

TECHNICAL PAPER

04

Hydrology and flooding impact assessment

Appendix A Existing conditions flood maps

Appendix A2 Velocity maps

NARRABRI TO NORTH STAR—PHASE 2 ENVIRONMENTAL IMPACT STATEMENT



Appendix A – Existing conditions flood maps

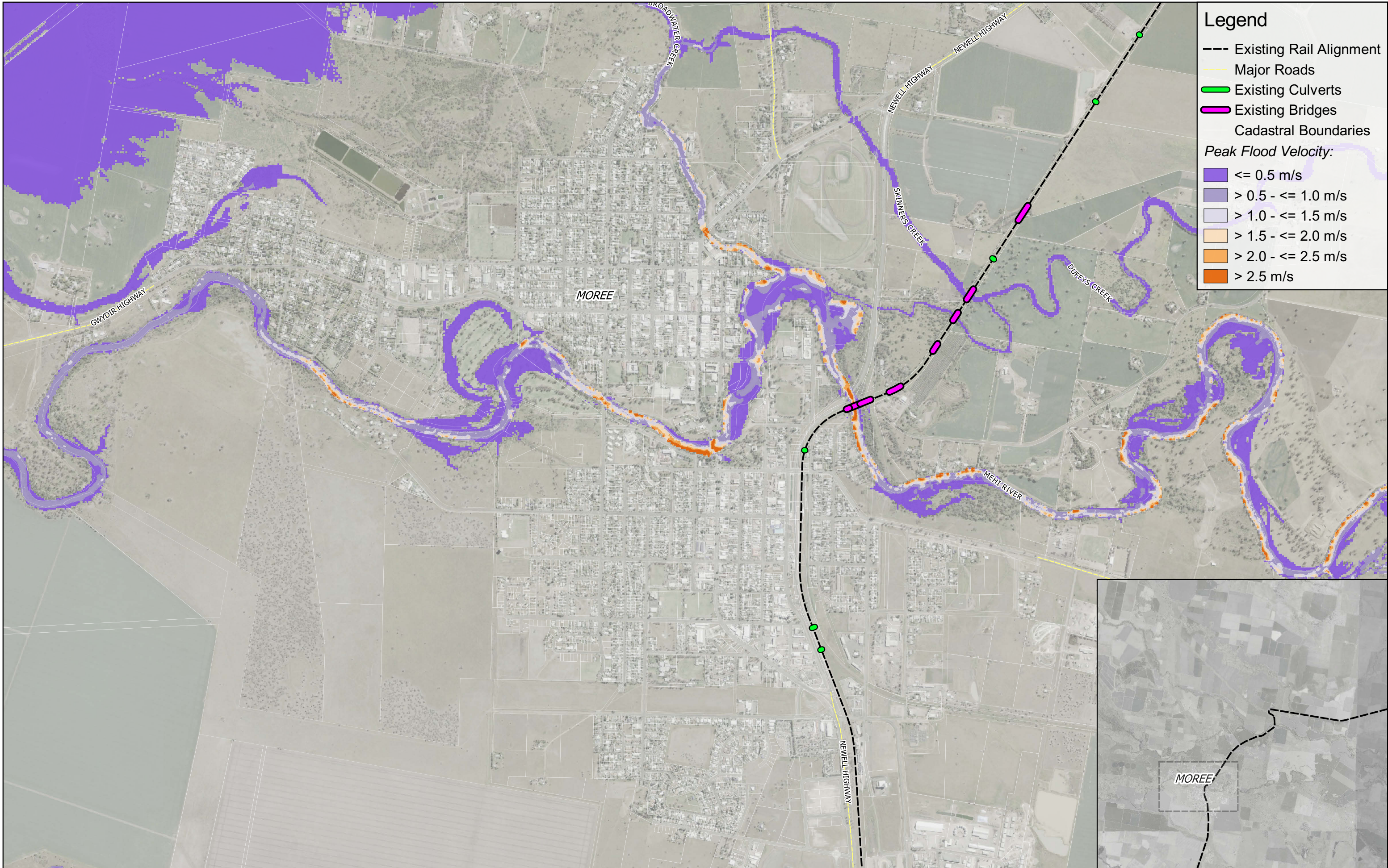
Map list

MAP SET ID	MAP CONTENTS
EX_DEP_020	Flood Depth and Level – Existing Conditions, 20% AEP Event
EX_DEP_010	Flood Depth and Level – Existing Conditions, 10% AEP Event
EX_DEP_005	Flood Depth and Level – Existing Conditions, 5% AEP Event
EX_DEP_002	Flood Depth and Level – Existing Conditions, 2% AEP Event
EX_DEP_001	Flood Depth and Level – Existing Conditions, 1% AEP Event
EX_DEP_001CC	Flood Depth and Level – Existing Conditions, 1% AEP Event with Climate Change
EX_DEP_PMF	Flood Depth and Level – Existing Conditions, PMF Event
EX_VEL_020	Flood Velocity – Existing Conditions, 20% AEP Event
EX_VEL_010	Flood Velocity – Existing Conditions, 10% AEP Event
EX_VEL_005	Flood Velocity – Existing Conditions, 5% AEP Event
EX_VEL_002	Flood Velocity – Existing Conditions, 2% AEP Event
EX_VEL_001	Flood Velocity – Existing Conditions, 1% AEP Event
EX_VEL_001CC	Flood Velocity – Existing Conditions, 1% AEP Event with Climate Change
EX_VEL_PMF	Flood Velocity – Existing Conditions, PMF Event
EX_DUR_020	Flood Duration – Existing Conditions, 20% AEP Event
EX_DUR_010	Flood Duration – Existing Conditions, 10% AEP Event
EX_DUR_005	Flood Duration – Existing Conditions, 5% AEP Event
EX_DUR_002	Flood Duration – Existing Conditions, 2% AEP Event
EX_DUR_001	Flood Duration – Existing Conditions, 1% AEP Event
EX_DUR_001CC	Flood Duration – Existing Conditions, 1% AEP Event with Climate Change
EX_DUR_PMF	Flood Duration – Existing Conditions, PMF Event
EX_HAZ_020	Flood Hazard Category – Existing Conditions, 20% AEP Event
EX_HAZ_010	Flood Hazard Category – Existing Conditions, 10% AEP Event
EX_HAZ_005	Flood Hazard Category – Existing Conditions, 5% AEP Event
EX_HAZ_002	Flood Hazard Category – Existing Conditions, 2% AEP Event
EX_HAZ_001	Flood Hazard Category – Existing Conditions, 1% AEP Event
EX_HAZ_001CC	Flood Hazard Category – Existing Conditions, 1% AEP Event with Climate Change
EX_HAZ_PMF	Flood Hazard Category – Existing Conditions, PMF Event

A.2 Velocity

Map list

MAP SET ID	MAP CONTENTS
EX_VEL_020	Flood Velocity – Existing Conditions, 20% AEP Event
EX_VEL_010	Flood Velocity – Existing Conditions, 10% AEP Event
EX_VEL_005	Flood Velocity – Existing Conditions, 5% AEP Event
EX_VEL_002	Flood Velocity – Existing Conditions, 2% AEP Event
EX_VEL_001	Flood Velocity – Existing Conditions, 1% AEP Event
EX_VEL_001CC	Flood Velocity – Existing Conditions, 1% AEP Event with Climate Change
EX_VEL_PMF	Flood Velocity – Existing Conditions, PMF Event

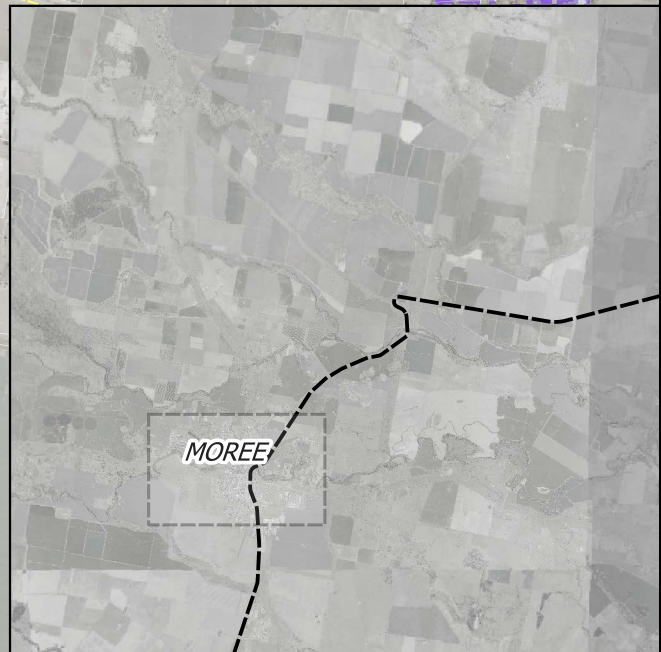


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

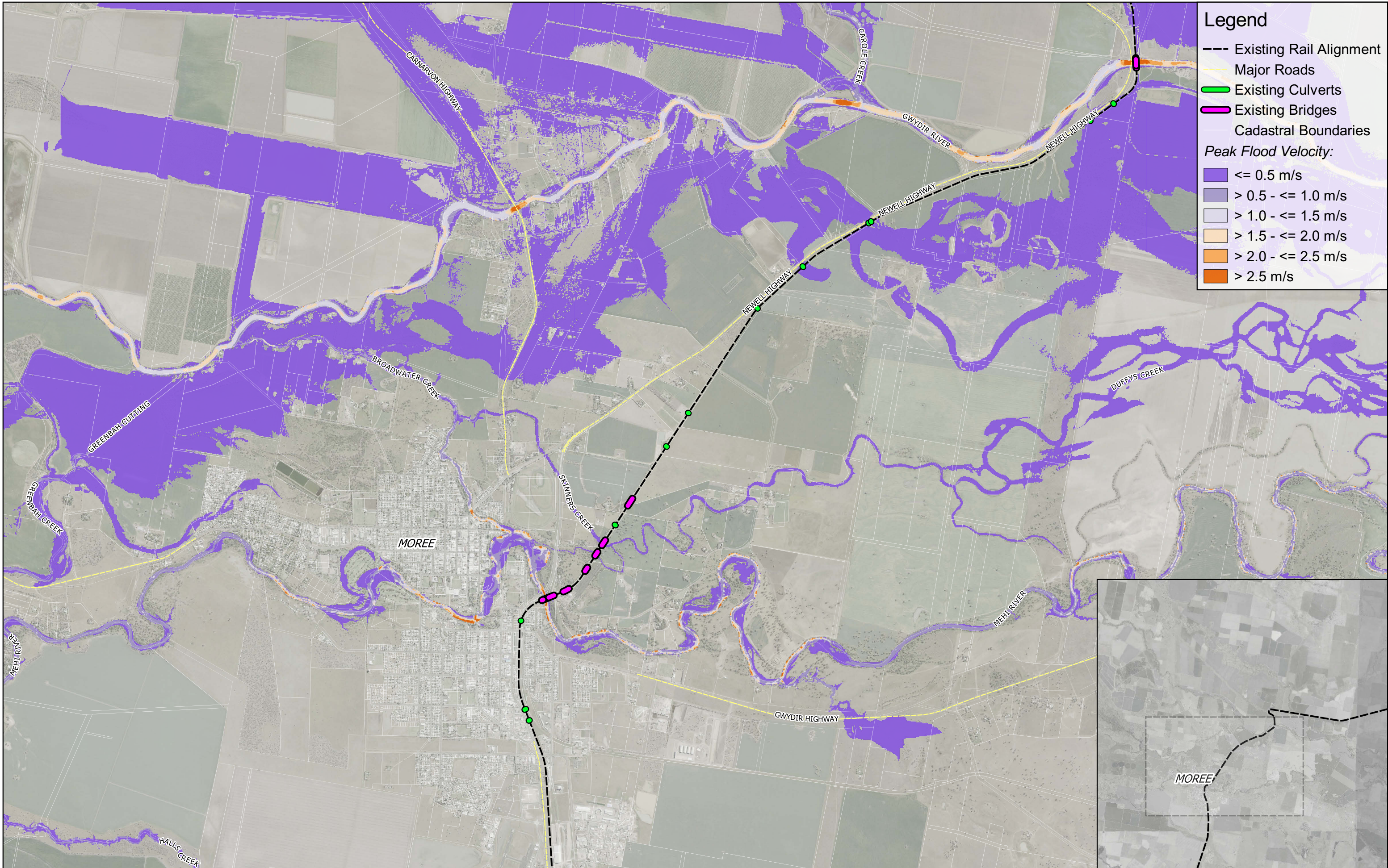
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Scale: 1:20000

wsp **M**
MOTT **M**
MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 21/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 20% AEP
 Sheet 1
 Map ID: EX_VEL_020_1

