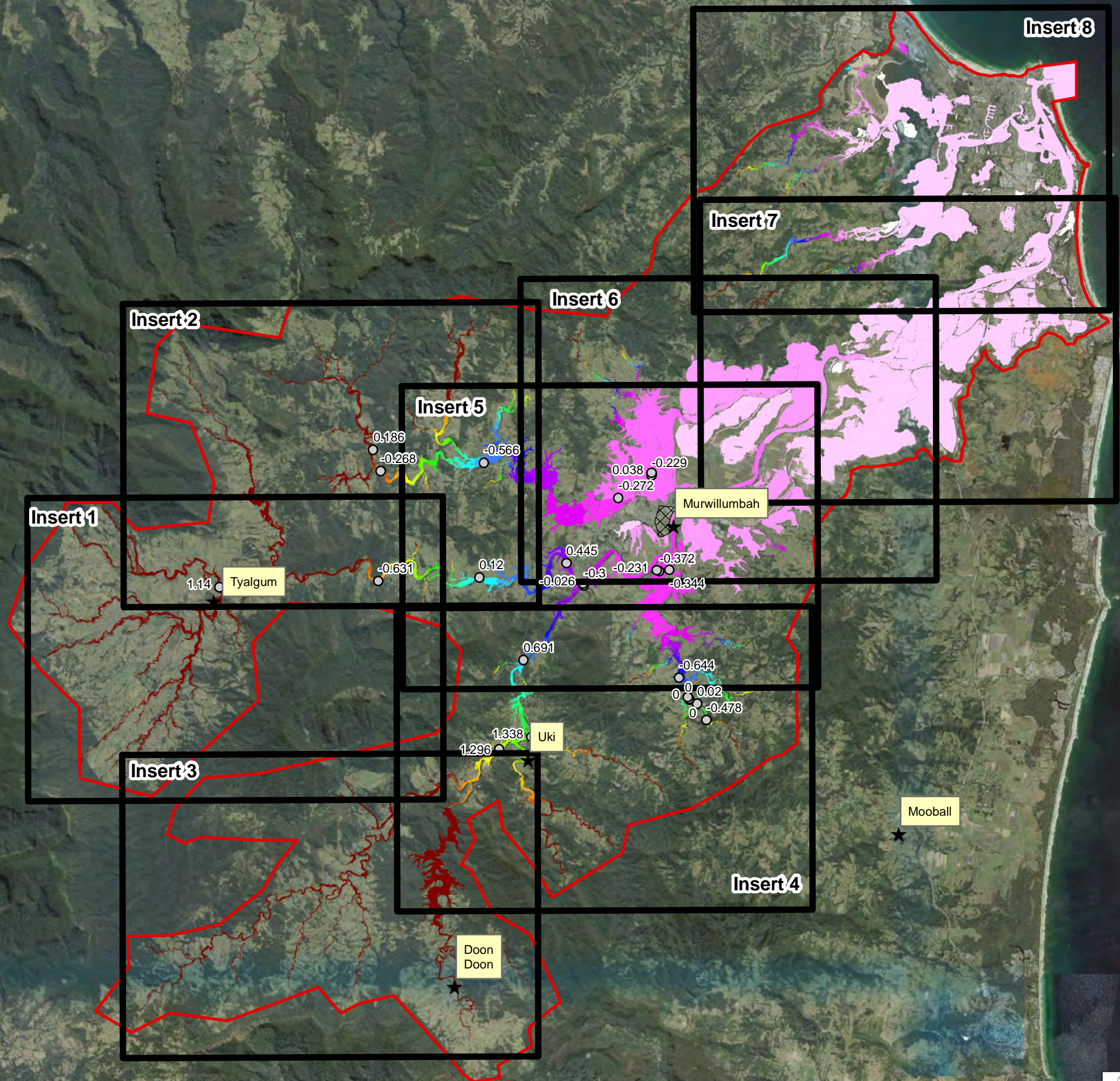




APPENDIX J. 2020 FLOOD MAPS

FIGURE J-1
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL
 2020 EVENT

K:\Jobs\120068\GIS\arcMap\Stage 2 Report Figures\Appendix J\Figure J-1_Tweed_Hydraulic_Model_2020.mxd



- ★ Townships
- Diff Model - Rec
- ▨ Refer to Local Model Result
- ▭ Model Extent

Flood Level (mAHD)

