FIGURE C-101
AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-185
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
DILLON ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
MURPHY ROAD

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-186

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
GLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-186.qgz

FIGURE C-187

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-187.qgz

FIGURE C-188

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-188.qgz

FIGURE C-189

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-189.qgz

FIGURE C-190

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-190.qgz

FIGURE C-191
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-191.qgz

FIGURE C-192

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
SPRINGS ROAD
GLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS tool\Figure_C-192.qgz

FIGURE C-193
AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
BURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-193.qgz

FIGURE C-194

AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
TWISTART TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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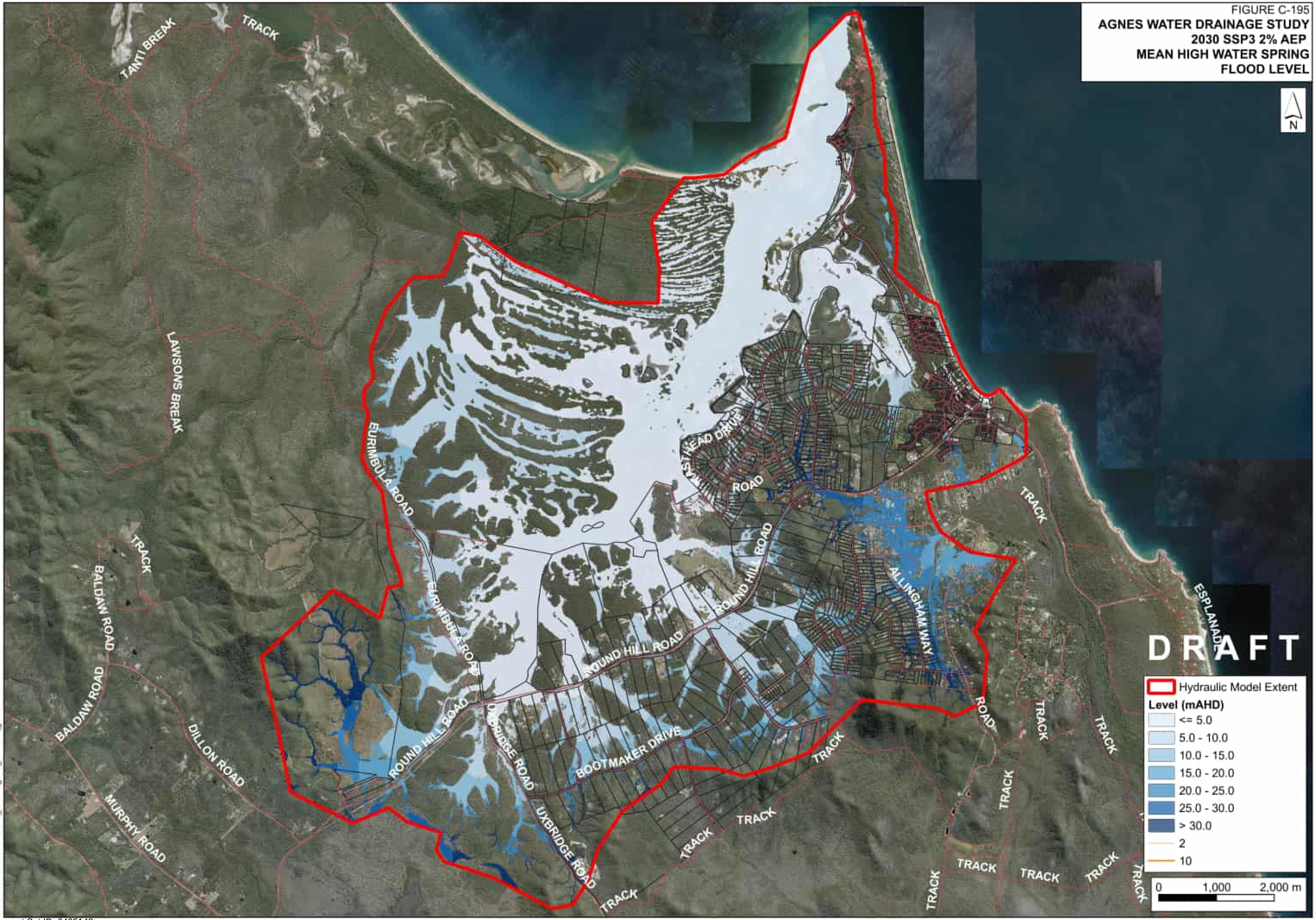
FIGURE C-195
AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL
N
TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
ROUND HILL ROAD
ALLINGHAM WAY
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ESPLANADE
DRAFT
Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10
0
1,000
2,000 m
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FIGURE C-196

AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-196.qgz

FIGURE C-197
AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-197.qgz

FIGURE C-198

AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-198.qgz

FIGURE C-199
AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-199.qgz

FIGURE C-200

AGNES WATER DRAINAGE STUDY
2030 SSP3 2% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-200.qpz

FIGURE C-102

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-102.qgz

FIGURE C-103
AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-103.qgz

FIGURE C-104

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-104.qgz

FIGURE C-105
AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
BALDAW ROAD
BALDAW ROAD
TRACK
DILLON ROAD
MURPHY ROAD

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-105.qgz

FIGURE C-106

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

0 250 500 m

DRAFT

J:\J24\124028\GIS\QGIS tool\Figure_C-106.qgz

FIGURE C-107

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-107.qgz

FIGURE C-108

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS tool\Figure_C-108.qgz

FIGURE C-109

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
WEST HEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
ALLINGHAM WAY
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-109.qgz

FIGURE C-110

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
CLOWES LANE
SPRINGS ROAD
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-110.qgz

FIGURE C-111

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROUND HILL ROAD
ROUND HILL ROAD
ROAD
TRACK
ALLINGHAM WAY
ROAD
TRACK
TRACK
ESPLANADE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-111.qgz

FIGURE C-112

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-112.qgz

FIGURE C-113

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-114

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
CLOWES LANE
SPRINGS ROAD
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-115
AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

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FIGURE C-116

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS tool\Figure_C-116.qgz

FIGURE C-117

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROUND HILL ROAD
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-117.qgz

FIGURE C-118

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
CLOWES LANE
SPRINGS ROAD
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
ESPLANADE

DRAFT

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-118.qgz

FIGURE C-119
AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J241\124028\GIS\QGIS_tool\Figure_C-119.qgz

FIGURE C-120

AGNES WATER DRAINAGE STUDY
2030 SSP3 50% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-120.qgz


FIGURE C-121
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH
N
TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
BALDAW ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
ROUND HILL ROAD
DRAFT
BALDAW ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ROAD
TRACK
TRACK
DILLON ROAD
TRACK
TRACK
TRACK
MURPHY ROAD
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
Depth (m)
<= 0.1
0.1 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
2.0 - 3.0
> 3.0
Hydraulic Model Extent
0 1,000 2,000 m
J:\J24124028\GIS\QGIS_tool\Figure_C-121.qgz