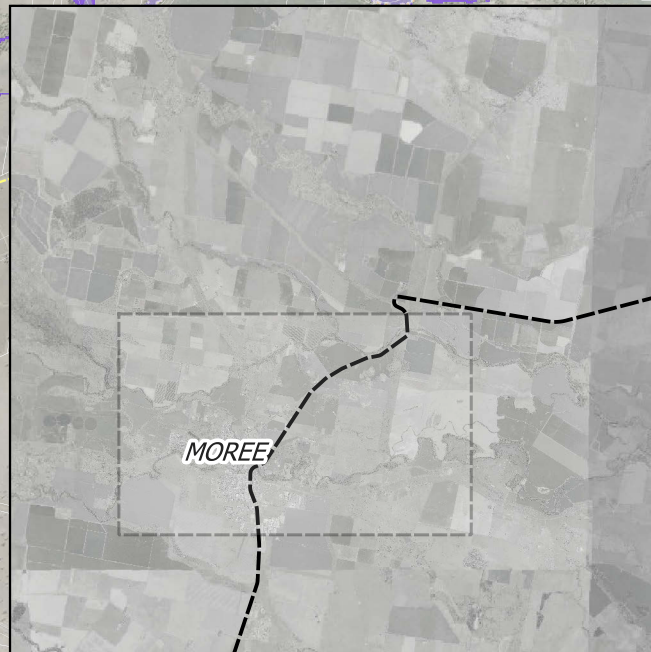


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s



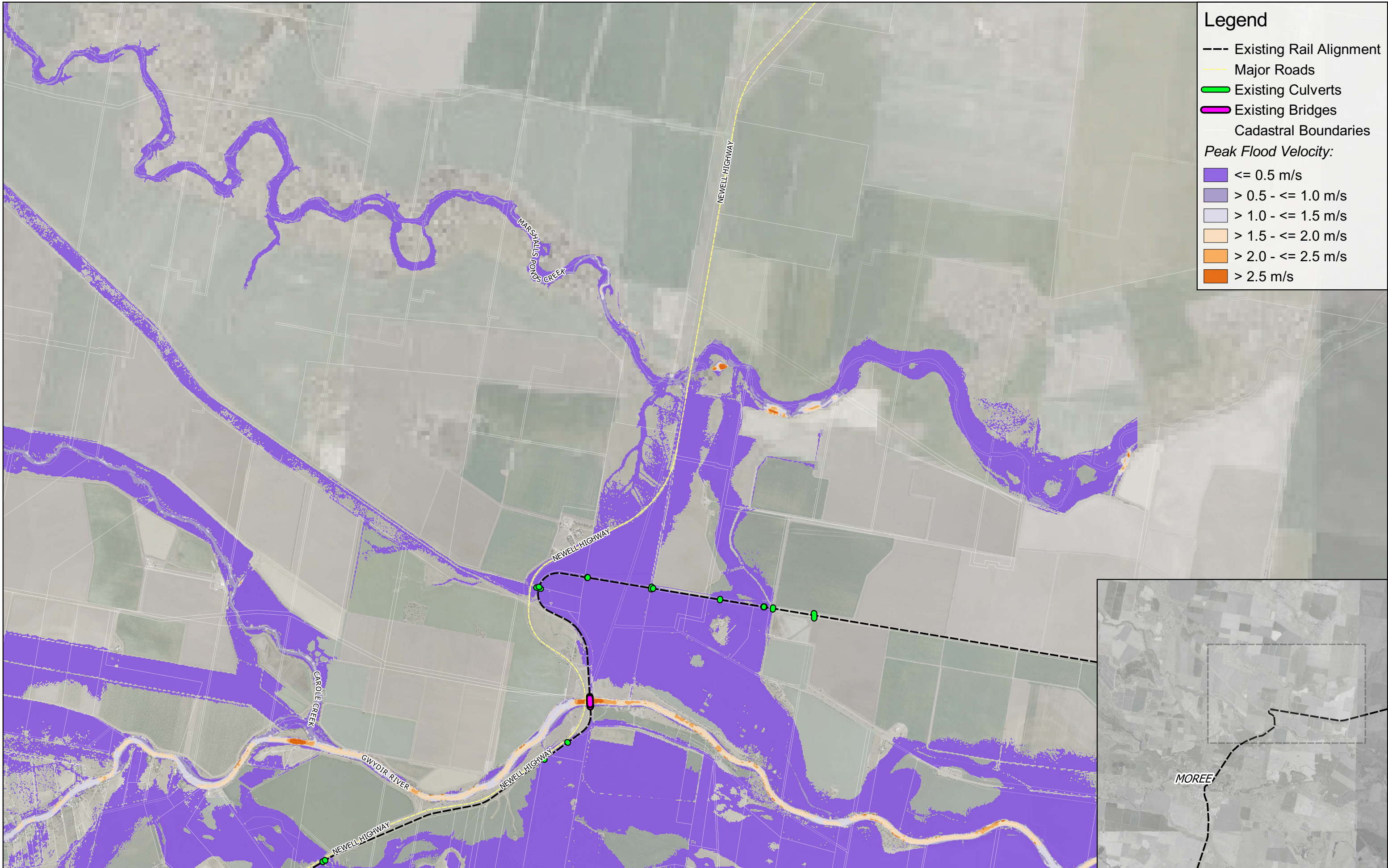
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 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

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Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 21/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 20% AEP
 Sheet 2
 Map ID: EX_VEL_020_2

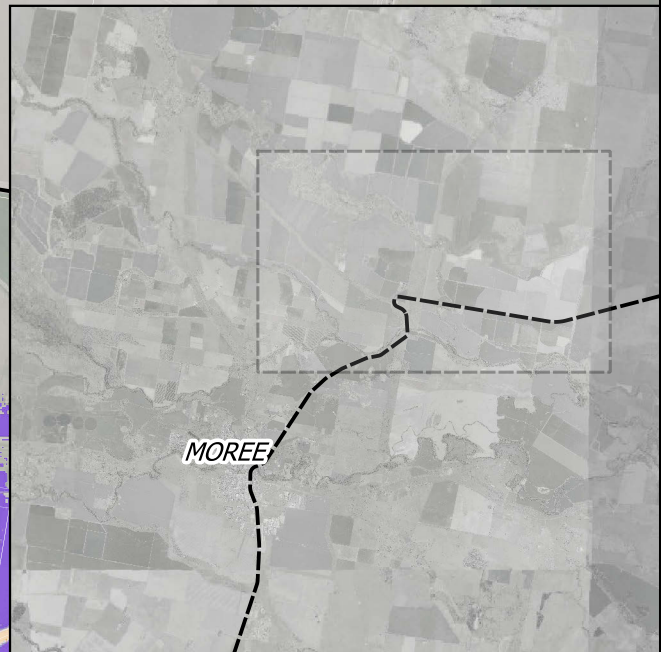


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s



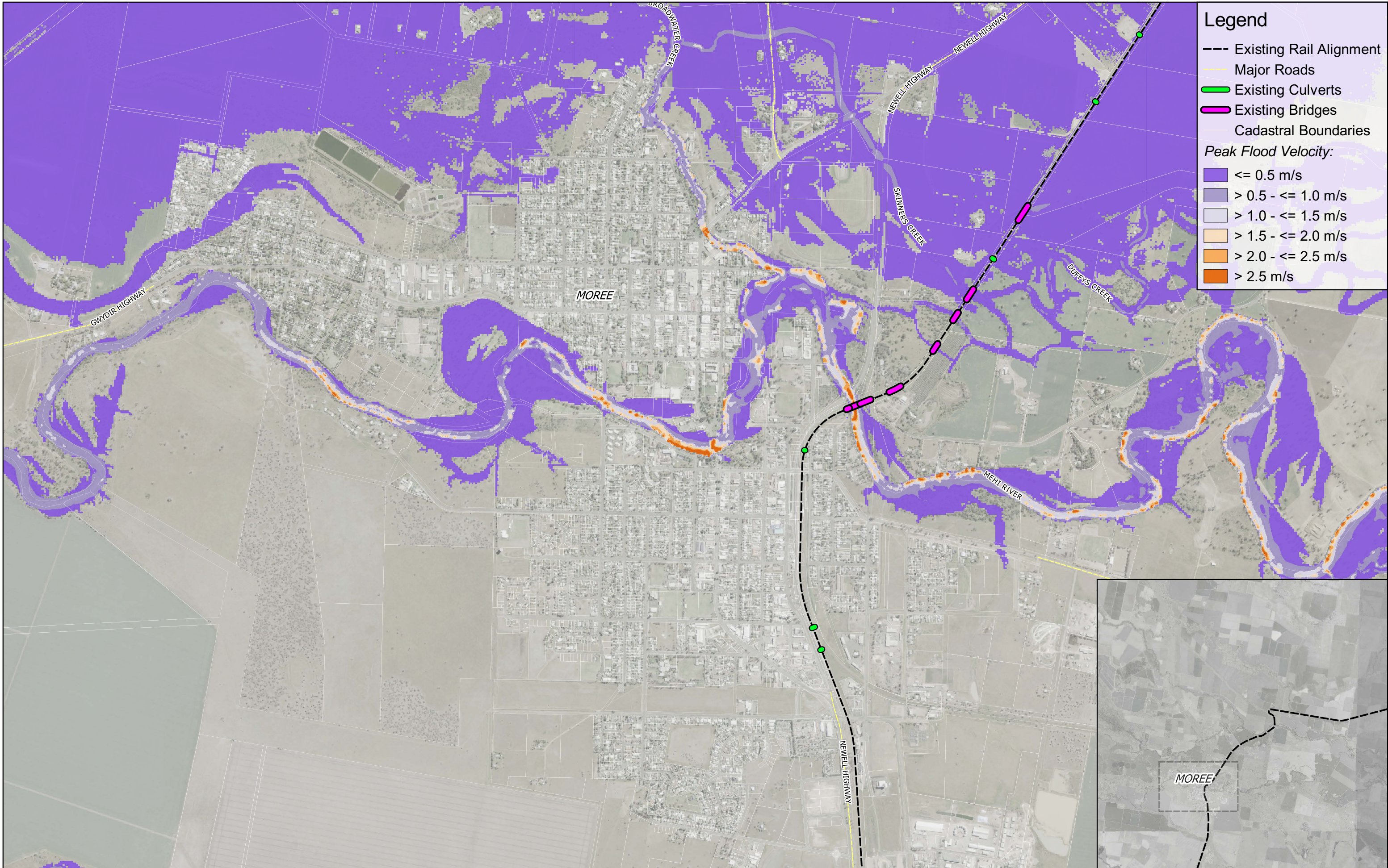
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 Scale ratio correct when printed at A3

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Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 21/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: 20% AEP
 Sheet 3
 Map ID: EX_VEL_020_3



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s

Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

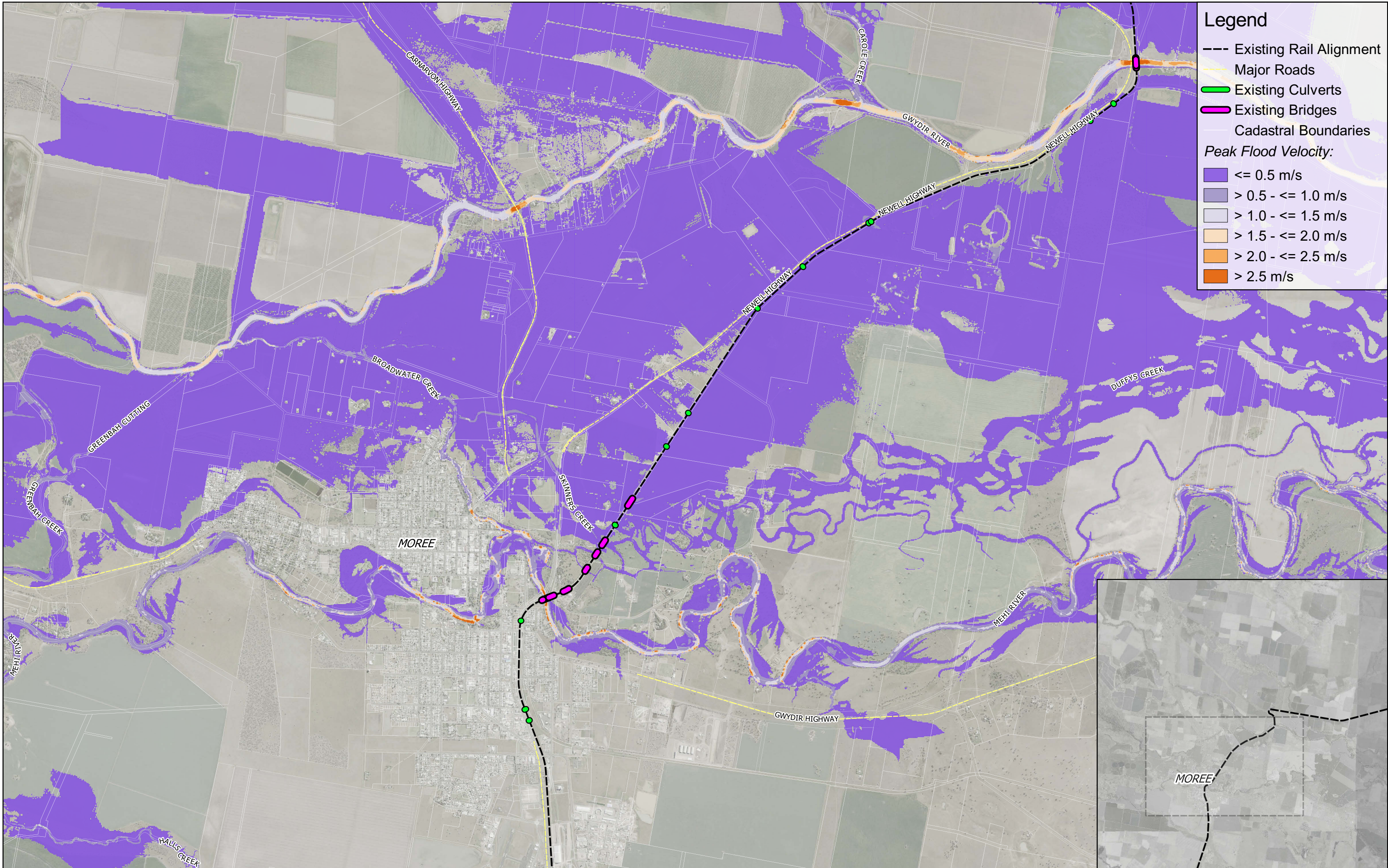
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Scale: 1:20000

wsp **M**
MOTT **M**
MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 21/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: 10% AEP
 Sheet 1
 Map ID: EX_VEL_010_1



