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MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE

HYDROLOGIC AND HYDRAULIC MODELLING REPORT: MARY RIVER (MAR)

APPENDIX D: MODELLING QUALITY REPORT

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TECHNICAL NOTE

DATE 10 July 2010

TO Moreton Bay Regional Council

FROM Leonard Cheung

COPY

PROJECT 301001-01156

SUBJECT Mary River Modelling Quality Report

DOC NO

FILE LOC

INTRODUCTION

A detailed TUFLOW model of the Mary River (MAR) minor basin has been developed as part of Moreton Bay Regional Council's (MBRC) Regional Floodplain Database (RFD) Stage 2 project.

This technical note is prepared to demonstrate that the performance of the NEU model is suitable for the intended use and the associated model outputs can be adopted by MBRC for the RFD to deliver reliable flood information across the Mary River minor basin.

MODEL PERFORMANCE

Model stability, warning messages and mass errors were monitored throughout model simulation periods to ensure that the model performance was acceptable. Careful attention has been paid to ensure that flows over the 2D domain were stable during model simulation period.

Overland flow hydrographs were checked at key locations and especially at the areas near the downstream boundaries (PO lines) to ensure the simulation extended well beyond the peak throughout the MAR study area.

To demonstrate there are no significant loss or gain of flood volumes during model runs, a check of the mass balance of the flood volumes for the two selected critical durations of the 10Yr, 100Yr ARI and PMF flood events has been undertaken and presented in the following Table 1.



Table 1: Mass Balance Check

Event	10Yr ARI		100Yr ARI		PMF	
Critical Duration	60M	120M	60M	120M	60M	120M
Volume at Start (m3)	5339	5339	5339	5339	5339	5339
Volume at End (m3)	1789694	1481931	2286890	1925088	4583577	9680677
Total Volume In (m3)	4127635	5863975	6521171	9267453	31550614	45651573
Total Volume Out (m3)	2321503	4350295	4187065	7274454	26731359	35879365
Volume Error (m3)	-21777	-37088	-52554	-73250	-241017	-96870
Final Cumulative ME (%)	-0.34%	-0.36%	-0.49%	-0.44%	-0.41%	-0.12%

The above table shows that there are no significant loss and gain of flood volume during the modelling and the mass balance errors are within the range of -0.44% to -0.12% for the critical duration runs of the three design events.

CONCLUSIONS

The quality of the MAR model run has been reviewed. It is considered that the overall model performance is suitable for the intended use and the associated model outputs can be adopted for the MBRC RFD to deliver reliable flood information across the Mary River minor basin.



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HYDROLOGIC AND HYDRAULIC MODELLING REPORT: MARY RIVER (MAR)

APPENDIX E: FLOOD MAPS – 100 YEAR ARI

Somerset Regional Council

LEGEND

- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 yr ARI Flood Extent

Flood Level (mAHD)

- < 160
- 160 to 170
- 170 to 180
- 180 to 190
- 190 to 200
- 200 to 225
- 225 to 250
- 250 to 300
- 300 to 350
- >350

STANLEY RIVER MINOR BASIN



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REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)
MARY RIVER
FIGURE E1 PEAK FLOOD LEVEL MAP - 100 YEAR ARI

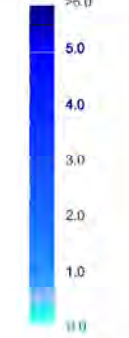
Project No: 301001-01156 Figure:301001-01156-EN-DAL-0142 Rev: 0

Somerset Regional Council

LEGEND

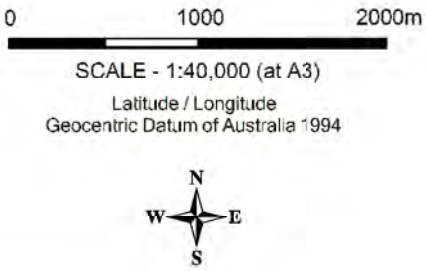
- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 yr ARI Flood Extent

Flood Depth (m)



