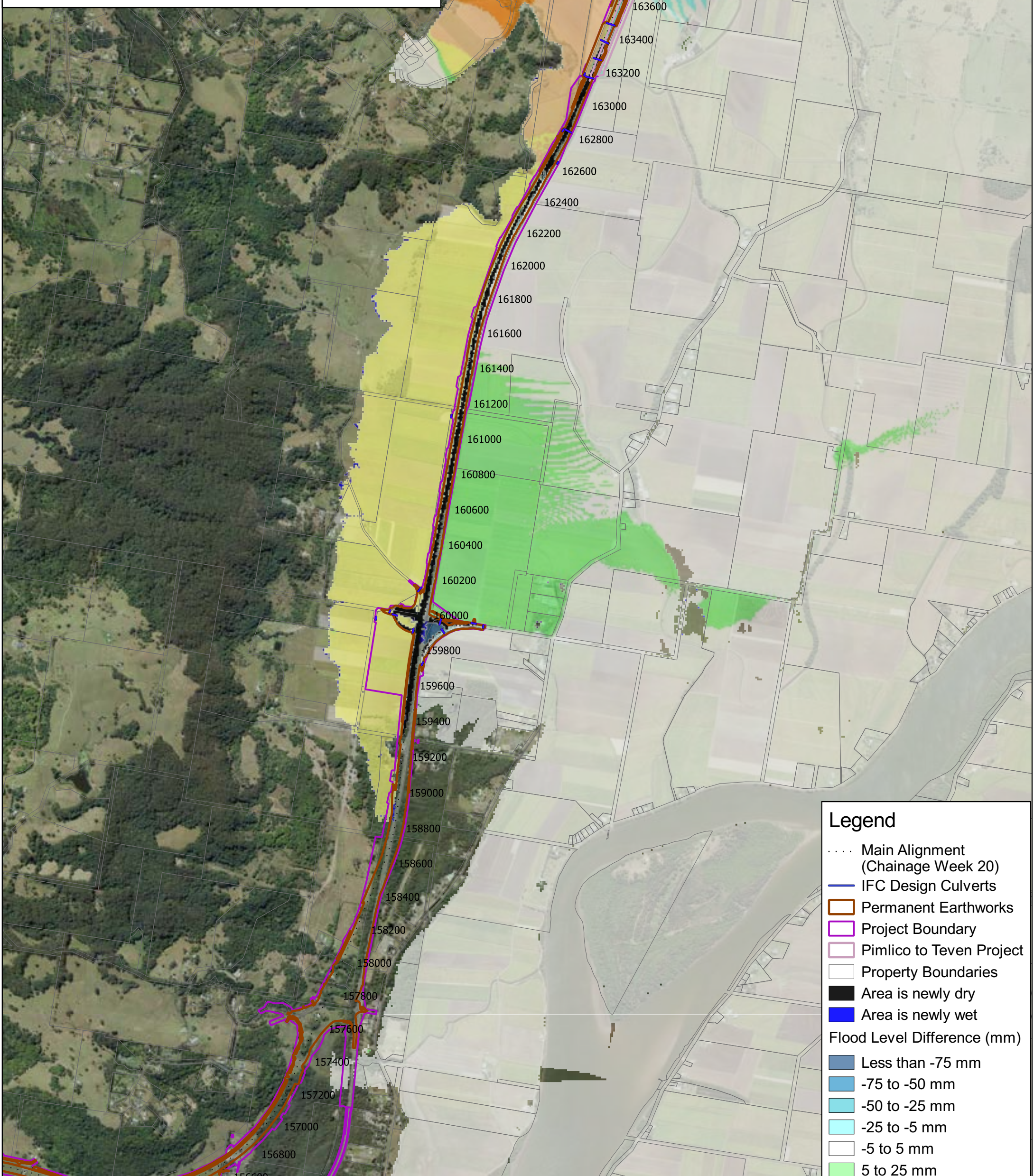
Legend

- Main Alignment (Chainage Week 20)
 - IFC Design Culverts
 - Permanent Earthworks
 - Project Boundary
 - Pimlico to Teven Project
 - Property Boundaries
 - Area is newly dry
 - Area is newly wet
- Flood Level Difference (mm)**
- Less than -75 mm
 - 75 to -50 mm
 - 50 to -25 mm
 - 25 to -5 mm
 - 5 to 5 mm
 - 5 to 25 mm
 - 25 to 50 mm
 - 50 to 75 mm
 - 75 to 150 mm
 - More than 150 mm