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s

Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

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Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 21/03/2022

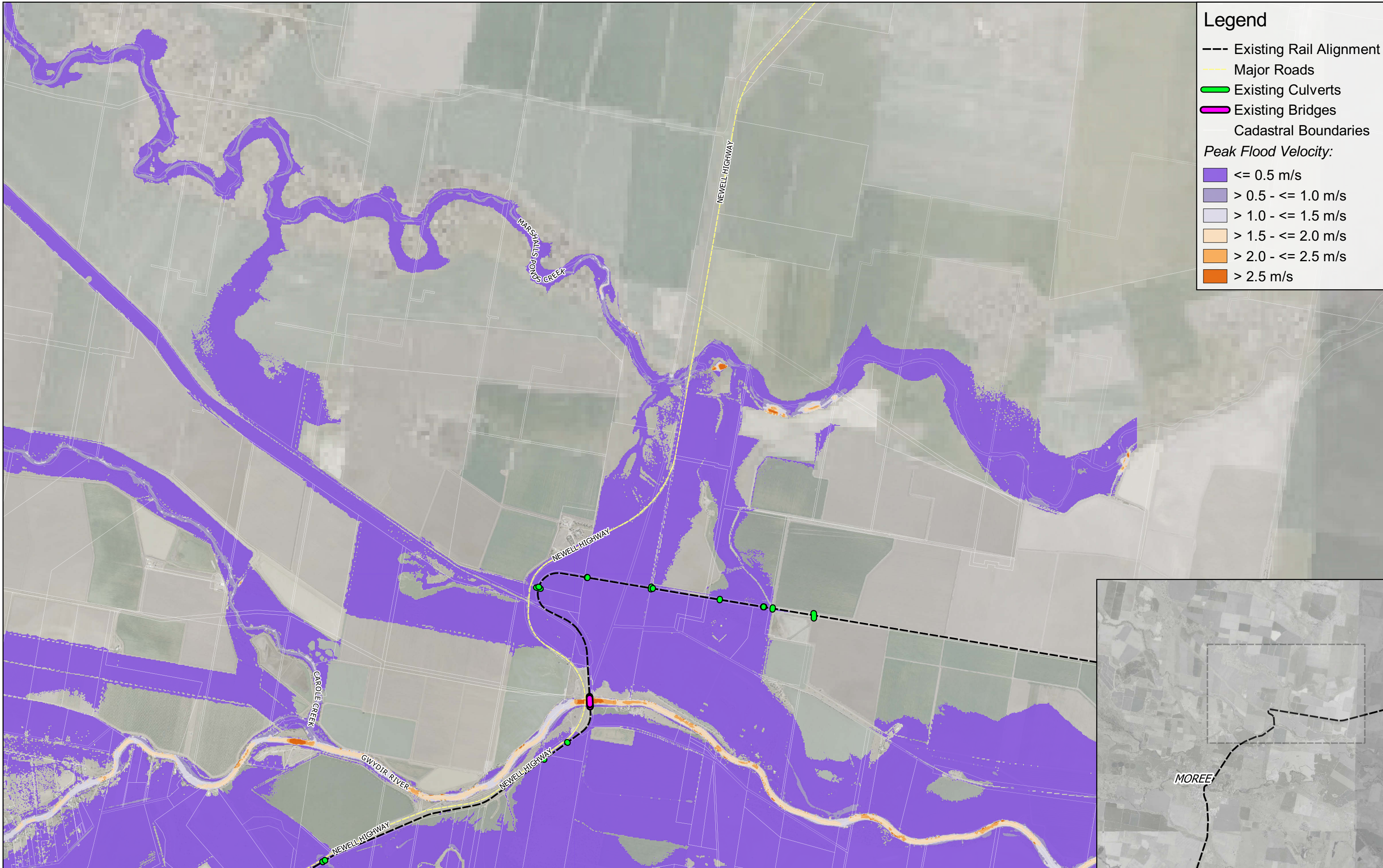
Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 10% AEP
 Sheet 2
 Map ID: EX_VEL_010_2

Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

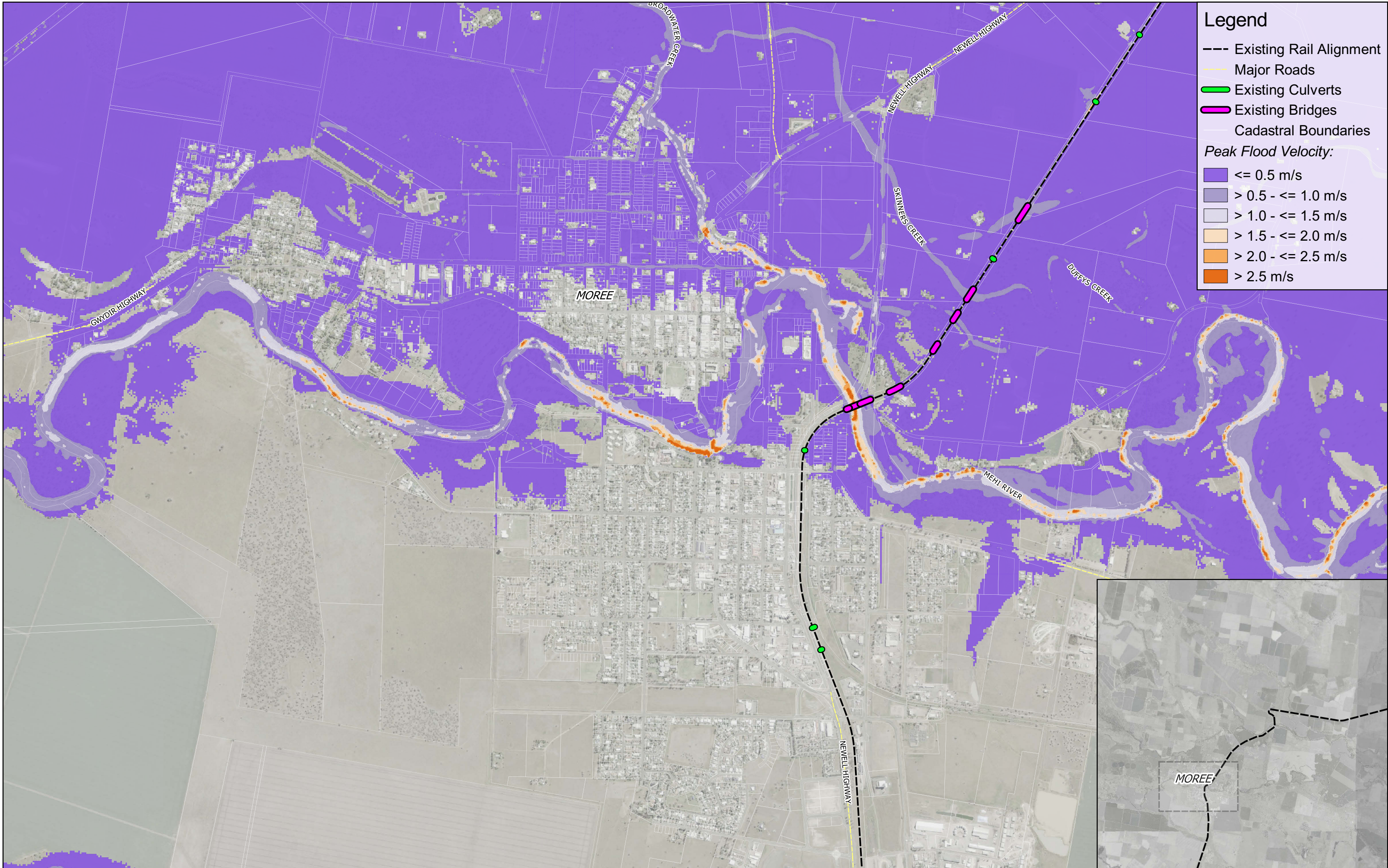
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Scale: 1:40000

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Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 21/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: 10% AEP
 Sheet 3
 Map ID: EX_VEL_010_3



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s

Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

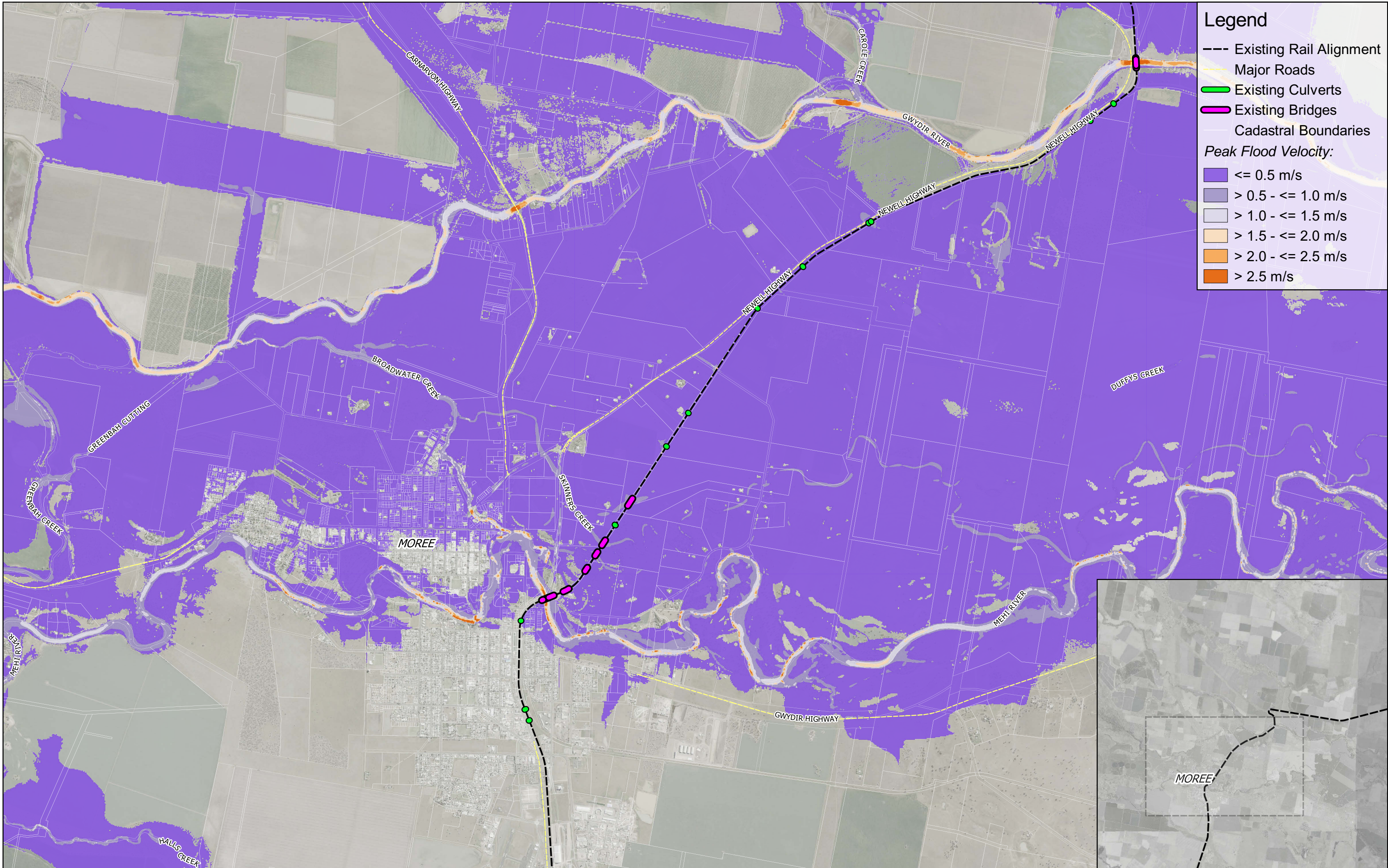
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Scale: 1:20000

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MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 5% AEP
 Sheet 1
 Map ID: EX_VEL_005_1