FIGURE C-122

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-122.qgz

FIGURE C-123
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

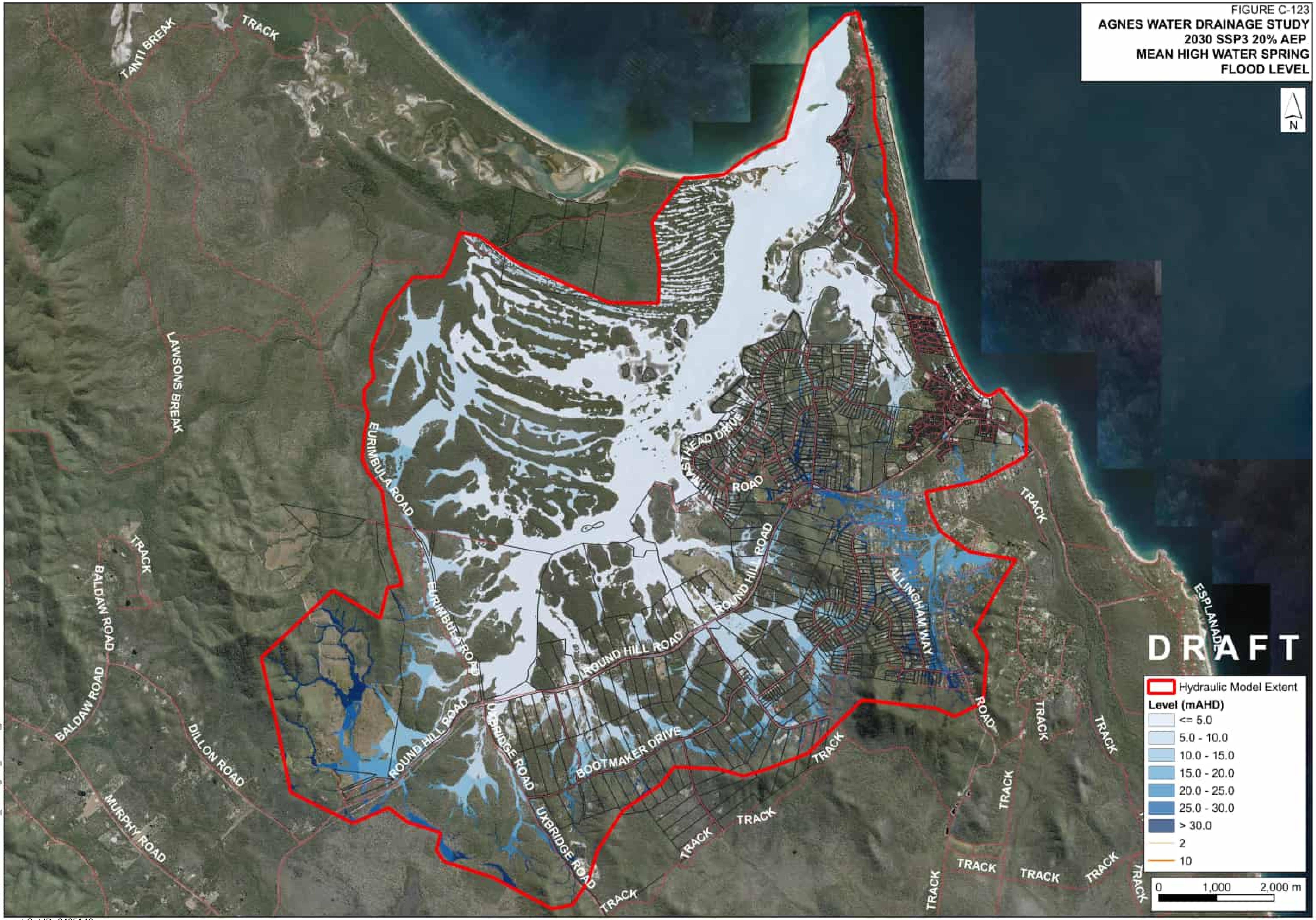

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FIGURE C-124
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-124.qgz

FIGURE C-125

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
UXBRIDGE ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-125.qgz

FIGURE C-126

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-126.qgz

FIGURE C-127
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-127.qgz

FIGURE C-128
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-128.qgz

FIGURE C-129
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-129.qgz

FIGURE C-130

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-130.qgz

FIGURE C-131
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-131.qgz

FIGURE C-132

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-132.qgz

FIGURE C-133
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
BURRIMBULA ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-133.qgz

FIGURE C-134

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
GLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-134.qgz

FIGURE C-135
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK
ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ROAD
TRACK
TRACK
TRACK
ESPLANADE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-135.qgz

FIGURE C-136

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-136.qgz

FIGURE C-137

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-137.qgz

FIGURE C-138

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-138.qgz

FIGURE C-139
AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-139.qgz

FIGURE C-140

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-140.qgz

FIGURE C-141

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-141.qgz

FIGURE C-142

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
CLOWES LANE
SPRINGS ROAD
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK
ESPLANADE

DRAFT

0 250 500 m

J:\J241\124028\GIS\QGIS_tool\Figure_C-142.qgz

FIGURE C-143

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-143.qgz

FIGURE C-144

AGNES WATER DRAINAGE STUDY
2030 SSP3 20% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-144.qgz

FIGURE C-145

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

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FIGURE C-146

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
GLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-146.qgz

FIGURE C-147
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-147.qgz

FIGURE C-148

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-148.qgz

FIGURE C-149

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-149.qgz

FIGURE C-150

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SEASPRAY DRIVE
CLOWES LANE
SPRINGS ROAD
ESPLANADE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-150.qgz

FIGURE C-151
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-151.qgz

FIGURE C-152
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

CAPTAIN COOK DRIVE
RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-152.qgz

FIGURE C-153
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
TRACK
BALDAW ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
TRACK
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-153.qgz

FIGURE C-154

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

0 250 500 m

DRAFT

J:\J24\124028\GIS\QGIS_tool\Figure_C-154.qgz

FIGURE C-155
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MARSTHEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-155.qgz

FIGURE C-156

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARIA TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-156.qgz

FIGURE C-157
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-157.qgz

FIGURE C-158

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
TWISTART TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\U24\124028\GIS\QGIS_tool\Figure_C-158.qgz