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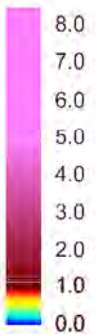
MORETON BAY REGIONAL COUNCIL		
REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)		
MARY RIVER		
FIGURE E2 PEAK FLOOD DEPTH MAP - 100 YEAR ARI		
Project No: 301001-01156	Figure:301001-01156-EN-DAL-0143	Rev: 0

Somerset Regional Council

LEGEND

- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 yr ARI Flood Extent

Flood Velocity (m/s)



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REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)
MARY RIVER
FIGURE E3 PEAK FLOOD VELOCITY MAP - 100 YEAR ARI

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0144 Rev: 0

Somerset Regional Council

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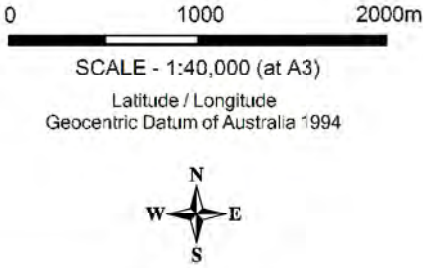
- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 yr ARI Flood Extent



Stream Power
(Watt/m^2)

- 0 to 1
- 1 to 3
- 3 to 5
- 5 to 10
- 10 to 50
- 50 to 100
- 100 to 500
- 500 to 1000
- 1000 to 2000
- 2000 to 5000
- > 5000

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REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)
MARY RIVER
FIGURE E4 PEAK STREAM POWER MAP - 100 YEAR ARI