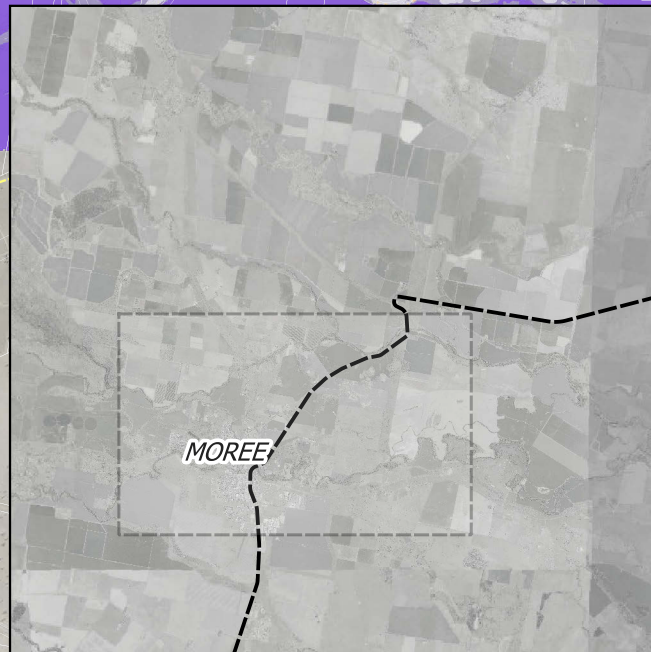


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

0 500 1000 1500 2000 m

Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

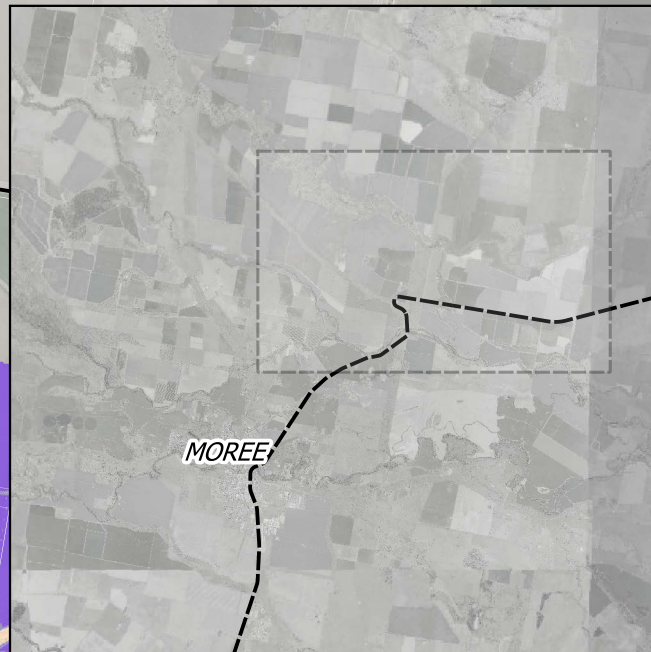
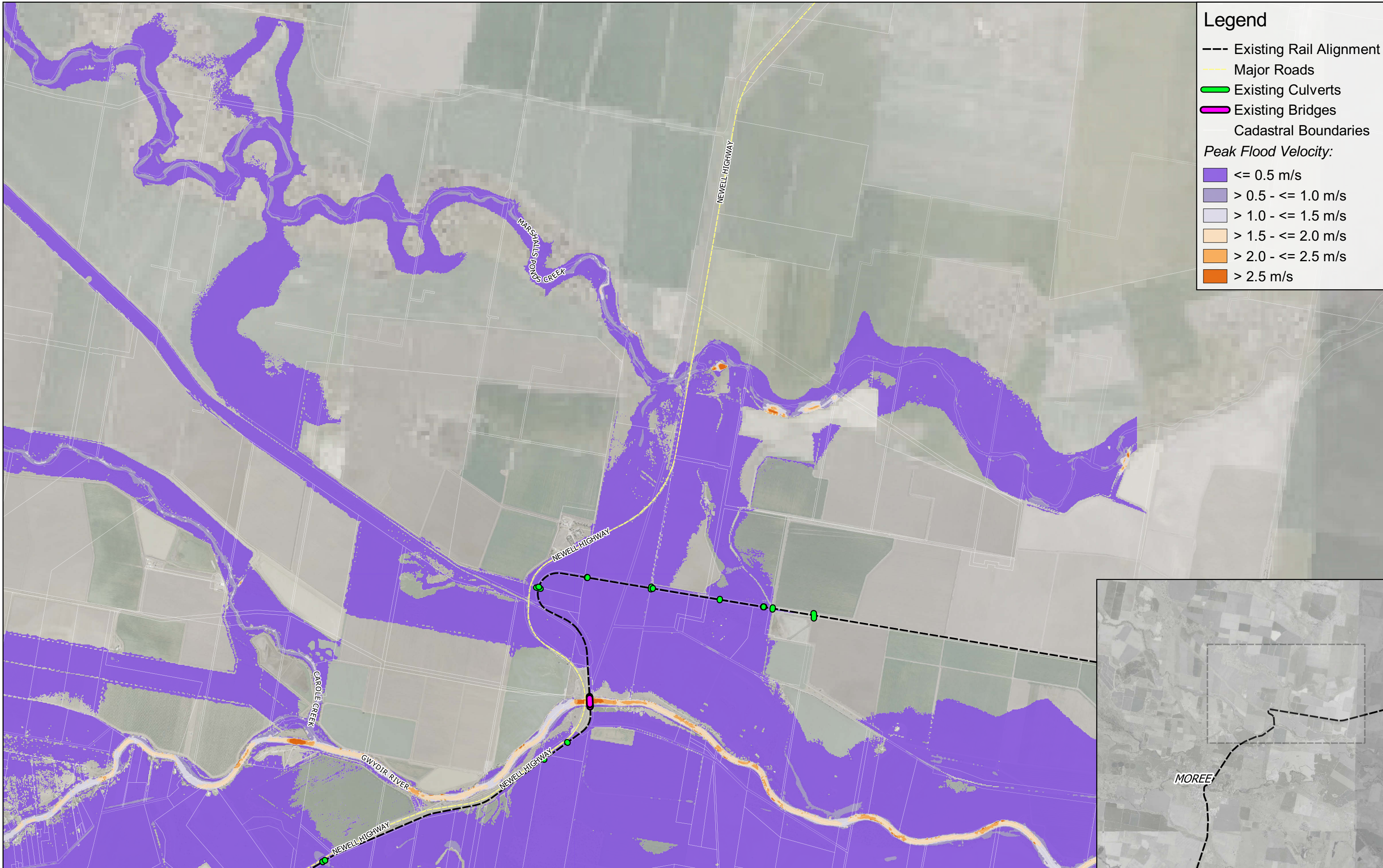
Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 5% AEP
 Sheet 2
 Map ID: EX_VEL_005_2

Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

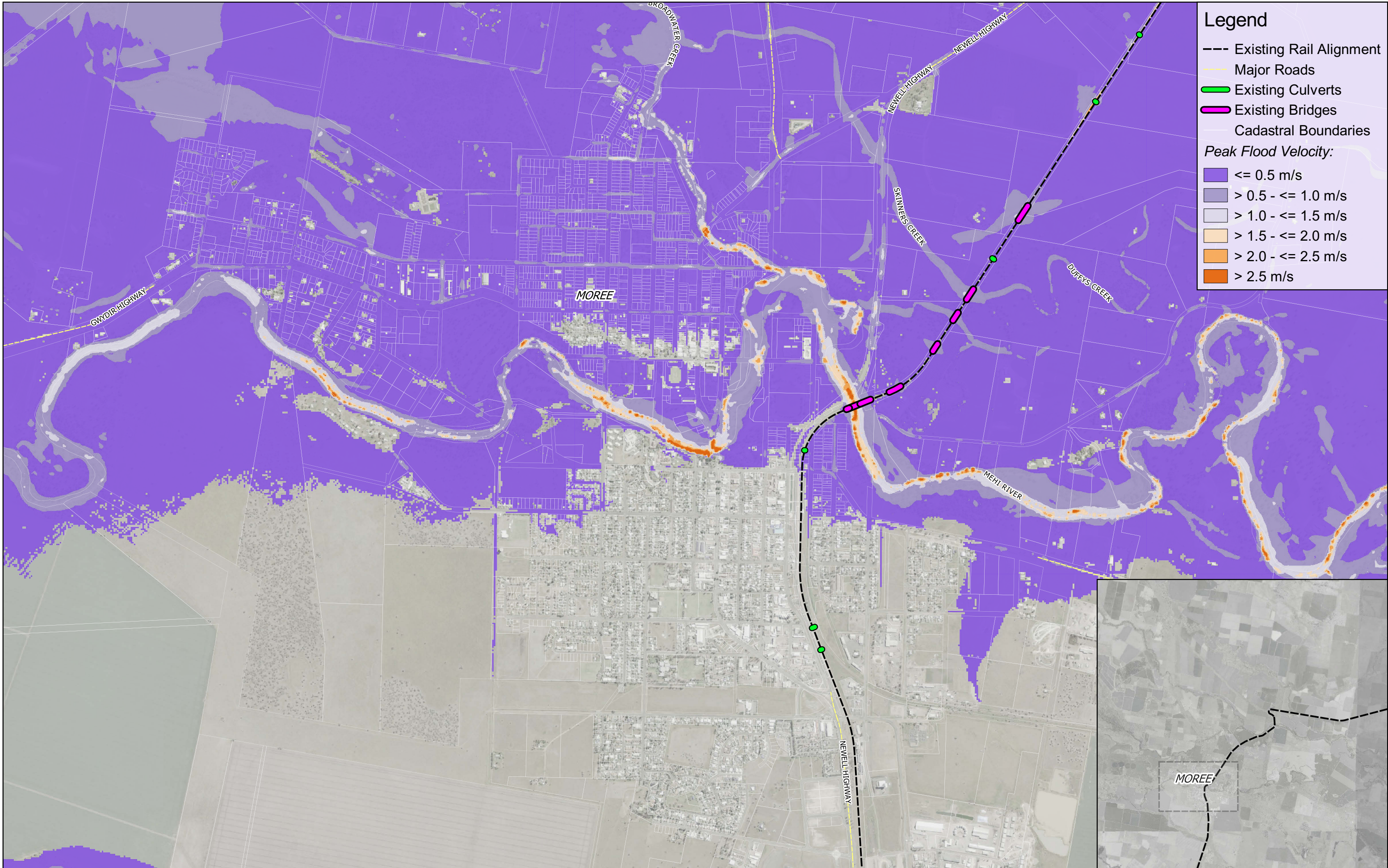
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Scale: 1:40000

wsp **M**
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MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 5% AEP
 Sheet 3
 Map ID: EX_VEL_005_3



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s

Prepared for: ARTC
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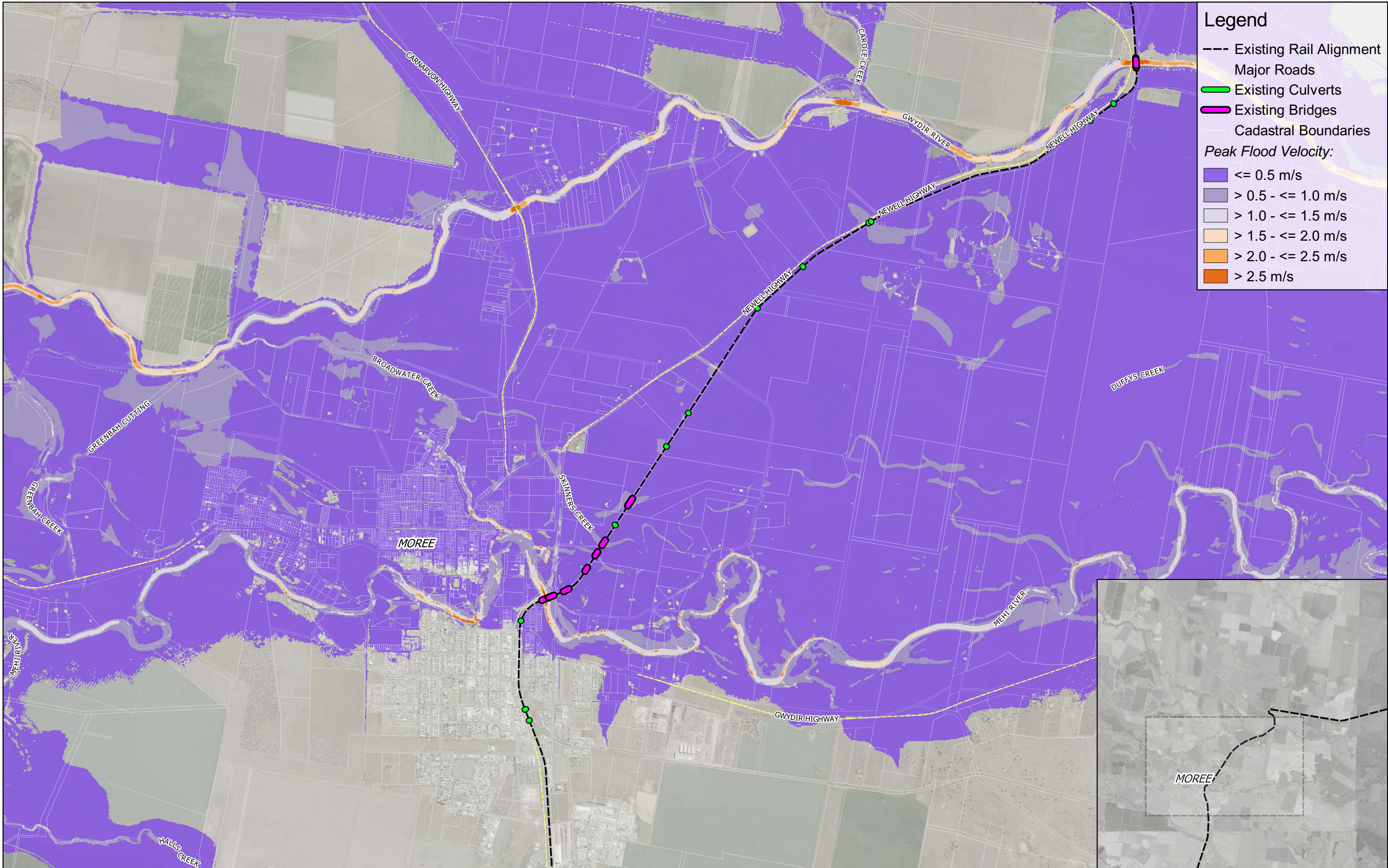
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MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: 2% AEP
 Sheet 1
 Map ID: EX_VEL_002_1