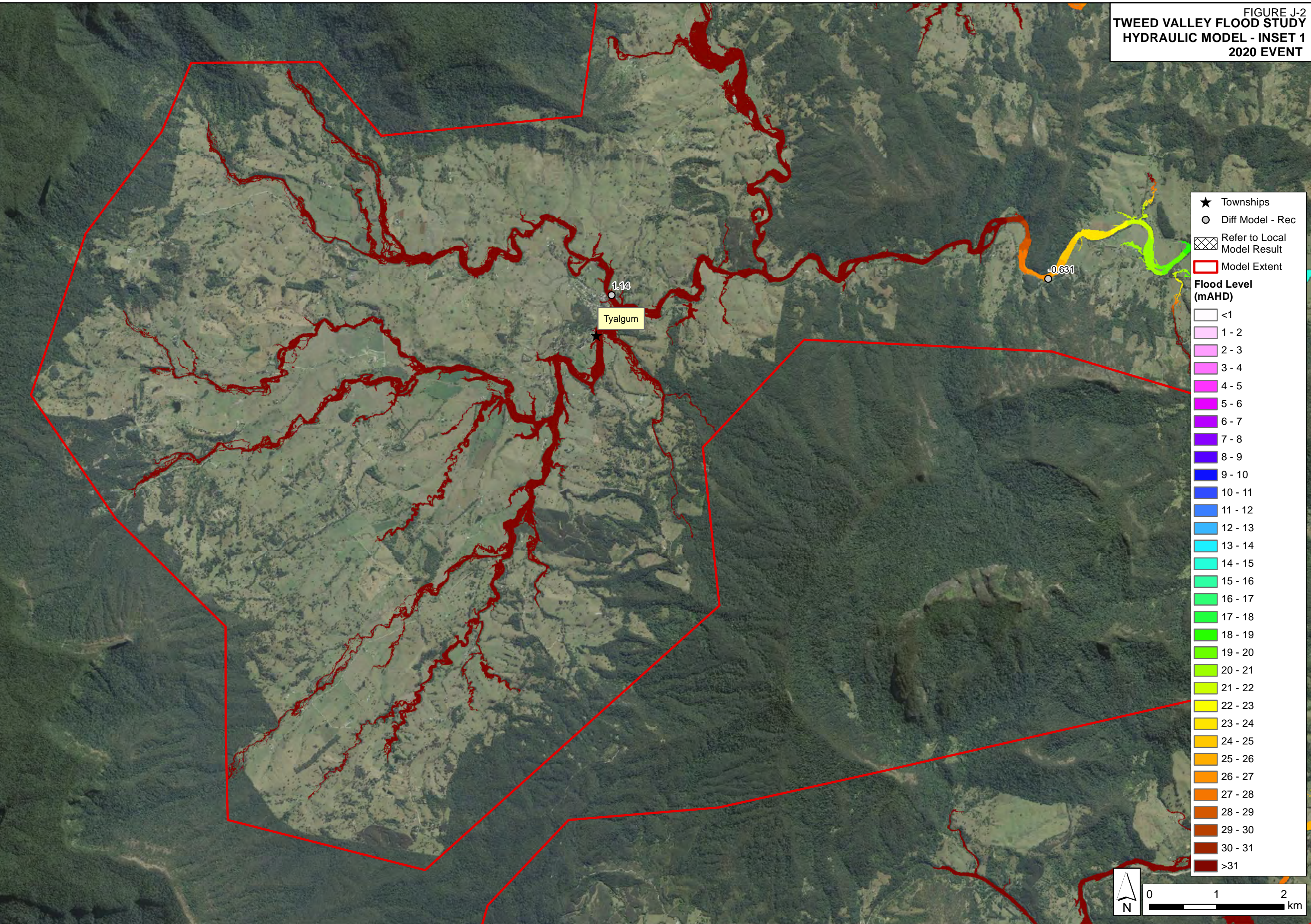
<1
1 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 9
9 - 10
10 - 11
11 - 12
12 - 13
13 - 14
14 - 15
15 - 16
16 - 17
17 - 18
18 - 19
19 - 20
20 - 21
21 - 22
22 - 23
23 - 24
24 - 25
25 - 26
26 - 27
27 - 28
28 - 29
29 - 30
30 - 31
>31

0 5 10 km

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FIGURE J-2
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 1
 2020 EVENT

K:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix J\Figure_J-2_Tweed_Hydraulic_Model_2020_inset_1.mxd



- ★ Townships
 - Diff Model - Rec
 - ⊠ Refer to Local Model Result
 - ▭ Model Extent
- Flood Level (mAHD)**
- | |
|---------|
| < 1 |
| 1 - 2 |
| 2 - 3 |
| 3 - 4 |
| 4 - 5 |
| 5 - 6 |
| 6 - 7 |
| 7 - 8 |
| 8 - 9 |
| 9 - 10 |
| 10 - 11 |
| 11 - 12 |
| 12 - 13 |
| 13 - 14 |
| 14 - 15 |
| 15 - 16 |
| 16 - 17 |
| 17 - 18 |
| 18 - 19 |
| 19 - 20 |
| 20 - 21 |
| 21 - 22 |
| 22 - 23 |
| 23 - 24 |
| 24 - 25 |
| 25 - 26 |
| 26 - 27 |
| 27 - 28 |
| 28 - 29 |
| 29 - 30 |
| 30 - 31 |
| >31 |