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0145 Rev: 0

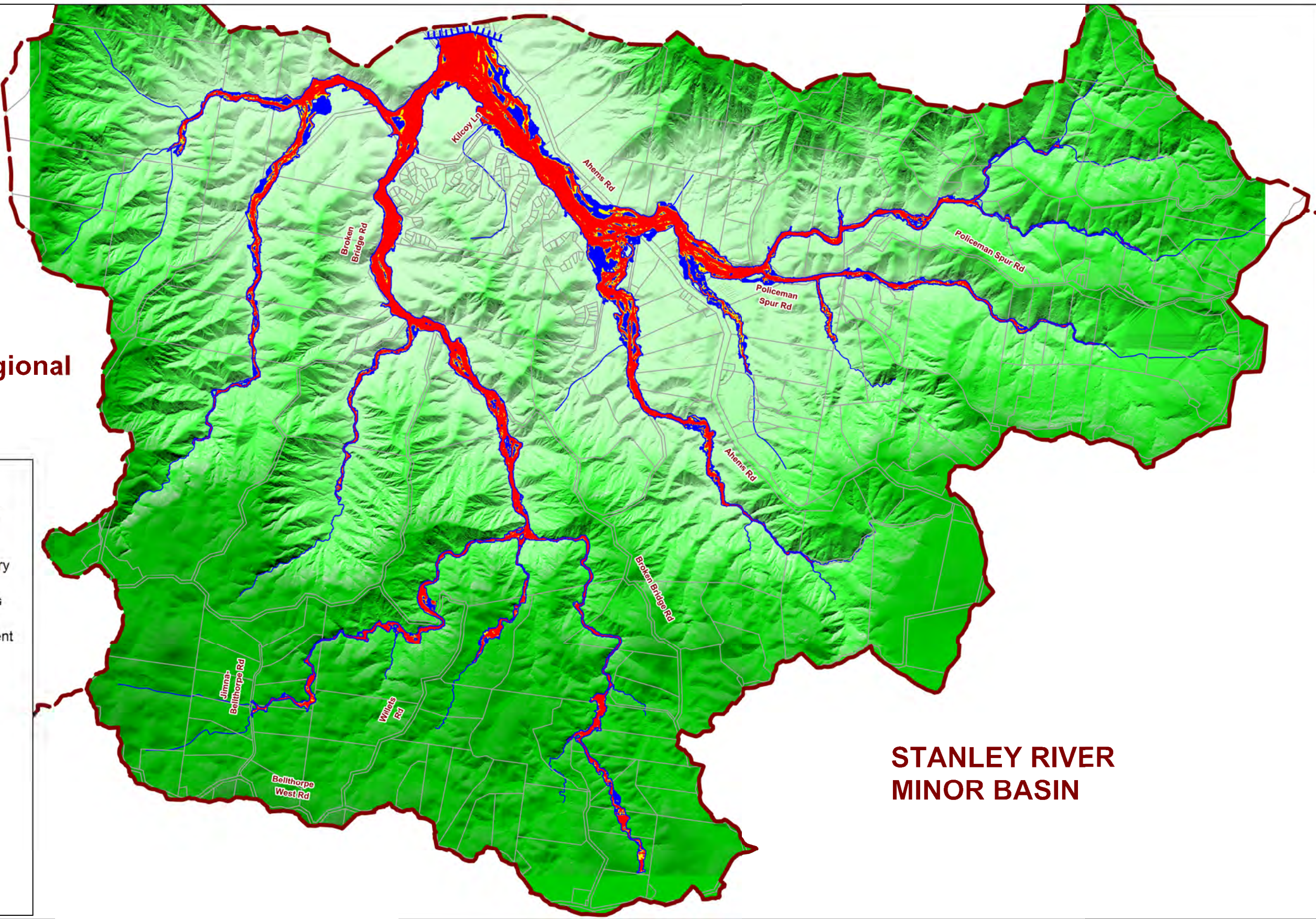
Somerset Regional Council

LEGEND

- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 yr ARI Flood Extent

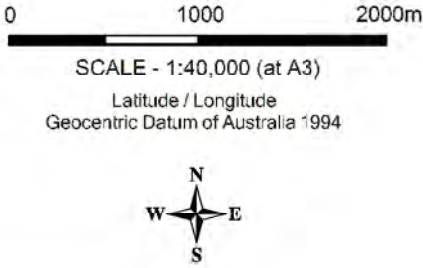
New South Wales
Floodplain Development Manual
Flood Hazard Category



- Low Hazard
- Intermediate
- High Hazard



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MARY RIVER
FIGURE E5 PEAK FLOOD HAZARD MAP - 100 YEAR ARI

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0146 Rev: 0



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REGIONAL FLOODPLAIN DATABASE

HYDROLOGIC AND HYDRAULIC MODELLING REPORT: MARY RIVER (MAR)

APPENDIX F: MODEL SENSITIVITY ANALYSIS MAPS

Somerset Regional Council

LEGEND

- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 yr ARI Flood Extent

Peak Flood Level Difference* (m)

- < -0.50
- 0.50 to -0.40
- 0.40 to -0.30
- 0.30 to -0.20
- 0.20 to -0.10
- 0.10 to -0.05
- 0.05 to 0.05
- > 0.05

*Peak flood levels from 100 Yr EDS (S1) minus peak levels from selected 100 Yr ARI critical durations

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REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)
MARY RIVER
FIGURE F1 FLOOD LEVEL DIFFERENCE BETWEEN EDS AND
SELECTED CRITICAL STORM DURATIONS - 100 YR ARI (S1)

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0147 Rev: 0

Somerset Regional Council

LEGEND

Catchment Boundary

Stream Reaches

Downstream Boundary

Cadastral Boundaries

100 Yr Flood Extent

Peak Flood Level Difference* (m)

< -0.50

-0.50 to -0.10

-0.10 to 0.10

0.10 to 0.50

> 0.50

Was dry now wet

Was wet now dry

*Peak flood levels from 100 Yr EDS (S1) minus peak levels from selected 100 Yr ARI critical durations

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REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)
MARY RIVER
FIGURE F2 INCREASE IN ROUGHNESS FLOOD LEVEL
IMPACT - 100 YEAR EDS (S2)

Project No: 301001-01156

Figure:301001-01156-EN-DAL-0148

Rev: 0

Somerset Regional Council

LEGEND

Catchment Boundary

Stream Reaches

Downstream Boundary

Cadastral Boundaries

100 Yr Flood Extent

Peak Flood Level Difference* (m)