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s

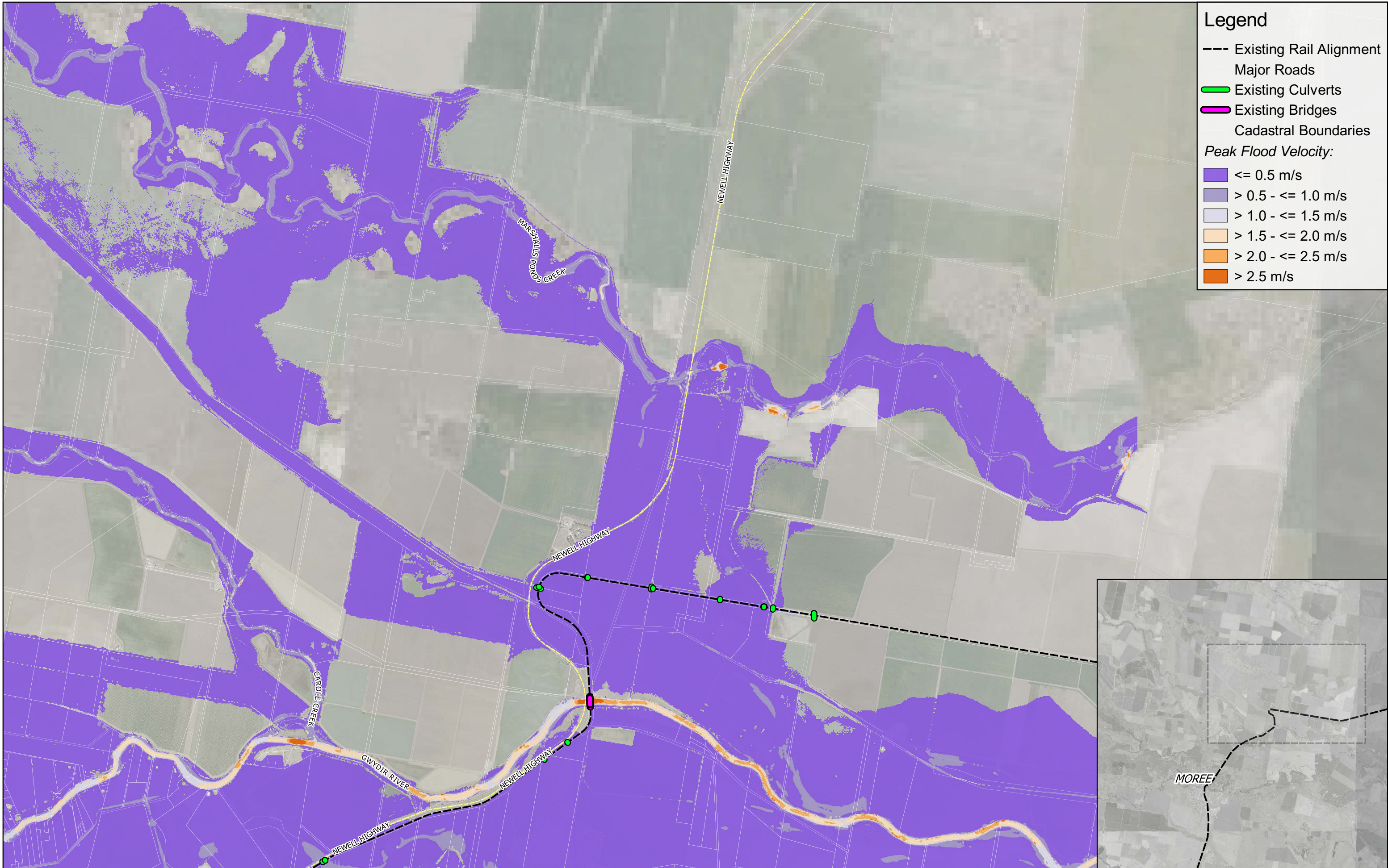
Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

0 500 1000 1500 2000 m

Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 2% AEP
 Sheet 2
 Map ID: EX_VEL_002_2

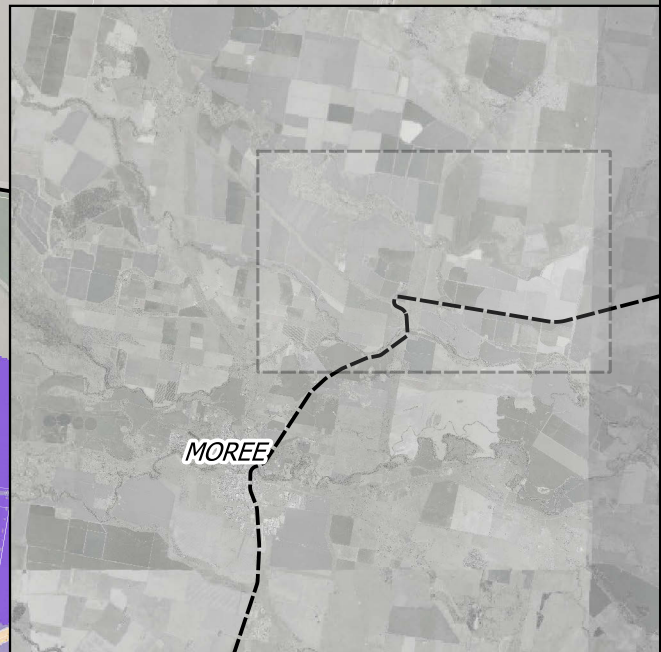


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- █ Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- $\le 0.5\text{ m/s}$
- $> 0.5 - \le 1.0\text{ m/s}$
- $> 1.0 - \le 1.5\text{ m/s}$
- $> 1.5 - \le 2.0\text{ m/s}$
- $> 2.0 - \le 2.5\text{ m/s}$
- $> 2.5\text{ m/s}$



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
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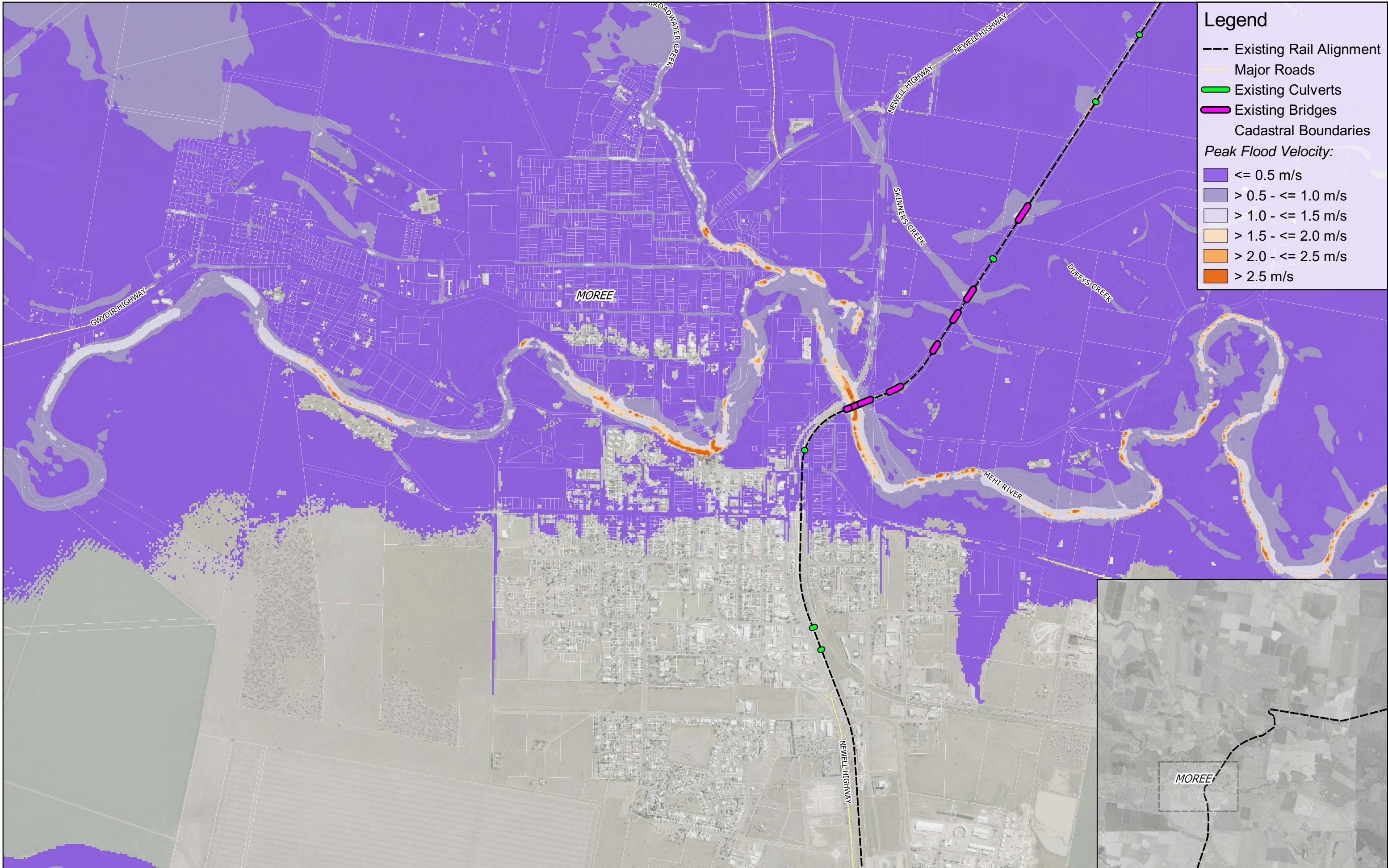
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Scale: 1:40000

wsp **M** **M**
MOTT **MACDONALD**

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: 2% AEP
 Sheet 3
 Map ID: EX_VEL_002_3

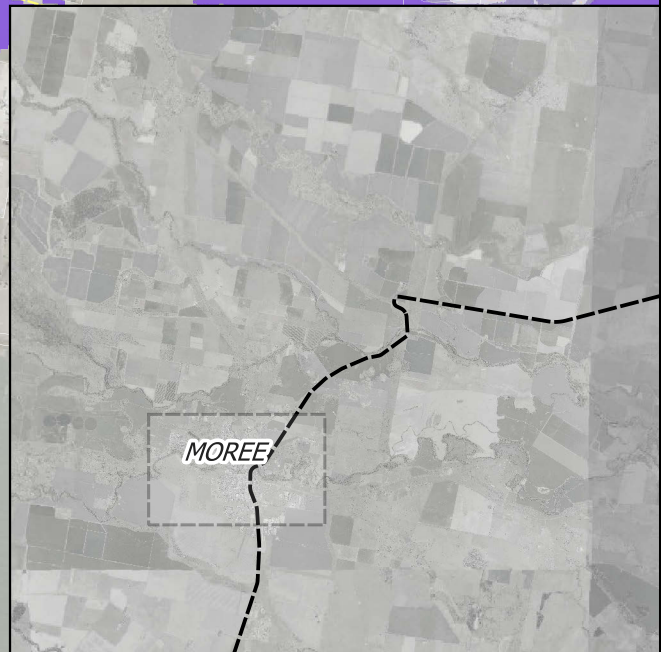


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s



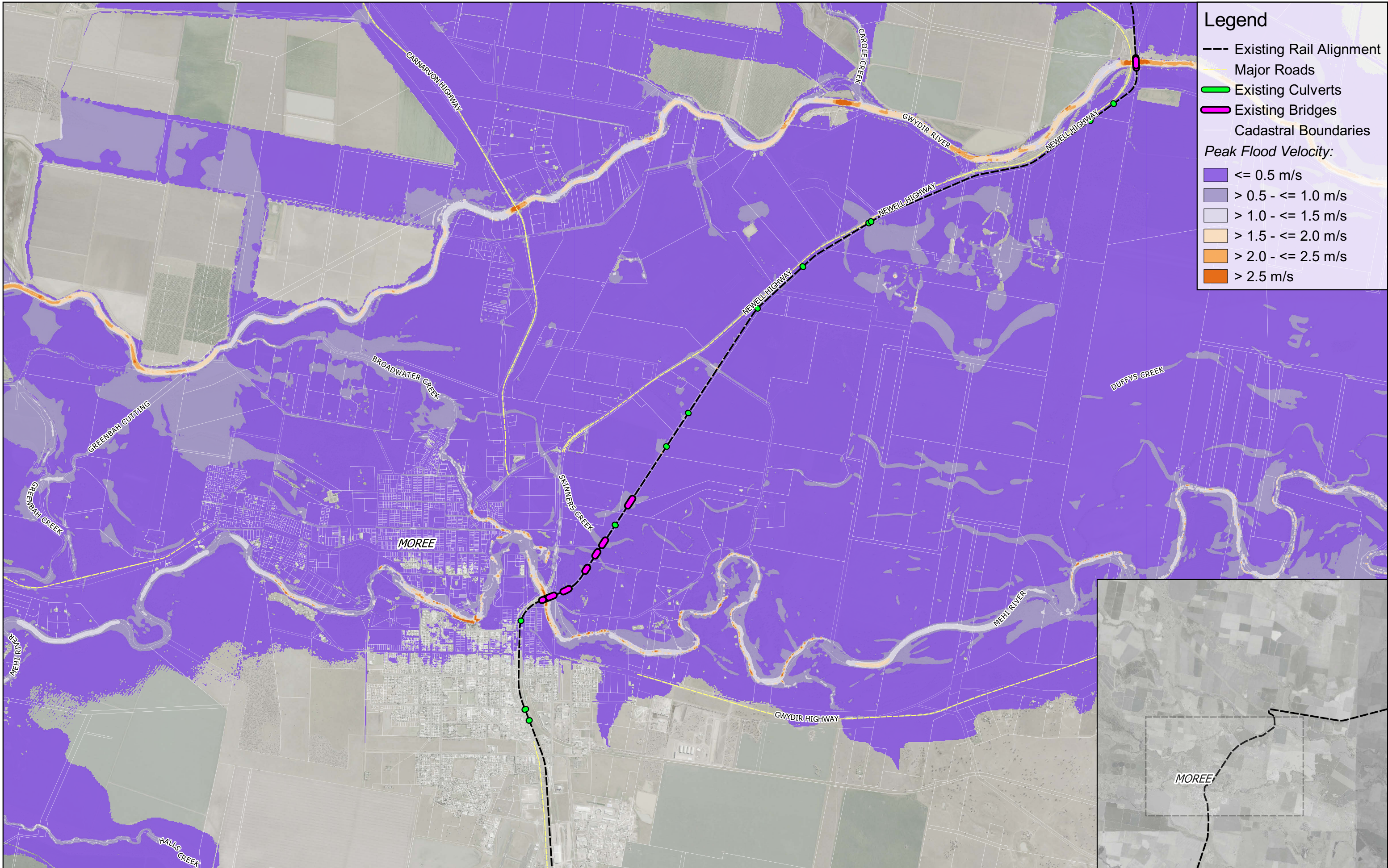
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0 500 1000 m