FIGURE C-159
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-159.qgz

FIGURE C-160

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
LOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-160.qgz

FIGURE C-161
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-161.qgz

FIGURE C-162

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-162.qgz

FIGURE C-163
AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

J:\J24\124028\GIS\QGIS_tool\Figure_C-163.qgz

FIGURE C-164

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-164.qgz

FIGURE C-165

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
BALDAW ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
TRACK
TRACK
TRACK
TRACK
TRACK
TRACK

DRAFT

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-165.qgz

FIGURE C-166

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)

- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
SPRINGS ROAD
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
SPRINGS ROAD

DRAFT

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-166.qgz

FIGURE C-167

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-167.qgz

FIGURE C-168

AGNES WATER DRAINAGE STUDY
2030 SSP3 10% AEP
HIGHEST ASTRONOMICAL TIDE
HYDRAULIC RISK

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
GLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

J:\J24\124028\GIS\QGIS tool\Figure_C-168.qgz

J:\J24\124028\GIS\QGIS_tool\Figure_C-169.qgz

FIGURE C-170

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-170.qgz

FIGURE C-171
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-171.qgz

FIGURE C-172
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
FLOOD LEVEL

N

RAFTING GROUND ROAD
WISTARI TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
OLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-172.qgz

FIGURE C-173
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 1,000 2,000 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-173.qgz

FIGURE C-174

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
VELOCITY

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Velocity (m/s)
- <= 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1.0
- 1.0 - 1.5
- > 1.5
- Hydraulic Model Extent

0 250 500 m

J:\J24\124028\GIS\QGIS_tool\Figure_C-174.qgz

FIGURE C-175
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

TANTI BREAK TRACK
LAWSONS BREAK
EURIMBULA ROAD
MASTHEAD DRIVE
ROAD
TRACK
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
ROUND HILL ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE
ALLINGHAM WAY
ESPLANADE

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 2.5 5 7.5 10 km

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FIGURE C-176

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
VELOCITY X DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

V.d (m²/s)
- <= 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- 3.0 - 4.0
- > 4.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-177

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
MAST HEAD DRIVE
ROAD
TRACK
ESPLANADE
ALLINGHAM WAY
ROUND HILL ROAD
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
UXBRIDGE ROAD
BOOTMAKER DRIVE

DRAFT

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure
- Hydraulic Model Extent

0 1,000 2,000 m

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FIGURE C-178
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
HYDRAULIC HAZARD (HANDBOOK 7)

Hazard (HB7)
- H1 - Generally safe for people, vehicles and buildings
- H2 - Unsafe for vehicles
- H3 - Unsafe for vehicles, children and the elderly
- H4 - Unsafe for people and vehicles
- H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
- H6 - Unsafe for vehicles and people. All building types consider vulnerable to failure

N

RAFTING GROUND ROAD
WISTARIA TERRACE
FITZROY CRESCENT
CAPTAIN COOK DRIVE
SPRINGS ROAD
CLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