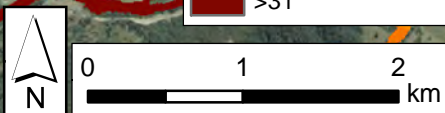
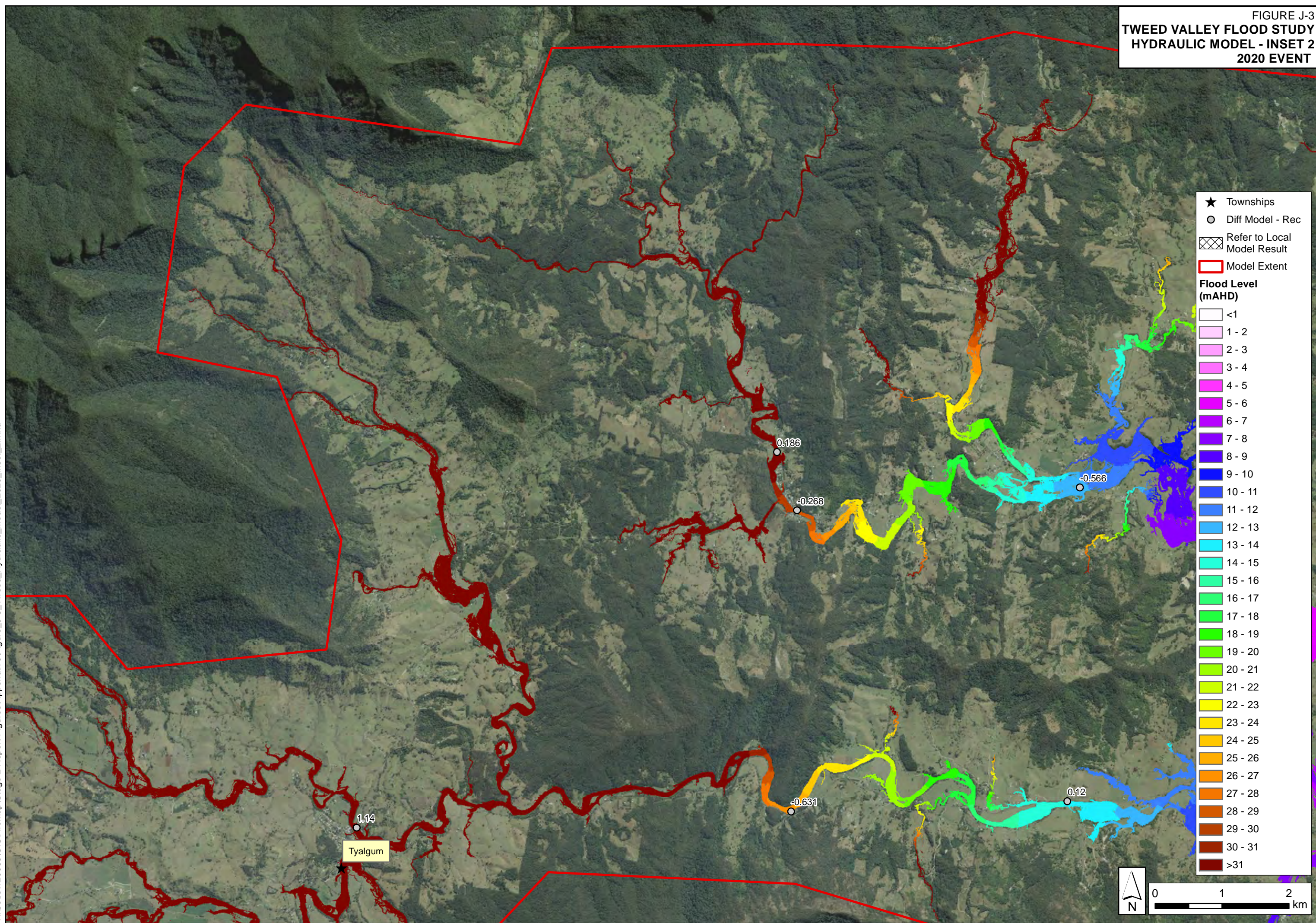


FIGURE J-3
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 2
 2020 EVENT

K:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix J\Figure_J-3_Tweed_Hydraulic_Model_2020_inset_2.mxd



- ★ Townships
- Diff Model - Rec
- ⊠ Refer to Local Model Result
- ▭ Model Extent

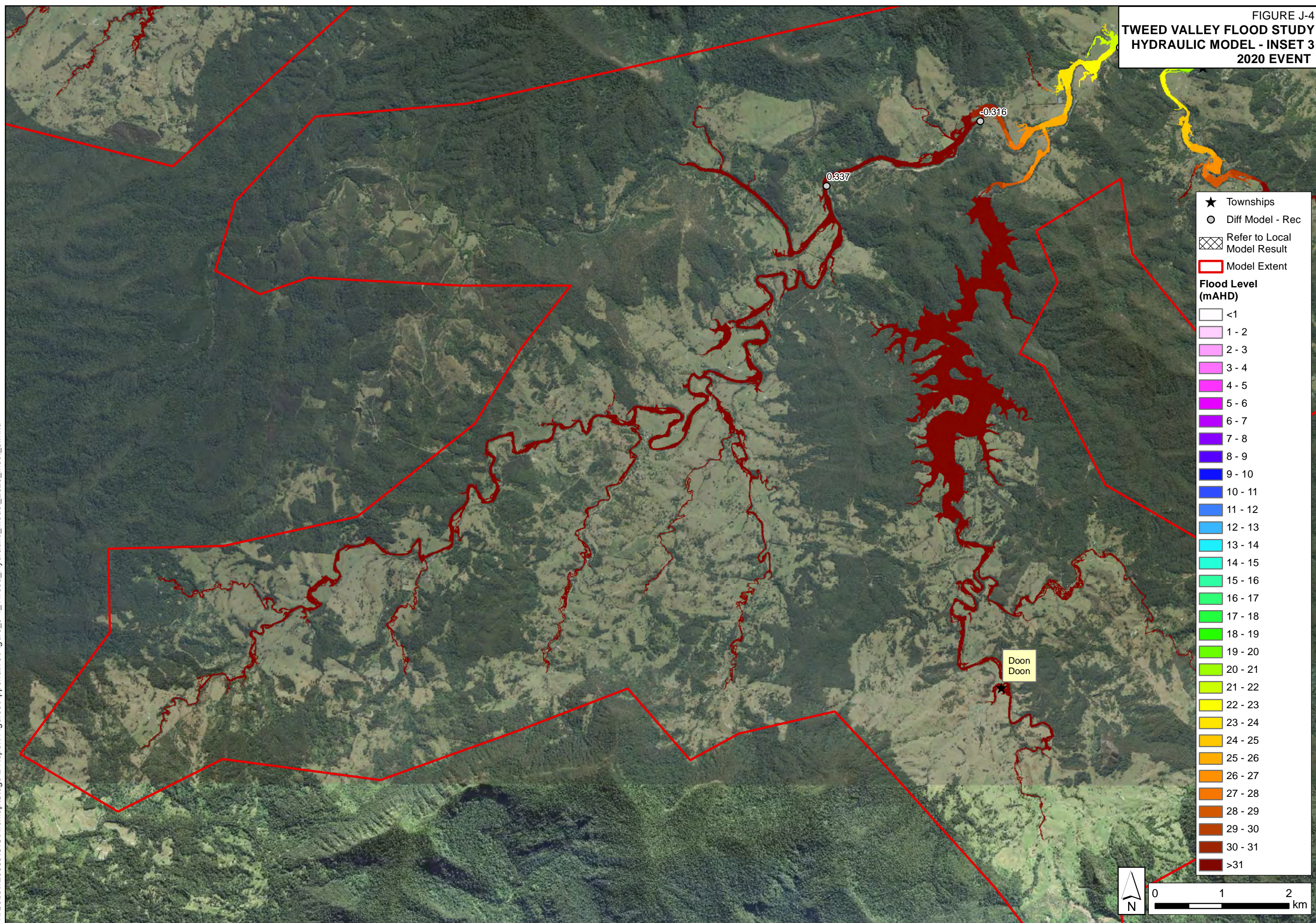
Flood Level (mAHD)