**Lower Richmond River Regional Model
Flood Level Difference (Climate Change)**

Map ID: F006
Portion/Section: D/11
Design Case: PC_LRIC_10m_Q100AB_dd064CC_E19CC
Existing Case: PC_LRIC_10m_Q100AB_E19CC
Event: 100 year (Composite Result)
Model Name: Lower Richmond River
Modellers: Pacific Complete
Stage: Issued for Construction
Date: 18/07/2019



Legend

- Main Alignment (Chainage Week 20)
- IFC Design Culverts
- Permanent Earthworks
- Project Boundary
- Pimlico to Teven Project
- Property Boundaries
- Area is newly dry
- Area is newly wet

Flood Level Difference (mm)

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



Richmond River Regional Model
Existing Flood Depth (PMF)
 Map ID: F007
 Portion/Section: C/8
 Existing Case: PC_MRIC_EXG_PMF_E11PMF
 Event: Probable Maximum Flood
 Model Name: Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 18/07/2019

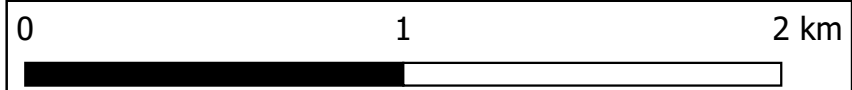


Legend

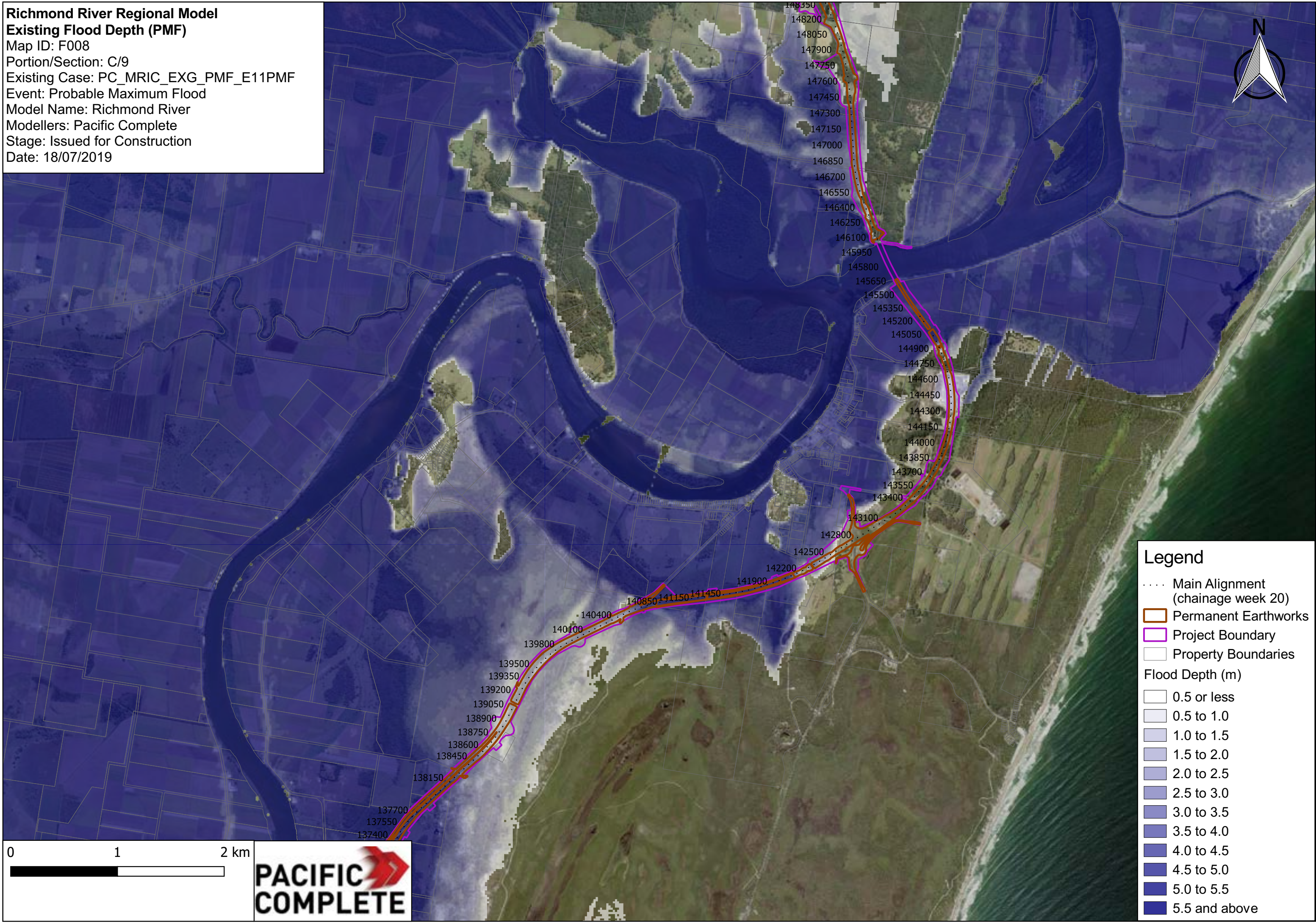
- Main Alignment (chainage week 20)
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Depth (m)