0 250 500 m

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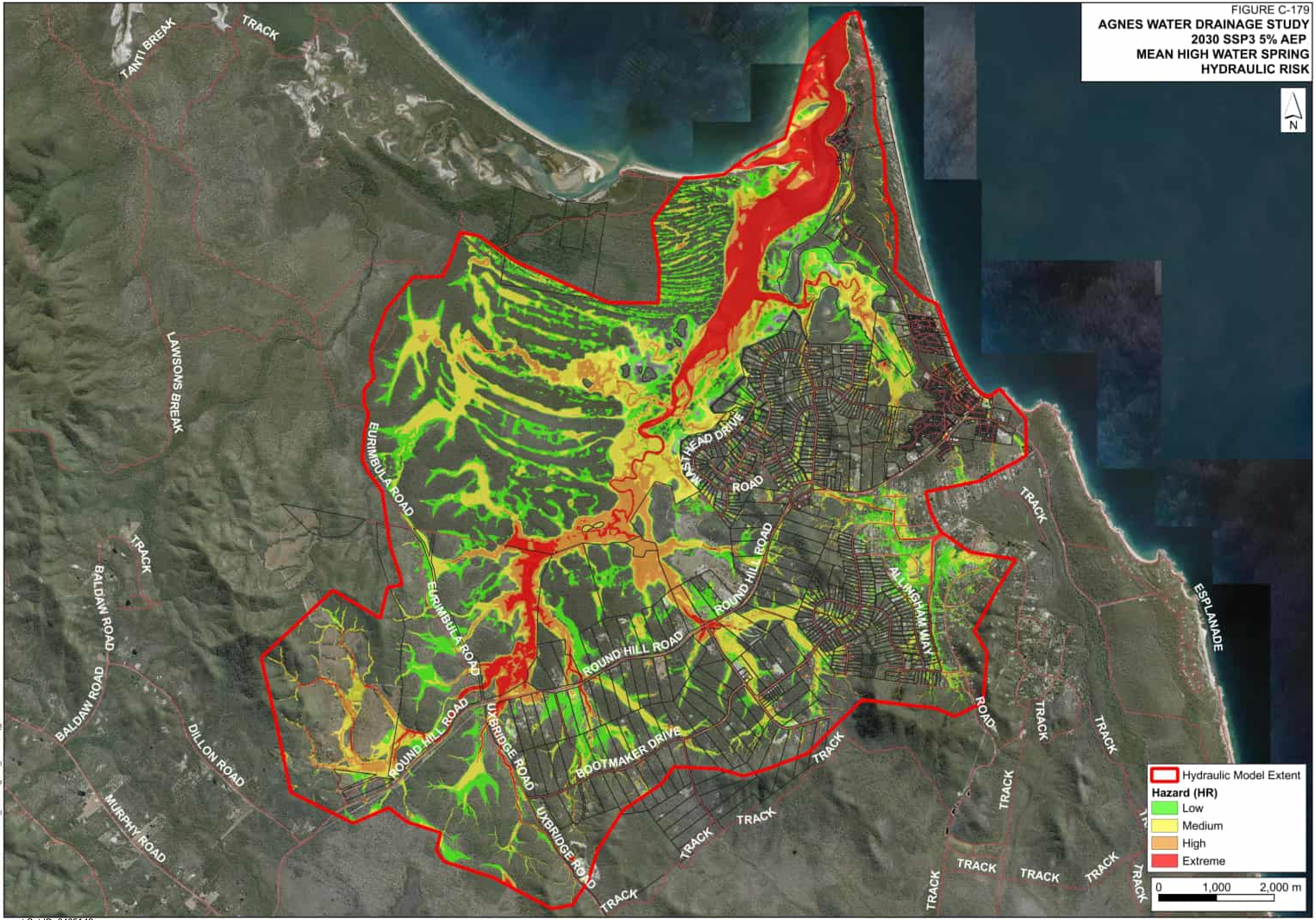

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FIGURE C-180

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
MEAN HIGH WATER SPRING
HYDRAULIC RISK

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
GLOWES LANE
SPRINGS ROAD
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

Hydraulic Model Extent
Hazard (HR)
Low
Medium
High
Extreme

0 250 500 m

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FIGURE C-181

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

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FIGURE C-182

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD DEPTH

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
GLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Depth (m)
- <= 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 3.0
- > 3.0
- Hydraulic Model Extent

0 250 500 m

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FIGURE C-183
AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

TANTI BREAK
TRACK
LAWSONS BREAK
EURIMBULA ROAD
SOUTH HEAD DRIVE
ROAD
TRACK
ROUND HILL ROAD
ALLINGHAM WAY
ESPLANADE
BALDAW ROAD
DILLON ROAD
MURPHY ROAD
EURIMBULA ROAD
ROUND HILL ROAD
OXBRIDGE ROAD
BOOTMAKER DRIVE
UXBRIDGE ROAD
TRACK

DRAFT

Hydraulic Model Extent
Level (mAHD)
<= 5.0
5.0 - 10.0
10.0 - 15.0
15.0 - 20.0
20.0 - 25.0
25.0 - 30.0
> 30.0
2
10

0 1,000 2,000 m

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FIGURE C-184

AGNES WATER DRAINAGE STUDY
2030 SSP3 5% AEP
HIGHEST ASTRONOMICAL TIDE
FLOOD LEVEL

N

RAFTING GROUND ROAD
FITZROY CRESCENT
WISTARI TERRACE
CAPTAIN COOK DRIVE
SPRINGS ROAD
OLOWES LANE
ESPLANADE
SEASPRAY DRIVE
ROUND HILL ROAD
BICENTENNIAL DRIVE
TRACK

DRAFT

Level (mAHD)
- <= 2
- 2 - 4
- 4 - 8
- 8 - 10
- 10 - 12
- 12 - 15
- > 15
- Minor (1m)
- Major (5m)
- Hydraulic Model Extent

0 250 500 m

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