<1
1 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 9
9 - 10
10 - 11
11 - 12
12 - 13
13 - 14
14 - 15
15 - 16
16 - 17
17 - 18
18 - 19
19 - 20
20 - 21
21 - 22
22 - 23
23 - 24
24 - 25
25 - 26
26 - 27
27 - 28
28 - 29
29 - 30
30 - 31
>31

0 1 2 km

N

FIGURE J-4
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 3
 2020 EVENT



- ★ Townships
 - Diff Model - Rec
 - ⊠ Refer to Local Model Result
 - ▭ Model Extent
- Flood Level (mAH/D)**
- | |
|---------|
| <1 |
| 1 - 2 |
| 2 - 3 |
| 3 - 4 |
| 4 - 5 |
| 5 - 6 |
| 6 - 7 |
| 7 - 8 |
| 8 - 9 |
| 9 - 10 |
| 10 - 11 |
| 11 - 12 |
| 12 - 13 |
| 13 - 14 |
| 14 - 15 |
| 15 - 16 |
| 16 - 17 |
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| 20 - 21 |
| 21 - 22 |
| 22 - 23 |
| 23 - 24 |
| 24 - 25 |
| 25 - 26 |
| 26 - 27 |
| 27 - 28 |
| 28 - 29 |
| 29 - 30 |
| 30 - 31 |
| >31 |

Doon Doon

0.337

-0.316

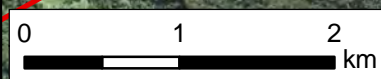
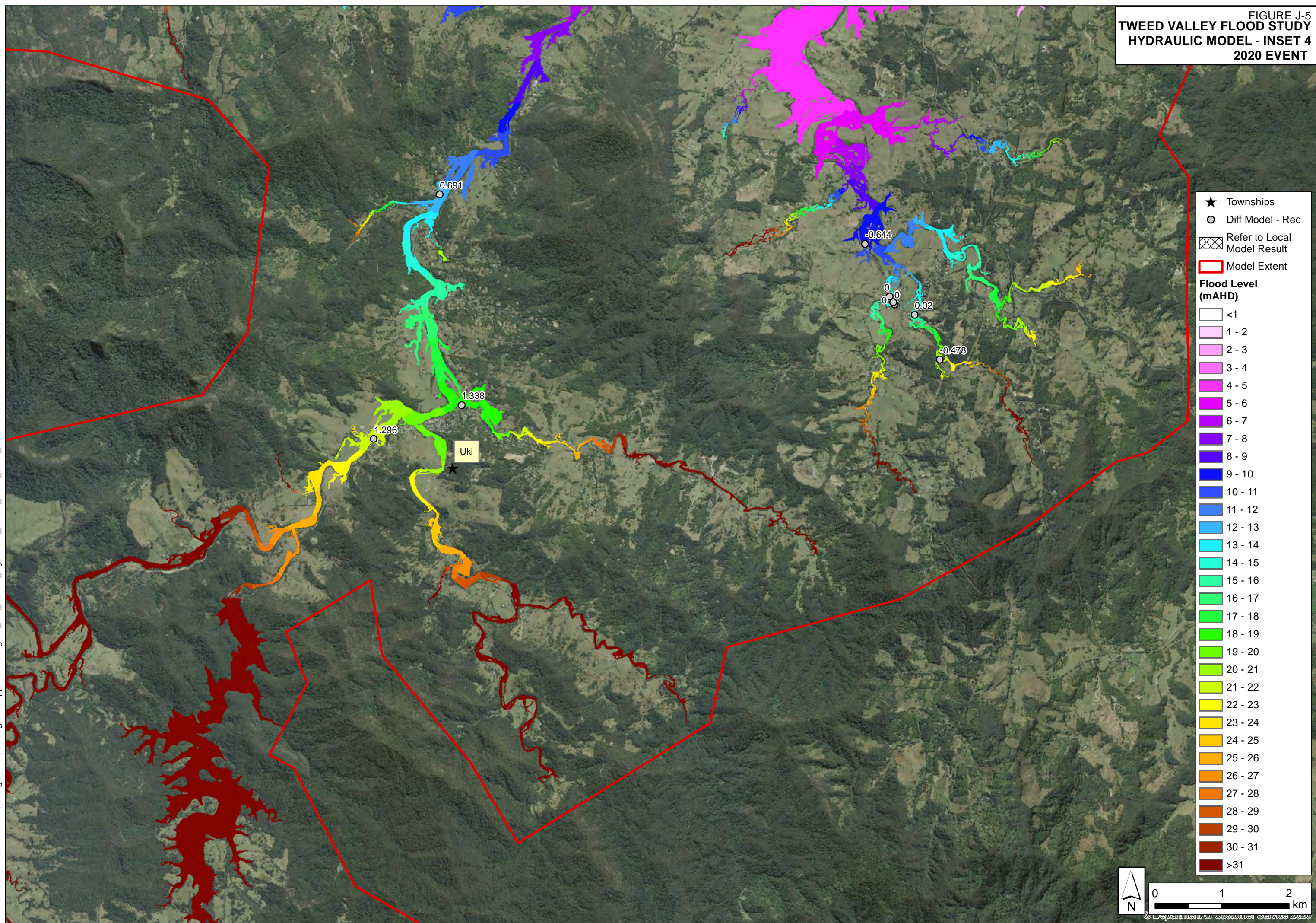