< -0.50

-0.50 to -0.10

-0.10 to 0.10

0.10 to 0.50

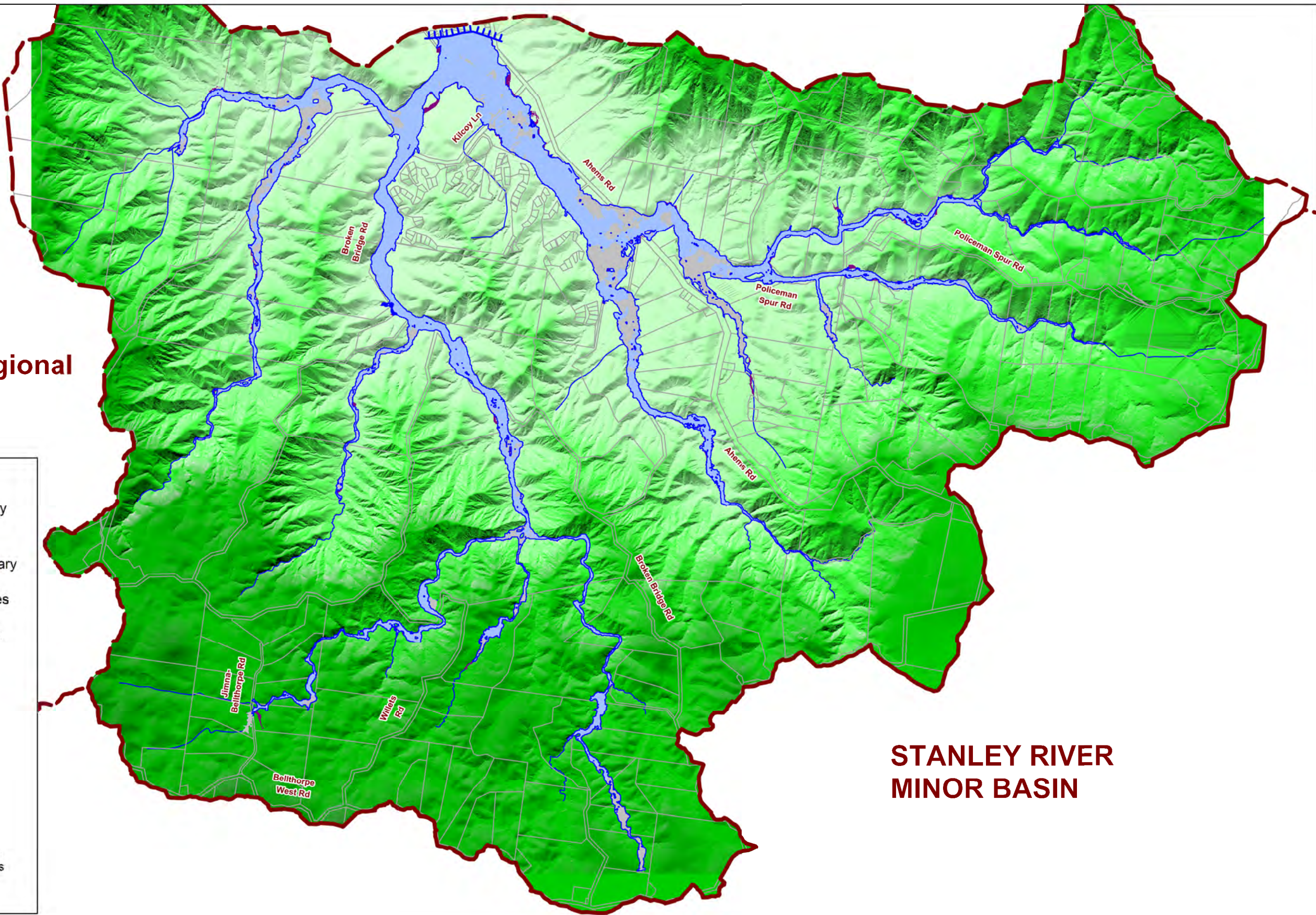
0.50 to 1.00

> 1.00

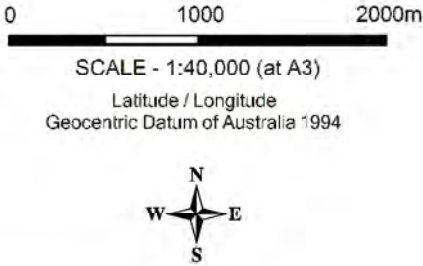
Was dry now wet



Was wet now dry

*Peak flood levels from increase in rainfall (S4) minus peak flood levels from 100 Yr EDS (S1)