Scale: 1:20000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 1% AEP
 Sheet 1
 Map ID: EX_VEL_001_1

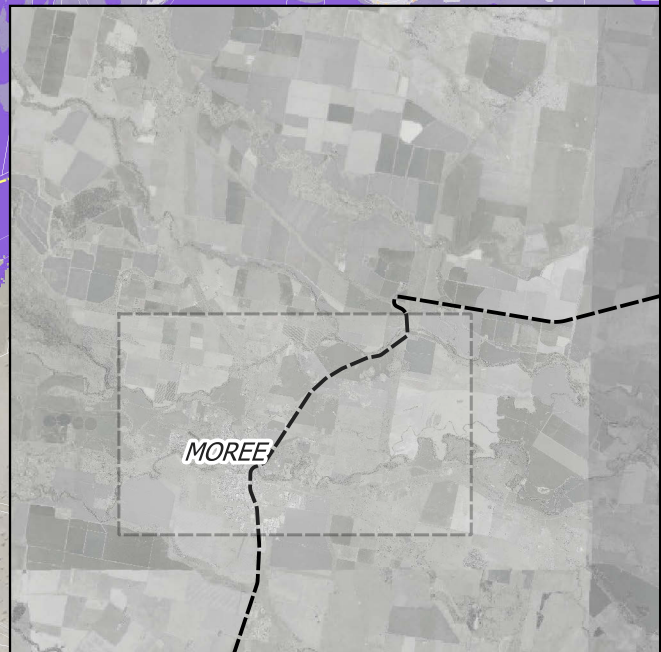


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



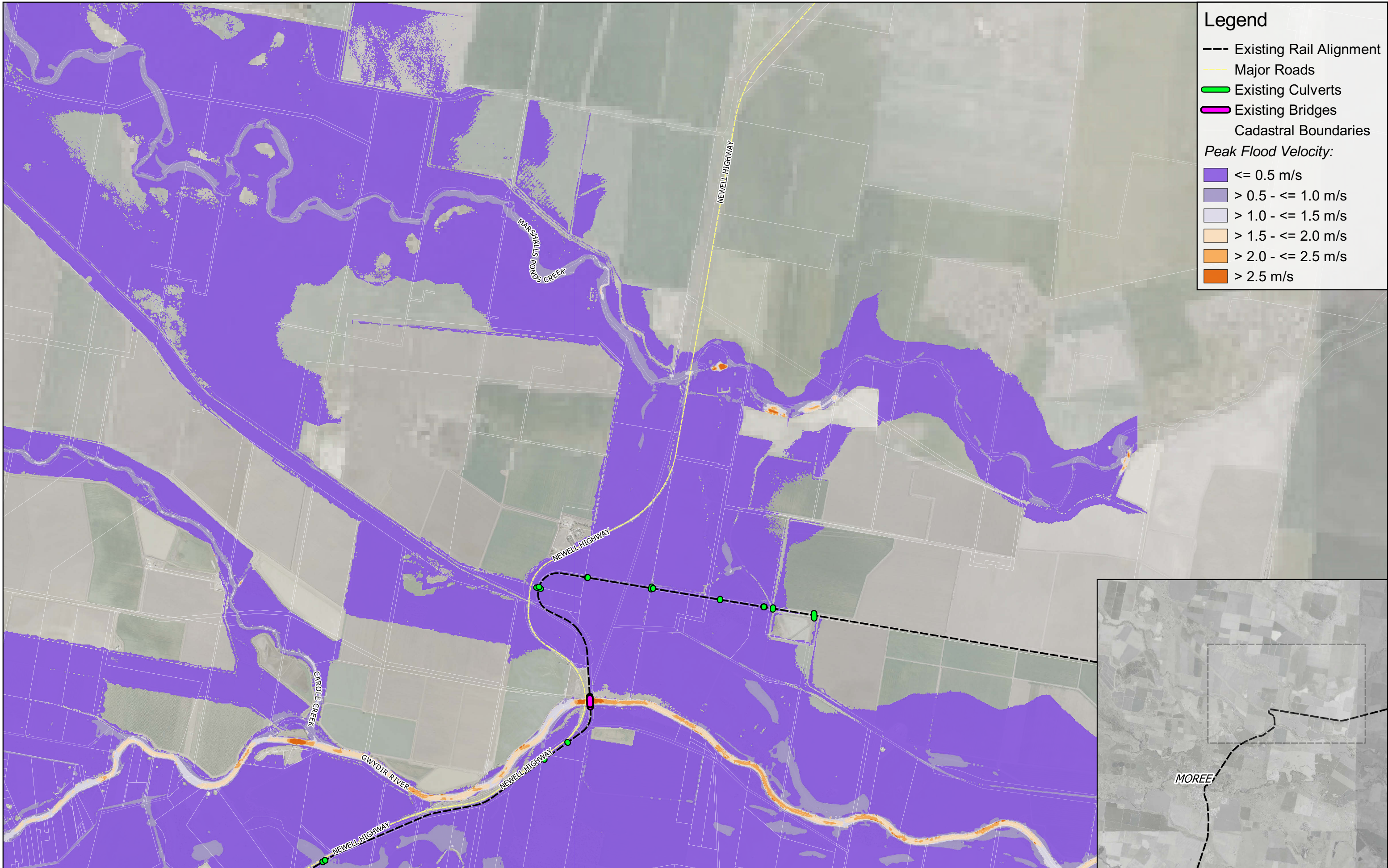
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 Scale ratio correct when printed at A3

0 500 1000 1500 2000 m

Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: 1% AEP
 Sheet 2
 Map ID: EX_VEL_001_2

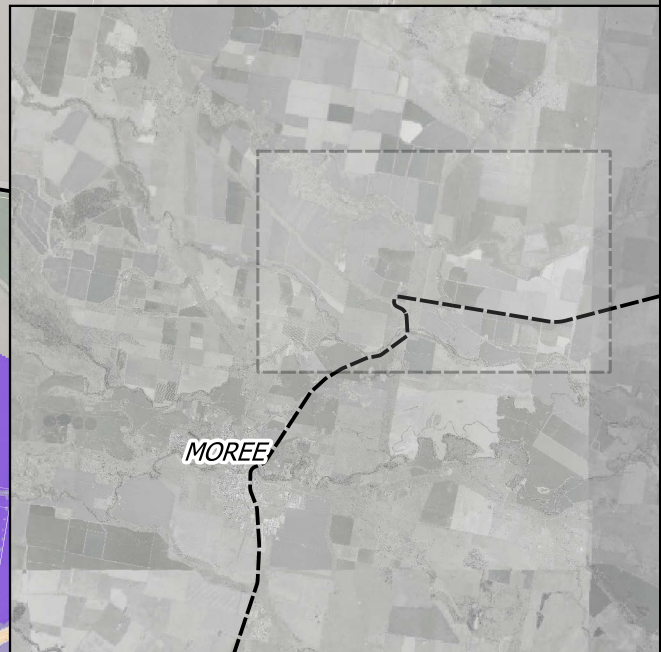


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

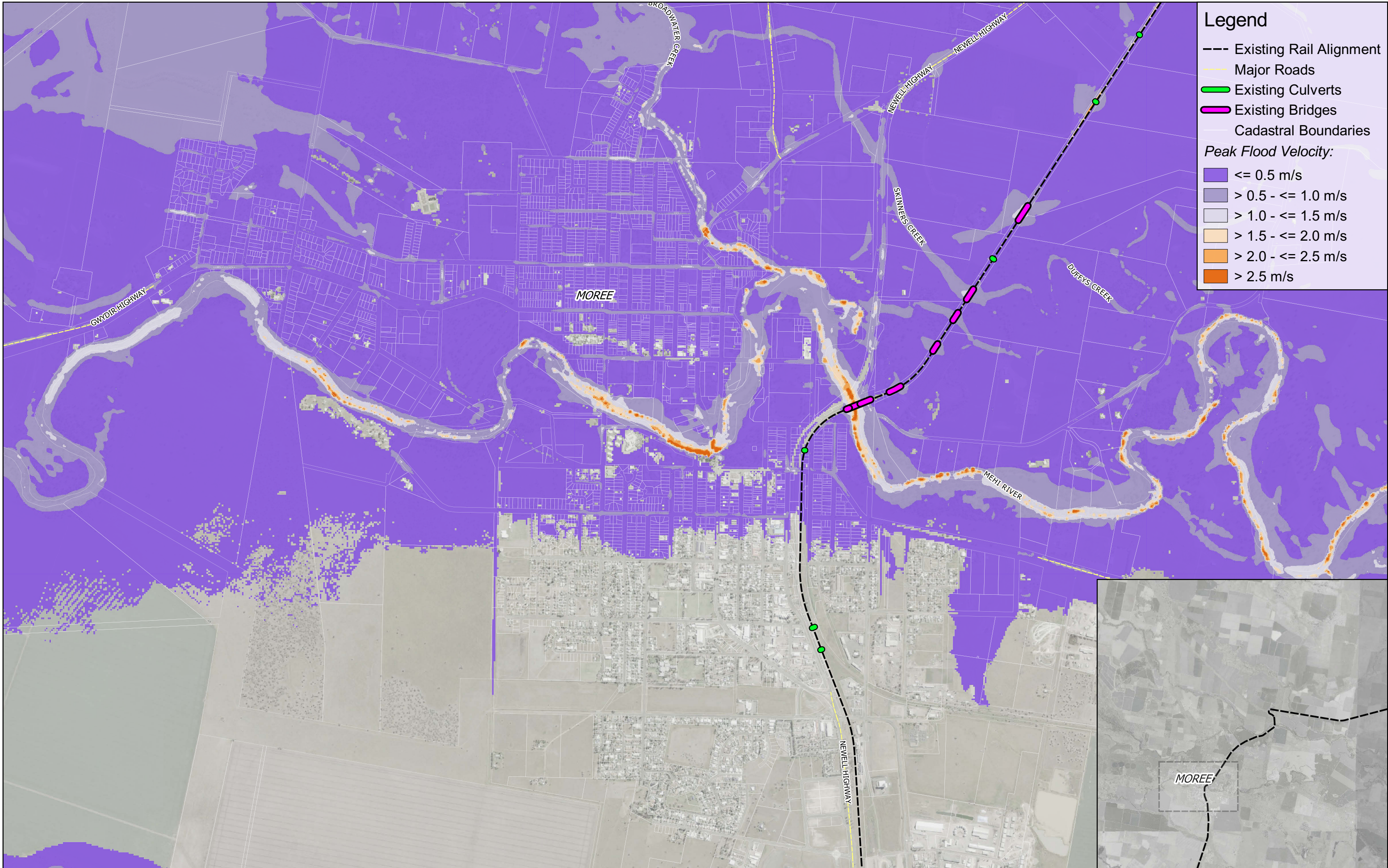
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Scale: 1:40000

wsp **M** **M**
MOTT **MACDONALD**

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 1% AEP
 Sheet 3
 Map ID: EX_VEL_001_3