FIGURE J-5
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 4
 2020 EVENT

K:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix J\Figure_J-5_Tweed_Hydraulic_Model_2020_inset_4.mxd



- ★ Townships
- Diff Model - Rec
- ⊠ Refer to Local Model Result
- ▭ Model Extent

Flood Level (mAHD)

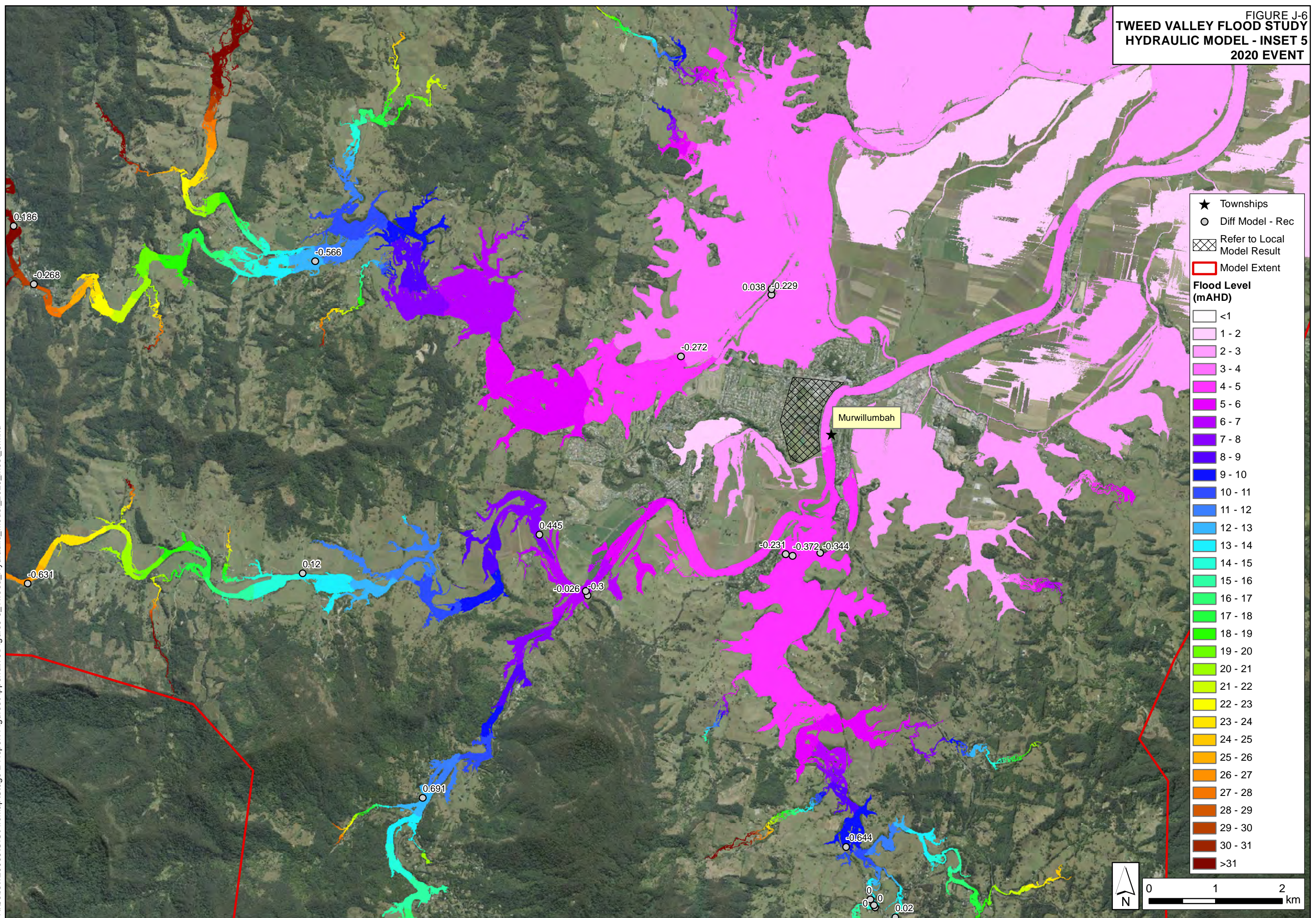
□	<1
□	1 - 2
□	2 - 3
□	3 - 4
□	4 - 5
□	5 - 6
□	6 - 7
□	7 - 8
□	8 - 9
□	9 - 10
□	10 - 11
□	11 - 12
□	12 - 13
□	13 - 14
□	14 - 15
□	15 - 16
□	16 - 17
□	17 - 18
□	18 - 19
□	19 - 20
□	20 - 21
□	21 - 22
□	22 - 23
□	23 - 24
□	24 - 25
□	25 - 26
□	26 - 27
□	27 - 28
□	28 - 29
□	29 - 30
□	30 - 31
□	>31