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REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)		
MARY RIVER		
FIGURE F4 INCREASE IN RAINFALL FLOOD LEVEL IMPACT - 100 EDS (S4)		
Project No: 301001-01156	Figure: 301001-01156-EN-DAL-0149	Rev: 0

Somerset Regional Council

LEGEND

- Catchment Boundary
- Stream Reaches
- Downstream Boundary
- Cadastral Boundaries
- 100 Yr Flood Extent

Peak Flood Level Difference* (m)

- < -0.50
- 0.50 to -0.10
- 0.10 to 0.10
- 0.10 to 0.50
- 0.50 to 1.00
- > 1.00
- Was dry now wet
- Was wet now dry

*Peak flood levels from increase in tailwater level (S5) minus peak flood levels from 100 Yr EDS (S1)

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SCALE - 1:40,000 (at A3)

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Geocentric Datum of Australia 1994

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MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)

MARY RIVER

FIGURE F5 INCREASE IN TAILWATER LEVEL FLOOD LEVEL IMPACT - 100 EDS (S5)

Project No: 301001-01156 Figure:301001-01156-EN-DAL-0150 Rev: 0

Somerset Regional Council

LEGEND

Catchment Boundary

Stream Reaches

Downstream Boundary

Cadastral Boundaries

100 Yr Flood Extent

Peak Flood Level Difference* (m)

< -0.50

-0.50 to -0.10

-0.10 to 0.10

0.10 to 0.50

0.50 to 1.00

> 1.00

Was dry now wet

Was wet now dry

*Peak flood levels from increase in rainfall & tailwater level (S6) minus peak flood levels from 100 Yr EDS (S1)

STANLEY RIVER MINOR BASIN

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010002000m

SCALE - 1:40,000 (at A3)

Latitude / Longitude
Geocentric Datum of Australia 1994

N

W

E

S

0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
<div><div></div><div>WorleyParsons</div><div>resources & energy</div></div>			<div><div>Moreton Bay</div><div>Regional Council</div></div>				

MORETON BAY REGIONAL COUNCIL

REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2)
MARY RIVER
FIGURE F6 INCREASE IN RAINFALL & TAILWATER LEVEL
FLOOD LEVEL IMPACT - 100 EDS (S5)

Project No: 301001-01156

Figure:301001-01156-EN-DAL-0151

Rev: 0

Somerset Regional Council

LEGEND

Catchment Boundary

Stream Reaches

Downstream Boundary

Cadastral Boundaries

100 Yr Flood Extent

Peak Flood Level Difference* (m)