- 0.5 or less
- 0.5 to 1.0
- 1.0 to 1.5
- 1.5 to 2.0
- 2.0 to 2.5
- 2.5 to 3.0
- 3.0 to 3.5
- 3.5 to 4.0
- 4.0 to 4.5
- 4.5 to 5.0
- 5.0 to 5.5
- 5.5 and above



Richmond River Regional Model
Existing Flood Depth (PMF)
 Map ID: F008
 Portion/Section: C/9
 Existing Case: PC_MRIC_EXG_PMF_E11PMF
 Event: Probable Maximum Flood
 Model Name: Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 18/07/2019

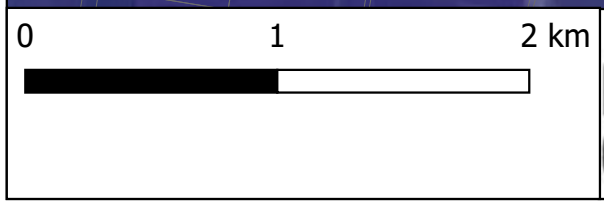


Legend

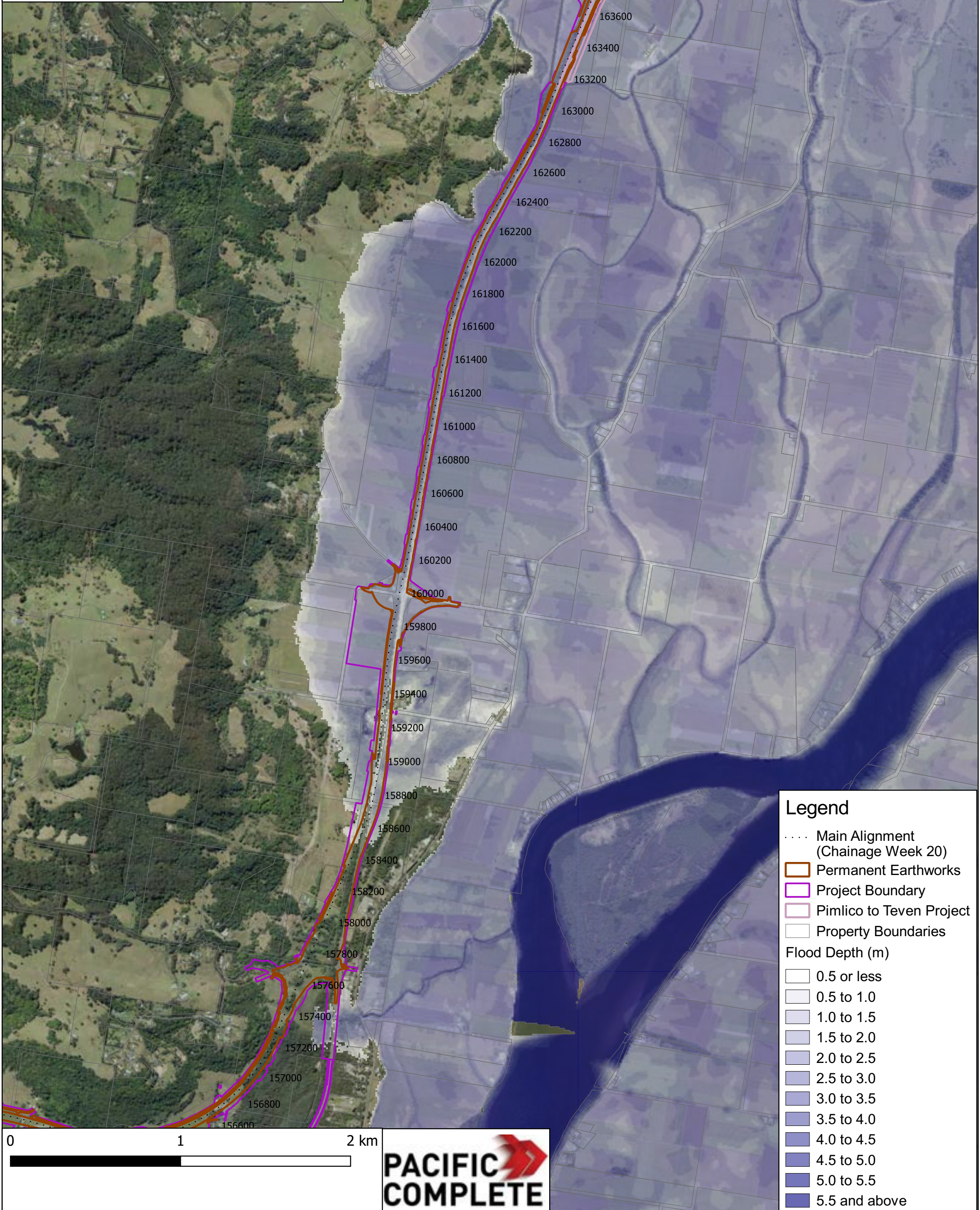
- Main Alignment (chainage week 20)
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Depth (m)

- 0.5 or less
- 0.5 to 1.0
- 1.0 to 1.5
- 1.5 to 2.0
- 2.0 to 2.5
- 2.5 to 3.0
- 3.0 to 3.5
- 3.5 to 4.0
- 4.0 to 4.5
- 4.5 to 5.0
- 5.0 to 5.5
- 5.5 and above



**Lower Richmond River Regional Model
Existing Flood Depth (PMF)**
 Map ID: F009
 Portion/Section: D/11
 Existing Case: PC_LRIC_EXG_PMF_E19PMF
 Event: Probable Maximum Flood
 Model Name: Lower Richmond River
 Modellers: Pacific Complete
 Stage: Issued for Construction
 Date: 18/07/2019



Legend

- Main Alignment (Chainage Week 20)
 - Permanent Earthworks
 - Project Boundary
 - Pimlico to Teven Project
 - Property Boundaries
- Flood Depth (m)
- 0.5 or less
 - 0.5 to 1.0
 - 1.0 to 1.5
 - 1.5 to 2.0
 - 2.0 to 2.5
 - 2.5 to 3.0
 - 3.0 to 3.5
 - 3.5 to 4.0
 - 4.0 to 4.5
 - 4.5 to 5.0
 - 5.0 to 5.5
 - 5.5 and above