0 1 2 km

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FIGURE J-6
TWEED VALLEY FLOOD STUDY
HYDRAULIC MODEL - INSET 5
2020 EVENT

K:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix J\FigureJ-6_Tweed_Hydraulic_Model_2020_inset_5.mxd



- ★ Townships
- Diff Model - Rec
- ▣ Refer to Local Model Result
- ▭ Model Extent

Flood Level (mAHW)

White	<1
Lightest Pink	1 - 2
Light Pink	2 - 3
Medium Pink	3 - 4
Dark Pink	4 - 5
Red-Orange	5 - 6
Orange	6 - 7
Dark Orange	7 - 8
Red	8 - 9
Dark Red	9 - 10
Maroon	10 - 11
Brown	11 - 12
Dark Brown	12 - 13
Black	13 - 14
Black	14 - 15
Black	15 - 16
Black	16 - 17
Black	17 - 18
Black	18 - 19
Black	19 - 20
Black	20 - 21
Black	21 - 22
Black	22 - 23
Black	23 - 24
Black	24 - 25
Black	25 - 26
Black	26 - 27
Black	27 - 28
Black	28 - 29
Black	29 - 30
Black	30 - 31
Black	>31

0 1 2 km

N

0.186
 -0.268
 -0.566
 -0.631
 0.12
 0.445
 -0.026
 -0.3
 0.691
 -0.644
 0.02

0.038 -0.229

-0.272

-0.231 -0.372 -0.344

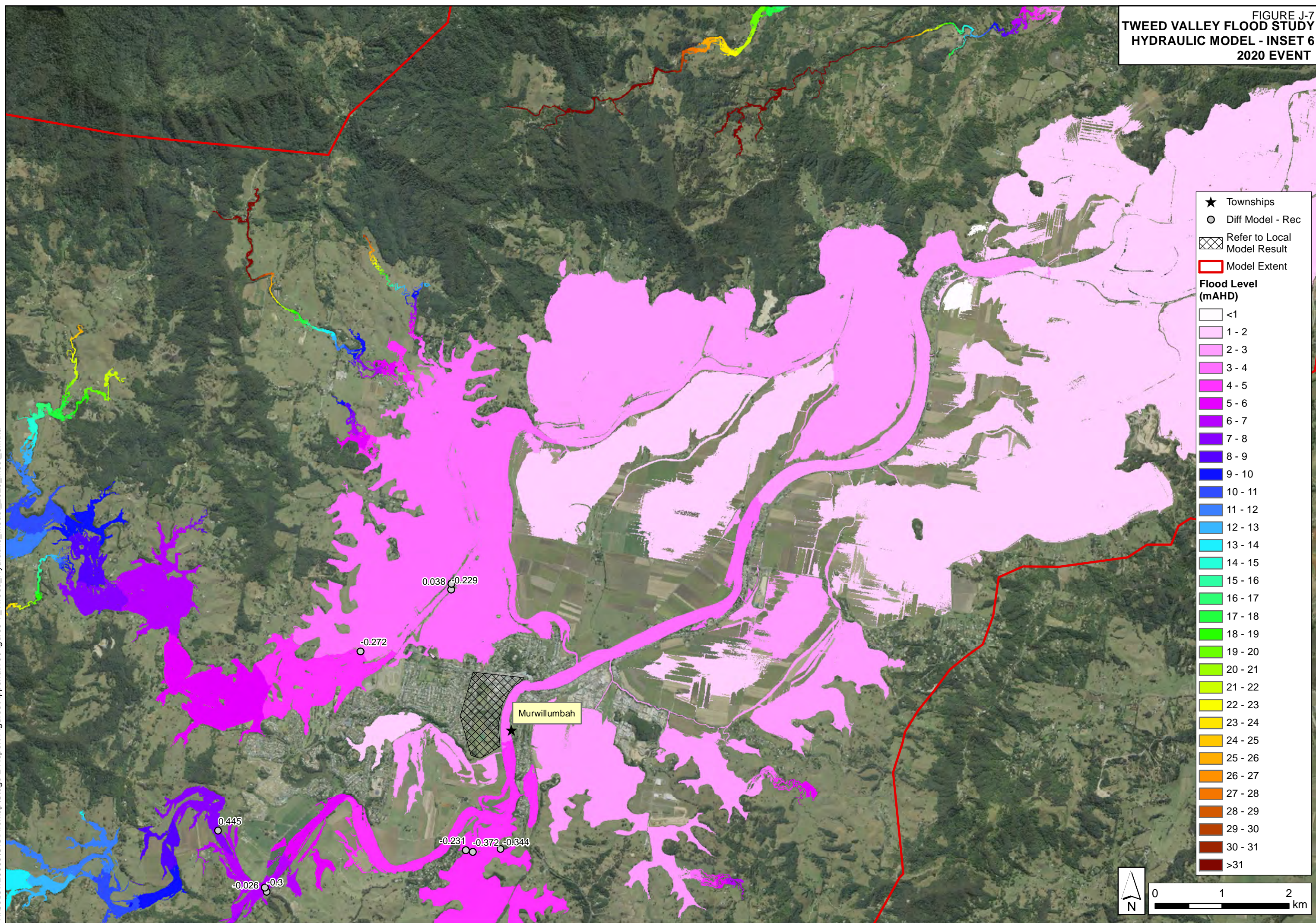
-0.644

0
 0
 0
 0.02

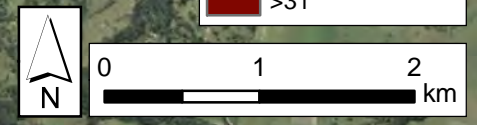
Murwillumbah

FIGURE J-7
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 6
 2020 EVENT

K:\Jobs\120068\GIS\ArcMap\Stage 2 Report Figures\Appendix J\FigureJ-7_Tweed_Hydraulic_Model_2020_inset_6.mxd



- ★ Townships
 - Diff Model - Rec
 - ▨ Refer to Local Model Result
 - ▭ Model Extent
- Flood Level (mAH/D)**
- <1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 5
 - 5 - 6
 - 6 - 7
 - 7 - 8
 - 8 - 9
 - 9 - 10
 - 10 - 11
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 - 29 - 30
 - 30 - 31
 - >31