< -0.50

-0.50 to -0.10

-0.10 to 0.10

0.10 to 0.50

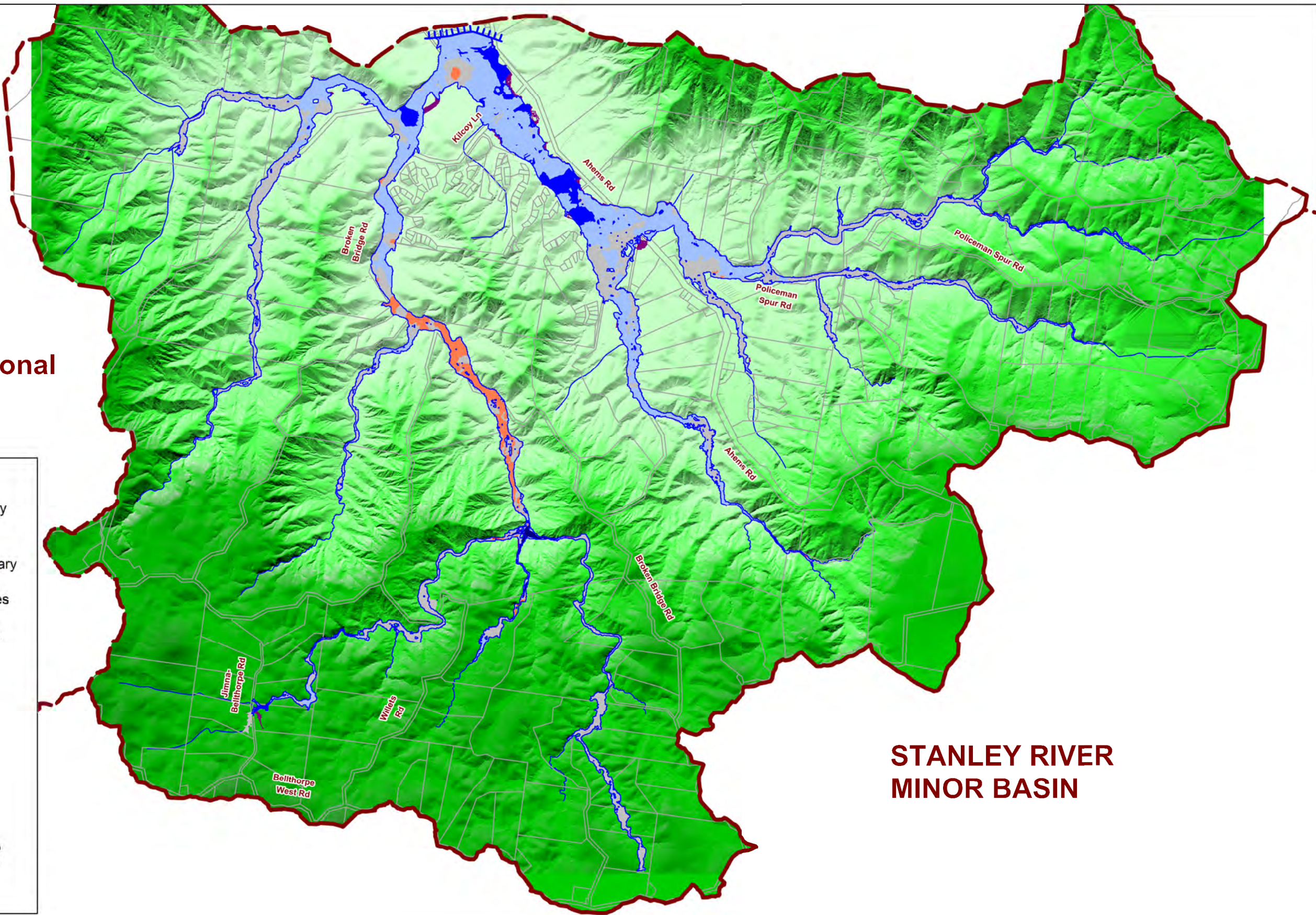
0.50 to 1.00

> 1.00

Was dry now wet

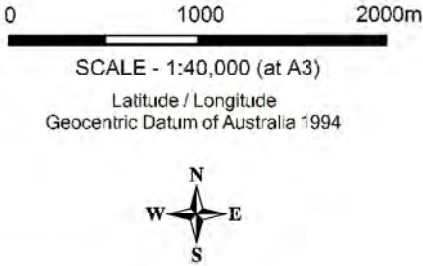
Was wet now dry



*Peak flood levels from increase in vegetation (S10) minus peak flood levels from 100 Yr EDS (S1)



STANLEY RIVER
MINOR BASIN

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0	30/07/2012	Issue for use	LC	KH	LC		
Rev	Date	Revision Description	ORIG	CHK	ENG	QA	APPD
 WorleyParsons resources & energy							

MORETON BAY REGIONAL COUNCIL		
REGIONAL FLOODPLAIN DATABASE PROJECT (STAGE 2) MARY RIVER FIGURE F10 INCREASE IN VEGETATION FLOOD LEVEL IMPACT - 100 EDS (S10)		
Project No: 301001-01156	Figure: 301001-01156-EN-DAL-0152	Rev: 0