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- $\le 0.5\text{ m/s}$
- $> 0.5 - \le 1.0\text{ m/s}$
- $> 1.0 - \le 1.5\text{ m/s}$
- $> 1.5 - \le 2.0\text{ m/s}$
- $> 2.0 - \le 2.5\text{ m/s}$
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Prepared for: ARTC
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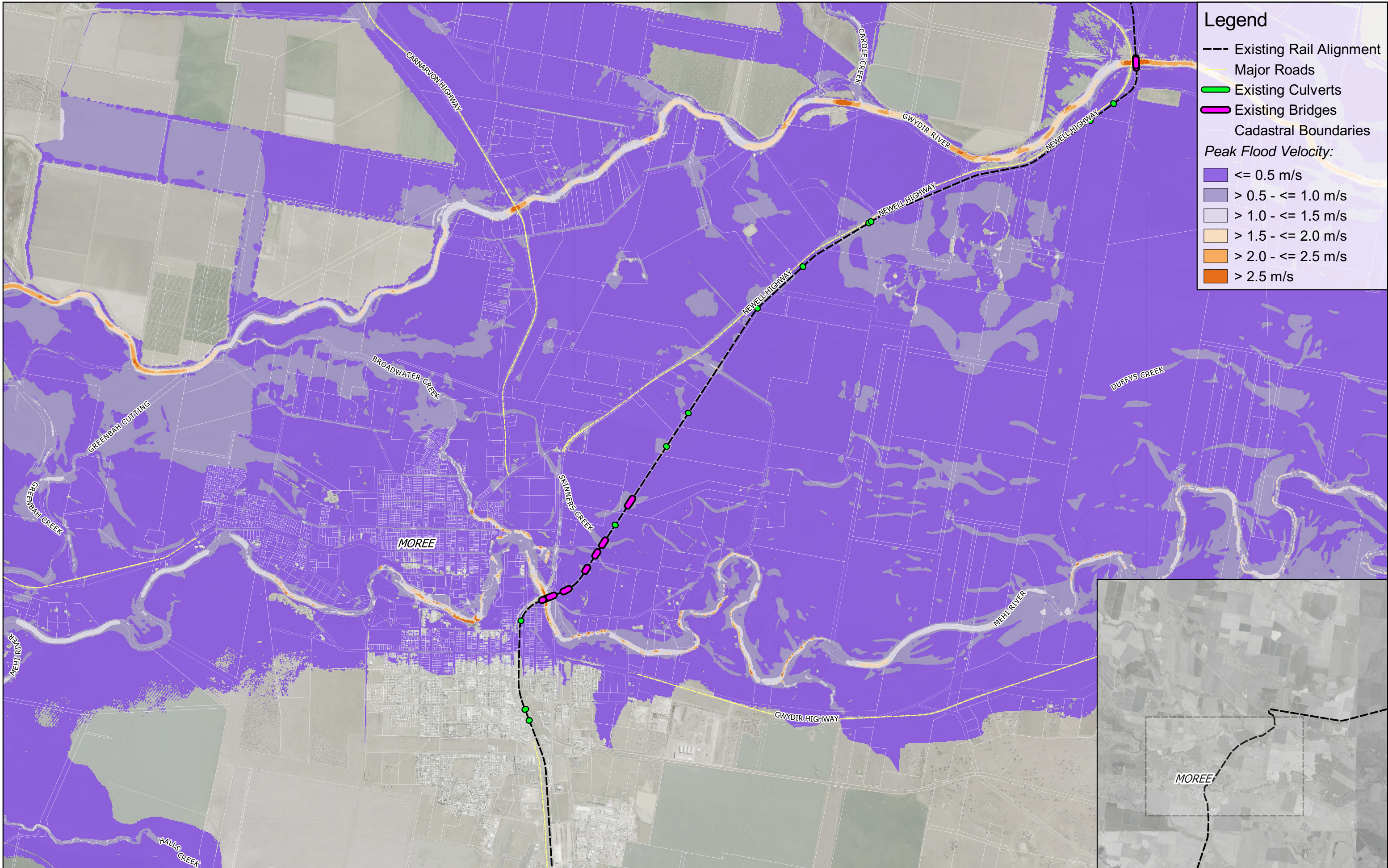
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Scale: 1:20000

wsp **M**
MOTT **M**
MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 1% AEP Climate Change
 Sheet 1
 Map ID: EX_VEL_001CC_1

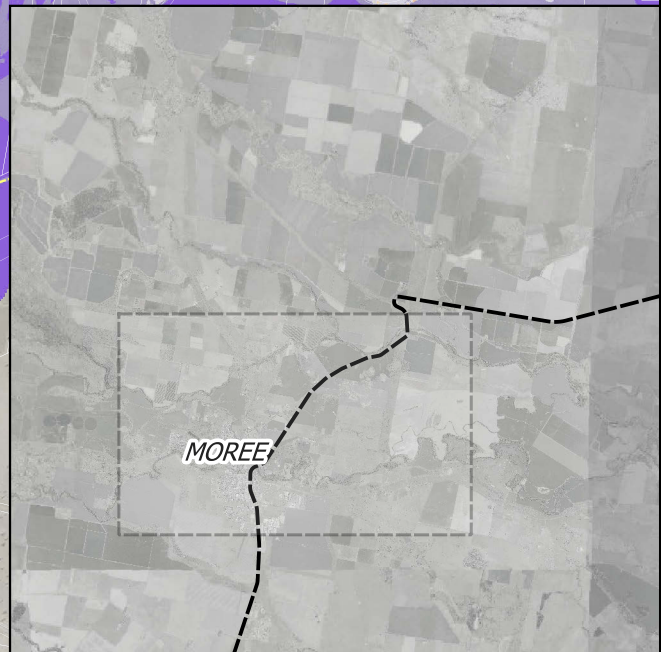


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



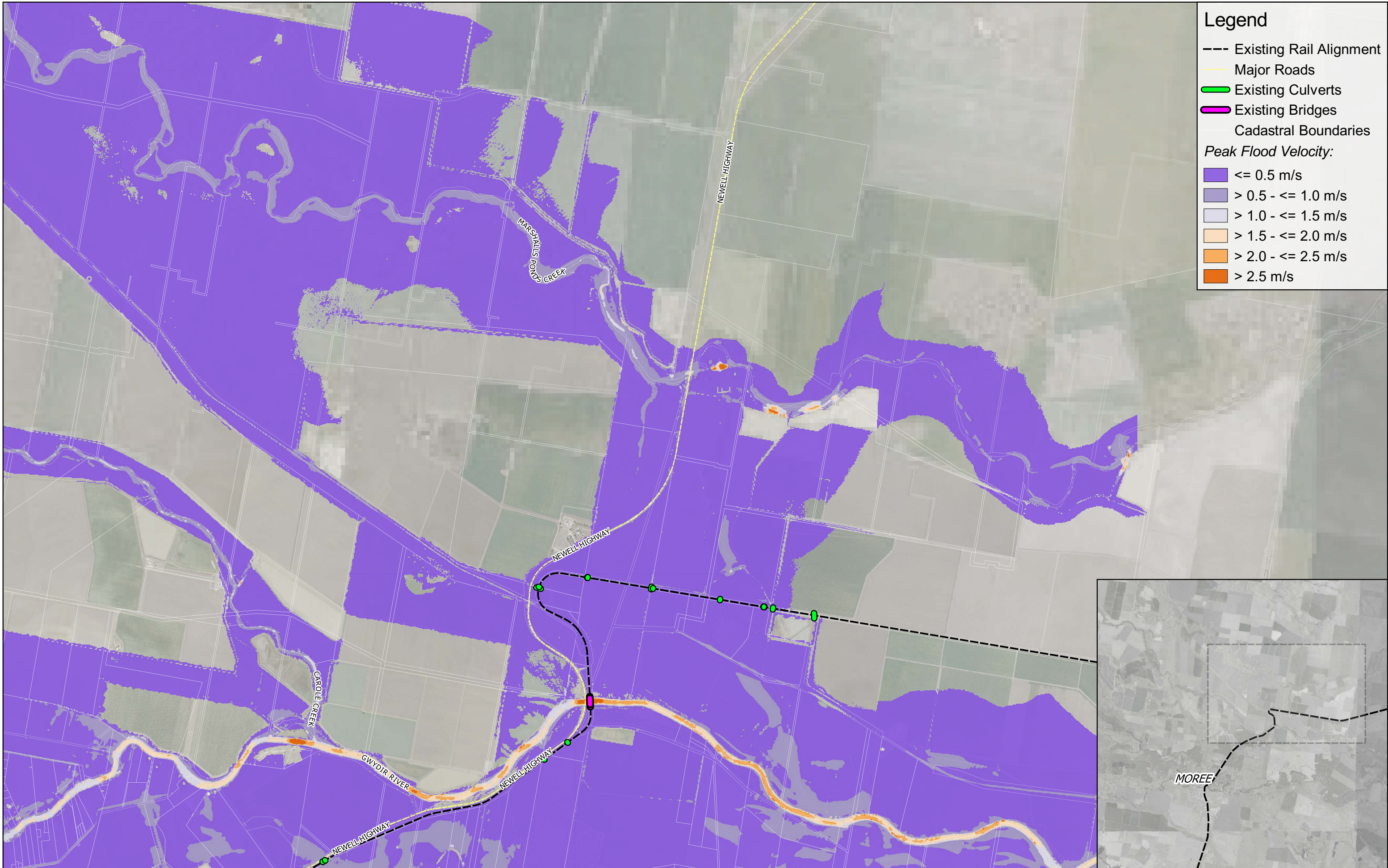
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 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

0 500 1000 1500 2000 m

Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 1% AEP Climate Change
 Sheet 2
 Map ID: EX_VEL_001CC_2

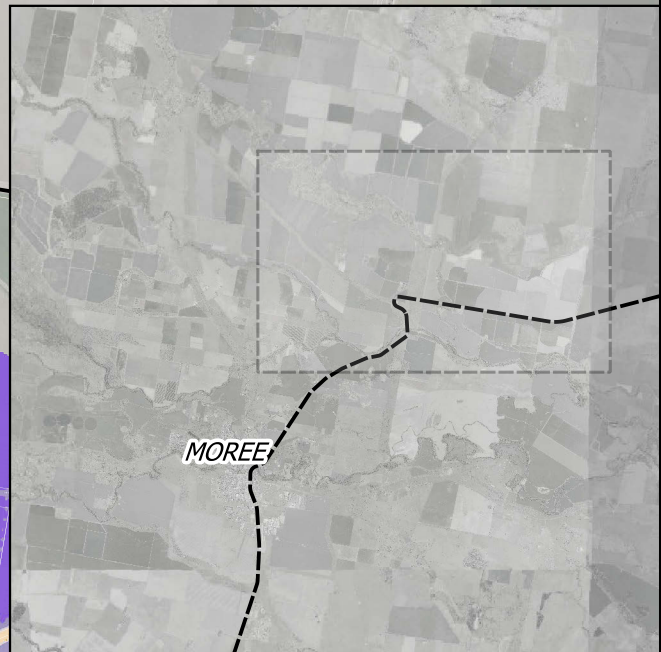


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- ▭ Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- ≤ 0.5 m/s
- > 0.5 - ≤ 1.0 m/s
- > 1.0 - ≤ 1.5 m/s
- > 1.5 - ≤ 2.0 m/s
- > 2.0 - ≤ 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

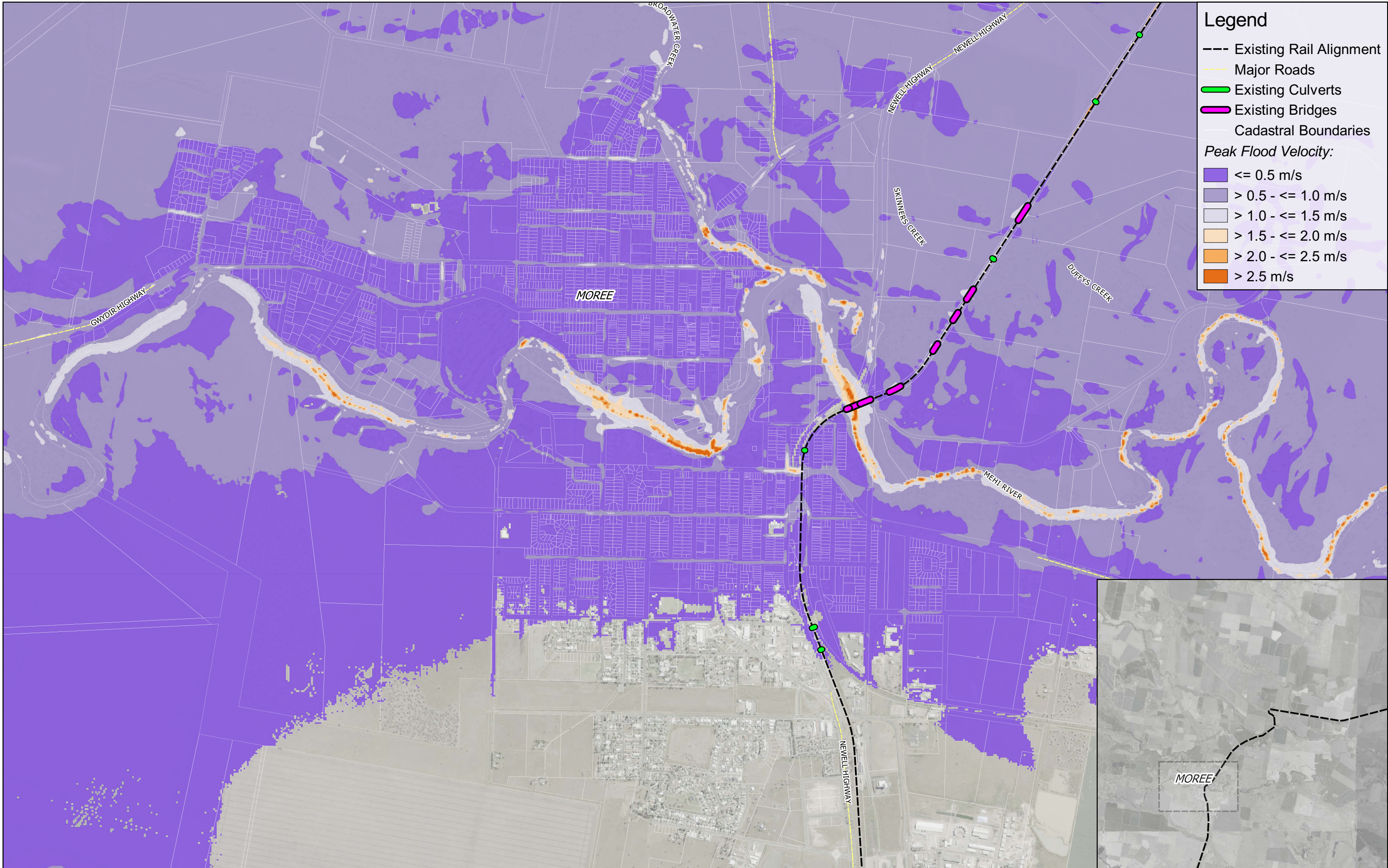
0 500 1000 1500 2000 m

Scale: 1:40000

wsp **M**
MOTT **M**
MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: 1% AEP Climate Change
 Sheet 3
 Map ID: EX_VEL_001CC_3



Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- █ Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- █ $\le 0.5\text{ m/s}$
- █ $> 0.5 - \le 1.0\text{ m/s}$
- █ $> 1.0 - \le 1.5\text{ m/s}$
- █ $> 1.5 - \le 2.0\text{ m/s}$
- █ $> 2.0 - \le 2.5\text{ m/s}$
- █ $> 2.5\text{ m/s}$

Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

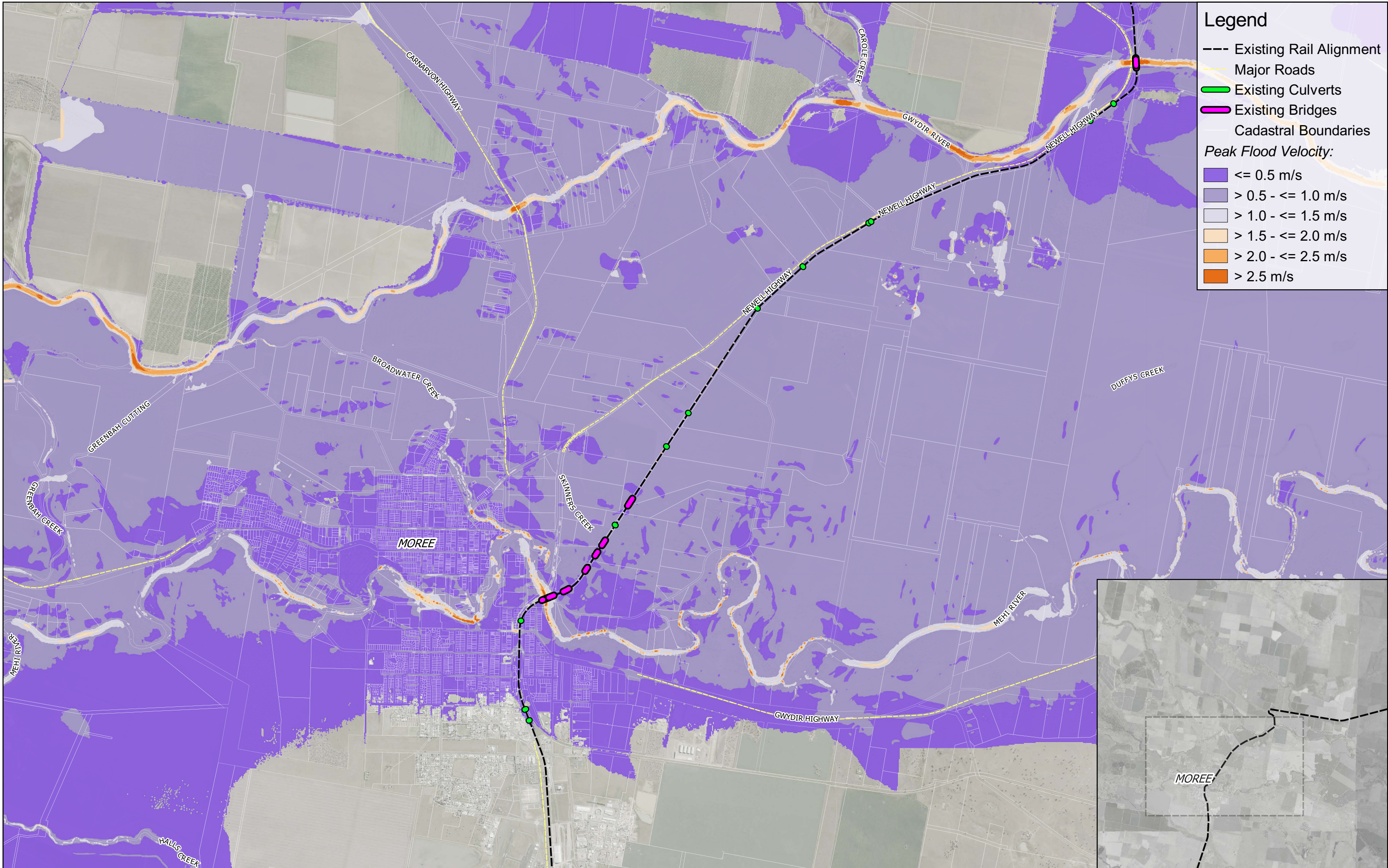
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Scale: 1:20000

wsp **M**
MOTT **M**
MACDONALD

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: PMF
 Sheet 1
 Map ID: EX_VEL_PMF_1

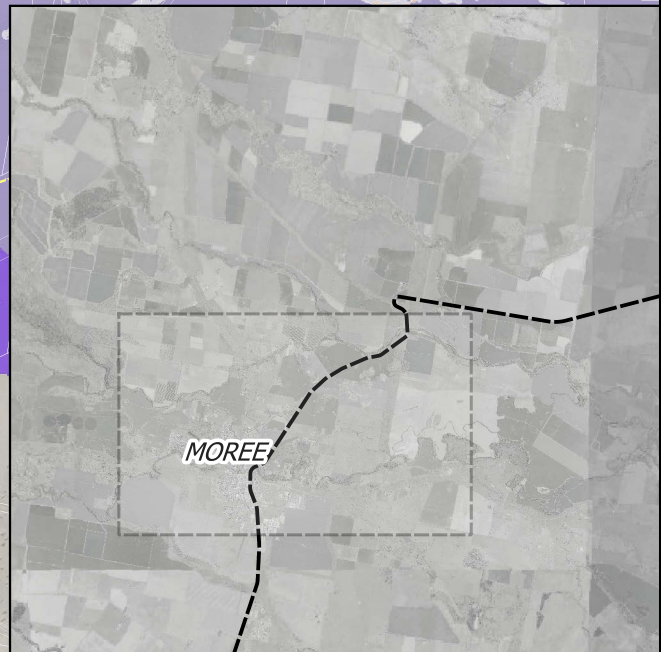


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



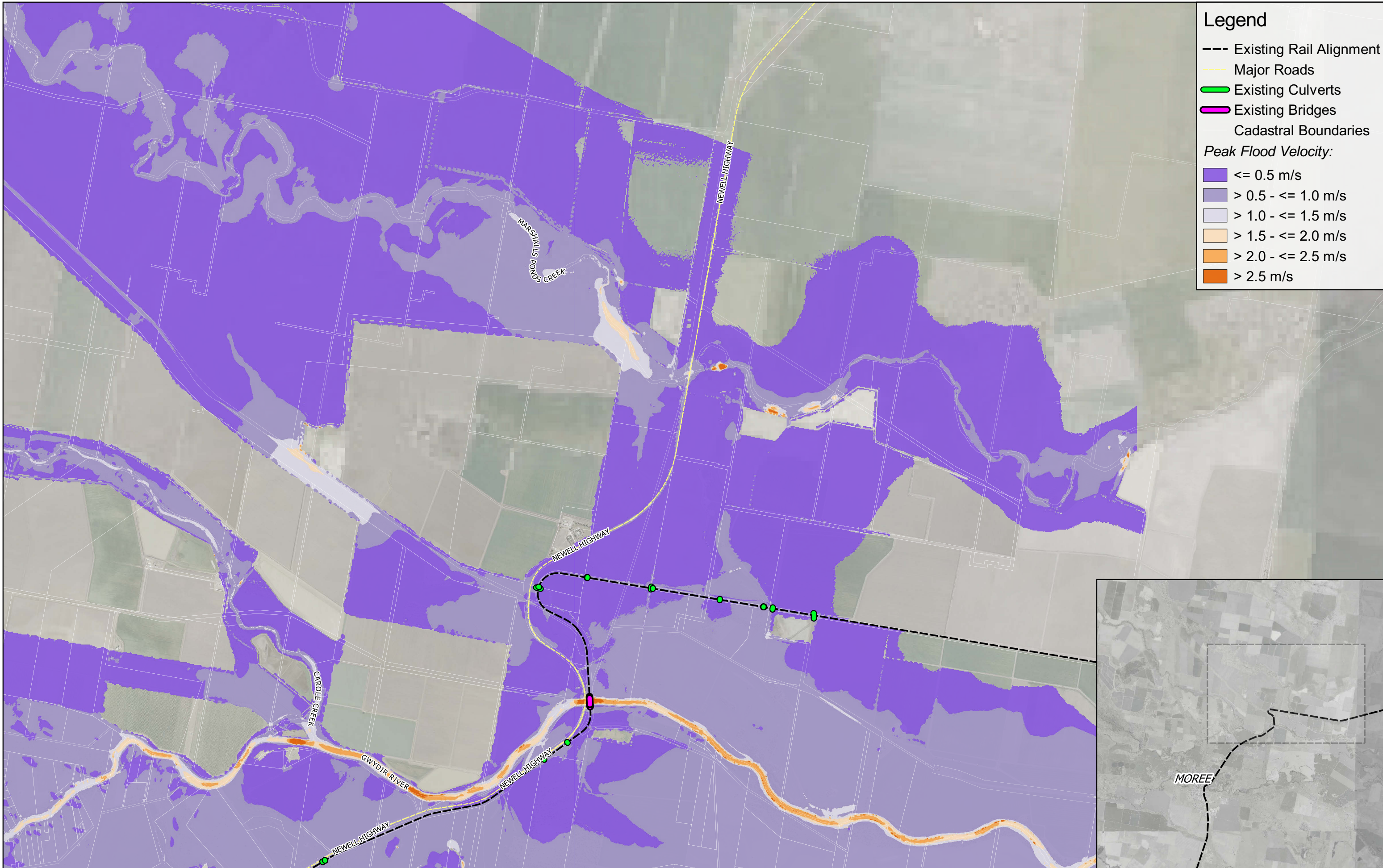
Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

0 500 1000 1500 2000 m

Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
 Peak Flood Velocity - Existing Conditions Scenario
 Event: PMF
 Sheet 2
 Map ID: EX_VEL_PMF_2

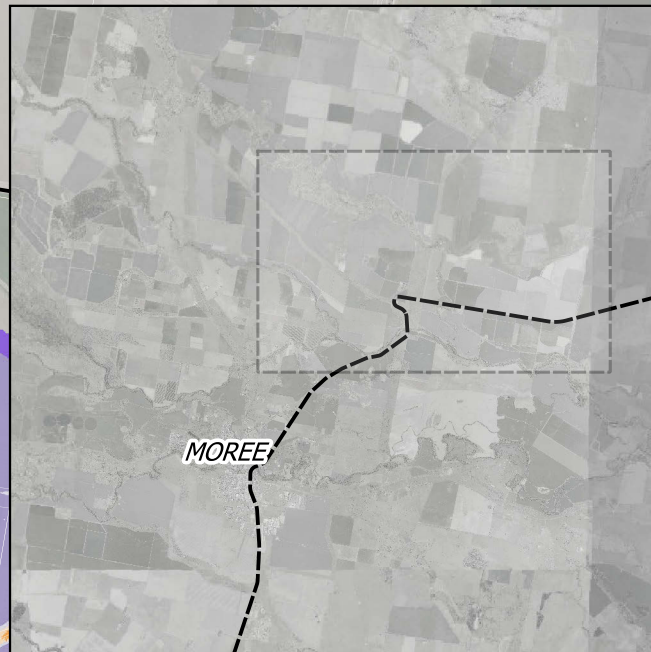


Legend

- Existing Rail Alignment
- Major Roads
- Existing Culverts
- Existing Bridges
- ▭ Cadastral Boundaries

Peak Flood Velocity:

- <= 0.5 m/s
- > 0.5 - <= 1.0 m/s
- > 1.0 - <= 1.5 m/s
- > 1.5 - <= 2.0 m/s
- > 2.0 - <= 2.5 m/s
- > 2.5 m/s



Prepared for: ARTC
 Coordinate system: GDA 1994 MGA Zone 56
 Aerial Source: NSW Six Maps
 Scale ratio correct when printed at A3

0 500 1000 1500 2000 m

Scale: 1:40000

Stage: EIS
 Version: C
 Author: JS
 Approved by: RL
 Date: 22/03/2022

Inland Rail - Narrabri to North Star Phase 2
Peak Flood Velocity - Existing Conditions Scenario
 Event: PMF
 Sheet 3
 Map ID: EX_VEL_PMF_3