0.038 0.229

-0.272

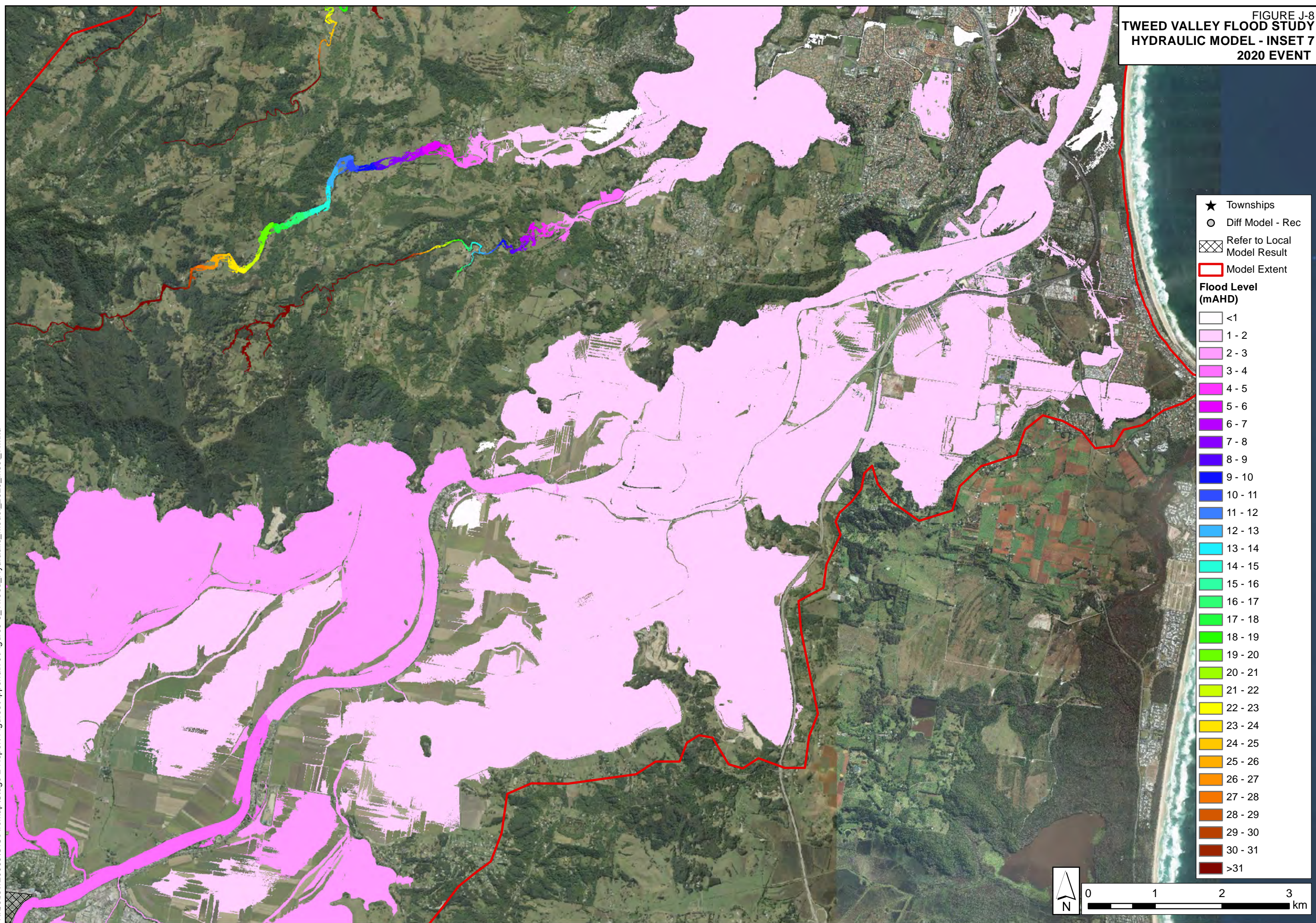
0.445

-0.026 -0.3

-0.231 -0.372 -0.344

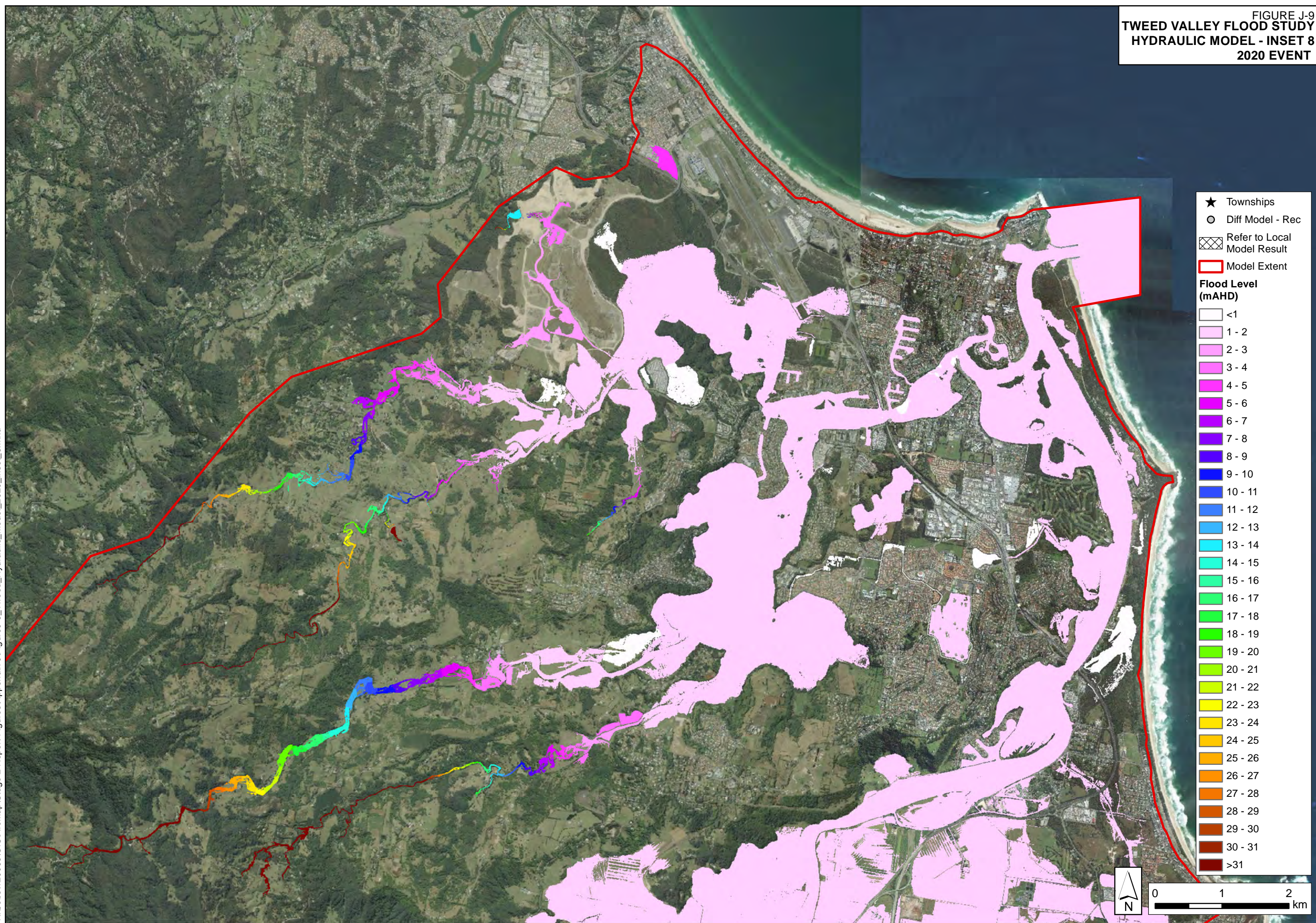
Murwillumbah

FIGURE J-8
TWEED VALLEY FLOOD STUDY
HYDRAULIC MODEL - INSET 7
2020 EVENT



- ★ Townships
 - Diff Model - Rec
 - ⊗ Refer to Local Model Result
 - ▭ Model Extent
- Flood Level (mAHd)**
- <1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 5
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 - 8 - 9
 - 9 - 10
 - 10 - 11
 - 11 - 12
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 - 29 - 30
 - 30 - 31
 - >31

FIGURE J-9
 TWEED VALLEY FLOOD STUDY
 HYDRAULIC MODEL - INSET 8
 2020 EVENT



- ★ Townships
 - Diff Model - Rec
 - ⊠ Refer to Local Model Result
 - ▭ Model Extent
- Flood Level (mAHD)**
- <1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 5
 - 5 - 6
 - 6 - 7
 - 7 - 8
 - 8 - 9
 - 9 - 10
 - 10 - 11
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 - 26 - 27
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 - 28 - 29
 - 29 - 30
 - 30 - 31
 - >31

